



# DESIGNATED AIRSPACE HANDBOOK

**EFFECTIVE 17 NOVEMBER 2011**

Compiled from data held by AIS at 17 AUGUST 2011

**NEXT ISSUE EFFECTIVE 31 MAY 2012**

## IMPORTANT NOTICE

The information in this publication may be superseded by NOTAM  
Consult NOTAM for latest information.

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The Horizontal Datum used in this document is the World Geodetic Datum 1984 (WGS84).  
The Vertical Datum is the Australian Height Datum (AHD).



# INDEX

<a href="#">INTRODUCTION</a>	INTRO - 1
<a href="#">SPECIAL NOTICES</a>	INTRO - 2
<a href="#">SECTION 1 - FLIGHT INFORMATION REGIONS</a>	FIR - 1
<a href="#">FLIGHT INFORMATION REGIONS MAP</a>	FIR - 2
<a href="#">SECTION 2 - CONTROL ZONES C</a>	CTR C - 1
<a href="#">SECTION 3 - CONTROL ZONES D</a>	CTR D - 1
<a href="#">SECTION 4 - CONTROLLED AIRSPACE A</a>	CTA A - 1
<a href="#">SECTION 5 - CONTROLLED AIRSPACE C</a>	CTA C - 1
<a href="#">SECTION 6 - CONTROLLED AIRSPACE D</a>	CTA D - 1
<a href="#">SECTION 7 - CONTROLLED AIRSPACE E</a>	CTA E - 1
<a href="#">SECTION 8 - OCEANIC CONTROL AREAS</a>	OCEANIC CTA - 1
<a href="#">SECTION 9 - ATC SECTORS LOW</a>	ATC LOW - 1
<a href="#">SECTION 10 - ATC SECTORS HIGH/LOW</a>	ATC HIGH/LOW - 1
<a href="#">SECTION 11 - E AIRSPACE FREQUENCY BOUNDARIES</a>	EFREQ - 1
<a href="#">SECTION 12 - FLIGHT INFORMATION AREAS</a>	FIA - 1
<a href="#">SECTION 13 - PRD AREAS</a>	PRD - 1
<a href="#">PRD ACRONYM LEGEND</a>	PRD - 1
<a href="#">PROHIBITED AREAS</a>	PRD - 2
<a href="#">RESTRICTED AREAS</a>	PRD - 2
<a href="#">DANGER AREAS</a>	PRD - 39
<a href="#">SECTION 14 - HF FREQUENCY AREA BOUNDARIES</a>	HF FREQ- 1
<a href="#">HF FREQUENCY AREA BOUNDARIES DIAGRAM</a>	HF FREQ-2
<a href="#">SECTION 15 - ARFOR &amp; AREA QNH ZONE BOUNDARIES</a>	ARF/AQZ - 1
<a href="#">AREA FORECAST &amp; AQZ BOUNDARIES MAP</a>	ARF/AQZ- 3
<a href="#">SECTION 16 - CERTIFIED OR REGISTERED AERODROMES</a>	AD - 1
<a href="#">SECTION 17 - CERTIFIED OR REGISTERED AERODROMES THR DATA</a>	RWY THR - 1
<a href="#">SECTION 18 - CONTROLLED AERODROMES</a>	CTRL AD - 1
<a href="#">SECTION 19 - UNCERTIFIED OR UNREGISTERED AD LISTED IN ERSA FAC</a>	UN C/R ALA - 1
<a href="#">SECTION 20 - NAVIGATION AIDS</a>	NAV - 1
<a href="#">SECTION 21 - IFR WAYPOINTS</a>	IFR WPT - 1
<a href="#">SECTION 22 - AIR ROUTES</a>	ROUTES - 1
<a href="#">NON CHARTED ROUTES - DOMESTIC</a>	ROUTES -36
<a href="#">SECTION 23 - MILITARY SENSITIVE AREAS</a>	SENS - 1
<a href="#">SECTION 24 - MILITARY AAR &amp; AEW&amp;C AIRSPACE</a>	MAAA - 1
<a href="#">AAR and AEW&amp;C AIRSPACE</a>	MAAA - 1
<a href="#">AIRSPACE ANCHOR WAYPOINTS</a>	MAAA ANCHOR WPT -1
<a href="#">REFUELLING TRACKS</a>	MAAA TRACK - 1
<a href="#">MILITARY AAR TRACK WAYPOINTS</a>	MAAA TRACK WPT - 1
<a href="#">MILITARY AAR and AEW&amp;C PATTERNS</a>	MAAA PATTERNS - 1

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## INTRODUCTION

1. **PURPOSE. Designated Airspace Australia** is a publication issued on an alternating approximate 24/28 week cycle. The DAH lists, in tabular form, the lateral and vertical limits and other pertinent details of the airspace types listed in the table of contents.  
  
Further information is contained in AIP and MATS Chapter 2-30. The boundaries of Search and Rescue Areas can be found in AIP GEN 3.6. For ATC management purposes further information is contained in MATS Supplementary Procedures or Local Orders/Instructions.
2. **CONDITION FOR RESTRICTED AREAS.** An aircraft may only be flown in the airspace of a restricted area if the pilot in command has approval for the flight from the Controlling Authority mentioned for the restricted area. References to the "Administering Authority" are taken to be references to the Controlling Authority.
3. **NOTAM.** NOTAM are used to disseminate urgent changes to information contained in the DAH. Consult current NOTAM for latest information.
4. **VERTICAL LIMITS / HOURS OF OPERATION**  
Except when stated as AGL (above ground level), Lower and Upper vertical limits are promulgated as Above Mean Sea Level when at or below the Transition Altitude or as a flight level when above the Transition Altitude  
  
SFC means the surface of the ground or water.  
  
NOTAM indicates that the vertical limits will be notified by NOTAM  
  
The following code applies for Hours of Operation:
 

AH	AFTER HOURS
D	DAILY
H24	CONTINUOUSLY
E	WEEKENDS (SAT & SUN)
EXPH	EXCLUDING PUBLIC HOLIDAYS
HDS	HOURS OF DAYLIGHT SAVING
HJ	SUNRISE TO SUNSET
HN	DURING HOURS OF DARKNESS
JO	MONDAY TO FRIDAY (EXC PUBLIC HOLIDAYS)
JF	SAT, SUN & PUBLIC HOLIDAYS
MON, TUE, WED,	
THU, FRI,	
SAT, SUN	DAYS OF THE WEEK
W	MONDAY TO FRIDAY
WS	MONDAY TO SATURDAY
Z	UNIVERSAL COORDINATED TIME
L	LOCAL TIME
OT	OTHER TIMES
5. Airspace descriptions will be preceded by a FIR identifier. These identifiers are as follows:  
Brisbane YBBB  
Melbourne YMMM
6. To reduce clutter, the following areas are not shown on Aircservices charts because of:
  - a. infrequent activation, or low level Oceanic area.
  - b. the areas are wholly contained within Controlled Airspace.  
YBBB/R 725 -- SAUMAREZ REEF
7. Under each FIR a restricted area number has been reserved for Air Defence Identification Zones (ADIZ) purposes. Procedures relating to the introduction of these Zones are contained in Flight Information Handbook Australia (FIHA).
8. Control areas are normally active continuously, but areas depicted may cease to be operative in certain circumstances. Areas identified by the word NOTAM may be activated or additional areas may be established to meet temporary requirements. These changes will be advised by NOTAM or specified on radio navigation charts, but pilots should plan their action on the basis that the depicted control areas are operative unless advised to the contrary.
9. In accordance with the provisions of CAR, aircraft operating in military CTR, whether active or de-activated, are not to use the surface of any military airfield unless specifically approved by the relevant military authority.
10. All CTR are active only during the hours of operation of the control tower.
11. Due to the possible variation of the hours of operation of civil and military towers, pilots should plan their operations on the basis that control zones are active unless advised to the contrary.
12. **ADVICE OF ERRORS AND SUGGESTIONS:**  
Correction and error advice is requested by the following three methods (in order of preference):
  - a. Online at  
<https://www.airservicesaustralia.com/publications/ccard/default.asp>, or  
Email at [docs.amend@airservicesaustralia.com](mailto:docs.amend@airservicesaustralia.com) or
  - b. FAX: 02 6268 5689 or
  - c. Mail  
Business Reply Post  
PERMIT No 1986 - CIVIC SQUARE  
AIRSERVICES AUSTRALIA  
ATTN: AERONAUTICAL INFORMATION SERVICE  
GPO BOX 367, CANBERRA, ACT, 2601.
13. **CHANGE OF ADDRESS AND PROCUREMENT:**  
To advise change of address and to arrange for procurement, contact:  
Aircservices Australia  
Publications Centre  
Locked Bag 8500  
CANBERRA ACT 2601  
Phone: 1300 306630 (local call Australia wide, except from Mobile), or  
02 -- 6268 5500  
FAX -- 02 -- 6268 5111  
E--mail: [publications.unit@airservicesaustralia.com](mailto:publications.unit@airservicesaustralia.com)  
**NOTE THAT ANY CALLS MADE FROM MOBILE PHONES ATTRACT THE NORMAL MOBILE CALL CHARGES AND ARE NOT CHARGED AT LOCAL CALL RATES OR FREE OF CHARGE CALL**

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## SPECIAL NOTICES

The coordinates published in the Designated Airspace Handbook (DAH) conform to the following rules:

- the compass cardinal point is placed last;
- symbols are omitted;
- latitude is expressed as two digits for degrees, minutes and seconds (including where the value is less than 10);
- longitude is expressed using three digits for degrees (including where that value is less than 100 degrees) and two digits for minutes and seconds (including where the value is less than 10);
- one space is included between the degree/minute values and the minute/second values;
- one space is included between the latitude and longitude groupings;
- where a degree of accuracy of decimals of seconds is required, the decimal places are inserted immediately following the seconds digits and before the cardinal point (the number of decimal places is always consistent within the set);
- when two or more sets of coordinates are identified, each set is separated by a comma.

### Example 1,

The most stringent ICAO accuracy requires some coordinates to be given in hundredths of a second. Thus, the delineation of five degrees, seven minutes and twenty—one point two—zero seconds South, sixty-five degrees, twenty-five minutes, and twenty-two point six—two seconds East will be presented as:  
05 07 21.20S 065 25 22.62E.

### Example 2

Should the above example be required to an accuracy of one tenth of a second, it will be presented as:  
05 07 21.2S 065 25 22.6E.

### Example 3

Should the above example be required to an accuracy of one second, it will be presented as:  
05 07 21S 065 25 23E.

### Example 4

Should the above example be required to an accuracy of one minute (ie, 1NM) it will be presented as:  
05 07S 065 25E.

The only exceptions to the above are the delineation of Military Sensitive Areas (Section 23) and the Air Route listings (Section 22). These sections will continue to have their Latitudes/Longitudes expressed in the form required for all AIP operational (cockpit) documentation; that is, in degrees, minutes and tenths of a minute, with the cardinal point placed first.

## SECTION 1 - FLIGHT INFORMATION REGIONS

### YBBB-YMMM/BRISBANE FIR

**LATERAL LIMITS:** 12 00 00S 114 30 00E, 12 00 00S 123 20 00E  
 09 20 00S 126 50 00E, 07 00 00S 135 00 00E  
 09 50 00S 139 40 00E, 09 50 00S 141 00 00E  
 09 37 00S 141 01 06E, 09 15 42S 142 03 30E  
 then along QLD/PNG border to 09 19 24S 142 48 18E  
 09 08 00S 143 52 30E, 09 24 00S 144 14 00E  
 09 56 34S 144 05 21E,  
 then along the Barrier Reef to 11 30 00S 144 01 36E  
 11 43 30S 144 04 20E, 12 00 00S 144 00 00E  
 12 00 00S 155 00 00E, 14 00 00S 155 00 00E  
 14 00 00S 161 15 00E, 17 40 00S 163 00 00E  
 45 00 00S 163 00 00E, 45 00 00S 150 00 00E  
 44 33 57S 150 00 00E, 43 51 03S 150 39 53E  
 43 00 00S 151 00 00E, 38 11 19S 150 19 14E  
 36 56 43S 150 45 03E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 35 18 59S 152 55 50E  
 34 28 18S 151 49 23E,  
 then along the major arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E  
 32 05 40S 148 49 51E, 29 00 00S 146 32 00E  
 29 00 00S 143 30 00E, 26 13 31S 138 23 24E  
 22 17 51S 136 38 07E, 21 51 32S 136 22 25E  
 21 29 59S 136 19 44E, 21 12 09S 131 50 24E  
 23 13 13S 128 27 49E, 23 23 49S 126 03 32E  
 21 31 19S 124 33 04E, 20 03 18S 121 40 22E  
 19 00 00S 120 15 00E, 14 08 13S 115 08 32E  
 12 00 00S 114 30 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

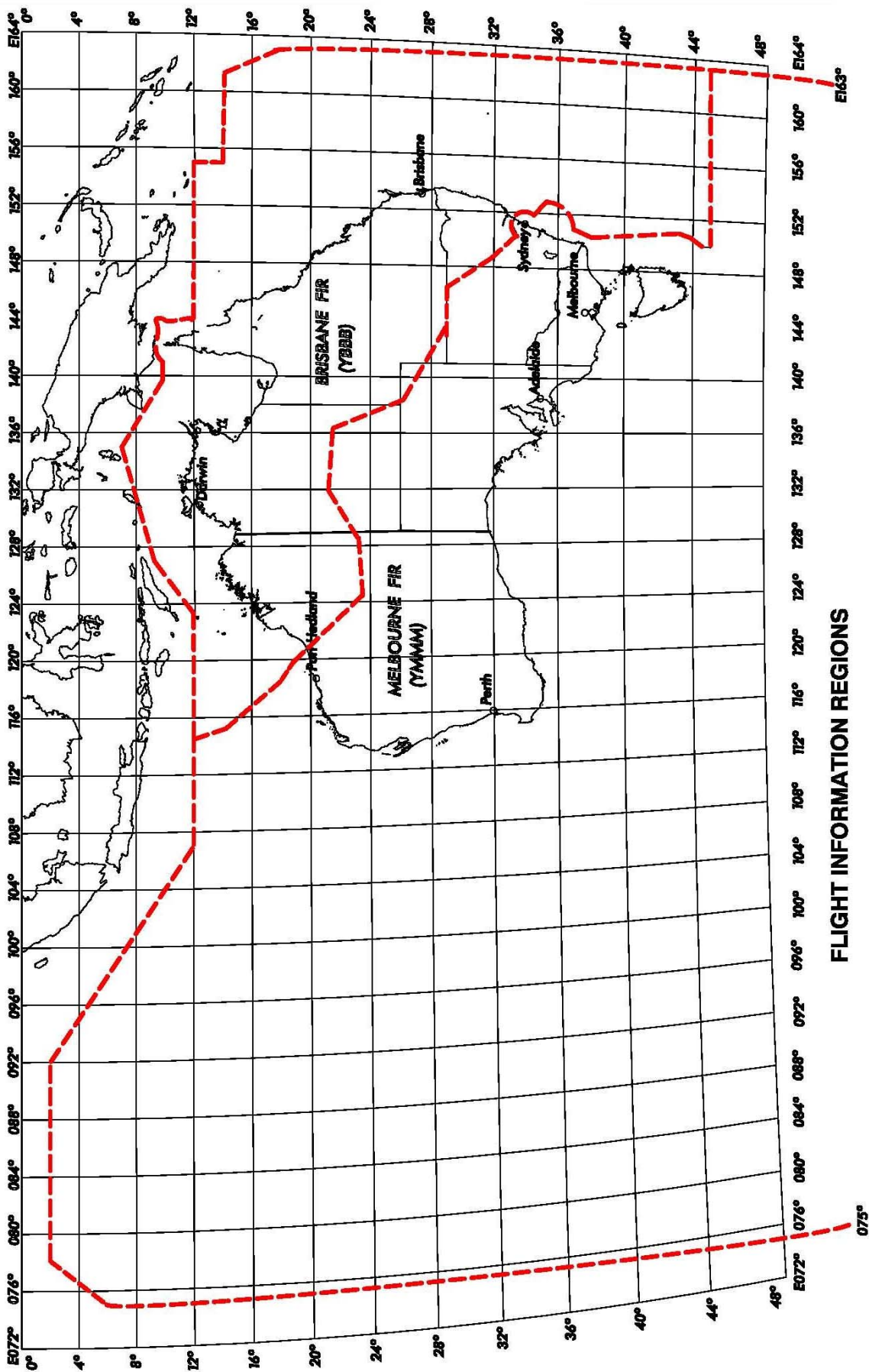
### YBBB-YMMM/MELBOURNE FIR

**LATERAL LIMITS:** 06 00 00S 075 00 00E, 02 00 00S 078 00 00E  
 02 00 00S 092 00 00E, 12 00 00S 107 00 00E  
 12 00 00S 114 30 00E, 14 08 13S 115 08 32E  
 19 00 00S 120 15 00E, 20 03 18S 121 40 22E  
 21 31 19S 124 33 04E, 23 23 49S 126 03 32E  
 23 13 13S 128 27 49E, 21 12 09S 131 50 24E  
 21 29 59S 136 19 44E, 21 51 32S 136 22 25E  
 22 17 51S 136 38 07E, 26 13 31S 138 23 24E  
 29 00 00S 143 30 00E, 29 00 00S 146 32 00E  
 32 05 40S 148 49 51E, 33 25 34S 150 31 41E  
 then along the major arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
 35 18 59S 152 55 50E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
 38 11 19S 150 19 14E, 43 00 00S 151 00 00E  
 43 51 03S 150 39 53E, 44 33 57S 150 00 00E  
 45 00 00S 150 00 00E, 45 00 00S 163 00 00E  
 90 00 00S 135 00 00E, 06 00 00S 075 00 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia



FLIGHT INFORMATION REGIONS



## SECTION 2 - CONTROL ZONES C

### YMMM/ADELAIDE CONTROL ZONE (C)

**LATERAL LIMITS:** 34 47 27S 138 24 26E, 34 48 38S 138 32 18E  
34 50 57S 138 35 55E, 34 50 54S 138 36 57E  
34 48 47S 138 40 38E,  
then along the major arc of a circle of 11.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 47 27S 138 24 26E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/AMBERLEY CONTROL ZONE (C)

**LATERAL LIMITS:** 27 29 24S 152 47 34E, 27 42 34S 152 52 59E  
27 44 13S 152 51 55E,  
then along the major arc of a circle of 10.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 29 24S 152 47 34E  
NOTES: CTR may be subject to short notice recall.  
**VERTICAL LIMITS:** SFC - 7500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

### YBBB/BRISBANE CONTROL ZONE (C)

**LATERAL LIMITS:** 27 20 58S 153 00 06E, 27 19 17S 153 01 04E  
then along the minor arc of a circle of 7.00NM radius centred on  
27 22 29S 153 08 04E to 27 25 40S 153 15 04E  
27 27 21S 153 14 06E,  
then along the major arc of a circle of 7.00NM radius centred on  
27 24 10S 153 07 06E to 27 20 58S 153 00 06E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/CAIRNS CONTROL ZONE (C)

**LATERAL LIMITS:** 16 53 20S 145 39 30E, 16 48 41S 145 38 09E  
then along the minor arc of a circle of 7.00NM radius centred on  
16 51 57S 145 44 37E to 16 49 09S 145 51 18E  
16 50 44S 145 52 01E,  
then along the minor arc of a circle of 7.00NM radius centred on  
16 53 32S 145 45 20E to 17 00 30S 145 44 20E  
16 53 20S 145 39 30E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/CANBERRA CONTROL ZONE (C)

**LATERAL LIMITS:** 35 24 20S 149 05 07E, 35 10 55S 149 05 36E  
then along the minor arc of a circle of 9.00NM radius centred on  
35 18 25S 149 11 42E (YSCB/AD) to 35 10 58S 149 17 54E  
35 24 29S 149 18 05E,  
then along the minor arc of a circle of 8.00NM radius centred on  
35 18 25S 149 11 42E (YSCB/AD) to 35 24 20S 149 05 07E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/CURTIN CONTROL ZONE (C)

**LATERAL LIMITS:** 17 27 10S 123 41 51E, 17 29 10S 124 01 54E  
then along the minor arc of a circle of 12.00NM radius centred on  
17 35 20S 123 51 07E (CIN/DME) to 17 43 18S 124 00 32E

17 40 22S 123 53 51E, 17 36 50S 123 38 38E  
then along the minor arc of a circle of 12.00NM radius centred on  
17 35 20S 123 51 07E (CIN/DME) to 17 27 10S 123 41 51E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

### YBBB/DARWIN CONTROL ZONE (C)

**LATERAL LIMITS:** 12 31 48S 130 51 21E, 12 31 13S 130 49 36E  
then along the minor arc of a circle of 7.00NM radius centred on  
12 24 34S 130 51 55E to 12 17 55S 130 54 14E  
12 18 30S 130 55 59E,  
then along the minor arc of a circle of 7.00NM radius centred on  
12 25 09S 130 53 40E to 12 19 36S 130 58 03E  
12 24 58S 130 58 05E, 12 31 30S 130 56 45E  
then along the minor arc of a circle of 7.00NM radius centred on  
12 25 09S 130 53 40E to 12 31 48S 130 51 21E  
**VERTICAL LIMITS:** SFC - 1000  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

### YMMM/EAST SALE CONTROL ZONE (C)

**LATERAL LIMITS:** A circle of 5.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD)  
**VERTICAL LIMITS:** SFC - 3000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

### YMMM/EDINBURGH CONTROL ZONE (C)

**LATERAL LIMITS:** 34 43 37S 138 31 27E, 34 32 22S 138 27 08E  
then along LOWER LIGHT REDBANKS RD 1 to 34 28 42S 138 33 35E  
then along THE REDBANK/WASLEY RD to 34 28 21S 138 40 52E  
then along THE ROSEWORTHY/WASLEY RAILWAY 2 to 34 33 55S  
138 43 34E  
then along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 33 58S 138 42 41E  
34 36 43S 138 41 04E,  
then along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 37 53S 138 43 41E  
then along MAIN NORTH RD to 34 43 44S 138 40 23E  
34 45 48S 138 37 07E,  
then along LITTLE PARA RVR to 34 46 20S 138 35 36E  
34 46 29S 138 34 13E,  
then along the minor arc of a circle of 5.00NM radius centred on  
34 42 09S 138 37 15E (YPED/AD) to 34 43 37S 138 31 27E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

### YBBB/GOLD COAST CONTROL ZONE (C)

**LATERAL LIMITS:** 28 16 51S 153 27 55E, 28 07 09S 153 23 04E  
then along the major arc of a circle of 7.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 16 51S 153 27 55E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/LEARMONTH CONTROL ZONE (C)**

**LATERAL LIMITS:** 22 08 43S 113 59 45E, 22 07 57S 114 00 22E  
21 59 52S 114 00 22E,

then along the minor arc of a circle of 15.00NM radius centred on  
22 14 05S 114 05 39E (LM/DME) to 21 59 53S 114 11 00E  
22 28 18S 114 11 00E,

then along the minor arc of a circle of 15.00NM radius centred on  
22 14 05S 114 05 39E (LM/DME) to 22 28 39S 114 01 32E  
22 14 09S 113 58 01E,

then along THE ROAD 4 to 22 08 43S 113 59 45E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YMMM/MELBOURNE CONTROL ZONE (C)**

**LATERAL LIMITS:** 37 32 25S 144 49 43E, 37 33 00S 144 56 12E

37 41 30S 145 04 42E, 37 44 00S 145 04 42E

37 49 24S 144 59 18E, 37 49 06S 144 58 12E

37 48 22S 144 49 31E,

then along the minor arc of a circle of 8.00NM radius centred on

37 40 24S 144 50 36E (YMMML/AD) to 37 32 25S 144 49 43E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/NOWRA CONTROL ZONE (C)**

**LATERAL LIMITS:** 34 50 19S 150 24 40E, 34 51 58S 150 29 55E

then along THE S SHORE OF SHOALHAVEN RVR to 34 51 22S 150  
38 45E

34 52 23S 150 41 24E,

then along the major arc of a circle of 9.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 50 19S 150 24 40E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - Navy

**YBBB/OAKEY CONTROL ZONE (C)**

**LATERAL LIMITS:** A circle of 7.00NM radius centred on

27 23 59S 151 44 17E (OK/DME)

**VERTICAL LIMITS:** SFC - 6500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - Army

**YMMM/PERTH CONTROL ZONE (C)**

**LATERAL LIMITS:** 32 03 03S 115 51 36E, 32 00 41S 115 47 21E

31 58 20S 115 47 37E, 31 54 58S 115 48 55E

31 51 19S 115 49 23E,

then along WANNEROO RD to 31 48 23S 115 49 06E

then along the minor arc of a circle of 11.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 47 22S 115 50 43E

then along the minor arc of a circle of 11.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 05 41S 116 05 05E

32 04 56S 116 00 05E, 32 04 42S 115 56 08E

then along the minor arc of a circle of 3.00NM radius centred on

32 05 51S 115 52 52E (YPJT/AD) to 32 03 03S 115 51 36E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/RICHMOND CONTROL ZONE (C)**

**LATERAL LIMITS:** 33 42 57S 150 38 44E, 33 42 11S 150 36 41E

then along the major arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 31 39S 150 59 47E

then along the minor arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 41 05S 150 59 53E

33 45 05S 150 54 00E, 33 42 57S 150 38 44E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/SCHERGER CONTROL ZONE (C)**

**LATERAL LIMITS:** A circle of 15.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD)

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YMMM/SYDNEY CONTROL ZONE (C)**

**LATERAL LIMITS:** 33 54 17S 151 02 37E, 33 51 25S 151 04 14E

then along the minor arc of a circle of 0.40NM radius centred on

33 51 03S 151 04 25E to 33 51 04S 151 04 54E

33 50 28S 151 04 56E,

then along HOMEBUSH BAY 4 to 33 49 26S 151 05 17E

then along S BANK PARRAMATTA RVR 8 to 33 49 37S 151 05 37E

then along S BANK PARRAMATTA RVR 2 to 33 50 10S 151 06 14E

then along STH BANK PARRAMATTA RVR 8 to 33 50 36S 151 07 11E

33 50 44S 151 07 48E,

then along S BANK PARRAMATTA RVR 3 to 33 50 52S 151 08 29E

33 50 43S 151 08 38E,

then along S BANK PARRAMATTA RVR 4 to 33 50 51S 151 09 19E

33 50 57S 151 09 53E, 33 50 50S 151 10 20E

33 50 58S 151 10 50E,

then along S BANK PARRAMATTA RVR 5 to 33 51 33S 151 11 45E

then along S BANK PARRAMATTA RVR 6 to 33 52 27S 151 11 59E

then along THE S BANK PARRAMATTA RVR to 33 51 20S 151 12 28E

then along SOUTHERN SHORE HARBOUR 1 to 33 51 33S 151 13

46E

then along SOUTHERN SHORE HARBOUR 2 to 33 51 56S 151 15

13E

then along SOUTHERN SHORE HARBOUR 3 to 33 52 22S 151 15

26E

then along SOUTHERN SHORE HARBOUR 4 to 33 51 09S 151 16

15E

then along SOUTHERN SHORE HARBOUR 5 to 33 50 06S 151 16

52E

then along THE COAST 61 to 33 51 34S 151 17 05E

then along THE COAST 7 to 33 53 05S 151 17 03E

33 53 34S 151 17 06E, 33 58 07S 151 15 57E

34 00 10S 151 14 54E, 34 01 10S 151 13 46E

then along THE COAST 8 to 34 02 16S 151 11 32E

then along THE COAST 9 to 34 04 19S 151 09 20E

34 04 37S 151 10 02E,

then along THE COAST 97 to 34 05 04S 151 10 11E

34 03 50S 150 59 42E, 34 01 05S 150 58 37E

33 57 53S 150 57 19E, 33 57 20S 151 00 09E

then along the minor arc of a circle of 2.00NM radius centred on

33 55 28S 150 59 18E (YSBK/AD) to 33 56 21S 151 01 28E

33 54 17S 151 02 37E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TINDAL A CONTROL ZONE (C)**

**LATERAL LIMITS:** 14 01 09S 132 21 45E, 14 21 14S 132 22 05E

then along the minor arc of a circle of 10.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 25 06S 132 30 49E

14 13 17S 132 47 29E,

then along the major arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 01 09S 132 21 45E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/TINDAL B CONTROL ZONE (C)**

**LATERAL LIMITS:** A circle of 30.00NM radius centred on 14 31 16S 132 22 40E (YPTN/AD)

**VERTICAL LIMITS:** 2500 - 10000

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/TOWNSVILLE CONTROL ZONE (C)**

**LATERAL LIMITS:** 19 07 11S 146 32 29E,  
then along the minor arc of a circle of 15.00NM radius centred on 19 15 09S 146 45 55E (YBTL/AD) to 19 10 48S 147 01 06E  
19 18 12S 146 55 28E, 19 22 36S 146 55 12E  
19 26 15S 146 48 01E, 19 26 20S 146 47 23E  
19 25 08S 146 44 43E, 19 24 41S 146 44 14E  
19 24 27S 146 38 08E, 19 16 08S 146 33 07E  
19 10 12S 146 37 30E, 19 07 11S 146 32 29E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/WILLIAMTOWN CONTROL ZONE (C)**

**LATERAL LIMITS:** 32 47 22S 151 37 30E, 32 37 18S 151 43 06E  
then along the major arc of a circle of 12.00NM radius centred on 32 47 49S 151 50 00E (WLM/TAC) to 32 59 22S 151 45 59E  
32 55 24S 151 47 23E,

then along SOUTHBANK/ARM HUNTER RVR 1 to 32 49 14S 151 40 52E

then along NEW ENGLAND HWY 2 to 32 47 22S 151 37 30E

NOTES: CTR may be subject to short notice recall.

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YMMM/WOOMERA CONTROL ZONE (C)**

**LATERAL LIMITS:** 31 08 44S 136 37 22E, 30 51 20S 136 37 17E  
then along the minor arc of a circle of 20.00NM radius centred on 31 08 39S 136 49 01E (YPWR/AD) to 30 51 15S 137 00 35E  
31 09 50S 137 00 35E,

then along the minor arc of a circle of 10.00NM radius centred on 31 08 39S 136 49 01E (YPWR/AD) to 31 08 44S 136 37 22E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**NOTES**

## SECTION 3 - CONTROL ZONES D

### YMMM/ALBURY CONTROL ZONE (D)

**LATERAL LIMITS:** 35 56 53S 147 01 52E, 36 01 24S 146 49 30E

then along the minor arc of a circle of 7.00NM radius centred on 36 04 04S 146 57 29E (YMAY/AD) to 36 10 38S 146 54 28E 36 06 02S 147 07 03E,

then along the minor arc of a circle of 8.00NM radius centred on 36 04 04S 146 57 29E (YMAY/AD) to 35 56 53S 147 01 52E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/CAMDEN CONTROL ZONE (D)

**LATERAL LIMITS:** A circle of 2.00NM radius centred on 34 02 25S 150 41 14E (YSCN/AD)

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALICE SPRINGS CONTROL ZONE (D)

**LATERAL LIMITS:** 23 38 46S 133 51 05E, 23 46 06S 134 04 44E

then along the minor arc of a circle of 10.10NM radius centred on 23 48 30S 133 54 03E (YBAS/AD) to 23 58 08S 133 56 50E 23 51 01S 133 43 36E,

then along the minor arc of a circle of 9.90NM radius centred on 23 48 30S 133 54 03E (YBAS/AD) to 23 38 46S 133 51 05E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/COFFS HARBOUR CONTROL ZONE (D)

**LATERAL LIMITS:** 30 20 20S 152 58 59E, then along the major arc of a circle of 7.00NM radius centred on 30 19 14S 153 06 59E (YCFS/AD) to 30 13 05S 153 03 06E 30 20 20S 152 58 59E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ARCHERFIELD CONTROL ZONE (D)

**LATERAL LIMITS:** 27 32 48S 152 57 31E, 27 30 11S 152 59 09E

27 33 43S 153 04 46E, 27 35 48S 153 03 22E

then along the minor arc of a circle of 3.00NM radius centred on 27 34 13S 153 00 29E (YBAF/AD) to 27 32 48S 152 57 31E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** ERSA

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/HAMILTON IS CONTROL ZONE (D)

**LATERAL LIMITS:** 20 19 34S 148 51 10E, 20 19 17S 148 50 09E

then along the minor arc of a circle of 7.00NM radius centred on 20 21 04S 148 57 21E (HM/DME) to 20 14 03S 148 57 25E 20 15 03S 148 57 24E,

then along the minor arc of a circle of 6.00NM radius centred on 20 21 04S 148 57 21E (HM/DME) to 20 24 08S 149 02 51E 20 25 37S 149 05 38E,

then along the minor arc of a circle of 9.00NM radius centred on 20 21 04S 148 57 21E (HM/DME) to 20 30 04S 148 56 25E 20 27 04S 148 56 43E,

then along the minor arc of a circle of 6.00NM radius centred on 20 21 04S 148 57 21E (HM/DME) to 20 19 34S 148 51 10E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AVALON CONTROL ZONE (D)

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 37 54 54S 144 24 29E

then along the minor arc of a circle of 8.00NM radius centred on 38 02 22S 144 28 10E (YMAV/AD) to 37 59 14S 144 37 29E 38 07 22S 144 36 05E,

then along the minor arc of a circle of 8.00NM radius centred on 38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/HOBART CONTROL ZONE (D)

**LATERAL LIMITS:** 42 51 58S 147 21 33E, 42 49 49S 147 19 45E

then along the minor arc of a circle of 8.00NM radius centred on 42 50 10S 147 30 37E (YMHB/AD) to 42 42 23S 147 33 06E 42 48 51S 147 42 43E,

then along the minor arc of a circle of 9.00NM radius centred on 42 50 10S 147 30 37E (YMHB/AD) to 42 58 51S 147 33 52E 42 57 18S 147 31 40E, 42 51 58S 147 21 33E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/BANKSTOWN CONTROL ZONE (D)

**LATERAL LIMITS:** 33 57 53S 150 57 19E, 33 53 49S 150 56 17E

then along the minor arc of a circle of 3.00NM radius centred on 33 55 28S 150 59 18E (YSBK/AD) to 33 54 17S 151 02 37E 33 56 21S 151 01 28E,

then along the minor arc of a circle of 2.00NM radius centred on 33 55 28S 150 59 18E (YSBK/AD) to 33 57 20S 151 00 09E 33 57 53S 150 57 19E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** ERSA

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/JANDAKOT CONTROL ZONE (D)

**LATERAL LIMITS:** A circle of 3.00NM radius centred on

32 05 51S 115 52 52E (YPJT/AD)

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** ERSA

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CONTROL ZONE (D)

**LATERAL LIMITS:** A circle of 9.00NM radius centred on

17 56 49S 122 14 05E (BRM/DME)

**VERTICAL LIMITS:** SFC - 2600

**YMMM/KARRATHA CONTROL ZONE (D)**

**LATERAL LIMITS:** A circle of 9.00NM radius centred on 20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

34 47 47S 138 37 52E (PF/NDB) to 34 48 19S 138 41 27E  
34 50 54S 138 36 57E, 34 50 57S 138 35 55E  
34 48 38S 138 32 18E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** ERSA

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/LAUNCESTON CONTROL ZONE (D)**

**LATERAL LIMITS:** A circle of 8.00NM radius centred on 41 32 38S 147 12 47E (LT/DME)

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/ROCKHAMPTON CONTROL ZONE (D)**

**LATERAL LIMITS:** A circle of 6.00NM radius centred on 23 22 58S 150 28 18E (RK/DME)

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/MACKAY CONTROL ZONE (D)**

**LATERAL LIMITS:** A circle of 6.00NM radius centred on 21 10 23S 149 11 15E (MK/DME)

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/SUNSHINE COAST CONTROL ZONE (D)**

**LATERAL LIMITS:** 26 43 33S 153 02 51E, 26 41 58S 153 02 20E then along 1NM EAST OF BRUCE HWY to 26 31 47S 152 57 44E then along the major arc of a circle of 8.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 43 33S 153 02 51E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MOORABBIN CONTROL ZONE (D)**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on 37 58 33S 145 06 08E (YMMB/AD)

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** ERSA

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TAMWORTH CONTROL ZONE (D)**

**LATERAL LIMITS:** 31 12 52S 150 48 00E, 31 14 51S 150 47 36E then along the minor arc of a circle of 11.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 05 53S 151 02 25E 30 54 59S 150 49 06E, then along the minor arc of a circle of 9.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 12 52S 150 48 00E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PARAFIELD CONTROL ZONE (D)**

**LATERAL LIMITS:** 34 48 38S 138 32 18E, 34 46 29S 138 34 13E 34 46 20S 138 35 36E, then along LITTLE PARA RVR to 34 45 48S 138 37 07E 34 44 51S 138 38 37E, then along the minor arc of a circle of 3.00NM radius centred on

## SECTION 4 CONTROLLED AIRSPACE A

### YMMM/ADELAIDE CTA A

**LATERAL LIMITS:** 35 30 01S 136 49 20E, 35 15 26S 137 34 54E

then along the minor arc of a circle of 50.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 45 40S 138 18 03E 36 24 22S 138 05 12E,

then along the major arc of a circle of 90.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 30 01S 136 49 20E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE FIR CTA A1

**LATERAL LIMITS:** 22 47 31S 147 32 14E, 20 43 43S 147 01 35E

then along the minor arc of a circle of 90.00NM radius centred on 19 14 39S 146 45 30E (TL/DME) to 18 20 13S 145 29 46E

then along the major arc of a circle of 90.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 17 45 21S 146 59 48E

then along the minor arc of a circle of 90.00NM radius centred on 19 14 39S 146 45 30E (TL/DME) to 19 24 06S 148 20 08E 19 44 56S 148 57 43E, 20 38 57S 149 30 41E

25 52 15S 153 19 26E,

then along the minor arc of a circle of 90.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 27 13 12S 154 48 54E

then along the minor arc of a circle of 90.00NM radius centred on 28 10 08S 153 30 14E (CG/DME) to 29 39 25S 153 45 06E 30 40 20S 153 31 46E, 32 52 40S 152 26 42E

then along the minor arc of a circle of 90.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 34 59 00S 152 29 22E 34 28 18S 151 49 23E,

then along the major arc of a circle of 45.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E 32 37 32S 149 29 53E, 32 33 39S 149 35 37E

32 04 00S 150 45 26E, 31 39 33S 150 42 42E

31 18 48S 150 46 50E,

then along the minor arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 30 48 57S 150 49 46E 30 25 04S 150 52 26E, 29 19 33S 151 28 53E

28 58 42S 151 47 37E,

then along the minor arc of a circle of 120.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E

23 36 36S 148 43 03E, 23 14 43S 148 51 18E

23 20 00S 148 00 00E, 22 47 31S 147 32 14E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE FIR CTA A2

**LATERAL LIMITS:** 12 00 00S 114 30 00E, 12 00 00S 123 20 00E

09 20 00S 126 50 00E, 07 00 00S 135 00 00E

09 50 00S 139 40 00E, 09 50 00S 141 00 00E

09 37 00S 141 01 06E, 09 15 42S 142 03 30E

then along QLD/PNG border to 09 19 24S 142 48 18E

09 08 00S 143 52 30E, 09 24 00S 144 14 00E

09 56 34S 144 05 21E,

then along the Barrier Reef to 11 30 00S 144 01 36E

11 43 30S 144 04 20E, 12 00 00S 144 00 00E

12 00 00S 155 00 00E, 14 00 00S 155 00 00E

14 00 00S 161 15 00E, 17 40 00S 163 00 00E

45 00 00S 163 00 00E, 45 00 00S 150 00 00E

44 33 57S 150 00 00E, 43 51 03S 150 39 53E

43 00 00S 151 00 00E, 38 11 19S 150 19 14E

36 56 43S 150 45 03E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 18 59S 152 55 50E

34 28 18S 151 49 23E,

then along the major arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E

32 05 40S 148 49 51E, 29 00 00S 146 32 00E

29 00 00S 143 30 00E, 26 13 31S 138 23 24E

22 17 51S 136 38 07E, 21 51 32S 136 22 25E

21 29 59S 136 19 44E, 21 12 09S 131 50 24E

23 13 13S 128 27 49E, 23 23 49S 126 03 32E

21 31 19S 124 33 04E, 20 03 18S 121 40 22E

19 00 00S 120 15 00E, 14 08 13S 115 08 32E

12 00 00S 114 30 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/DARWIN CTA A1

**LATERAL LIMITS:** A circle of 90.00NM radius centred on

12 25 24S 130 54 23E (DN/DME)

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/MELBOURNE FIR CTA A1

**LATERAL LIMITS:** 32 37 32S 149 29 53E, 33 22 22S 148 22 27E

34 17 02S 148 27 30E,

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E

34 58 56S 147 40 34E,

then along the minor arc of a circle of 15.00NM radius centred on

35 09 57S 147 28 08E (WG/DME) to 35 16 44S 147 11 48E

35 27 14S 146 47 07E, 36 19 28S 145 41 54E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 24 34S 143 11 49E

37 54 04S 144 17 22E,

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 08 38S 144 40 49E

38 30 58S 145 07 38E, 39 47 36S 145 07 30E

40 59 50S 145 34 16E, 42 22 31S 146 30 07E

42 40 01S 146 53 37E, 42 46 40S 147 03 30E

42 48 40S 147 18 48E, 42 51 58S 147 21 33E

42 57 18S 147 31 40E, 43 18 49S 148 02 31E

then along the minor arc of a circle of 36.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 43 01S 148 19 20E

42 47 26S 147 52 51E,

then along the minor arc of a circle of 16.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 36 38S 147 41 38E

42 06 26S 148 02 44E, 41 14 33S 148 38 07E

38 44 00S 146 27 40E,

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 38 36 40S 146 18 48E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 01 50S 146 33 00E

36 14 52S 147 56 10E, 35 45 49S 149 01 48E

35 40 41S 149 11 40E, 35 33 27S 149 25 31E

35 25 48S 149 38 33E, 35 44 49S 150 37 09E

35 19 57S 150 34 29E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E

34 43 56S 151 00 00E, 34 41 07S 151 02 28E

then along the major arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E

32 37 32S 149 29 53E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE FIR CTA A2****LATERAL LIMITS:** 06 00 00S 075 00 00E, 02 00 00S 078 00 00E

02 00 00S 092 00 00E, 12 00 00S 107 00 00E

12 00 00S 114 30 00E, 14 08 13S 115 08 32E

19 00 00S 120 15 00E, 20 03 18S 121 40 22E

21 31 19S 124 33 04E, 23 23 49S 126 03 32E

23 13 13S 128 27 49E, 21 12 09S 131 50 24E

21 29 59S 136 19 44E, 21 51 32S 136 22 25E

22 17 51S 136 38 07E, 26 13 31S 138 23 24E

29 00 00S 143 30 00E, 29 00 00S 146 32 00E

32 05 40S 148 49 51E, 33 25 34S 150 31 41E

then along the major arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E

35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E

38 11 19S 150 19 14E, 43 00 00S 151 00 00E

43 51 03S 150 39 53E, 44 33 57S 150 00 00E

45 00 00S 150 00 00E, 45 00 00S 163 00 00E

80 00 00S 163 00 00E, 80 00 00S 075 00 00E

06 00 00S 075 00 00E

**VERTICAL LIMITS:** FL245 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/PERTH CTA A****LATERAL LIMITS:** 33 03 37S 114 46 13E, 32 45 14S 115 06 24E

32 34 11S 115 18 26E, 32 23 51S 115 29 38E

32 13 29S 115 40 47E, 32 13 49S 115 56 52E

32 13 35S 116 05 03E, 32 15 56S 116 10 15E

32 24 16S 116 24 56E, 32 32 16S 116 39 06E

32 40 42S 116 54 07E, 32 54 36S 117 19 06E

then along the major arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 33 03 37S 114 46 13E

**VERTICAL LIMITS:** FL180 - FL245**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia



## SECTION 5 - CONTROLLED AIRSPACE C

### YMMM/ADELAIDE CTA C1

**LATERAL LIMITS:** 34 47 27S 138 24 26E, 34 44 30S 138 31 50E

then along the minor arc of a circle of 5.00NM radius centred on 34 42 09S 138 37 15E (YPED/AD) to 34 46 29S 138 34 13E

34 46 20S 138 35 36E,

then along LITTLE PARA RVR to 34 45 48S 138 37 07E

34 44 51S 138 38 37E,

then along the minor arc of a circle of 3.00NM radius centred on

34 47 47S 138 37 52E (PF/NDB) to 34 48 19S 138 41 27E

34 48 47S 138 40 38E,

then along the major arc of a circle of 11.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 47 27S 138 24 26E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ADELAIDE CTA C2

**LATERAL LIMITS:** A circle of 20.00NM radius centred on

34 56 49S 138 31 28E (AD/DME)

**VERTICAL LIMITS:** 2500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ADELAIDE CTA C3

**LATERAL LIMITS:** A circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME)

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ADELAIDE CTA C4

**LATERAL LIMITS:** A circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME)

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ADELAIDE CTA C5

**LATERAL LIMITS:** 35 20 56S 137 17 51E, 35 15 26S 137 34 54E

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 45 40S 138 18 03E

36 00 11S 138 13 15E,

then along the major arc of a circle of 65.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 20 56S 137 17 51E

**VERTICAL LIMITS:** FL125 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALBURY CTA C1

**LATERAL LIMITS:** 35 48 11S 147 00 28E, 35 34 47S 147 06 06E

then along the minor arc of a circle of 30.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 55 46S 147 33 30E

36 00 42S 147 17 15E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 20 06S 146 58 50E

36 29 03S 146 55 31E,

then along the minor arc of a circle of 25.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 15 20S 146 30 24E

36 09 40S 146 39 28E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 48 11S 147 00 28E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALBURY CTA C2

**LATERAL LIMITS:** 36 18 27S 146 25 25E, 36 15 20S 146 30 24E

then along the minor arc of a circle of 25.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 29 03S 146 55 31E

36 33 56S 146 53 42E,

then along the minor arc of a circle of 30.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 18 27S 146 25 25E

**VERTICAL LIMITS:** 5500 - 8500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALBURY CTA C3

**LATERAL LIMITS:** 35 48 11S 147 00 28E, 35 20 30S 147 12 04E

then along the minor arc of a circle of 45.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 50 27S 147 50 48E

36 00 42S 147 17 15E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 20 06S 146 58 50E

36 48 28S 146 48 17E,

then along the minor arc of a circle of 45.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 27 40S 146 10 33E

36 09 40S 146 39 28E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 48 11S 147 00 28E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALICE SPRINGS CTA C1

**LATERAL LIMITS:** A circle of 22.00NM radius centred on

23 47 34S 133 52 42E (AS/DME)

**VERTICAL LIMITS:** 4500 - 6500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALICE SPRINGS CTA C2

**LATERAL LIMITS:** 24 25 51S 134 01 29E, 24 22 54S 134 00 48E

then along the major arc of a circle of 36.00NM radius centred on

23 47 34S 133 52 42E (AS/DME) to 23 51 21S 134 31 44E

23 51 39S 134 35 00E,

then along the minor arc of a circle of 39.00NM radius centred on

23 47 34S 133 52 42E (AS/DME) to 24 25 51S 134 01 29E

**VERTICAL LIMITS:** 6500 - FL115

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALICE SPRINGS CTA C3

**LATERAL LIMITS:** 24 36 39S 134 03 59E, 24 31 44S 134 02 50E

then along the major arc of a circle of 45.00NM radius centred on

23 47 34S 133 52 42E (AS/DME) to 23 52 16S 134 41 30E

23 52 46S 134 46 56E,

then along the minor arc of a circle of 50.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 24 36 39S 134 03 59E

**VERTICAL LIMITS:** FL115 - FL145

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/ALICE SPRINGS CTA C4

**LATERAL LIMITS:** A circle of 60.00NM radius centred on 23 47 34S 133 52 42E (AS/DME)

**VERTICAL LIMITS:** FL145 - FL180

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/ALICE SPRINGS CTA C5

**LATERAL LIMITS:** A circle of 80.00NM radius centred on 23 47 34S 133 52 42E (AS/DME)

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C01

**LATERAL LIMITS:** 27 13 16S 153 09 03E, 27 11 11S 153 09 17E

then along the minor arc of a circle of 12.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 32 57S 153 14 44E

27 33 43S 153 04 46E, 27 30 11S 152 59 09E

27 28 33S 153 00 57E,

then along the minor arc of a circle of 7.00NM radius centred on

27 24 10S 153 07 06E to 27 20 58S 153 00 06E

27 17 00S 152 59 49E, 27 13 54S 153 04 35E

27 13 16S 153 09 03E

**VERTICAL LIMITS:** 1000 - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C02

**LATERAL LIMITS:** 27 23 45S 152 55 51E, 27 16 59S 152 55 25E

then along the major arc of a circle of 12.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 32 56S 153 14 50E

27 33 43S 153 04 46E, 27 35 48S 153 03 22E

then along the minor arc of a circle of 3.00NM radius centred on

27 34 13S 153 00 29E (YBAF/AD) to 27 32 48S 152 57 31E

27 30 11S 152 59 09E,

then along the minor arc of a circle of 10.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 23 45S 152 55 51E

**VERTICAL LIMITS:** 1500 - 2000

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C03

**LATERAL LIMITS:** 27 23 45S 152 55 51E, 27 16 59S 152 55 25E

then along the minor arc of a circle of 12.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 11 08S 153 09 17E

27 08 11S 153 09 37E,

then along the major arc of a circle of 15.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 37 09S 153 01 13E

then along the minor arc of a circle of 3.00NM radius centred on

27 34 13S 153 00 29E (YBAF/AD) to 27 32 48S 152 57 31E

27 30 11S 152 59 09E,

then along the minor arc of a circle of 10.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 23 45S 152 55 51E

**VERTICAL LIMITS:** 2000 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C04

**LATERAL LIMITS:** 27 35 21S 152 57 21E,

then along the minor arc of a circle of 3.00NM radius centred on

27 34 13S 153 00 29E (YBAF/AD) to 27 37 09S 153 01 13E

then along the major arc of a circle of 15.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 35 21S 152 57 21E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C05

**LATERAL LIMITS:** 27 42 34S 152 52 59E, 27 13 25S 152 41 03E

27 04 55S 152 52 41E,

then along the minor arc of a circle of 22.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 13 42S 153 31 15E

28 01 49S 153 53 16E,

then along the minor arc of a circle of 22.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 32 02S 153 33 10E

then along COAST 500 to 28 24 50S 153 33 48E

then along the minor arc of a circle of 15.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 19 45S 153 17 10E

28 04 00S 153 21 17E, 27 57 09S 153 17 23E

27 43 42S 153 04 10E, 27 42 34S 152 52 59E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C06

**LATERAL LIMITS:** 27 57 09S 153 17 23E, 27 51 51S 153 12 10E

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 32 38S 153 39 53E

27 42 53S 153 44 34E,

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 39 31S 153 37 30E

then along COAST 90 to 28 35 13S 153 33 56E

then along COAST 91 to 28 32 02S 153 33 10E

then along the minor arc of a circle of 22.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 27 40S 153 15 06E

28 04 00S 153 21 17E, 27 57 09S 153 17 23E

**VERTICAL LIMITS:** 4500 - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C07

**LATERAL LIMITS:** 27 52 15S 153 12 33E, 27 51 51S 153 12 10E

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 32 38S 153 39 53E

27 42 53S 153 44 34E,

then along the major arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 28 27S 153 03 16E

27 52 15S 153 12 33E

**VERTICAL LIMITS:** 6500 - 7500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CTA C08

**LATERAL LIMITS:** 28 02 02S 153 10 03E, 28 28 27S 153 03 16E

then along the major arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 43 37S 153 46 14E

then along the major arc of a circle of 40.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 02 02S 153 10 03E

**VERTICAL LIMITS:** 7500 - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CTA C09**

**LATERAL LIMITS:** 27 29 52S 154 03 51E,  
then along the major arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 02 00S 152 34 27E  
then along the major arc of a circle of 50.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 27 29 52S 154 03 51E  
**VERTICAL LIMITS:** 8500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CTA C10**

**LATERAL LIMITS:** 28 08 12S 152 16 44E,  
then along the major arc of a circle of 65.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 23 26S 154 21 21E  
then along the minor arc of a circle of 65.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 29 14 33S 153 41 27E  
29 38 12S 153 28 55E, 29 51 50S 153 21 39E  
29 59 06S 153 17 45E, 30 03 38S 153 15 19E  
30 08 11S 153 12 53E,  
then along the minor arc of a circle of 12.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E  
30 36 12S 153 06 31E, 30 41 13S 153 06 24E  
30 55 14S 153 06 05E, 31 04 15S 153 05 53E  
31 14 17S 153 05 39E,  
then along the minor arc of a circle of 55.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 52 00S 152 16 03E  
30 46 02S 152 25 23E, 30 40 40S 152 33 47E  
30 32 17S 152 46 48E, 30 29 17S 152 51 26E  
30 26 12S 152 56 00E, 30 20 20S 152 58 59E  
30 13 05S 153 03 06E, 30 07 50S 153 02 39E  
30 03 03S 153 00 54E, 29 58 17S 152 59 08E  
29 50 38S 152 56 19E, 29 36 19S 152 51 04E  
28 54 02S 152 35 42E,  
then along the minor arc of a circle of 65.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 08 12S 152 16 44E  
**VERTICAL LIMITS:** FL125 - FL155  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CTA C11**

**LATERAL LIMITS:** 28 08 12S 152 16 44E,  
then along the major arc of a circle of 65.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 23 26S 154 21 21E  
then along the minor arc of a circle of 65.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 29 14 33S 153 41 27E  
29 38 12S 153 28 55E, 29 51 50S 153 21 39E  
29 59 06S 153 17 45E, 30 03 38S 153 15 19E  
30 08 11S 153 12 53E,  
then along the minor arc of a circle of 12.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E  
30 36 12S 153 06 31E, 30 41 13S 153 06 24E  
30 55 14S 153 06 05E, 31 04 15S 153 05 53E  
31 14 17S 153 05 39E, 31 24 18S 153 05 25E  
then along the minor arc of a circle of 65.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 57 56S 152 06 42E  
30 52 00S 152 16 03E, 30 46 02S 152 25 23E  
30 40 40S 152 33 47E, 30 32 17S 152 46 48E  
30 29 17S 152 51 26E, 30 26 12S 152 56 00E  
30 20 20S 152 58 59E, 30 13 05S 153 03 06E  
30 07 50S 153 02 39E, 30 03 03S 153 00 54E  
29 58 17S 152 59 08E, 29 50 38S 152 56 19E  
29 36 19S 152 51 04E, 28 54 02S 152 35 42E  
then along the minor arc of a circle of 65.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 08 12S 152 16 44E

**VERTICAL LIMITS:** FL155 - FL180  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS CTA C1**

**LATERAL LIMITS:** 16 48 41S 145 38 09E, 16 42 52S 145 35 25E  
then along the minor arc of a circle of 12.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 41 24S 145 52 13E  
16 46 03S 145 48 34E,  
then along the minor arc of a circle of 7.00NM radius centred on  
16 51 57S 145 44 37E to 16 48 41S 145 38 09E  
**VERTICAL LIMITS:** 1000 - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS CTA C2**

**LATERAL LIMITS:** 16 48 41S 145 38 09E, 16 42 52S 145 35 25E  
then along the major arc of a circle of 12.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 02 53S 145 46 42E  
17 00 31S 145 46 16E,  
then along the minor arc of a circle of 7.00NM radius centred on  
16 53 32S 145 45 20E to 17 00 30S 145 44 20E  
16 53 20S 145 39 30E, 16 48 41S 145 38 09E  
**VERTICAL LIMITS:** 1500 - 2500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS CTA C3**

**LATERAL LIMITS:** 16 42 52S 145 35 25E, 16 33 18S 145 30 55E  
then along the minor arc of a circle of 22.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 29 07S 145 41 29E  
16 33 06S 145 42 03E,  
then along the minor arc of a circle of 18.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 08 49S 145 47 45E  
17 00 31S 145 46 16E,  
then along the minor arc of a circle of 7.00NM radius centred on  
16 53 32S 145 45 20E to 17 00 30S 145 44 20E  
16 53 20S 145 39 30E, 16 52 43S 145 39 19E  
16 54 44S 145 32 45E,  
then along the minor arc of a circle of 12.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 42 52S 145 35 25E  
**VERTICAL LIMITS:** 2500 - 3500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS CTA C4**

**LATERAL LIMITS:** 16 37 04S 145 32 42E, 16 33 18S 145 30 55E  
then along the major arc of a circle of 22.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 12 47S 145 48 28E  
17 02 53S 145 46 42E,  
then along the minor arc of a circle of 12.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 54 44S 145 32 45E  
16 56 33S 145 26 47E,  
then along the minor arc of a circle of 18.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 37 04S 145 32 42E  
**VERTICAL LIMITS:** 3500 - 4500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS CTA C5**

**LATERAL LIMITS:** 17 05 46S 145 10 22E,  
then along the major arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 24 19S 145 59 13E

17 11 22S 145 53 32E,  
then along the minor arc of a circle of 22.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 58 37S 145 23 07E  
17 05 46S 145 10 22E

**VERTICAL LIMITS:** 4500 - 5500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/CAIRNS CTA C6

**LATERAL LIMITS:** 17 05 46S 145 10 22E,  
then along the major arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 27 07S 145 43 07E  
17 13 04S 145 43 41E,

then along the minor arc of a circle of 22.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 58 37S 145 23 07E  
17 05 46S 145 10 22E

**VERTICAL LIMITS:** 5500 - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/CAIRNS CTA C7

**LATERAL LIMITS:** 17 05 46S 145 10 22E, 17 12 52S 144 57 41E  
then along the major arc of a circle of 50.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 41 09S 145 42 32E  
17 27 07S 145 43 07E,

then along the minor arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 05 46S 145 10 22E

**VERTICAL LIMITS:** 6500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/CAIRNS CTA C8

**LATERAL LIMITS:** A circle of 50.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME)

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/CAIRNS CTA C9

**LATERAL LIMITS:** A circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME)

**VERTICAL LIMITS:** FL125 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA CTA C1

**LATERAL LIMITS:** 35 06 39S 149 06 49E, 35 01 59S 149 04 35E  
then along the minor arc of a circle of 16.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 03 15S 149 22 00E  
35 08 30S 149 20 27E,

then along the minor arc of a circle of 11.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 27 24S 149 15 48E  
35 29 25S 149 16 06E,

then along the minor arc of a circle of 13.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 29 44S 149 09 07E  
35 27 31S 149 08 12E,

then along the minor arc of a circle of 11.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 06 39S 149 06 49E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA CTA C2

**LATERAL LIMITS:** 35 31 30S 149 03 44E, 35 35 50S 149 03 49E  
then along the minor arc of a circle of 20.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 35 41S 149 20 15E  
35 31 20S 149 20 15E,

then along the major arc of a circle of 16.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 31 30S 149 03 44E

**VERTICAL LIMITS:** 4500 - 5500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA CTA C3

**LATERAL LIMITS:** A circle of 20.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME)

**VERTICAL LIMITS:** 5500 - 6500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA CTA C4

**LATERAL LIMITS:** 35 40 41S 149 11 40E, 35 45 49S 149 01 48E  
then along the major arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 20 06S 149 48 12E  
35 33 27S 149 25 31E, 35 40 41S 149 11 40E

**VERTICAL LIMITS:** 6500 - 8500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA CTA C5

**LATERAL LIMITS:** 35 51 58S 148 48 04E,  
then along the major arc of a circle of 40.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 12 37S 150 00 19E  
35 20 06S 149 48 12E, 35 33 27S 149 25 31E  
35 45 49S 149 01 48E, 35 51 58S 148 48 04E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/COFFS HARBOUR CTA C1

**LATERAL LIMITS:** 29 58 17S 152 59 08E,  
then along the minor arc of a circle of 22.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 29 59 06S 153 17 45E  
30 03 38S 153 15 19E, 30 08 11S 153 12 53E

then along the minor arc of a circle of 12.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E  
30 36 12S 153 06 31E, 30 41 13S 153 06 24E  
30 55 14S 153 06 05E,

then along the minor arc of a circle of 36.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 40 40S 152 33 47E  
30 32 17S 152 46 48E, 30 29 17S 152 51 26E  
30 26 12S 152 56 00E, 30 20 20S 152 58 59E  
30 13 05S 153 03 06E, 30 07 50S 153 02 39E  
30 03 03S 153 00 54E, 29 58 17S 152 59 08E

**VERTICAL LIMITS:** 4500 - 5500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/COFFS HARBOUR CTA C2

**LATERAL LIMITS:** 29 50 38S 152 56 19E,  
then along the minor arc of a circle of 30.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 29 51 50S 153 21 39E  
29 59 06S 153 17 45E, 30 03 38S 153 15 19E

30 08 11S 153 12 53E,  
 then along the minor arc of a circle of 12.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E  
 30 36 12S 153 06 31E, 30 41 13S 153 06 24E  
 30 55 14S 153 06 05E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 40 40S 152 33 47E  
 30 32 17S 152 46 48E, 30 29 17S 152 51 26E  
 30 26 12S 152 56 00E, 30 20 20S 152 58 59E  
 30 13 05S 153 03 06E, 30 07 50S 153 02 39E  
 30 03 03S 153 00 54E, 29 58 17S 152 59 08E  
 29 50 38S 152 56 19E  
**VERTICAL LIMITS:** 5500 - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/COFFS HARBOUR CTA C3**

**LATERAL LIMITS:** 29 36 19S 152 51 04E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 29 38 12S 153 28 55E  
 29 51 50S 153 21 39E, 29 59 06S 153 17 45E  
 30 03 38S 153 15 19E, 30 08 11S 153 12 53E  
 then along the minor arc of a circle of 12.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E  
 30 36 12S 153 06 31E, 30 41 13S 153 06 24E  
 30 55 14S 153 06 05E, 31 04 15S 153 05 53E  
 then along the minor arc of a circle of 45.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 46 02S 152 25 23E  
 30 40 40S 152 33 47E, 30 32 17S 152 46 48E  
 30 29 17S 152 51 26E, 30 26 12S 152 56 00E  
 30 20 20S 152 58 59E, 30 13 05S 153 03 06E  
 30 07 50S 153 02 39E, 30 03 03S 153 00 54E  
 29 58 17S 152 59 08E, 29 50 38S 152 56 19E  
 29 36 19S 152 51 04E  
**VERTICAL LIMITS:** 8500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/DARWIN CTA C1**

**LATERAL LIMITS:** 12 24 58S 130 58 05E, 12 19 36S 130 58 03E  
 then along the minor arc of a circle of 7.00NM radius centred on  
 12 25 09S 130 53 40E to 12 31 30S 130 56 45E  
 12 24 58S 130 58 05E  
**VERTICAL LIMITS:** 500 - 1000  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/DARWIN CTA C2**

**LATERAL LIMITS:** 12 28 38S 130 46 05E, 12 29 46S 130 38 06E  
 then along the major arc of a circle of 15.00NM radius centred on  
 12 24 53S 130 52 36E (YPDN/AD) to 12 30 00S 131 07 02E  
 12 38 12S 130 52 38E, 12 36 04S 130 46 18E  
 then along THE PORT DARWIN COT/1 to 12 29 10S 130 46 31E  
 then along the minor arc of a circle of 7.00NM radius centred on  
 12 24 34S 130 51 55E to 12 28 38S 130 46 05E  
**VERTICAL LIMITS:** 1000 - 2500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/DARWIN CTA C3**

**LATERAL LIMITS:** 11 59 08S 130 39 21E, 12 03 30S 130 41 51E  
 then along the minor arc of a circle of 25.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 12 00 33S 130 50 39E  
 11 55 35S 130 49 55E,  
 then along the major arc of a circle of 30.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 11 59 08S 130 39 21E

**VERTICAL LIMITS:** 2500 - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/DARWIN CTA C4**

**LATERAL LIMITS:** A circle of 40.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME)  
**VERTICAL LIMITS:** 6500 - 9500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

**YBBB/DARWIN CTA C5**

**LATERAL LIMITS:** A circle of 50.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME)  
**NOTES:** **CONTROLLING AUTHORITY:** Within 40NM DN/DME:  
 Dept of Defence RAAF. Between 40NM and  
 50NM DN/DME: Airservices Australia.  
**VERTICAL LIMITS:** 9500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:**

**YBBB/DARWIN CTA C6**

**LATERAL LIMITS:** A circle of 65.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME)  
**NOTES:** **CONTROLLING AUTHORITY:** Within 40NM DN/DME:  
 Dept of Defence RAAF. Between 40NM and  
 65NM DN/DME: Airservices Australia.  
**VERTICAL LIMITS:** FL125 - FL180  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:**

**YBBB/GOLD COAST CTA C1**

**LATERAL LIMITS:** 27 59 13S 153 18 34E, 28 04 00S 153 21 17E  
 28 07 09S 153 23 04E, 28 16 39S 153 27 50E  
 then along THE TWEED RIVER to 28 19 18S 153 25 38E  
 then along the minor arc of a circle of 10.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 19 32S 153 34 12E  
 then along COAST 76 to 28 24 50S 153 33 48E  
 then along the major arc of a circle of 15.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 27 59 13S 153 18 34E  
**VERTICAL LIMITS:** 1500 - 2500  
**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST CTA C2**

**LATERAL LIMITS:** 28 04 00S 153 21 17E, 27 59 13S 153 18 34E  
 then along the major arc of a circle of 15.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 19 45S 153 17 10E  
 28 04 00S 153 21 17E  
**VERTICAL LIMITS:** 2500 - 3500  
**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/HOBART CTA C1**

**LATERAL LIMITS:** 42 40 01S 146 53 37E, 42 36 12S 146 48 28E  
 then along the minor arc of a circle of 35.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 19 46S 147 53 28E  
 42 36 38S 147 41 38E,  
 then along the minor arc of a circle of 16.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E  
 42 43 01S 148 19 20E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 43 18 49S 148 02 31E  
 42 57 18S 147 31 40E, 42 51 58S 147 21 33E  
 42 48 40S 147 18 48E, 42 46 40S 147 03 30E  
 42 40 01S 146 53 37E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HOBART CTA C2

**LATERAL LIMITS:** 42 25 05S 146 33 32E, 42 40 01S 146 53 37E  
 42 46 40S 147 03 30E, 42 48 40S 147 18 48E  
 42 51 58S 147 21 33E, 42 57 18S 147 31 40E  
 43 18 49S 148 02 31E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 43 01S 148 19 20E  
 42 47 26S 147 52 51E,  
 then along the minor arc of a circle of 16.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 36 38S 147 41 38E  
 42 06 26S 148 02 44E,  
 then along the minor arc of a circle of 50.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 02 46S 147 50 19E  
 41 52 26S 147 42 53E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 42 01 16S 147 00 46E  
 42 06 47S 146 59 36E,  
 then along the minor arc of a circle of 50.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 25 05S 146 33 32E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LAUNCESTON CTA C1

**LATERAL LIMITS:** 41 19 59S 146 36 36E, 41 31 39S 147 00 31E  
 41 41 54S 147 04 52E, 42 01 16S 147 00 46E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 52 26S 147 42 53E  
 41 17 05S 147 17 47E, 41 02 37S 147 12 54E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 19 59S 146 36 36E

**VERTICAL LIMITS:** 4500 - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LAUNCESTON CTA C2

**LATERAL LIMITS:** 41 41 54S 147 04 52E, 42 01 16S 147 00 46E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 52 26S 147 42 53E  
 41 27 27S 147 25 05E, 41 17 40S 147 47 21E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 02 37S 147 12 54E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 19 59S 146 36 36E  
 41 31 39S 147 00 31E, 41 41 54S 147 04 52E

**VERTICAL LIMITS:** 6500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LAUNCESTON CTA C3

**LATERAL LIMITS:** 41 11 44S 146 19 51E, 41 31 39S 147 00 31E  
 41 41 54S 147 04 52E, 42 01 16S 147 00 46E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 52 26S 147 42 53E

41 27 27S 147 25 05E, 41 17 40S 147 47 21E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 06 21S 147 32 00E  
 40 53 11S 147 41 31E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 11 44S 146 19 51E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CTA C1

**LATERAL LIMITS:** 37 48 21S 144 42 06E, 37 44 20S 144 39 25E  
 then along the minor arc of a circle of 10.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 30 43S 144 56 19E  
 37 33 00S 144 56 12E, 37 34 13S 145 08 09E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 50 53S 145 03 01E  
 37 50 18S 144 59 06E, 37 50 36S 144 51 09E  
 then along the minor arc of a circle of 11.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 48 21S 144 42 06E

**VERTICAL LIMITS:** 1500 - 2000

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CTA C2

**LATERAL LIMITS:** 37 48 21S 144 42 06E, 37 44 20S 144 39 25E  
 then along the minor arc of a circle of 10.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 30 10S 144 46 19E  
 37 28 17S 144 45 29E,  
 then along the minor arc of a circle of 12.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 28 33S 144 56 25E  
 37 33 00S 144 56 12E, 37 34 13S 145 08 09E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 50 53S 145 03 01E  
 37 50 18S 144 59 06E, 37 50 36S 144 51 09E  
 then along the minor arc of a circle of 11.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 48 21S 144 42 06E

**VERTICAL LIMITS:** 2000 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CTA C3

**LATERAL LIMITS:** 37 44 48S 144 26 11E, 37 51 04S 144 25 13E  
 then along the minor arc of a circle of 12.00NM radius centred on  
 38 02 57S 144 27 33E (AV/DME) to 37 55 00S 144 38 57E  
 37 54 24S 144 39 54E, 37 55 42S 144 48 00E  
 37 58 24S 144 48 00E, 37 58 12S 145 02 22E  
 then along the major arc of a circle of 3.00NM radius centred on  
 37 58 33S 145 06 08E (YMMB/AD) to 37 57 39S 145 09 45E  
 37 48 12S 145 19 12E, 37 40 00S 145 19 12E  
 37 35 00S 145 15 54E, 37 34 13S 145 08 09E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 44 43S 144 32 46E  
 37 44 48S 144 26 11E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CTA C4

**LATERAL LIMITS:** 37 44 48S 144 26 11E, 37 51 04S 144 25 13E  
 then along the minor arc of a circle of 12.00NM radius centred on  
 38 02 57S 144 27 33E (AV/DME) to 37 55 00S 144 38 57E  
 37 54 24S 144 39 54E, 37 55 42S 144 48 00E  
 37 58 24S 144 48 00E, 37 58 12S 145 02 22E  
 then along the major arc of a circle of 3.00NM radius centred on

37 58 33S 145 06 08E (YMMB/AD) to 37 57 39S 145 09 45E  
 37 48 12S 145 19 12E, 37 40 00S 145 19 12E  
 37 30 54S 145 13 12E,  
 then along the minor arc of a circle of 20.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 44 48S 144 26 11E  
**VERTICAL LIMITS:** 3500 - 4500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CTA C5**

**LATERAL LIMITS:** A circle of 30.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME)  
**VERTICAL LIMITS:** 4500 - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CTA C6N1**

**LATERAL LIMITS:** 36 59 41S 144 24 23E, 37 12 17S 144 34 54E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 09 36S 144 52 04E  
 36 54 35S 144 52 52E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 59 41S 144 24 23E  
**VERTICAL LIMITS:** 7500 - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CTA C7N**

**LATERAL LIMITS:** 37 54 04S 144 17 22E, 38 01 46S 144 01 04E  
 then along the major arc of a circle of 45.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 38 24 07S 144 59 21E  
 38 08 38S 144 40 49E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 54 04S 144 17 22E  
**VERTICAL LIMITS:** 8500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C1**

**LATERAL LIMITS:** 32 05 15S 115 49 25E,  
 then along the major arc of a circle of 11.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 05 41S 116 05 05E  
 32 04 56S 116 00 05E, 32 04 42S 115 56 08E  
 then along the major arc of a circle of 3.00NM radius centred on  
 32 05 51S 115 52 52E (YPJT/AD) to 32 05 15S 115 49 25E  
**VERTICAL LIMITS:** 1500 - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C2**

**LATERAL LIMITS:** 32 09 48S 115 56 41E, 32 08 51S 115 41 55E  
 then along the major arc of a circle of 18.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 05 54S 116 15 47E  
 32 06 44S 116 09 02E, 32 05 41S 116 05 05E  
 then along the minor arc of a circle of 11.00NM radius centred on  
 31 56 42S 115 57 33E (PH/VOR) to 32 07 40S 115 58 51E  
 32 09 48S 115 56 41E  
**VERTICAL LIMITS:** 2000 - 3500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C3**

**LATERAL LIMITS:** 32 08 51S 115 41 55E, 32 10 10S 115 44 22E  
 32 10 59S 115 55 29E, 32 09 48S 115 56 41E  
 32 08 51S 115 41 55E  
**VERTICAL LIMITS:** 2500 - 3500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C4**

**LATERAL LIMITS:** 32 13 29S 115 40 47E, 32 13 49S 115 56 52E  
 32 13 35S 116 05 03E, 32 15 56S 116 10 15E  
 then along the major arc of a circle of 22.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 13 29S 115 40 47E  
**VERTICAL LIMITS:** 3500 - 4500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C5**

**LATERAL LIMITS:** 32 23 51S 115 29 38E, 32 13 29S 115 40 47E  
 32 13 49S 115 56 52E, 32 13 35S 116 05 03E  
 32 15 56S 116 10 15E, 32 24 16S 116 24 56E  
 then along the major arc of a circle of 36.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 23 51S 115 29 38E  
**VERTICAL LIMITS:** 4500 - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C6**

**LATERAL LIMITS:** 32 34 11S 115 18 26E, 32 23 51S 115 29 38E  
 32 13 29S 115 40 47E, 32 13 49S 115 56 52E  
 32 13 35S 116 05 03E, 32 15 56S 116 10 15E  
 32 24 16S 116 24 56E, 32 32 16S 116 39 06E  
 then along the major arc of a circle of 50.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 34 11S 115 18 26E  
**VERTICAL LIMITS:** 8500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA C7**

**LATERAL LIMITS:** 32 45 14S 115 06 24E, 32 34 11S 115 18 26E  
 32 23 51S 115 29 38E, 32 13 29S 115 40 47E  
 32 13 49S 115 56 52E, 32 13 35S 116 05 03E  
 32 15 56S 116 10 15E, 32 24 16S 116 24 56E  
 32 32 16S 116 39 06E, 32 40 42S 116 54 07E  
 then along the major arc of a circle of 65.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 45 14S 115 06 24E  
**VERTICAL LIMITS:** FL125 - FL180  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/ROCKHAMPTON CTA C1**

**LATERAL LIMITS:** 23 10 55S 149 51 27E, 23 17 41S 150 11 54E  
 then along the minor arc of a circle of 16.00NM radius centred on  
 23 22 58S 150 28 18E (RK/DME) to 23 38 57S 150 26 34E  
 23 58 55S 150 24 27E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 23 22 58S 150 28 18E (RK/DME) to 23 38 35S 151 03 38E  
 23 27 24S 150 38 04E,  
 then along the minor arc of a circle of 10.00NM radius centred on  
 23 22 58S 150 28 18E (RK/DME) to 23 13 04S 150 30 04E  
 22 47 20S 150 34 44E,  
 then along the minor arc of a circle of 36.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 10 55S 149 51 27E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA C2

**LATERAL LIMITS:** 23 07 51S 149 42 16E, 23 17 41S 150 11 54E

then along the minor arc of a circle of 16.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 38 57S 150 26 34E

23 58 55S 150 24 27E, 24 07 54S 150 23 29E

then along the minor arc of a circle of 45.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 42 27S 151 12 29E

23 27 24S 150 38 04E,

then along the minor arc of a circle of 10.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 13 04S 150 30 04E

22 38 26S 150 36 20E,

then along the minor arc of a circle of 45.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 07 51S 149 42 16E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA C3

**LATERAL LIMITS:** 23 04 26S 149 32 04E, 23 17 41S 150 11 54E

then along the minor arc of a circle of 16.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 38 57S 150 26 34E

24 17 53S 150 22 25E,

then along the minor arc of a circle of 55.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 46 43S 151 22 21E

23 27 24S 150 38 04E,

then along the minor arc of a circle of 10.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 13 04S 150 30 04E

22 28 32S 150 38 07E,

then along the minor arc of a circle of 55.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 04 26S 149 32 04E

NOTES: -

**VERTICAL LIMITS:** FL125 - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA C4

**LATERAL LIMITS:** 23 01 00S 149 21 52E, 23 17 41S 150 11 54E

then along the minor arc of a circle of 16.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 38 57S 150 26 34E

24 27 52S 150 21 21E,

then along the minor arc of a circle of 65.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 50 59S 151 32 13E

23 27 24S 150 38 04E,

then along the minor arc of a circle of 10.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 13 04S 150 30 04E

22 18 38S 150 39 54E,

then along the minor arc of a circle of 65.00NM radius centred on

23 22 58S 150 28 18E (RK/DME) to 23 01 00S 149 21 52E

**VERTICAL LIMITS:** FL155 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/SOUTH-EASTERN CTA C1

**LATERAL LIMITS:** 33 50 51S 149 34 59E, 33 47 37S 149 52 55E

33 49 08S 150 05 23E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 06 18S 150 43 56E

32 51 32S 150 39 33E,

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 09 13S 152 12 37E

33 21 40S 152 01 50E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 35 09S 151 58 14E

34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 39 16S 150 53 26E

35 20 06S 149 48 12E, 35 33 27S 149 25 31E

35 40 41S 149 11 40E, 35 45 49S 149 01 48E

36 14 52S 147 56 10E, 37 01 50S 146 33 00E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 39 08 42S 145 07 34E

38 30 58S 145 07 38E, 38 08 38S 144 40 49E

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 54 04S 144 17 22E

38 24 34S 143 11 49E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 19 28S 145 41 54E

35 27 14S 146 47 07E, 35 16 44S 147 11 48E

then along the minor arc of a circle of 15.00NM radius centred on

35 09 57S 147 28 08E (WG/DME) to 34 58 56S 147 40 34E

34 50 04S 147 52 58E,

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E

33 59 41S 149 34 44E,

then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 50 51S 149 34 59E

**VERTICAL LIMITS:** FL125 - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/SOUTH-EASTERN CTA C2

**LATERAL LIMITS:** 33 50 51S 149 34 59E, 33 48 38S 149 47 19E

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 51 32S 150 39 33E

32 41 44S 150 36 40E,

then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 36 35S 151 04 54E

32 46 32S 151 06 41E,

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 45 23S 152 11 33E

34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 39 16S 150 53 26E

35 20 06S 149 48 12E, 35 33 27S 149 25 31E

35 40 41S 149 11 40E, 35 45 49S 149 01 48E

36 14 52S 147 56 10E, 37 01 50S 146 33 00E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 39 08 42S 145 07 34E

38 30 58S 145 07 38E, 38 08 38S 144 40 49E

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 54 04S 144 17 22E

38 24 34S 143 11 49E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 19 28S 145 41 54E

35 27 14S 146 47 07E, 35 16 44S 147 11 48E

then along the minor arc of a circle of 15.00NM radius centred on

35 09 57S 147 28 08E (WG/DME) to 34 58 56S 147 40 34E

34 50 04S 147 52 58E,

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E

33 59 41S 149 34 44E,

then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 50 51S 149 34 59E

**VERTICAL LIMITS:** FL155 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/SUNSHINE COAST CTA C1

**LATERAL LIMITS:** 26 43 33S 153 02 51E, 26 52 12S 153 03 24E

then along the minor arc of a circle of 30.00NM radius centred on



27 21 57S 153 08 21E (BN/DME) to 27 01 07S 153 32 38E  
26 49 28S 153 34 39E,  
then along the minor arc of a circle of 40.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 42 12S 153 02 24E  
26 43 33S 153 02 51E

**VERTICAL LIMITS:** 4500 - 7500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/SUNSHINE COAST CTA C2

**LATERAL LIMITS:** 26 32 38S 152 58 14E,  
then along 1NM E OF THE BRUCE HWY to 26 41 58S 153 02 20E  
26 42 12S 153 02 24E,

then along the minor arc of a circle of 40.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 49 28S 153 34 39E  
26 38 37S 153 36 31E,

then along the minor arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 32 38S 152 58 14E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/SUNSHINE COAST CTA C3

**LATERAL LIMITS:** 26 31 47S 152 57 44E,  
then along 1NM E OF BRUCE HWY to 26 32 38S 152 58 14E  
then along the minor arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 32 49S 153 19 31E  
then along the minor arc of a circle of 13.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 22 54S 153 07 00E  
then along COAST 70 to 26 27 52S 153 06 07E

then along the minor arc of a circle of 8.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 31 47S 152 57 44E

**VERTICAL LIMITS:** 4500 - FL125

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C01A

**LATERAL LIMITS:** 33 50 06S 151 16 52E, 33 49 50S 151 17 05E

then along the minor arc of a circle of 8.50NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 05 04S 151 10 11E  
then along THE COAST 97 to 34 04 37S 151 10 02E  
34 04 19S 151 09 20E,

then along THE COAST 9 to 34 02 16S 151 11 32E

then along THE COAST 8 to 34 01 10S 151 13 46E

34 00 10S 151 14 54E, 33 58 07S 151 15 57E

33 53 34S 151 17 06E, 33 53 05S 151 17 03E

then along THE COAST 7 to 33 51 34S 151 17 05E

then along THE COAST 61 to 33 50 06S 151 16 52E

**VERTICAL LIMITS:** 500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C01B

**LATERAL LIMITS:** 33 50 44S 151 07 48E, 33 50 36S 151 07 11E

then along STH BANK PARRAMATTA RVR 8 to 33 50 10S 151 06 14E

then along S BANK PARRAMATTA RVR 2 to 33 49 37S 151 05 37E

then along S BANK PARRAMATTA RVR 8 to 33 49 26S 151 05 17E

then along the minor arc of a circle of 8.50NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 48 03S 151 10 53E

then along THE PACIFIC HWY 2 to 33 51 10S 151 12 41E

33 51 20S 151 12 28E,

then along THE S BANK PARRAMATTA RVR to 33 52 27S 151 11 59E

then along S BANK PARRAMATTA RVR 6 to 33 51 33S 151 11 45E

then along S BANK PARRAMATTA RVR 5 to 33 50 58S 151 10 50E

33 50 50S 151 10 20E, 33 50 57S 151 09 53E

33 50 51S 151 09 19E,  
then along S BANK PARRAMATTA RVR 4 to 33 50 43S 151 08 38E  
33 50 52S 151 08 29E,  
then along S BANK PARRAMATTA RVR 3 to 33 50 44S 151 07 48E

**VERTICAL LIMITS:** 500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C02

**LATERAL LIMITS:** 33 49 26S 151 05 17E, 33 45 42S 151 04 42E

then along the minor arc of a circle of 12.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 44 33S 151 11 16E

33 48 03S 151 10 53E,

then along the minor arc of a circle of 8.50NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 49 26S 151 05 17E

**VERTICAL LIMITS:** 700 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C03

**LATERAL LIMITS:** 33 48 03S 151 10 53E, 33 44 33S 151 11 16E

then along the major arc of a circle of 12.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 08 17S 151 07 36E

then along COAST 3 to 34 05 04S 151 10 11E

then along the minor arc of a circle of 8.50NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 49 50S 151 17 05E

33 50 06S 151 16 52E,

then along SOUTHERN SHORE HARBOUR 5 to 33 51 09S 151 16

15E

then along SOUTHERN SHORE HARBOUR 4 to 33 52 22S 151 15

26E

then along SOUTHERN SHORE HARBOUR 3 to 33 51 56S 151 15

13E

then along SOUTHERN SHORE HARBOUR 2 to 33 51 33S 151 13

46E

then along SOUTHERN SHORE HARBOUR 1 to 33 51 20S 151 12

28E

33 51 10S 151 12 41E,

then along THE PACIFIC HWY 2 to 33 48 03S 151 10 53E

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C04A

**LATERAL LIMITS:** 33 57 53S 150 57 19E, 33 53 49S 150 56 17E

then along the minor arc of a circle of 3.00NM radius centred on

33 55 28S 150 59 18E (YSBK/AD) to 33 54 17S 151 02 37E

33 56 21S 151 01 28E,

then along the minor arc of a circle of 2.00NM radius centred on

33 55 28S 150 59 18E (YSBK/AD) to 33 57 20S 151 00 09E

33 57 53S 150 57 19E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/SYDNEY CTA C04B

**LATERAL LIMITS:** 34 06 40S 150 56 08E, 34 03 50S 150 59 42E

34 05 04S 151 10 11E,

then along COAST 3 to 34 08 17S 151 07 36E

34 06 40S 150 56 08E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/SYDNEY CTA C04C**

**LATERAL LIMITS:** 34 15 45S 151 03 52E, 34 08 17S 151 07 36E  
then along the minor arc of a circle of 12.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 01 06S 151 24 12E  
34 03 55S 151 33 13E,  
then along the minor arc of a circle of 20.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 11 14S 151 27 15E  
34 16 44S 151 28 42E,  
then along the minor arc of a circle of 25.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 21 10S 151 05 09E  
34 15 45S 151 03 52E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/SYDNEY CTA C05**

**LATERAL LIMITS:** 33 53 08S 150 57 01E,  
then along the minor arc of a circle of 12.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 45 42S 151 04 42E  
33 49 26S 151 05 17E,  
then along HOME BUSH BAY 4 to 33 50 28S 151 04 56E  
33 51 04S 151 04 54E,  
then along the minor arc of a circle of 0.40NM radius centred on  
33 51 03S 151 04 25E to 33 51 25S 151 04 14E  
33 54 17S 151 02 37E,  
then along the minor arc of a circle of 3.00NM radius centred on  
33 55 28S 150 59 18E (YSBK/AD) to 33 53 08S 150 57 01E

**VERTICAL LIMITS:** 2000 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/SYDNEY CTA C06**

**LATERAL LIMITS:** 33 32 04S 151 17 02E, 33 37 34S 151 18 27E  
then along the minor arc of a circle of 20.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 11 14S 151 27 15E  
34 16 44S 151 28 42E,  
then along the minor arc of a circle of 25.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 21 10S 151 05 09E  
34 15 45S 151 03 52E,  
then along the minor arc of a circle of 20.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 44 44S 150 51 28E  
33 37 18S 150 51 42E,  
then along the minor arc of a circle of 25.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 32 04S 151 17 02E

**VERTICAL LIMITS:** 2500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/SYDNEY CTA C07**

**LATERAL LIMITS:** 33 31 39S 150 59 47E, 33 23 41S 150 56 17E  
then along the minor arc of a circle of 35.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 21 38S 151 14 20E  
33 32 04S 151 17 02E,  
then along the minor arc of a circle of 25.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 33 05S 151 00 28E  
then along the minor arc of a circle of 11.00NM radius centred on  
33 36 27S 150 47 56E (RIC/TAC) to 33 31 39S 150 59 47E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CTA C09**

**LATERAL LIMITS:** 33 42 11S 150 36 41E, 33 36 13S 150 22 41E  
then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 17S 150 52 09E

33 23 41S 150 56 17E,

then along the minor arc of a circle of 35.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 21 38S 151 14 20E

33 26 47S 151 15 40E,

then along the major arc of a circle of 30.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 42 57S 150 38 44E

33 42 11S 150 36 41E

**VERTICAL LIMITS:** 4500 - 7500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CTA C10**

**LATERAL LIMITS:** A circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME)

**VERTICAL LIMITS:** 7500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CTA C11**

**LATERAL LIMITS:** 33 50 34S 150 17 16E, 33 49 08S 150 05 23E

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 46 20S 150 42 19E

34 39 16S 150 53 26E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E

33 21 40S 152 01 50E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 06 18S 150 43 56E

33 16 11S 150 46 53E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E

**VERTICAL LIMITS:** 8500 - FL115

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CTA C12**

**LATERAL LIMITS:** 32 51 32S 150 39 33E, 33 16 11S 150 46 53E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E

33 49 08S 150 05 23E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 46 20S 150 42 19E

34 39 16S 150 53 26E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E

33 09 13S 152 12 37E,

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 51 32S 150 39 33E

**VERTICAL LIMITS:** FL115 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TAMWORTH CTA C1**

**LATERAL LIMITS:** 31 09 51S 151 15 43E, 31 07 51S 151 06 41E

then along the major arc of a circle of 15.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

31 26 42S 150 45 16E,

then along the minor arc of a circle of 23.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E

**VERTICAL LIMITS:** 4500 - 6500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TAMWORTH CTA C2****LATERAL LIMITS:** 31 36 02S 151 09 06E, 31 24 29S 151 02 04Ethen along the minor arc of a circle of 23.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E  
31 07 51S 151 06 41E,then along the major arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E  
31 39 33S 150 42 42E,

then along the minor arc of a circle of 36.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 36 02S 151 09 06E

**VERTICAL LIMITS:** 6500 - 8500**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/TAMWORTH CTA C3****LATERAL LIMITS:** 31 18 48S 150 46 50E, 31 39 33S 150 42 42E31 48 47S 150 43 44E,  
then along the minor arc of a circle of 45.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 44 02S 151 13 59E  
31 24 29S 151 02 04E,then along the minor arc of a circle of 23.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E  
31 07 51S 151 06 41E,

then along the major arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

**VERTICAL LIMITS:** 8500 - FL125**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/TAMWORTH CTA C4****LATERAL LIMITS:** 31 18 48S 150 46 50E, 31 39 33S 150 42 42E31 58 56S 150 44 52E,  
then along the minor arc of a circle of 55.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 52 55S 151 19 25E  
31 24 29S 151 02 04E,then along the minor arc of a circle of 23.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E  
31 07 51S 151 06 41E,

then along the major arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

**VERTICAL LIMITS:** FL125 - FL155**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/TAMWORTH CTA C5****LATERAL LIMITS:** 31 18 48S 150 46 50E, 31 39 33S 150 42 42E32 09 03S 150 45 59E,  
then along the minor arc of a circle of 65.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 32 01 47S 151 24 52E  
31 24 29S 151 02 04E,then along the minor arc of a circle of 23.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E  
31 07 51S 151 06 41E,

then along the major arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

**VERTICAL LIMITS:** FL155 - FL180**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/TASMANIAN CTA C2****LATERAL LIMITS:** 42 22 31S 146 30 07E, 42 15 56S 146 25 34Ethen along the minor arc of a circle of 60.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 41 54 56S 147 02 07E  
41 41 54S 147 04 52E, 41 31 39S 147 00 31E41 06 13S 146 08 45E,  
then along the minor arc of a circle of 55.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 40 44 24S 147 47 49E41 06 21S 147 32 00E,  
then along the minor arc of a circle of 30.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 41 17 40S 147 47 21E41 27 27S 147 25 05E, 42 02 46S 147 50 19E  
then along the minor arc of a circle of 50.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 06 26S 148 02 44E42 36 38S 147 41 38E,  
then along the minor arc of a circle of 16.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E42 43 01S 148 19 20E,  
then along the minor arc of a circle of 36.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 43 18 49S 148 02 31E42 57 18S 147 31 40E, 42 51 58S 147 21 33E  
42 48 40S 147 18 48E, 42 46 40S 147 03 30E  
42 40 01S 146 53 37E, 42 22 31S 146 30 07E**VERTICAL LIMITS:** FL125 - FL145**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/TASMANIAN CTA C3****LATERAL LIMITS:** 42 22 31S 146 30 07E, 42 06 07S 146 18 49Ethen along the minor arc of a circle of 70.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 41 43 46S 147 04 28E  
41 41 54S 147 04 52E, 41 31 39S 147 00 31E41 06 13S 146 08 45E,  
then along the minor arc of a circle of 55.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 40 44 24S 147 47 49E41 06 21S 147 32 00E,  
then along the minor arc of a circle of 30.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 41 17 40S 147 47 21E41 27 27S 147 25 05E, 41 46 00S 147 38 16E  
then along the minor arc of a circle of 65.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 41 53 06S 148 11 56E42 36 38S 147 41 38E,  
then along the minor arc of a circle of 16.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E42 43 01S 148 19 20E,  
then along the minor arc of a circle of 36.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 43 18 49S 148 02 31E42 57 18S 147 31 40E, 42 51 58S 147 21 33E  
42 48 40S 147 18 48E, 42 46 40S 147 03 30E  
42 40 01S 146 53 37E, 42 22 31S 146 30 07E**VERTICAL LIMITS:** FL145 - FL155**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/TASMANIAN CTA C4****LATERAL LIMITS:** 42 22 31S 146 30 07E, 42 06 07S 146 18 49Ethen along the minor arc of a circle of 70.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 41 43 46S 147 04 28E  
41 41 54S 147 04 52E, 41 31 39S 147 00 31E41 00 41S 145 57 42E,  
then along the minor arc of a circle of 65.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 40 35 36S 147 54 06E41 06 21S 147 32 00E,  
then along the minor arc of a circle of 30.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 41 17 40S 147 47 21E41 27 27S 147 25 05E, 41 46 00S 147 38 16E  
then along the minor arc of a circle of 65.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 41 53 06S 148 11 56E42 36 38S 147 41 38E,  
then along the minor arc of a circle of 16.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E42 43 01S 148 19 20E,  
then along the minor arc of a circle of 36.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 43 18 49S 148 02 31E

42 57 18S 147 31 40E, 42 51 58S 147 21 33E

42 48 40S 147 18 48E, 42 46 40S 147 03 30E  
42 40 01S 146 53 37E, 42 22 31S 146 30 07E

**VERTICAL LIMITS:** FL155 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TOWNSVILLE CTA C1

**LATERAL LIMITS:** 19 31 10S 146 44 33E, 19 40 11S 146 44 04E

then along the major arc of a circle of 25.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 07 24S 147 11 02E

19 09 09S 147 06 05E,

then along the minor arc of a circle of 20.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 26 10S 147 03 36E

19 23 57S 147 00 05E,

then along the minor arc of a circle of 16.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 31 10S 146 44 33E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

#### YBBB/TOWNSVILLE CTA C2

**LATERAL LIMITS:** 19 35 11S 146 44 20E, 19 40 11S 146 44 04E

then along the major arc of a circle of 25.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 28 58S 147 08 00E

19 26 10S 147 03 36E,

then along the minor arc of a circle of 20.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 35 11S 146 44 20E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

#### YBBB/TOWNSVILLE CTA C3

**LATERAL LIMITS:** A circle of 36.00NM radius centred on

19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

#### YBBB/TOWNSVILLE CTA C4

**LATERAL LIMITS:** A circle of 45.00NM radius centred on

19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TOWNSVILLE CTA C5

**LATERAL LIMITS:** A circle of 55.00NM radius centred on

19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** FL125 - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TOWNSVILLE CTA C6

**LATERAL LIMITS:** A circle of 65.00NM radius centred on

19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** FL155 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/WHITSUNDAY CTA C1

**LATERAL LIMITS:** 21 01 49S 148 33 50E, 21 09 04S 149 04 58E

then along the minor arc of a circle of 6.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 16 23S 149 11 00E

21 46 28S 149 10 00E,

then along the minor arc of a circle of 36.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 27 49S 149 45 00E

21 15 48S 149 21 29E,

then along the minor arc of a circle of 11.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 20 59 20S 149 11 47E

20 54 27S 149 12 02E,

then along the minor arc of a circle of 36.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 38 57S 149 30 41E

20 25 37S 149 05 38E,

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 12 02S 148 57 26E

19 44 56S 148 57 43E,

then along the minor arc of a circle of 36.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 11 25S 148 20 27E

21 01 49S 148 33 50E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/WHITSUNDAY CTA C2

**LATERAL LIMITS:** 20 08 57S 148 11 15E, 20 59 38S 148 24 30E

21 09 04S 149 04 58E,

then along the minor arc of a circle of 6.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 16 23S 149 11 00E

21 55 30S 149 09 42E,

then along the minor arc of a circle of 45.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 32 08S 149 53 28E

21 15 48S 149 21 29E,

then along the minor arc of a circle of 11.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 01 38S 149 18 27E

then along the minor arc of a circle of 45.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 47 13S 149 36 27E

20 38 57S 149 30 41E, 20 25 37S 149 05 38E

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 12 02S 148 57 26E

19 44 56S 148 57 43E, 19 37 35S 148 44 25E

then along the minor arc of a circle of 45.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 08 57S 148 11 15E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/WHITSUNDAY CTA C3

**LATERAL LIMITS:** 20 06 13S 148 01 02E, 20 08 57S 148 11 15E

20 59 38S 148 24 30E, 21 06 13S 148 52 39E

21 26 00S 148 50 35E,

then along the minor arc of a circle of 65.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 21 25 05S 149 10 43E

22 15 34S 149 09 01E,

then along the minor arc of a circle of 65.00NM radius centred on

21 10 23S 149 11 15E (MK/DME) to 21 39 46S 150 13 26E

20 38 57S 149 30 41E, 20 25 37S 149 05 38E

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 12 02S 148 57 26E

19 44 56S 148 57 43E, 19 31 03S 148 32 38E

then along the minor arc of a circle of 55.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 06 13S 148 01 02E

**VERTICAL LIMITS:** FL125 - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/WHITSUNDAY CTA C4**

**LATERAL LIMITS:** 20 03 27S 147 50 49E, 20 08 57S 148 11 15E  
20 59 38S 148 24 30E, 21 06 13S 148 52 39E  
21 26 00S 148 50 35E,  
then along the minor arc of a circle of 65.00NM radius centred on  
20 21 04S 148 57 21E (HM/DME) to 21 25 05S 149 10 43E  
22 15 34S 149 09 01E,  
then along the minor arc of a circle of 65.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 39 46S 150 13 26E  
20 38 57S 149 30 41E, 20 25 37S 149 05 38E

then along the minor arc of a circle of 9.00NM radius centred on  
20 21 04S 148 57 21E (HM/DME) to 20 12 02S 148 57 26E  
19 44 56S 148 57 43E, 19 25 06S 148 21 55E  
then along the minor arc of a circle of 65.00NM radius centred on  
20 21 04S 148 57 21E (HM/DME) to 20 03 27S 147 50 49E

**VERTICAL LIMITS:** FL155 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**NOTES**

## SECTION 6 - CONTROLLED AIRSPACE D

### YMMM/ALBURY CTA D1

**LATERAL LIMITS:** A circle of 11.00NM radius centred on 36 04 05S 146 57 58E (AY/DME)

**VERTICAL LIMITS:** 2000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALBURY CTA D2

**LATERAL LIMITS:** A circle of 16.00NM radius centred on 36 04 05S 146 57 58E (AY/DME)

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALBURY CTA D3

**LATERAL LIMITS:** 36 12 13S 146 35 24E, 36 09 40S 146 39 28E

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 48 11S 147 00 28E

35 44 20S 147 02 05E,

then along the minor arc of a circle of 20.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 59 17S 147 21 55E

36 00 42S 147 17 15E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 20 06S 146 58 50E

36 24 06S 146 57 21E,

then along the minor arc of a circle of 20.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 12 13S 146 35 24E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/ALICE SPRINGS CTA D1

**LATERAL LIMITS:** A circle of 15.00NM radius centred on 23 47 34S 133 52 42E (AS/DME)

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA D1

**LATERAL LIMITS:** A circle of 13.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME)

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA D2

**LATERAL LIMITS:** A circle of 18.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME)

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA D3

**LATERAL LIMITS:** A circle of 25.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME)

**VERTICAL LIMITS:** 3500 - 5500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/COFFS HARBOUR CTA D1

**LATERAL LIMITS:** 30 07 50S 153 02 39E,

then along the major arc of a circle of 12.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 26 12S 152 56 00E

30 20 20S 152 58 59E, 30 13 05S 153 03 06E

30 07 50S 153 02 39E

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/COFFS HARBOUR CTA D2

**LATERAL LIMITS:** 30 03 03S 153 00 54E,

then along the minor arc of a circle of 17.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 03 38S 153 15 19E

30 08 11S 153 12 53E,

then along the minor arc of a circle of 12.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E

30 36 12S 153 06 31E,

then along the minor arc of a circle of 17.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 29 17S 152 51 26E

30 26 12S 152 56 00E, 30 20 20S 152 58 59E

30 13 05S 153 03 06E, 30 07 50S 153 02 39E

30 03 03S 153 00 54E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/COFFS HARBOUR CTA D3

**LATERAL LIMITS:** 29 58 17S 152 59 08E,

then along the minor arc of a circle of 22.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 29 59 06S 153 17 45E

30 03 38S 153 15 19E, 30 08 11S 153 12 53E

then along the minor arc of a circle of 12.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 31 11S 153 06 38E

30 36 12S 153 06 31E, 30 41 13S 153 06 24E

then along the minor arc of a circle of 22.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 32 17S 152 46 48E

30 29 17S 152 51 26E, 30 26 12S 152 56 00E

30 20 20S 152 58 59E, 30 13 05S 153 03 06E

30 07 50S 153 02 39E, 30 03 03S 153 00 54E

29 58 17S 152 59 08E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/HAMILTON IS CTA D1

**LATERAL LIMITS:** 20 19 34S 148 51 10E, 20 18 45S 148 48 06E

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 12 02S 148 57 26E

20 15 03S 148 57 24E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 24 08S 149 02 51E

20 25 37S 149 05 38E,

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 30 04S 148 56 25E

20 27 04S 148 56 43E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 19 34S 148 51 10E

**VERTICAL LIMITS:** 1000 - 1500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/HAMILTON IS CTA D2

**LATERAL LIMITS:** 20 19 34S 148 51 10E, 20 17 56S 148 45 01E

then along the minor arc of a circle of 12.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 09 02S 148 57 28E

20 15 03S 148 57 24E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 24 08S 149 02 51E

20 27 36S 149 09 20E,

then along the minor arc of a circle of 13.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 34 03S 148 56 00E

20 27 04S 148 56 43E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 19 34S 148 51 10E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/HAMILTON IS CTA D3

**LATERAL LIMITS:** 20 19 34S 148 51 10E, 20 17 08S 148 41 57E

then along the minor arc of a circle of 15.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 06 01S 148 57 30E

20 12 02S 148 57 26E,

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 25 37S 149 05 38E

20 29 05S 149 12 07E,

then along the minor arc of a circle of 16.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 37 03S 148 55 41E

20 27 04S 148 56 43E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 19 34S 148 51 10E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/HAMILTON IS CTA D4

**LATERAL LIMITS:** 20 19 34S 148 51 10E, 20 15 14S 148 34 47E

then along the minor arc of a circle of 22.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 19 58 59S 148 57 34E

20 12 02S 148 57 26E,

then along the minor arc of a circle of 9.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 25 37S 149 05 38E

20 32 02S 149 17 41E,

then along the minor arc of a circle of 22.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 43 03S 148 55 04E

20 27 04S 148 56 43E,

then along the minor arc of a circle of 6.00NM radius centred on

20 21 04S 148 57 21E (HM/DME) to 20 19 34S 148 51 10E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HOBART CTA D1

**LATERAL LIMITS:** 42 48 40S 147 18 48E, 42 48 26S 147 17 01E

then along the major arc of a circle of 11.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 55 16S 147 45 18E

42 57 02S 147 51 41E,

then along the minor arc of a circle of 16.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 43 04 46S 147 42 19E

42 57 18S 147 31 40E, 42 51 58S 147 21 33E

42 48 40S 147 18 48E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HOBART CTA D2

**LATERAL LIMITS:** 42 48 40S 147 18 48E, 42 47 34S 147 10 20E

then along the major arc of a circle of 16.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 43 04 46S 147 42 19E

42 57 18S 147 31 40E, 42 51 58S 147 21 33E

42 48 40S 147 18 48E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HOBART CTA D3

**LATERAL LIMITS:** 42 46 40S 147 03 30E, 42 43 41S 146 59 04E

then along the minor arc of a circle of 25.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 27 25S 147 19 44E

42 32 06S 147 22 04E,

then along the minor arc of a circle of 20.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 33 05S 147 44 08E

42 36 38S 147 41 38E,

then along the minor arc of a circle of 16.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E

42 46 34S 147 58 09E,

then along the minor arc of a circle of 20.00NM radius centred on

42 50 50S 147 31 36E (HB/DME) to 43 07 38S 147 46 25E

42 57 18S 147 31 40E, 42 51 58S 147 21 33E

42 48 40S 147 18 48E, 42 46 40S 147 03 30E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/KARRATHA CTA D1

**LATERAL LIMITS:** A circle of 13.00NM radius centred on

20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/KARRATHA CTA D2

**LATERAL LIMITS:** A circle of 18.00NM radius centred on

20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/KARRATHA CTA D3

**LATERAL LIMITS:** A circle of 25.00NM radius centred on

20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** 3500 - 5500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LAUNCESTON CTA D1

**LATERAL LIMITS:** 41 31 39S 147 00 31E, 41 30 37S 146 58 23E

then along the minor arc of a circle of 11.00NM radius centred on

41 32 38S 147 12 47E (LT/DME) to 41 25 04S 147 23 24E

41 30 17S 147 27 05E,

then along the minor arc of a circle of 11.00NM radius centred on



41 32 38S 147 12 47E (LT/DME) to 41 41 54S 147 04 52E  
41 31 39S 147 00 31E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/LAUNCESTON CTA D2

**LATERAL LIMITS:** 41 31 39S 147 00 31E, 41 27 46S 146 52 30E

then along the minor arc of a circle of 16.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 17 05S 147 17 47E  
41 38 15S 147 32 45E,

then along the minor arc of a circle of 16.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 47 09S 147 03 46E

41 41 54S 147 04 52E, 41 31 39S 147 00 31E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/LAUNCESTON CTA D3

**LATERAL LIMITS:** 41 31 39S 147 00 31E, 41 25 31S 146 47 55E

then along the minor arc of a circle of 20.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 12 49S 147 16 22E  
41 17 05S 147 17 47E, 41 42 38S 147 35 52E

then along the minor arc of a circle of 20.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 51 13S 147 02 54E

41 41 54S 147 04 52E, 41 31 39S 147 00 31E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/MACKAY CTA D1

**LATERAL LIMITS:** 21 09 04S 149 04 58E, 21 07 52S 148 59 46E

then along the major arc of a circle of 11.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 21 24S 149 10 50E  
21 16 23S 149 11 00E,

then along the minor arc of a circle of 6.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 09 04S 149 04 58E

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/MACKAY CTA D2

**LATERAL LIMITS:** 21 09 04S 149 04 58E, 21 06 40S 148 54 35E

then along the minor arc of a circle of 16.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 20 54 19S 149 12 02E  
20 59 20S 149 11 47E,

then along the minor arc of a circle of 11.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 15 48S 149 21 29E  
21 18 12S 149 26 11E,

then along the minor arc of a circle of 16.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 26 25S 149 10 40E  
21 16 23S 149 11 00E,

then along the minor arc of a circle of 6.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 09 04S 149 04 58E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/MACKAY CTA D3

**LATERAL LIMITS:** 21 09 04S 149 04 58E, 21 05 13S 148 48 21E

then along the minor arc of a circle of 22.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 20 48 18S 149 12 21E

20 59 20S 149 11 47E,

then along the minor arc of a circle of 11.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 15 48S 149 21 29E

21 21 06S 149 31 49E,

then along the minor arc of a circle of 22.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 32 26S 149 10 28E

21 16 23S 149 11 00E,

then along the minor arc of a circle of 6.00NM radius centred on  
21 10 23S 149 11 15E (MK/DME) to 21 09 04S 149 04 58E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA D1

**LATERAL LIMITS:** 23 12 05S 150 30 15E, 23 13 04S 150 30 04E

then along the minor arc of a circle of 10.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 27 24S 150 38 04E

23 27 50S 150 39 03E,

then along the major arc of a circle of 11.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 12 05S 150 30 15E

**VERTICAL LIMITS:** 1000 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA D2

**LATERAL LIMITS:** 23 07 08S 150 31 09E, 23 13 04S 150 30 04E

then along the minor arc of a circle of 10.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 27 24S 150 38 04E

23 29 59S 150 43 58E,

then along the major arc of a circle of 16.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 07 08S 150 31 09E

**VERTICAL LIMITS:** 2500 - 3500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ROCKHAMPTON CTA D3

**LATERAL LIMITS:** 23 17 41S 150 11 54E, 23 15 39S 150 05 45E

then along the minor arc of a circle of 22.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 01 12S 150 32 13E

23 13 04S 150 30 04E,

then along the minor arc of a circle of 10.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 27 24S 150 38 04E

23 32 34S 150 49 51E,

then along the minor arc of a circle of 22.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 44 56S 150 25 56E

23 38 57S 150 26 34E,

then along the minor arc of a circle of 16.00NM radius centred on  
23 22 58S 150 28 18E (RK/DME) to 23 17 41S 150 11 54E

**VERTICAL LIMITS:** 3500 - 4500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/SUNSHINE COAST CTA D1

**LATERAL LIMITS:** 26 43 33S 153 02 51E, 26 41 58S 153 02 20E

then along 1NM EAST OF BRUCE HWY to 26 31 47S 152 57 44E

then along the minor arc of a circle of 8.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 27 52S 153 06 07E

then along COAST 70 to 26 22 54S 153 07 00E

then along the minor arc of a circle of 13.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 46 57S 153 13 03E

26 42 41S 153 10 07E,

then along the minor arc of a circle of 8.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 43 33S 153 02 51E

**VERTICAL LIMITS:** 1500 - 2500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/SUNSHINE COAST CTA D2****LATERAL LIMITS:** 26 41 58S 153 02 20E, 26 43 33S 153 02 51E

then along the minor arc of a circle of 8.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 42 41S 153 10 07E 26 49 31S 153 14 49E,

then along the minor arc of a circle of 16.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 33 35S 153 23 05E

then along the minor arc of a circle of 50.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 26 32 49S 153 19 31E

then along the minor arc of a circle of 13.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 22 54S 153 07 00E

then along COAST 70 to 26 27 52S 153 06 07E

then along the minor arc of a circle of 8.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 31 47S 152 57 44E

then along 1NM EAST OF BRUCE HWY to 26 41 58S 153 02 20E

**VERTICAL LIMITS:** 2500 - 3500**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/SUNSHINE COAST CTA D3****LATERAL LIMITS:** 26 41 58S 153 02 20E, 26 43 33S 153 02 51E

then along the minor arc of a circle of 8.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 42 41S 153 10 07E

26 52 55S 153 17 10E,

then along the minor arc of a circle of 20.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 34 54S 153 27 42E

then along the minor arc of a circle of 50.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 26 32 49S 153 19 31E

then along the minor arc of a circle of 13.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 22 54S 153 07 00E

then along COAST 70 to 26 27 52S 153 06 07E

then along the minor arc of a circle of 8.00NM radius centred on 26 35 52S 153 05 25E (SU/DME) to 26 31 47S 152 57 44E

then along 1NM EAST OF BRUCE HWY to 26 41 58S 153 02 20E

**VERTICAL LIMITS:** 3500 - 450**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/TAMWORTH CTA D1****LATERAL LIMITS:** 31 24 29S 151 02 04E, 31 17 22S 150 57 46E

then along the major arc of a circle of 15.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 07 51S 151 06 41E

31 09 51S 151 15 43E,

then along the minor arc of a circle of 23.00NM radius centred on 31 03 58S 150 49 48E (TW/DME) to 31 24 29S 151 02 04E

**VERTICAL LIMITS:** 3500 - 4500**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP**CONTROLLING AUTHORITY:** Airservices Australia

## SECTION 7 - CONTROLLED AIRSPACE E

### YMMM/ADELAIDE CTA E1

**LATERAL LIMITS:** 35 30 01S 136 49 20E, 35 15 26S 137 34 54E then along the minor arc of a circle of 50.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 45 40S 138 18 03E 36 24 22S 138 05 12E,  
then along the major arc of a circle of 90.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 30 01S 136 49 20E  
**VERTICAL LIMITS:** 8500 - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AVALON CTA E1

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 37 54 54S 144 24 29E then along the minor arc of a circle of 8.00NM radius centred on 38 02 22S 144 28 10E (YMAV/AD) to 37 59 14S 144 37 29E 38 07 22S 144 36 05E,  
then along the minor arc of a circle of 8.00NM radius centred on 38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E  
**VERTICAL LIMITS:** 700 AGL - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AVALON CTA E2

**LATERAL LIMITS:** 38 13 43S 144 20 49E, 37 51 04S 144 25 13E then along the minor arc of a circle of 12.00NM radius centred on 38 02 57S 144 27 33E (AV/DME) to 37 55 00S 144 38 57E 37 55 26S 144 38 08E, 38 07 22S 144 36 05E  
then along the minor arc of a circle of 8.00NM radius centred on 38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E 38 12 47S 144 36 17E,  
then along the minor arc of a circle of 12.00NM radius centred on 38 02 57S 144 27 33E (AV/DME) to 38 13 43S 144 20 49E  
**VERTICAL LIMITS:** 1500 - 4500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E1

**LATERAL LIMITS:** A circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME)  
**VERTICAL LIMITS:** 1200 AGL - 5500  
**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E2

**LATERAL LIMITS:** A circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME)  
**VERTICAL LIMITS:** 5500 - 6500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E3

**LATERAL LIMITS:** 18 08 44S 121 34 00E, 18 06 04S 121 43 02E then along the minor arc of a circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 17 28 04S 122 26 34E 17 19 44S 122 30 10E,  
then along the major arc of a circle of 40.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 18 08 44S 121 34 00E  
**VERTICAL LIMITS:** 6500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E4

**LATERAL LIMITS:** 18 11 42S 121 23 58E, 18 06 04S 121 43 02E then along the minor arc of a circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 17 28 04S 122 26 34E 17 10 27S 122 34 10E,  
then along the major arc of a circle of 50.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 18 11 42S 121 23 58E  
**VERTICAL LIMITS:** 8500 - FL115  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E5

**LATERAL LIMITS:** 18 14 39S 121 13 55E, 18 06 04S 121 43 02E then along the minor arc of a circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 17 28 04S 122 26 34E 17 01 11S 122 38 10E,  
then along the major arc of a circle of 60.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 18 14 39S 121 13 55E  
**VERTICAL LIMITS:** FL115 - FL145  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BROOME CTA E6

**LATERAL LIMITS:** 18 19 03S 120 58 51E, 18 06 04S 121 43 02E then along the minor arc of a circle of 31.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 17 28 04S 122 26 34E 16 47 16S 122 44 09E,  
then along the major arc of a circle of 75.00NM radius centred on 17 56 49S 122 14 05E (BRM/DME) to 18 19 03S 120 58 51E  
**VERTICAL LIMITS:** FL145 - FL180  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/CONTINENTAL AUSTRALIA CTA E1

**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E 18 47 59S 115 33 44E, 18 20 55S 116 48 24E 17 37 11S 118 45 34E, 10 20 53S 129 11 21E  
then along the minor arc of a circle of 160.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 09 50 00S 131 35 58E 09 50 00S 141 00 00E, 09 37 00S 141 01 06E 09 15 42S 142 03 30E,  
then along QLD/PNG border to 09 19 24S 142 48 18E 09 08 00S 143 52 30E, 09 24 00S 144 14 00E 09 56 34S 144 05 21E,  
then along the Barrier Reef to 11 30 00S 144 01 36E 11 43 30S 144 04 20E, 12 00 00S 144 00 00E 12 00 00S 144 42 10E, 14 25 18S 145 05 11E  
then along the minor arc of a circle of 150.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 14 44 19S 147 08 50E 18 00 30S 147 39 36E,  
then along the minor arc of a circle of 90.00NM radius centred on 19 14 39S 146 45 30E (TL/DME) to 18 13 56S 147 55 42E then along the minor arc of a circle of 90.00NM radius centred on 19 14 39S 146 45 30E (TL/DME) to 18 26 56S 148 06 03E 19 21 25S 148 42 02E, 19 44 56S 148 57 43E 22 34 10S 151 35 12E, 24 58 55S 154 00 00E  
then along the minor arc of a circle of 150.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 29 49 13S 153 42 58E

30 40 20S 153 31 46E, 31 54 55S 152 55 31E  
 then along the minor arc of a circle of 150.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 36 13 51S 152 25 08E  
 then along the minor arc of a circle of 120.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
 38 11 19S 150 19 14E, 43 00 00S 151 00 00E  
 43 51 03S 150 39 53E, 43 31 15S 149 21 30E  
 43 43 48S 145 51 48E, 42 21 00S 141 00 00E  
 37 10 38S 125 04 54E, 36 43 12S 120 00 00E  
 36 25 00S 116 40 00E, 34 11 13S 114 13 59E  
 then along the minor arc of a circle of 160.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E  
 21 50 00S 111 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/DARWIN CTA E1

**LATERAL LIMITS:** 13 50 31S 130 23 20E, 13 03 27S 130 41 17E  
 then along the major arc of a circle of 40.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 01 38S 131 12 04E  
 13 43 19S 131 41 08E,

then along the major arc of a circle of 90.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 50 31S 130 23 20E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/DARWIN CTA E2

**LATERAL LIMITS:** 13 12 52S 130 37 42E, 13 50 31S 130 23 20E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 43 19S 131 41 08E  
 13 10 00S 131 17 53E,

then along the minor arc of a circle of 50.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 12 52S 130 37 42E

**VERTICAL LIMITS:** 9500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/EAST COAST CTA E1

**LATERAL LIMITS:** 33 49 08S 150 05 23E, 33 47 37S 149 52 55E  
 33 50 51S 149 34 59E, 33 59 41S 149 34 44E  
 34 17 02S 148 27 30E,

then along the minor arc of a circle of 70.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E  
 34 58 56S 147 40 34E,

then along the minor arc of a circle of 15.00NM radius centred on  
 35 09 57S 147 28 08E (WG/DME) to 35 16 44S 147 11 48E  
 35 27 14S 146 47 07E, 36 19 28S 145 41 54E

then along the minor arc of a circle of 90.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 38 24 34S 143 11 49E  
 38 01 46S 144 01 04E,

then along the major arc of a circle of 45.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 38 24 07S 144 59 21E  
 38 30 58S 145 07 38E, 39 08 42S 145 07 34E

then along the minor arc of a circle of 90.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 01 50S 146 33 00E  
 36 14 52S 147 56 10E, 35 51 58S 148 48 04E

then along the major arc of a circle of 40.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 35 12 37S 150 00 19E  
 35 20 06S 149 48 12E, 35 25 48S 149 38 33E  
 35 44 49S 150 37 09E, 35 19 57S 150 34 29E

then along the minor arc of a circle of 23.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E  
 34 43 56S 151 00 00E, 34 41 07S 151 02 28E

then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 39 16S 150 53 26E  
 34 46 20S 150 42 19E,

then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 49 08S 150 05 23E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/EAST COAST CTA E2

**LATERAL LIMITS:** 20 43 43S 147 01 35E, 22 47 31S 147 32 14E  
 23 20 00S 148 00 00E, 23 14 43S 148 51 18E  
 23 36 36S 148 43 03E, 26 41 15S 151 01 54E

then along the minor arc of a circle of 120.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 28 58 42S 151 47 37E  
 29 19 33S 151 28 53E, 30 25 04S 150 52 26E

30 48 57S 150 49 46E,  
 then along the minor arc of a circle of 15.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 31 07 51S 151 06 41E  
 31 09 51S 151 15 43E,

then along the minor arc of a circle of 23.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 31 24 29S 151 02 04E  
 31 44 02S 151 13 59E,

then along the minor arc of a circle of 45.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 31 48 47S 150 43 44E  
 32 04 00S 150 45 26E, 32 33 39S 149 35 37E

33 22 22S 148 22 27E, 34 17 02S 148 27 30E  
 33 59 41S 149 34 44E, 33 50 51S 149 34 59E  
 33 47 37S 149 52 55E, 33 50 34S 150 17 16E

then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 16 11S 150 46 53E  
 33 06 18S 150 43 56E,

then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 21 40S 152 01 50E  
 33 30 06S 151 54 31E,

then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
 34 59 00S 152 29 22E,

then along the minor arc of a circle of 90.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 32 52 40S 152 26 42E  
 30 40 20S 153 31 46E, 29 39 25S 153 45 06E

then along the minor arc of a circle of 90.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 27 13 12S 154 48 54E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 25 52 15S 153 19 26E  
 20 38 57S 149 30 41E, 19 44 56S 148 57 43E  
 19 24 06S 148 20 08E,

then along the minor arc of a circle of 90.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 17 45 21S 146 59 48E  
 then along the major arc of a circle of 90.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 18 20 13S 145 29 46E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 20 43 43S 147 01 35E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**VERTICAL LIMITS:** 8500 - FL180

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**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/EAST COAST CTA E3C**

**LATERAL LIMITS:** 39 47 36S 145 07 30E, 39 08 42S 145 07 34E

then along the minor arc of a circle of 90.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 38 36 40S 146 18 48E

then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E

41 14 33S 148 38 07E, 42 06 26S 148 02 44E

then along the minor arc of a circle of 50.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 02 46S 147 50 19E

41 27 27S 147 25 05E, 41 17 40S 147 47 21E

then along the minor arc of a circle of 30.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 41 06 21S 147 32 00E

40 44 24S 147 47 49E,

then along the minor arc of a circle of 55.00NM radius centred on 41 32 38S 147 12 47E (LT/DME) to 41 06 13S 146 08 45E

41 31 39S 147 00 31E, 41 41 54S 147 04 52E

41 54 56S 147 02 07E,

then along the minor arc of a circle of 60.00NM radius centred on 42 50 50S 147 31 36E (HB/DME) to 42 15 56S 146 25 34E

40 59 50S 145 34 16E, 39 47 36S 145 07 30E

**VERTICAL LIMITS:** FL125 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E1**

**LATERAL LIMITS:** A circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** 1200 AGL - 5500

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E2**

**LATERAL LIMITS:** A circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME)

**VERTICAL LIMITS:** 5500 - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E3**

**LATERAL LIMITS:** 20 28 06S 116 06 48E, 20 31 27S 116 15 43E

then along the minor arc of a circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 16 22S 117 03 41E

20 08 40S 117 08 40E,

then along the major arc of a circle of 40.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 28 06S 116 06 48E

**VERTICAL LIMITS:** 6500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E4**

**LATERAL LIMITS:** 20 24 22S 115 56 55E, 20 31 27S 116 15 43E

then along the minor arc of a circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 16 22S 117 03 41E

20 00 06S 117 14 12E,

then along the major arc of a circle of 50.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 24 22S 115 56 55E

**VERTICAL LIMITS:** 8500 - FL115

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E5**

**LATERAL LIMITS:** 20 20 38S 115 47 02E, 20 31 27S 116 15 43E

then along the minor arc of a circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 16 22S 117 03 41E

19 51 31S 117 19 43E,

then along the major arc of a circle of 60.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 20 38S 115 47 02E

**VERTICAL LIMITS:** FL115 - FL145

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KARRATHA CTA E6**

**LATERAL LIMITS:** 20 15 01S 115 32 14E, 20 31 27S 116 15 43E

then along the minor arc of a circle of 31.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 16 22S 117 03 41E

19 38 39S 117 27 59E,

then along the major arc of a circle of 75.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 20 15 01S 115 32 14E

**VERTICAL LIMITS:** FL145 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CTA E**

**LATERAL LIMITS:** 33 03 37S 114 46 13E, 32 45 14S 115 06 24E  
32 34 11S 115 18 26E,

then along the major arc of a circle of 50.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 32 32 16S 116 39 06E

32 40 42S 116 54 07E, 32 54 36S 117 19 06E

then along the major arc of a circle of 90.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 33 03 37S 114 46 13E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/WILLIAMTOWN CTA E**

**LATERAL LIMITS:** 32 40 49S 151 34 15E, 32 36 02S 151 23 51E

then along the minor arc of a circle of 25.00NM radius centred on 32 47 49S 151 50 00E (WLM/TAC) to 32 22 47S 151 51 04E

then along the major arc of a circle of 25.00NM radius centred on 32 47 49S 151 50 00E (WLM/TAC) to 33 11 51S 151 41 33E

then along the minor arc of a circle of 25.00NM radius centred on 32 47 49S 151 50 00E (WLM/TAC) to 33 10 38S 151 37 42E

32 53 41S 151 37 33E, 32 47 22S 151 37 30E

32 44 26S 151 36 20E, 32 43 29S 151 32 57E

32 40 49S 151 34 15E

**VERTICAL LIMITS:** 4500 - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**NOTES**

## SECTION 8 - OCEANIC CONTROL AREAS

**YBBB-YMMM/BRISBANE/MELB OCEANIC CONTROL** then along the minor arc of a circle of 120.00NM radius centred on  
**LATERAL LIMITS:** 06 00 00S 075 00 00E, 02 00 00S 078 00 00E 34 57 00S 150 32 00E (NWA/TAC) to 36 13 51S 152 25 08E  
 02 00 00S 092 00 00E, 12 00 00S 107 00 00E 36 13 36S 152 25 23E, 36 29 26S 153 48 37E  
 12 00 00S 114 30 00E, 12 00 00S 123 20 00E then along the minor arc of a circle of 200.00NM radius centred on  
 09 20 00S 126 50 00E, 07 00 00S 135 00 00E 33 56 34S 151 10 51E (SY/DME) to 31 07 50S 153 18 31E  
 09 50 00S 139 40 00E, 09 50 00S 131 35 58E 30 40 20S 153 31 46E, 29 49 13S 153 42 58E  
 then along the minor arc of a circle of 160.00NM radius centred on then along the minor arc of a circle of 150.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 10 20 53S 129 11 21E 27 21 57S 153 08 21E (BN/DME) to 24 58 55S 154 00 00E  
 17 37 11S 118 45 34E, 18 20 55S 116 48 24E 23 13 18S 153 14 30E, 22 15 21S 152 02 50E  
 18 47 59S 115 33 44E, 19 30 36S 113 31 23E 18 40 27S 151 00 35E, 16 09 59S 151 06 21E  
 21 50 00S 111 30 00E, 31 15 48S 112 56 25E 12 00 00S 148 34 24E, 12 00 00S 155 00 00E  
 then along the minor arc of a circle of 160.00NM radius centred on 14 00 00S 155 00 00E, 14 00 00S 161 15 00E  
 31 56 42S 115 57 34E (PH/DME) to 34 11 13S 114 13 59E 17 40 00S 163 00 00E, 80 00 00S 163 00 00E  
 36 25 00S 116 40 00E, 36 43 12S 120 00 00E 80 00 00S 075 00 00E, 06 00 00S 075 00 00E  
 37 10 38S 125 04 54E, 42 21 00S 141 00 00E  
 43 43 48S 145 51 48E, 43 31 15S 149 21 30E  
 43 51 03S 150 39 53E, 43 00 00S 151 00 00E  
 38 11 19S 150 19 14E, 36 56 43S 150 45 03E

**VERTICAL LIMITS:** FL245 - FL600

**CONTROLLING AUTHORITY:** Airservices Australia

**NOTES**



## SECTION 9 ATC SECTORS LOW

### YMMM/ADELAIDE TMA

**LATERAL LIMITS:** 34 08 00S 138 17 55E, 34 21 27S 138 22 59E

then along the major arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 28 26S 138 58 24E

34 16 35S 139 07 33E,

then along the minor arc of a circle of 50.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 08 00S 138 17 55E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

20 43 56S 136 14 02E, 21 29 59S 136 19 44E

21 12 32S 131 55 06E, 19 00 00S 131 30 00E

17 10 35S 131 30 00E, 16 55 10S 131 36 45E

then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 13 31 12S 134 44 11E

12 12 02S 133 27 00E,

then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E

then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 10 01 27S 131 39 32E

**VERTICAL LIMITS:** SFC - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ALMA A

**LATERAL LIMITS:** 22 48 42S 149 09 24E, 22 28 48S 149 35 00E

22 21 30S 149 51 54E, 22 14 32S 150 00 42E

22 17 00S 150 12 00E, 22 15 00S 150 20 00E

22 12 34S 150 25 27E, 22 06 00S 150 30 00E

22 06 00S 150 45 00E, 21 39 12S 151 52 08E

22 15 21S 152 02 50E, 23 13 18S 153 14 30E

24 58 55S 154 00 00E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 06 43S 154 21 26E

25 45 00S 154 00 00E, 26 04 31S 154 00 00E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 21 06S 151 54 05E

25 57 04S 151 21 59E, 24 38 10S 150 20 30E

23 10 00S 149 35 00E, 23 05 40S 149 20 16E

22 48 42S 149 09 24E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AVALON APPROACH A

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 37 54 54S 144 24 29E

then along the minor arc of a circle of 8.00NM radius centred on

38 02 22S 144 28 10E (YMAV/AD) to 37 59 14S 144 37 29E

38 07 22S 144 36 05E,

then along the minor arc of a circle of 8.00NM radius centred on

38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AVALON APPROACH B

**LATERAL LIMITS:** 38 13 43S 144 20 49E, 37 51 04S 144 25 13E

then along the minor arc of a circle of 12.00NM radius centred on

38 02 57S 144 27 33E (AV/DME) to 37 55 00S 144 38 57E

37 55 26S 144 38 08E, 38 07 22S 144 36 05E

then along the minor arc of a circle of 8.00NM radius centred on

38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E

38 12 47S 144 36 17E,

then along the minor arc of a circle of 12.00NM radius centred on

38 02 57S 144 27 33E (AV/DME) to 38 13 43S 144 20 49E

**VERTICAL LIMITS:** 1500 - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ALMA B

**LATERAL LIMITS:** 22 48 42S 149 09 24E, 22 28 48S 149 35 00E

22 21 30S 149 51 54E, 22 14 32S 150 00 42E

22 17 00S 150 12 00E, 22 15 00S 150 20 00E

22 12 34S 150 25 27E, 22 06 00S 150 30 00E

22 06 00S 150 45 00E, 21 39 12S 151 52 08E

22 15 21S 152 02 50E, 23 13 18S 153 14 30E

24 58 55S 154 00 00E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 06 43S 154 21 26E

25 45 00S 154 00 00E, 26 04 31S 154 00 00E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 52 15S 153 19 26E

25 22 05S 152 56 24E,

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 01 51S 151 28 21E

25 57 04S 151 21 59E, 24 38 10S 150 20 30E

23 10 00S 149 35 00E, 23 05 40S 149 20 16E

22 48 42S 149 09 24E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BARKLY A

**LATERAL LIMITS:** 20 43 56S 136 14 02E, 19 01 14S 137 40 20E

19 05 23S 140 05 10E, 19 22 34S 140 36 52E

then along the minor arc of a circle of 100.00NM radius centred on

20 39 53S 139 29 09E (MA/DME) to 20 01 56S 141 07 40E

19 05 00S 142 50 00E, 18 17 48S 143 50 32E

18 34 39S 144 46 06E, 18 20 13S 145 29 46E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 20 37 58S 146 08 32E

21 26 57S 145 46 28E, 21 51 14S 145 35 26E

21 43 33S 145 25 58E, 21 43 42S 143 53 44E

22 08 25S 142 57 53E, 23 10 00S 140 46 17E

23 10 00S 137 00 50E, 22 17 51S 136 38 07E

21 51 32S 136 22 25E, 20 43 56S 136 14 02E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/ARNHEM

**LATERAL LIMITS:** 10 01 27S 131 39 32E, 09 48 39S 131 30 25E

then along the minor arc of a circle of 160.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 09 50 00S 131 35 58E

09 50 00S 139 40 00E, 11 36 30S 140 00 00E

14 00 00S 140 00 00E, 15 00 00S 140 00 00E

14 56 29S 138 52 36E, 15 08 36S 138 20 42E

15 42 12S 137 12 54E, 16 35 57S 137 10 56E

17 20 18S 137 09 18E, 19 01 14S 137 40 20E

### YBBB-YMMM/BARKLY B

**LATERAL LIMITS:** 19 01 14S 137 40 20E, 19 05 23S 140 05 10E

19 22 34S 140 36 52E,

then along the minor arc of a circle of 100.00NM radius centred on

20 39 53S 139 29 09E (MA/DME) to 20 01 56S 141 07 40E

19 05 00S 142 50 00E, 18 17 48S 143 50 32E  
 18 49 22S 144 07 24E, 19 25 53S 144 27 04E  
 20 11 58S 144 53 36E, 21 26 57S 145 46 28E  
 21 51 14S 145 35 26E, 21 43 33S 145 25 58E  
 21 43 42S 143 53 44E, 22 08 25S 142 57 53E  
 23 10 00S 140 46 17E, 23 10 00S 137 00 50E  
 22 17 51S 136 38 07E, 21 51 32S 136 22 25E  
 20 43 56S 136 14 02E, 19 01 14S 137 40 20E

**VERTICAL LIMITS:** FL180 - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BARRA LOW A

**LATERAL LIMITS:** 16 47 15S 144 36 59E,  
 then along the minor arc of a circle of 65.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 20E  
 16 44 44S 146 21 36E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 48 58S 145 07 09E  
 16 47 15S 144 36 59E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BARRA LOW B

**LATERAL LIMITS:** 16 41 46S 143 08 34E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 14 44 19S 147 08 50E  
 16 51 30S 147 28 40E, 16 51 05S 147 18 30E  
 16 48 12S 146 52 20E,  
 then along the minor arc of a circle of 65.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 59E  
 16 41 46S 143 08 34E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BARRA LOW C

**LATERAL LIMITS:** 16 41 46S 143 08 34E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 14 44 19S 147 08 50E  
 16 51 30S 147 28 40E, 16 51 05S 147 18 30E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 45 42S 144 10 59E  
 16 41 46S 143 08 34E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BATHURST A

**LATERAL LIMITS:** 33 49 08S 150 05 23E,  
 then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 18 49S 150 22 53E  
 33 25 34S 150 31 41E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E  
 33 49 08S 150 05 23E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BATHURST B

**LATERAL LIMITS:** 33 48 38S 149 47 19E,

then along the minor arc of a circle of 70.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 08 39S 150 09 42E  
 33 18 49S 150 22 53E,

then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 49 08S 150 05 23E  
 33 47 37S 149 52 55E, 33 48 38S 149 47 19E

**VERTICAL LIMITS:** SFC - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BATHURST C

**LATERAL LIMITS:** 33 22 22S 148 22 27E, 32 37 32S 149 29 53E  
 32 55 03S 149 52 13E, 33 08 39S 150 09 42E

then along the minor arc of a circle of 70.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 48 38S 149 47 19E  
 33 50 51S 149 34 59E,

then along the minor arc of a circle of 80.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 59 41S 149 34 44E  
 34 17 02S 148 27 30E, 33 22 22S 148 22 27E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/BATHURST D

**LATERAL LIMITS:** 32 56 07S 148 03 26E, 32 38 09S 148 15 22E

32 38 14S 148 39 42E, 32 59 58S 148 56 23E

33 22 22S 148 22 27E, 34 17 02S 148 27 30E

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 29 18S 148 09 16E

33 17 56S 147 48 50E, 32 56 07S 148 03 26E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BATHURST E

**LATERAL LIMITS:** 32 13 10S 148 34 40E, 32 05 40S 148 49 51E

32 37 32S 149 29 53E, 32 59 58S 148 56 23E

32 38 14S 148 39 42E, 32 38 09S 148 15 22E

32 13 10S 148 34 40E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BENDEMEER

**LATERAL LIMITS:** 29 49 03S 151 12 35E, 30 26 19S 151 40 09E

30 28 21S 151 43 02E, 30 41 52S 152 02 20E

31 26 47S 151 33 04E, 32 27 28S 151 05 59E

32 26 34S 151 04 08E,

then along the minor arc of a circle of 90.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 31 57S 150 33 47E

31 50 00S 150 30 07E, 31 39 33S 150 42 42E

31 18 48S 150 46 50E,

then along the minor arc of a circle of 15.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 30 48 57S 150 49 46E

30 25 04S 150 52 26E, 29 49 03S 151 12 35E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BOGAN A

**LATERAL LIMITS:** 29 00 00S 146 32 00E, 31 20 57S 148 15 39E

31 53 55S 147 07 20E, 32 51 02S 146 47 12E

32 47 00S 145 53 42E, 33 11 36S 145 31 23E

33 37 00S 145 29 24E, 33 08 00S 144 42 00E  
 33 00 00S 144 00 00E, 33 00 00S 143 31 00E  
 31 47 54S 143 31 00E, 31 00 00S 142 48 44E  
 29 53 53S 142 40 54E, 29 00 00S 143 30 00E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BOGAN B

**LATERAL LIMITS:** 29 00 00S 143 30 00E, 29 00 00S 146 32 00E

31 20 57S 148 15 39E, 31 53 55S 147 07 20E  
 33 03 21S 146 42 48E, 32 57 11S 146 15 43E  
 33 11 36S 145 31 23E, 33 37 00S 145 29 24E  
 33 08 00S 144 42 00E, 33 00 00S 144 00 00E  
 33 00 00S 143 31 00E, 31 47 54S 143 31 00E  
 31 00 00S 142 48 44E, 29 53 53S 142 40 54E  
 29 00 00S 143 30 00E

**VERTICAL LIMITS:** FL180 - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/CABLE

**LATERAL LIMITS:** 17 37 11S 118 45 34E, 12 26 03S 126 19 25E

12 39 55S 128 01 11E,  
 then along the minor arc of a circle of 170.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 15 05 44S 129 54 21E  
 15 15 20S 129 54 33E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 16 55 10S 131 36 45E  
 17 10 35S 131 30 00E, 19 00 00S 131 30 00E  
 21 12 32S 131 55 06E, 21 12 09S 131 50 24E  
 23 13 13S 128 27 49E, 23 23 49S 126 03 32E  
 21 31 19S 124 33 04E, 20 03 18S 121 40 22E  
 19 00 00S 120 15 00E, 17 37 11S 118 45 34E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/CAIRNS APPROACH

**LATERAL LIMITS:** A circle of 36.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME)

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/COBOURG

**LATERAL LIMITS:** 12 26 03S 126 19 25E, 10 20 53S 129 11 21E

then along the minor arc of a circle of 160.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E  
 10 01 27S 131 39 32E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 14 10 15S 132 44 50E  
 then along the major arc of a circle of 30.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 14 59 01S 132 10 37E  
 then along the minor arc of a circle of 170.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E  
 12 26 03S 126 19 25E

**VERTICAL LIMITS:** Base of CTA - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/COOPER

**LATERAL LIMITS:** 23 10 00S 137 00 50E, 23 10 00S 140 46 17E

22 08 25S 142 57 53E, 21 43 42S 143 53 44E

21 43 33S 145 25 58E, 22 01 17S 145 47 51E  
 22 58 59S 145 52 31E, 25 50 45S 147 30 00E  
 27 20 00S 147 35 45E, 28 03 12S 147 05 18E  
 29 00 00S 146 32 00E, 29 00 00S 143 30 00E  
 26 13 31S 138 23 24E, 23 10 00S 137 00 50E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/DARWIN ARRIVALS

**LATERAL LIMITS:** 10 51 35S 128 29 37E, 10 20 53S 129 11 21E

then along the minor arc of a circle of 160.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E  
 10 01 27S 131 39 32E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 14 10 15S 132 44 50E  
 then along the major arc of a circle of 30.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 14 59 01S 132 10 37E  
 then along the minor arc of a circle of 170.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 10 51 35S 128 29 37E

**VERTICAL LIMITS:** Base of CTA - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/DAWSON A

**LATERAL LIMITS:** 21 51 14S 145 35 26E, 21 26 57S 145 46 28E

21 43 30S 146 06 56E, 22 33 00S 147 44 50E  
 22 52 45S 148 17 40E, 22 48 42S 149 09 24E  
 23 05 40S 149 20 16E, 23 10 00S 149 35 00E  
 24 38 10S 150 20 30E, 26 30 45S 150 30 32E  
 then along the minor arc of a circle of 150.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 28 37 45S 150 41 59E  
 29 00 00S 149 00 00E, 29 08 07S 147 42 57E  
 29 20 27S 146 46 41E, 29 00 00S 146 32 00E  
 28 03 12S 147 05 18E, 27 20 00S 147 35 45E  
 25 50 45S 147 30 00E, 22 58 59S 145 52 31E  
 22 01 17S 145 47 51E, 21 51 14S 145 35 26E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/DAWSON B

**LATERAL LIMITS:** 24 38 10S 150 20 30E, 25 57 04S 151 21 59E

26 01 51S 151 28 21E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 28 29 54S 151 16 32E  
 28 37 45S 150 41 59E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 26 30 45S 150 30 32E  
 24 38 10S 150 20 30E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/DOOKIE A

**LATERAL LIMITS:** 36 51 13S 144 53 03E, 36 08 13S 145 41 28E

then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E  
 36 30 45S 145 41 37E,  
 then along the minor arc of a circle of 80.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 26 42S 146 29 49E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 37 54 48S 146 07 18E  
 37 47 08S 145 27 08E,  
 then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 09 36S 144 52 04E  
 36 51 13S 144 53 03E  
**VERTICAL LIMITS:** SFC - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/DOWNS C**

**LATERAL LIMITS:** 26 41 15S 151 01 54E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 26 01 51S 151 28 21E  
 26 21 06S 151 54 05E, 26 39 16S 152 06 08E  
 27 05 15S 152 15 28E, 26 51 37S 151 33 22E  
 26 41 15S 151 01 54E  
**VERTICAL LIMITS:** SFC - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/DUBBO A**

**LATERAL LIMITS:** 31 53 55S 147 07 20E, 31 20 57S 148 15 39E  
 32 05 40S 148 49 51E, 32 37 32S 149 29 53E  
 32 59 58S 148 56 23E, 32 38 14S 148 39 42E  
 32 38 09S 148 15 22E, 32 56 07S 148 03 26E  
 32 51 02S 146 47 12E, 31 53 55S 147 07 20E  
**VERTICAL LIMITS:** SFC - FL180  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/DUBBO B**

**LATERAL LIMITS:** 31 20 57S 148 15 39E, 32 05 40S 148 49 51E  
 32 13 10S 148 34 40E, 32 38 09S 148 15 22E  
 32 56 07S 148 03 26E, 33 17 56S 147 48 50E  
 33 03 21S 146 42 48E, 31 53 55S 147 07 20E  
 31 20 57S 148 15 39E  
**VERTICAL LIMITS:** FL180 - FL285  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/GASCOYNE**

**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E  
 18 47 59S 115 33 44E, 18 20 55S 116 48 24E  
 19 38 39S 117 27 59E,  
 then along the minor arc of a circle of 75.00NM radius centred on  
 20 42 54S 116 46 26E (KA/DME) to 21 56 49S 117 01 39E  
 25 00 00S 116 58 41E, 25 00 00S 116 32 41E  
 27 43 20S 116 16 48E, 27 41 09S 116 00 00E  
 27 30 00S 112 20 01E, 26 15 00S 112 08 35E  
 23 30 00S 111 44 17E, 21 50 00S 111 30 00E  
**VERTICAL LIMITS:** SFC - FL285  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/GOULBURN A**

**LATERAL LIMITS:** 34 50 49S 147 47 58E, 34 50 04S 147 52 58E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E  
 33 59 41S 149 34 44E,  
 then along the minor arc of a circle of 80.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E  
 34 54 58S 149 36 46E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 52 00S 149 32 14E  
 34 52 32S 149 06 00E, 34 56 18S 148 59 22E  
 35 09 20S 148 36 19E, 34 50 49S 147 47 58E

**VERTICAL LIMITS:** 8500 - FL245  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/GOULBURN B**

**LATERAL LIMITS:** 34 02 50S 149 22 44E, 33 59 41S 149 34 44E  
 then along the minor arc of a circle of 80.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E  
 34 47 38S 149 45 03E,  
 then along the minor arc of a circle of 40.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 37 30S 149 20 42E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 20S 149 16 29E  
 34 02 50S 149 22 44E  
**VERTICAL LIMITS:** 8500 - FL200  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GRAFTON A**

**LATERAL LIMITS:** 28 26 13S 152 36 35E, 28 28 27S 153 03 16E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 24 39S 154 00 00E  
 28 29 50S 154 00 00E, 28 55 26S 153 54 34E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 26 13S 152 36 35E  
**VERTICAL LIMITS:** SFC - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GRAFTON B**

**LATERAL LIMITS:** 28 24 06S 152 18 19E, 28 19 11S 152 22 38E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 28 26 13S 152 36 35E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 55 26S 153 54 34E  
 29 12 43S 153 50 52E,  
 then along the minor arc of a circle of 65.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 24 06S 152 18 19E  
**VERTICAL LIMITS:** SFC - FL125  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GRAFTON C**

**LATERAL LIMITS:** 28 43 14S 152 01 23E, 28 24 06S 152 18 19E  
 then along the minor arc of a circle of 65.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 29 12 43S 153 50 52E  
 29 34 11S 153 46 14E, 30 09 54S 153 38 28E  
 30 40 20S 153 31 46E, 31 08 07S 153 18 23E  
 31 09 16S 153 05 46E, 30 55 14S 153 06 05E  
 then along the minor arc of a circle of 36.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 40 40S 152 33 47E  
 30 49 08S 152 20 33E, 30 41 52S 152 02 20E  
 30 28 21S 151 43 02E, 30 26 19S 151 40 09E  
 29 49 03S 151 12 35E, 29 19 33S 151 28 53E  
 28 43 14S 152 01 23E  
**VERTICAL LIMITS:** SFC - 8500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GRAFTON D**

**LATERAL LIMITS:** 28 43 14S 152 01 23E, 28 24 06S 152 18 19E  
 then along the minor arc of a circle of 65.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 29 12 43S 153 50 52E

29 34 11S 153 46 14E, 30 09 54S 153 38 28E  
 30 40 20S 153 31 46E, 31 08 07S 153 18 23E  
 31 09 16S 153 05 46E, 31 04 15S 153 05 53E  
 then along the minor arc of a circle of 45.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 30 46 02S 152 25 23E  
 30 49 08S 152 20 33E, 30 41 52S 152 02 20E  
 30 28 21S 151 43 02E, 30 26 19S 151 40 09E  
 29 49 03S 151 12 35E, 29 19 33S 151 28 53E  
 28 43 14S 152 01 23E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/GWYDIR A

**LATERAL LIMITS:** 28 54 02S 152 35 42E,  
 then along the minor arc of a circle of 65.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 29 12 43S 153 50 52E  
 29 34 11S 153 46 14E,  
 then along the minor arc of a circle of 85.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 29 26 36S 152 47 31E  
 28 54 02S 152 35 42E

**VERTICAL LIMITS:** FL125 - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/GWYDIR B

**LATERAL LIMITS:** 28 43 14S 152 01 23E, 28 24 06S 152 18 19E  
 then along the minor arc of a circle of 65.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 54 02S 152 35 42E  
 29 26 36S 152 47 31E,  
 then along the minor arc of a circle of 85.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 29 34 11S 153 46 14E  
 30 09 54S 153 38 28E, 30 41 52S 152 02 20E  
 30 28 21S 151 43 02E, 30 26 19S 151 40 09E  
 29 49 03S 151 12 35E, 29 19 33S 151 28 53E  
 28 43 14S 152 01 23E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/HORN

**LATERAL LIMITS:** 11 36 30S 140 00 00E, 09 50 00S 139 40 00E  
 09 50 00S 141 00 00E, 09 37 00S 141 01 06E  
 09 15 42S 142 03 30E,  
 then along QLD/PNG border to 09 19 24S 142 48 18E  
 09 08 00S 143 52 30E, 09 24 00S 144 14 00E  
 09 56 34S 144 05 21E,  
 then along the Barrier Reef to 11 30 00S 144 01 36E  
 11 43 30S 144 04 20E, 12 00 00S 144 00 00E  
 12 00 05S 144 42 11E, 14 25 18S 145 05 11E  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 03 03S 143 16 41E  
 15 30 25S 141 43 29E, 15 00 00S 140 00 00E  
 14 00 00S 140 00 00E, 11 36 30S 140 00 00E

**VERTICAL LIMITS:** SFC - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HUME A

**LATERAL LIMITS:** 34 57 44S 147 02 32E, 34 50 49S 147 47 58E  
 35 09 20S 148 36 19E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 35 45 49S 149 01 48E  
 36 07 04S 148 14 00E, 36 03 06S 147 17 40E  
 then along the minor arc of a circle of 16.00NM radius centred on  
 36 04 05S 146 57 58E (AY/DME) to 35 54 01S 146 42 39E  
 35 36 33S 146 16 20E, 35 22 30S 146 31 36E

35 05 21S 146 55 21E, 34 57 44S 147 02 32E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HUME B

**LATERAL LIMITS:** 34 50 49S 147 47 58E, 35 09 20S 148 36 19E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 35 45 49S 149 01 48E  
 36 07 04S 148 14 00E, 36 03 06S 147 17 40E  
 36 04 05S 146 57 58E, 35 54 01S 146 42 39E  
 35 36 33S 146 16 20E, 35 22 30S 146 31 36E  
 35 05 21S 146 55 21E, 34 57 44S 147 02 32E  
 34 50 49S 147 47 58E

**VERTICAL LIMITS:** 8500 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/HUON

**LATERAL LIMITS:** 38 54 04S 143 25 39E, 38 54 04S 141 00 00E  
 42 21 00S 141 00 00E, 43 43 48S 145 51 48E  
 43 31 15S 149 21 30E, 43 51 03S 150 39 53E  
 43 00 00S 151 00 00E, 40 34 02S 150 38 39E  
 40 00 02S 148 37 58E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 40 05 29S 147 59 34E (YFLI/AD) to 39 37 48S 147 44 28E  
 38 55 15S 147 19 54E,  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 38 54 04S 143 25 39E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/HUON A

**LATERAL LIMITS:** 38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
 39 47 36S 145 07 30E, 40 59 50S 145 34 16E  
 42 22 31S 146 30 07E, 42 40 01S 146 53 37E  
 42 46 40S 147 03 30E, 42 48 40S 147 18 48E  
 42 51 58S 147 21 33E, 42 57 18S 147 31 40E  
 43 18 49S 148 02 31E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 43 01S 148 19 20E  
 42 47 26S 147 52 51E,  
 then along the minor arc of a circle of 16.00NM radius centred on  
 42 50 50S 147 31 36E (HB/DME) to 42 36 38S 147 41 38E  
 42 06 26S 148 02 44E, 41 14 33S 148 38 07E  
 39 51 42S 147 24 53E, 38 44 00S 146 27 40E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 38 55 15S 147 19 54E  
 39 37 48S 147 44 28E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 148 37 58E  
 40 34 02S 150 38 39E, 43 00 00S 151 00 00E  
 43 51 03S 150 39 53E, 43 31 15S 149 21 30E  
 43 43 48S 145 51 48E, 42 21 00S 141 00 00E  
 38 54 04S 141 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/HUON OCEANIC**

**LATERAL LIMITS:** 45 00 00S 141 00 00E, 42 21 00S 141 00 00E  
43 43 48S 145 51 48E, 43 31 15S 149 21 30E  
43 51 03S 150 39 53E, 44 33 57S 150 00 00E  
45 00 00S 150 00 00E, 45 00 00S 141 00 00E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/IRON**

**LATERAL LIMITS:** 18 20 55S 116 48 24E, 17 37 11S 118 45 34E  
19 00 00S 120 15 00E, 19 39 17S 121 07 44E  
21 28 47S 120 21 16E, 25 00 00S 120 15 00E  
25 00 00S 118 30 00E, 25 00 00S 116 58 41E  
21 56 49S 117 01 39E,

then along the minor arc of a circle of 75.00NM radius centred on  
20 42 54S 116 46 26E (KA/DME) to 19 38 39S 117 27 59E  
18 20 55S 116 48 24E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/JARRAH B**

**LATERAL LIMITS:** 30 00 00S 112 43 56E, 30 00 13S 113 49 39E  
30 57 36S 114 38 05E,

then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 26 44S 115 50 10E  
30 36 46S 115 50 14E,

then along the minor arc of a circle of 80.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 08 12S 117 12 07E  
31 34 58S 116 31 17E,

then along the major arc of a circle of 36.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 20 58S 115 26 12E  
33 43 31S 113 35 57E,

then along the minor arc of a circle of 160.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E  
30 00 00S 112 43 56E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/JARRAH C**

**LATERAL LIMITS:** 33 43 31S 113 35 57E, 32 20 58S 115 26 12E  
then along the minor arc of a circle of 36.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 34 58S 116 31 17E  
31 08 12S 117 12 07E, 31 02 15S 117 21 30E

30 20 17S 118 26 34E, 29 18 00S 120 00 00E

29 38 08S 120 04 15E, 29 48 29S 120 06 27E

30 11 36S 120 11 23E, 31 37 31S 120 30 04E

32 18 57S 120 39 17E, 34 49 56S 120 17 22E

36 43 12S 120 00 00E, 36 25 00S 116 40 00E

35 10 52S 115 17 43E, 34 11 13S 114 13 59E

then along the minor arc of a circle of 160.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 33 43 31S 113 35 57E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/JERVIS A**

**LATERAL LIMITS:** 34 38 50S 149 48 48E, 34 20 25S 150 24 50E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 41 07S 151 02 28E

34 43 56S 151 00 00E, 34 56 07S 150 59 57E

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 19 57S 150 34 29E

35 44 49S 150 37 09E, 35 25 48S 149 38 33E

35 20 06S 149 48 12E,

then along the minor arc of a circle of 30.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 54 58S 149 36 46E

34 42 04S 149 51 19E,

then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 38 50S 149 48 48E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/JERVIS B**

**LATERAL LIMITS:** 34 43 56S 151 00 00E, 34 41 07S 151 02 28E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E

35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E

35 44 49S 150 37 09E, 35 19 57S 150 34 29E

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E

34 43 56S 151 00 00E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/KALANNIE**

**LATERAL LIMITS:** 30 00 00S 112 43 56E, 27 30 00S 112 20 01E

27 41 09S 116 00 00E, 28 00 14S 118 38 07E

28 08 53S 118 45 26E, 29 18 00S 120 00 00E

30 20 17S 118 26 34E, 31 02 15S 117 21 30E

31 08 12S 117 12 07E,

then along the minor arc of a circle of 80.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 36 46S 115 50 14E

30 26 44S 115 50 10E,

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 57 36S 114 38 05E

30 00 13S 113 49 39E, 30 00 00S 112 43 56E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/KATHERINE A**

**LATERAL LIMITS:** 12 26 03S 126 19 25E, 10 20 53S 129 11 21E

then along the minor arc of a circle of 160.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E

10 01 27S 131 39 32E,

then along the minor arc of a circle of 150.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 14 10 15S 132 44 50E

then along the major arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 59 01S 132 10 37E

then along the minor arc of a circle of 170.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E

12 26 03S 126 19 25E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/KATHERINE B**

**LATERAL LIMITS:** 15 15 20S 129 54 33E, 15 05 44S 129 54 21E

then along the minor arc of a circle of 170.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 14 59 01S 132 10 37E

then along the major arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 10 15S 132 44 50E

then along the minor arc of a circle of 150.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 12 02S 133 27 00E  
13 31 12S 134 44 11E,  
then along the major arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY LOW A

**LATERAL LIMITS:** 16 47 15S 144 36 59E, 16 48 58S 145 07 09E  
then along the major arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 44 44S 146 21 36E  
16 48 12S 146 52 20E,

then along the major arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 59E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY LOW B

**LATERAL LIMITS:** 16 41 46S 143 08 34E, 16 47 15S 144 36 59E  
then along the major arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 20E  
16 51 05S 147 18 30E,

then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 45 21S 146 59 48E

18 20 13S 145 29 46E, 18 34 39S 144 46 06E

18 17 48S 143 50 32E, 16 57 54S 143 08 22E

then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY LOW C

**LATERAL LIMITS:** 16 51 05S 147 18 30E, 16 51 30S 147 28 40E  
17 31 28S 147 34 59E, 17 45 21S 146 59 48E  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 51 05S 147 18 30E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KIMBERLEY B

**LATERAL LIMITS:** 14 08 13S 115 08 32E, 12 00 00S 114 30 00E  
12 00 00S 123 20 00E, 12 26 03S 126 19 25E  
17 37 11S 118 45 34E, 14 08 13S 115 08 32E

**VERTICAL LIMITS:** SFC - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/KINGSCOTE

**LATERAL LIMITS:** 35 30 01S 135 00 00E, 35 30 01S 136 49 20E  
35 10 16S 137 50 47E,  
then along the minor arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 32 07S 138 22 30E

36 24 22S 138 05 12E, 36 42 46S 138 05 12E

36 10 04S 135 00 00E, 35 30 01S 135 00 00E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LODDON A

**LATERAL LIMITS:** 36 59 41S 144 24 23E,  
then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 54 35S 144 52 52E  
37 09 36S 144 52 04E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 12 17S 144 34 54E  
36 59 41S 144 24 23E

**VERTICAL LIMITS:** SFC - 7500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LODDON B

**LATERAL LIMITS:** 38 01 46S 144 01 04E,  
then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 59 41S 144 24 23E  
37 12 17S 144 34 54E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 54 04S 144 17 22E  
38 01 46S 144 01 04E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LODDON C

**LATERAL LIMITS:** 38 29 36S 143 00 48E,  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
36 51 13S 144 53 03E, 36 54 35S 144 52 52E

then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 01 46S 144 01 04E  
38 29 36S 143 00 48E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/LODDON D

**LATERAL LIMITS:** 38 29 36S 143 00 48E, 37 54 04S 144 17 22E  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 00 33S 144 23 23E  
38 08 36S 144 21 49E, 38 46 14S 143 15 50E

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 29 36S 143 00 48E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MALLEE A

**LATERAL LIMITS:** 33 20 34S 140 34 10E, 33 00 00S 143 31 00E  
35 05 00S 143 26 12E, 35 05 00S 141 21 38E  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 20 34S 140 34 10E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MALLEE B

**LATERAL LIMITS:** 33 00 00S 143 31 00E, 33 00 00S 144 00 00E  
33 08 00S 144 42 00E, 33 37 00S 145 29 24E  
34 21 00S 145 25 46E, 34 51 56S 145 52 00E  
35 04 06S 146 56 32E, 35 05 21S 146 55 21E  
35 22 30S 146 31 36E, 36 08 13S 145 41 28E

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 01 52S 144 23 25E  
35 05 00S 143 26 12E, 33 00 00S 143 31 00E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MALLEE C

**LATERAL LIMITS:** 35 05 00S 141 21 38E, 35 05 00S 143 26 12E  
36 01 52S 144 23 25E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 54 04S 143 25 39E  
38 54 04S 141 00 00E, 38 54 04S 139 40 00E  
36 40 00S 139 40 00E, 36 28 41S 141 00 00E  
36 06 58S 141 00 00E,

then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 05 00S 141 21 38E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MALLEE D

**LATERAL LIMITS:** 33 34 18S 139 39 53E, 33 01 22S 140 07 05E

then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E  
36 28 41S 141 00 00E, 36 40 00S 139 40 00E  
36 57 30S 139 40 00E, 36 42 46S 138 05 12E  
36 34 40S 138 05 12E,

then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE TMA B

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 38 00 33S 144 23 23E

then along the major arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 55 33S 145 22 36E  
38 05 05S 145 29 30E,

then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 18 53S 144 40 44E  
38 09 07S 144 33 38E,

then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MENZIES

**LATERAL LIMITS:** 29 18 00S 120 00 00E, 26 34 44S 124 00 00E

28 03 46S 124 13 56E, 29 03 08S 124 01 16E  
31 16 00S 123 32 00E, 31 27 10S 121 23 57E  
31 37 31S 120 30 04E, 30 11 36S 120 11 23E  
29 18 00S 120 00 00E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MITCHELL A

**LATERAL LIMITS:** 37 55 33S 145 22 36E,  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 47 08S 145 27 08E  
37 54 48S 146 07 18E,

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
39 08 42S 145 07 34E, 38 30 58S 145 07 38E

38 19 34S 144 53 53E,

then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 05 05S 145 29 30E  
37 55 33S 145 22 36E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MITCHELL B

**LATERAL LIMITS:** 38 46 14S 143 15 50E, 38 08 36S 144 21 49E

38 13 43S 144 20 49E,

then along the minor arc of a circle of 12.00NM radius centred on  
38 02 57S 144 27 33E (AV/DME) to 38 12 47S 144 36 17E

38 18 53S 144 40 44E,

then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 19 34S 144 53 53E  
38 30 58S 145 07 38E, 39 08 42S 145 07 34E  
39 18 49S 145 07 33E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 46 14S 143 15 50E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MITCHELL C

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 38 00 33S 144 23 23E

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 08 38S 144 40 49E  
38 19 34S 144 53 53E,

then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 18 53S 144 40 44E  
38 09 07S 144 33 38E,

then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MITCHELL D

**LATERAL LIMITS:** 38 13 43S 144 20 49E, 38 08 36S 144 21 49E

then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E  
38 12 47S 144 36 17E,

then along the minor arc of a circle of 12.00NM radius centred on  
38 02 57S 144 27 33E (AV/DME) to 38 13 43S 144 20 49E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MITCHELL E

**LATERAL LIMITS:** 38 13 43S 144 20 49E, 38 08 36S 144 21 49E

then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E  
38 12 47S 144 36 17E,

then along the minor arc of a circle of 12.00NM radius centred on  
38 02 57S 144 27 33E (AV/DME) to 38 13 43S 144 20 49E

**VERTICAL LIMITS:** 4500 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia



**YBBB-YMMM/MYALL A**

**LATERAL LIMITS:** 31 26 47S 151 33 04E, 30 41 52S 152 02 20E  
30 49 08S 152 20 33E, 30 40 40S 152 33 47E  
then along the minor arc of a circle of 36.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 55 14S 153 06 05E  
31 09 16S 153 05 46E, 31 08 07S 153 18 23E  
32 53 01S 152 26 31E, 33 30 06S 151 54 31E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 14 18S 150 52 08E  
32 27 28S 151 05 59E, 31 26 47S 151 33 04E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/MYALL B**

**LATERAL LIMITS:** 31 26 47S 151 33 04E, 30 41 52S 152 02 20E  
30 49 08S 152 20 33E, 30 46 02S 152 25 23E  
then along the minor arc of a circle of 45.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 31 04 15S 153 05 53E  
31 09 16S 153 05 46E, 31 08 07S 153 18 23E  
32 53 01S 152 26 31E, 32 50 05S 152 03 59E  
32 40 49S 151 34 15E, 32 36 02S 151 23 51E  
32 27 28S 151 05 59E, 31 26 47S 151 33 04E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NEWELL A**

**LATERAL LIMITS:** 33 18 49S 150 22 53E,  
then along the minor arc of a circle of 55.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 06 18S 150 43 56E  
33 16 11S 150 46 53E,  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E  
33 18 49S 150 22 53E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/NEWELL B**

**LATERAL LIMITS:** 33 08 39S 150 09 42E,  
then along the minor arc of a circle of 70.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 32 51 32S 150 39 33E  
33 06 18S 150 43 56E,  
then along the minor arc of a circle of 55.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 18 49S 150 22 53E  
33 08 39S 150 09 42E

**VERTICAL LIMITS:** SFC - FL155

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NEWELL C**

**LATERAL LIMITS:** 32 33 39S 149 35 37E, 32 09 51S 150 31 51E  
32 31 57S 150 33 47E, 32 51 32S 150 39 33E  
then along the minor arc of a circle of 70.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 08 39S 150 09 42E  
32 37 32S 149 29 53E, 32 33 39S 149 35 37E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NEWELL D**

**LATERAL LIMITS:** 29 00 00S 149 00 00E, 28 29 54S 151 16 32E  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 58 42S 151 47 37E  
29 19 33S 151 28 53E, 30 25 04S 150 52 26E  
30 48 57S 150 49 46E,  
then along the minor arc of a circle of 15.00NM radius centred on  
31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E  
31 39 33S 150 42 42E, 31 50 00S 150 30 07E  
32 09 51S 150 31 51E, 32 33 39S 149 35 37E  
32 37 32S 149 29 53E, 32 21 54S 149 10 09E  
32 05 40S 148 49 51E, 29 20 27S 146 46 41E  
29 08 07S 147 42 57E, 29 00 00S 149 00 00E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NICKEL**

**LATERAL LIMITS:** 21 28 47S 120 21 16E, 19 39 17S 121 07 44E  
20 03 18S 121 40 22E, 21 31 19S 124 33 04E  
23 23 49S 126 03 32E, 26 34 44S 124 00 00E  
29 18 00S 120 00 00E, 28 08 53S 118 45 26E  
28 00 14S 118 38 07E, 25 00 00S 120 15 00E  
21 28 47S 120 21 16E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NULLARBOR B**

**LATERAL LIMITS:** 26 34 44S 124 00 00E, 23 23 49S 126 03 32E  
23 19 20S 127 08 08E, 24 29 09S 128 06 49E  
26 07 08S 128 06 49E, 26 34 25S 128 30 29E  
28 50 26S 130 46 36E, 28 30 11S 131 11 49E  
28 09 51S 131 36 52E, 31 35 00S 135 25 00E  
32 25 45S 135 02 01E, 32 59 42S 135 08 00E  
33 39 49S 134 16 47E, 34 46 18S 135 00 00E  
36 10 04S 135 00 00E, 36 57 30S 139 40 00E  
37 49 05S 139 40 00E, 38 54 04S 139 40 00E  
38 54 04S 141 00 00E, 42 21 00S 141 00 00E  
40 44 46S 135 00 00E, 38 43 55S 129 00 00E  
37 10 38S 125 04 54E, 36 43 12S 120 00 00E  
34 49 56S 120 17 22E, 32 18 57S 120 39 17E  
31 37 31S 120 30 04E, 31 27 10S 121 23 57E  
31 16 00S 123 32 00E, 29 03 08S 124 01 16E  
28 03 46S 124 13 56E, 26 34 44S 124 00 00E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/NULLARBOR C**

**LATERAL LIMITS:** 33 39 49S 134 16 47E, 32 59 42S 135 08 00E  
34 08 11S 135 20 18E, 34 46 18S 135 00 00E  
33 39 49S 134 16 47E

**VERTICAL LIMITS:** FL245 - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/OPAL**

**LATERAL LIMITS:** 30 20 56S 133 59 57E, 31 35 00S 135 25 00E  
31 35 00S 137 50 00E, 31 35 00S 139 00 00E  
32 52 09S 139 48 32E,  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 20 34S 140 34 10E  
33 00 00S 143 31 00E, 31 47 54S 143 31 00E  
31 00 00S 142 48 44E, 29 53 53S 142 40 54E

29 00 00S 143 30 00E, 28 01 21S 141 37 47E  
 26 13 31S 138 23 24E, 28 00 00S 138 00 00E  
 29 00 00S 136 49 51E, 29 05 21S 136 39 00E  
 30 20 56S 133 59 57E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/OVENS A

**LATERAL LIMITS:** 36 30 45S 145 41 37E, 36 12 07S 145 51 12E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 37 17 30S 146 53 03E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 37 26 42S 146 29 49E  
 then along the minor arc of a circle of 80.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 30 45S 145 41 37E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/OVENS B

**LATERAL LIMITS:** 35 36 33S 146 16 20E, 35 54 01S 146 42 39E  
 then along the minor arc of a circle of 16.00NM radius centred on  
 36 04 05S 146 57 58E (AY/DME) to 36 03 06S 147 17 40E  
 36 07 04S 148 14 00E, 37 22 37S 147 40 33E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 37 17 30S 146 53 03E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
 35 36 33S 146 16 20E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/OVENS C

**LATERAL LIMITS:** 36 24 04S 145 23 46E, 36 08 13S 145 41 28E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E  
 36 30 45S 145 41 37E,  
 then along the minor arc of a circle of 80.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 24 04S 145 23 46E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/OVENS D

**LATERAL LIMITS:** 35 36 33S 146 16 20E, 35 54 01S 146 42 39E  
 36 04 05S 146 57 58E, 36 03 06S 147 17 40E  
 36 07 04S 148 14 00E, 37 22 37S 147 40 33E  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 37 17 30S 146 53 03E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
 35 36 33S 146 16 20E

**VERTICAL LIMITS:** 8500 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/PERTH APPROACH

**LATERAL LIMITS:** A circle of 36.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME)

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/PLUTONIC

**LATERAL LIMITS:** 27 43 20S 116 16 48E, 25 00 00S 116 32 41E  
 25 00 00S 120 15 00E, 28 00 14S 118 38 07E  
 27 43 20S 116 16 48E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/PRAWN

**LATERAL LIMITS:** 15 42 12S 137 12 54E, 15 08 36S 138 20 42E  
 14 56 29S 138 52 36E, 15 00 00S 140 00 00E  
 15 30 25S 141 43 29E, 16 03 03S 143 16 41E  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 57 54S 143 08 22E  
 18 17 48S 143 50 32E, 19 05 00S 142 50 00E  
 20 01 56S 141 07 40E,  
 then along the minor arc of a circle of 100.00NM radius centred on  
 20 39 53S 139 29 09E (MA/DME) to 19 22 34S 140 36 52E  
 19 05 23S 140 05 10E, 19 01 14S 137 40 20E  
 17 20 18S 137 09 18E, 15 42 12S 137 12 54E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/SANDON A

**LATERAL LIMITS:** 32 31 57S 150 33 47E, 33 16 11S 150 46 53E  
 then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 14 18S 150 52 08E  
 32 27 28S 151 05 59E, 32 26 34S 151 04 08E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 32 31 57S 150 33 47E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/SANDON B

**LATERAL LIMITS:** 29 49 03S 151 12 35E, 30 26 19S 151 40 09E  
 30 28 21S 151 43 02E, 30 41 52S 152 02 20E  
 31 26 47S 151 33 04E, 32 27 28S 151 05 59E  
 32 26 34S 151 04 08E,  
 then along the minor arc of a circle of 90.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 32 31 57S 150 33 47E  
 31 50 00S 150 30 07E, 31 39 33S 150 42 42E  
 31 18 48S 150 46 50E,  
 then along the minor arc of a circle of 15.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 30 48 57S 150 49 46E  
 30 25 04S 150 52 26E, 29 49 03S 151 12 35E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SNOWY A

**LATERAL LIMITS:** 37 26 42S 146 29 49E,  
 then along the minor arc of a circle of 50.00NM radius centred on  
 38 05 56S 147 08 58E (YMES/AD) to 38 27 32S 146 11 41E

then along the minor arc of a circle of 80.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 37 26 42S 146 29 49E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SNOWY B

**LATERAL LIMITS:** 37 26 42S 146 29 49E,

then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 37 17 30S 146 53 03E  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 38 27 32S 146 11 41E  
then along the minor arc of a circle of 80.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 37 26 42S 146 29 49E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SNOWY C

**LATERAL LIMITS:** 37 17 30S 146 53 03E,

then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 37 22 37S 147 40 33E  
then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 38 12 41S 148 11 47E  
then along the minor arc of a circle of 162.60NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 39 19 33S 147 33 51E  
38 55 15S 147 19 54E,  
then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 37 17 30S 146 53 03E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SNOWY D

**LATERAL LIMITS:** 35 45 49S 149 01 48E, 35 33 27S 149 25 31E

35 25 48S 149 38 33E, 35 44 49S 150 37 09E

36 36 46S 150 42 49E,

then along the minor arc of a circle of 100.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 35 51 25S 148 49 18E

35 45 49S 149 01 48E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/SNOWY E

**LATERAL LIMITS:** 36 07 04S 148 14 00E, 35 51 25S 148 49 18E

then along the minor arc of a circle of 100.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 36 36 46S 150 42 49E

36 56 43S 150 45 03E, 38 00 00S 150 23 12E

38 11 19S 150 19 14E, 40 00 00S 150 33 54E

40 34 02S 150 38 39E, 40 00 02S 148 37 58E

then along the minor arc of a circle of 30.00NM radius centred on

40 05 29S 147 59 34E (YFLI/AD) to 39 37 48S 147 44 28E

39 19 33S 147 33 51E,

then along the minor arc of a circle of 162.60NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 12 41S 148 11 47E

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 37 22 37S 147 40 33E

36 07 04S 148 14 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SPENCER

**LATERAL LIMITS:** 31 35 00S 135 25 00E, 31 35 00S 137 50 00E

31 35 00S 139 00 00E, 32 52 09S 139 48 32E

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 01 22S 140 07 05E

33 34 18S 139 39 53E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 20 07S 138 00 03E

33 29 41S 138 03 36E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 30 01S 136 49 20E

35 30 01S 135 00 00E, 34 46 18S 135 00 00E

33 39 49S 134 16 47E, 32 59 42S 135 08 00E

32 25 45S 135 02 01E, 31 35 00S 135 25 00E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SPENCER A

**LATERAL LIMITS:** 31 35 00S 135 25 00E, 31 35 00S 137 50 00E

31 35 00S 139 00 00E, 32 52 09S 139 48 32E

32 09 50S 137 26 18E,

then along the minor arc of a circle of 20.00NM radius centred on

32 28 40S 137 18 14E (OJJAY/WPT) to 32 10 04S 137 09 27E

32 38 24S 135 44 39E, 32 59 42S 135 08 00E

32 25 45S 135 02 01E, 31 35 00S 135 25 00E

**VERTICAL LIMITS:** FL245 - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SPENCER B

**LATERAL LIMITS:** 35 30 01S 136 49 20E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 42 46S 139 33 28E

34 16 35S 139 07 33E,

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 08 00S 138 17 55E

34 21 27S 138 22 59E,

then along the minor arc of a circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 10 16S 137 50 47E

35 30 01S 136 49 20E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/SPENCER C

**LATERAL LIMITS:** 33 20 07S 138 00 03E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

33 42 46S 139 33 28E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E

33 20 07S 138 00 03E

**VERTICAL LIMITS:** SFC - 9500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/SUNSHINE

**LATERAL LIMITS:** 27 12 00S 152 36 35E,

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 35 19S 153 38 35E

27 44 36S 154 00 00E, 28 24 39S 154 00 00E  
then along the minor arc of a circle of 30.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 28 27S 153 03 16E  
28 26 13S 152 36 35E,  
then along the minor arc of a circle of 70.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 19 11S 152 22 38E  
27 53 24S 152 45 11E, 27 47 06S 152 49 49E  
27 44 13S 152 51 55E, 27 42 34S 152 52 59E  
27 13 25S 152 41 03E, 27 12 00S 152 36 35E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TABLETOP LOW A

**LATERAL LIMITS:** 18 20 13S 145 29 46E, 17 45 21S 146 59 48E  
17 31 28S 147 34 59E, 18 00 30S 147 39 36E

then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 13 56S 147 55 42E  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 18 53 25S 147 16 14E  
then along the major arc of a circle of 36.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 19 44 38S 146 24 12E  
20 43 43S 147 01 35E,

then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 20 13S 145 29 46E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TABLETOP LOW B

**LATERAL LIMITS:** 16 51 30S 147 28 40E, 16 58 17S 151 04 31E  
18 40 27S 151 00 35E, 19 16 13S 151 10 44E

19 21 25S 148 42 02E, 18 26 56S 148 06 03E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 13 56S 147 55 42E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 00 30S 147 39 36E  
16 51 30S 147 28 40E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TABLETOP LOW C

**LATERAL LIMITS:** 18 53 25S 147 16 14E,  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 18 13 56S 147 55 42E

then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 26 56S 148 06 03E  
19 21 25S 148 42 02E, 19 22 01S 148 20 20E

then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 20 43 43S 147 01 35E  
19 44 38S 146 24 12E,

then along the minor arc of a circle of 36.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 53 25S 147 16 14E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/TEMORA A

**LATERAL LIMITS:** 32 47 00S 145 53 42E, 32 51 02S 146 47 12E  
32 56 07S 148 03 26E, 33 17 56S 147 48 50E

34 29 18S 148 09 16E,  
then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E  
34 57 44S 147 02 32E, 35 04 06S 146 56 32E

34 51 56S 145 52 00E, 34 21 00S 145 25 46E  
33 37 00S 145 29 24E, 33 11 36S 145 31 23E  
32 47 00S 145 53 42E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/TEMORA B

**LATERAL LIMITS:** 33 11 36S 145 31 23E, 32 57 11S 146 15 43E

33 17 56S 147 48 50E, 34 29 18S 148 09 16E  
then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E  
34 57 44S 147 02 32E, 35 04 06S 146 56 32E  
34 51 56S 145 52 00E, 34 21 00S 145 25 46E  
33 37 00S 145 29 24E, 33 11 36S 145 31 23E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/TODD

**LATERAL LIMITS:** 23 19 20S 127 08 08E, 23 13 13S 128 27 49E

21 12 09S 131 50 24E, 21 29 59S 136 19 44E  
21 51 32S 136 22 25E, 22 17 51S 136 38 07E  
26 13 31S 138 23 24E, 28 00 00S 138 00 00E  
29 00 00S 136 49 51E, 29 05 21S 136 39 00E  
30 20 56S 133 59 57E, 28 09 51S 131 36 52E  
28 30 11S 131 11 49E, 28 50 26S 130 46 36E  
26 34 25S 128 30 29E, 26 07 08S 128 06 49E  
24 29 09S 128 06 49E, 23 19 20S 127 08 08E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/TOWNSVILLE APPROACH

**LATERAL LIMITS:** A circle of 36.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** JO 1930-1200

JF 2000-1200

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF

#### YBBB/WHITSUNDAY

**LATERAL LIMITS:** 20 37 58S 146 08 32E,

then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 19 22 01S 148 20 20E  
19 16 13S 151 10 44E, 21 39 12S 151 52 08E  
22 06 00S 150 45 00E, 22 06 00S 150 30 00E  
22 12 34S 150 25 27E, 22 15 00S 150 20 00E  
22 17 00S 150 12 00E, 22 14 32S 150 00 42E  
22 21 30S 149 51 54E, 22 28 48S 149 35 00E  
22 48 42S 149 09 24E, 22 52 45S 148 17 40E  
22 33 00S 147 44 50E, 21 43 30S 146 06 56E  
21 26 57S 145 46 28E, 20 37 58S 146 08 32E

**VERTICAL LIMITS:** SFC - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YASS

**LATERAL LIMITS:** 34 50 49S 147 47 58E, 34 50 04S 147 52 58E

then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E  
33 59 41S 149 34 44E,  
then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E  
34 54 58S 149 36 46E,  
then along the minor arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 52 00S 149 32 14E  
34 52 32S 149 06 00E, 34 56 18S 148 59 22E  
35 09 20S 148 36 19E, 34 50 49S 147 47 58E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**NOTES**

## SECTION 10 - ATC SECTORS HIGH/LOW

### YBBB-YMMM/ALICE SPRINGS

**LATERAL LIMITS:** 23 19 20S 127 08 08E, 23 13 13S 128 27 49E

21 12 09S 131 50 24E, 21 29 59S 136 19 44E

21 51 32S 136 22 25E, 22 17 51S 136 38 07E

26 13 31S 138 23 24E, 28 00 00S 138 00 00E

29 00 00S 136 49 51E, 29 05 21S 136 39 00E

30 20 56S 133 59 57E, 28 09 51S 131 36 52E

28 30 11S 131 11 49E, 28 50 26S 130 46 36E

26 34 25S 128 30 29E, 26 07 08S 128 06 49E

24 29 09S 128 06 49E, 23 19 20S 127 08 08E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ARAFURA

**LATERAL LIMITS:** 07 23 38S 133 40 00E, 07 00 00S 135 00 00E

07 36 54S 136 00 00E, 09 50 00S 139 40 00E

09 50 00S 141 00 00E, 09 37 00S 141 01 06E

09 15 42S 142 03 30E,

then along QLD/PNG border to 09 19 24S 142 48 18E

09 08 00S 143 52 30E, 09 24 00S 144 14 00E

09 56 34S 144 05 21E,

then along the Barrier Reef to 11 30 00S 144 01 36E

11 43 30S 144 04 20E, 12 00 00S 144 00 00E

12 00 00S 148 34 24E, 16 09 59S 151 06 21E

16 58 17S 151 04 31E, 16 51 30S 147 28 40E

14 44 19S 147 08 50E,

then along the minor arc of a circle of 150.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 03 03S 143 16 41E

15 30 25S 141 43 29E, 15 00 00S 140 00 00E

14 56 29S 138 52 36E, 15 08 36S 138 20 42E

15 42 12S 137 12 54E, 16 35 57S 137 10 56E

15 46 48S 136 30 51E, 14 42 16S 134 56 58E

then along the minor arc of a circle of 150.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 13 56 01S 134 52 50E

then along the minor arc of a circle of 150.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 13 31 12S 134 44 11E

12 12 02S 133 27 00E,

then along the minor arc of a circle of 150.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E

then along the minor arc of a circle of 150.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 10 01 27S 131 39 32E

09 48 39S 131 30 25E, 08 19 24S 130 27 16E

07 23 38S 133 40 00E

**VERTICAL LIMITS:** FL285 - FL600

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ARAFURA B

**LATERAL LIMITS:** 07 23 38S 133 40 00E, 07 00 00S 135 00 00E

07 36 54S 136 00 00E, 09 50 00S 139 40 00E

09 50 00S 131 35 58E,

then along the minor arc of a circle of 160.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E

08 19 24S 130 27 16E, 07 23 38S 133 40 00E

**VERTICAL LIMITS:** SFC - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/ARMIDALE

**LATERAL LIMITS:** 31 38 06S 150 29 05E, 30 28 21S 151 43 02E

30 41 52S 152 02 20E, 32 36 02S 151 23 51E

32 26 34S 151 04 08E,

then along the minor arc of a circle of 90.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 31 57S 150 33 47E

32 09 51S 150 31 51E, 31 38 06S 150 29 05E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AUGUSTA HIGH A

**LATERAL LIMITS:** 35 30 01S 136 49 20E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 42 46S 139 33 28E

34 16 35S 139 07 33E,

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 08 00S 138 17 55E

34 21 27S 138 22 59E,

then along the minor arc of a circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 10 16S 137 50 47E

35 30 01S 136 49 20E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AUGUSTA HIGH B

**LATERAL LIMITS:** 33 20 07S 138 00 03E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

33 42 46S 139 33 28E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E

33 20 07S 138 00 03E

**VERTICAL LIMITS:** 9500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AUGUSTA HIGH C

**LATERAL LIMITS:** 32 59 42S 135 08 00E, 32 38 24S 135 44 39E

32 10 04S 137 09 27E,

then along the minor arc of a circle of 20.00NM radius centred on

32 28 40S 137 18 14E (OJJAY/WPT) to 32 09 50S 137 26 18E

32 52 09S 139 48 32E,

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 01 22S 140 07 05E

33 34 18S 139 39 53E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 20 07S 138 00 03E

33 29 41S 138 03 36E,

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 30 01S 136 49 20E

35 30 01S 135 00 00E, 34 46 18S 135 00 00E

34 08 11S 135 20 18E, 32 59 42S 135 08 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/AUGUSTA HIGH CAP

**LATERAL LIMITS:** 34 08 00S 138 17 55E,

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 16 35S 139 07 33E

34 36 00S 138 52 30E, 34 56 49S 138 31 28E

35 10 16S 137 50 47E,

then along the minor arc of a circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 21 27S 138 22 59E

34 08 00S 138 17 55E

**VERTICAL LIMITS:** FL245 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BARRA A**

**LATERAL LIMITS:** 16 48 58S 145 07 09E,  
then along the minor arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 44 44S 146 21 36E  
16 42 56S 146 05 59E,  
then along the minor arc of a circle of 22.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 49 47S 145 21 44E  
16 48 58S 145 07 09E

**VERTICAL LIMITS:** FL180 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BARRA B**

**LATERAL LIMITS:** 16 47 15S 144 36 59E,  
then along the minor arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 20E  
16 44 44S 146 21 36E,  
then along the minor arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 48 58S 145 07 09E  
16 47 15S 144 36 59E

**VERTICAL LIMITS:** Base of CTA - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BARRA C**

**LATERAL LIMITS:** 16 45 42S 144 10 59E,  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 51 05S 147 18 30E  
16 48 12S 146 52 20E,  
then along the minor arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 59E  
16 45 42S 144 10 59E

**VERTICAL LIMITS:** 8500 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BARRA D**

**LATERAL LIMITS:** 16 43 46S 143 39 47E,  
then along the minor arc of a circle of 120.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 15 28 42S 147 15 42E  
16 51 30S 147 28 40E, 16 51 05S 147 18 30E  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 45 42S 144 10 59E  
16 43 46S 143 39 47E

**VERTICAL LIMITS:** FL180 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BARRA E**

**LATERAL LIMITS:** 16 41 46S 143 08 34E,  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 14 44 19S 147 08 50E  
15 28 42S 147 15 42E,  
then along the minor arc of a circle of 120.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 43 46S 143 39 47E  
16 41 46S 143 08 34E

**VERTICAL LIMITS:** FL180 - FL600  
**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/BENALLA**

**LATERAL LIMITS:** 34 57 44S 147 02 32E, 34 50 49S 147 47 58E  
35 20 57S 148 16 17E, 35 17 41S 148 58 21E  
then along the minor arc of a circle of 11.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 25 40S 149 03 37E  
35 45 49S 149 01 48E, 36 07 04S 148 14 00E  
37 22 37S 147 40 33E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 12 41S 148 11 47E  
38 05 56S 147 08 58E, 38 03 16S 146 53 14E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
35 36 33S 146 16 20E, 35 22 30S 146 31 36E  
35 05 21S 146 55 21E, 34 57 44S 147 02 32E

**VERTICAL LIMITS:** FL245 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/BILLABONG**

**LATERAL LIMITS:** 27 30 00S 112 20 01E, 23 30 00S 111 44 17E  
23 30 00S 116 00 00E, 23 10 21S 117 44 13E  
23 25 16S 119 48 11E, 23 35 17S 120 17 25E  
25 00 00S 121 12 00E, 26 34 44S 124 00 00E  
29 18 00S 120 00 00E, 28 08 53S 118 45 26E  
28 00 14S 118 38 07E, 27 41 09S 116 00 00E  
27 30 00S 112 20 01E

**VERTICAL LIMITS:** FL285 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/BINDOOK A**

**LATERAL LIMITS:** 33 50 51S 149 34 59E, 33 47 37S 149 52 55E  
33 50 34S 150 17 16E,  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 20 25S 150 24 50E  
34 38 50S 149 48 48E,  
then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 50 51S 149 34 59E

**VERTICAL LIMITS:** 8500 - FL600  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/BINDOOK B**

**LATERAL LIMITS:** 34 02 50S 149 22 44E, 33 59 41S 149 34 44E  
then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E  
34 47 38S 149 45 03E,  
then along the minor arc of a circle of 40.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 37 30S 149 20 42E  
then along the minor arc of a circle of 100.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 20S 149 16 29E  
34 02 50S 149 22 44E

**VERTICAL LIMITS:** FL200 - FL245  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/BINDOOK/SYDNEY CAP**

**LATERAL LIMITS:** 33 54 32S 150 52 59E, 33 50 34S 150 17 16E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 20 25S 150 24 50E  
34 04 29S 150 55 30E,



then along the minor arc of a circle of 15.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 33 54 32S 150 52 59E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BOURKE

**LATERAL LIMITS:** 29 00 00S 143 30 00E, 29 53 53S 142 40 54E

31 00 00S 142 48 44E, 31 47 54S 143 31 00E

33 00 00S 143 31 00E, 33 00 00S 144 00 00E

33 08 00S 144 42 00E, 33 37 00S 145 29 24E

33 11 36S 145 31 23E, 32 57 11S 146 15 43E

33 17 56S 147 48 50E, 32 56 07S 148 03 26E

32 38 09S 148 15 22E, 32 13 10S 148 34 40E

32 05 40S 148 49 51E, 29 00 00S 146 32 00E

29 00 00S 143 30 00E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE APPROACH BRISBANE

**LATERAL LIMITS:** 27 13 25S 152 41 03E, 27 12 00S 152 36 35E

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 47 06S 152 49 49E

27 44 13S 152 51 55E, 27 42 34S 152 52 59E

27 13 25S 152 41 03E

**VERTICAL LIMITS:** Base of CTA - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE APPROACH GOLD COAST A

**LATERAL LIMITS:** 27 57 09S 153 17 23E, 27 51 48S 153 12 40E

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 35 19S 153 38 35E

27 36 41S 153 41 44E, 27 42 53S 153 44 34E

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 51 20S 153 56 42E

28 10 08S 153 30 14E, 28 13 30S 153 18 49E

28 04 00S 153 21 17E, 27 57 09S 153 17 23E

**VERTICAL LIMITS:** Base of CTA - 6500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE APPROACH GOLD COAST B

**LATERAL LIMITS:** 28 28 27S 153 03 16E, 28 17 12S 153 06 10E

28 13 30S 153 18 49E, 28 10 08S 153 30 14E

27 51 20S 153 56 42E,

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 55 44S 154 00 00E

28 24 39S 154 00 00E,

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 28 27S 153 03 16E

**VERTICAL LIMITS:** Base of CTA - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BURNETT A

**LATERAL LIMITS:** 26 39 16S 152 06 08E, 26 21 06S 151 54 05E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 04 31S 154 00 00E

26 37 23S 154 00 00E, 27 01 07S 153 32 38E

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 12 00S 152 36 35E

27 05 15S 152 15 28E, 26 39 16S 152 06 08E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BURNETT B

**LATERAL LIMITS:** 27 13 25S 152 41 03E, 27 12 00S 152 36 35E

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 35 19S 153 38 35E

27 21 58S 153 08 21E, 27 34 13S 153 00 58E

27 37 03S 152 50 42E, 27 13 25S 152 41 03E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BURNETT C

**LATERAL LIMITS:** 26 41 15S 151 01 54E,

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 01 51S 151 28 21E

26 21 06S 151 54 05E, 26 39 16S 152 06 08E

27 05 15S 152 15 28E, 26 51 37S 151 33 22E

26 41 15S 151 01 54E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BURNETT D

**LATERAL LIMITS:** 26 01 51S 151 28 21E,

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 22 05S 152 56 24E

25 52 15S 153 19 26E,

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 21 06S 151 54 05E

26 01 51S 151 28 21E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANBERRA TMA

**LATERAL LIMITS:** 35 09 20S 148 36 19E, 34 52 32S 149 06 00E

34 52 00S 149 32 14E,

then along the minor arc of a circle of 30.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 20 06S 149 48 12E

35 33 27S 149 25 31E, 35 45 49S 149 01 48E

then along the minor arc of a circle of 30.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 09 20S 148 36 19E

**VERTICAL LIMITS:** Base of CTA - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/CANTY A

**LATERAL LIMITS:** 33 20 34S 140 34 10E, 33 00 00S 143 31 00E

35 05 00S 143 26 12E, 35 05 00S 141 21 38E

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 20 34S 140 34 10E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/CANTY B****LATERAL LIMITS:** 33 00 00S 143 31 00E, 33 00 00S 144 00 00E

33 08 00S 144 42 00E, 33 37 00S 145 29 24E

34 21 00S 145 25 46E, 34 51 56S 145 52 00E

35 04 06S 146 56 32E, 35 05 21S 146 55 21E

35 22 30S 146 31 36E, 36 08 13S 145 41 28E

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 01 52S 144 23 25E

35 05 00S 143 26 12E, 33 00 00S 143 31 00E

**VERTICAL LIMITS:** FL245 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/CANTY C****LATERAL LIMITS:** 35 05 00S 141 21 38E, 35 05 00S 143 26 12E

36 01 52S 144 23 25E,

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 54 04S 143 25 39E

38 54 04S 141 00 00E, 38 54 04S 139 40 00E

36 40 00S 139 40 00E, 36 28 41S 141 00 00E

36 06 58S 141 00 00E,

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 05 00S 141 21 38E

**VERTICAL LIMITS:** FL245 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/CARNARVON****LATERAL LIMITS:** 21 26 57S 145 46 28E, 21 43 30S 146 06 56E

22 33 00S 147 44 50E, 22 52 45S 148 17 40E

22 48 42S 149 09 24E, 23 05 40S 149 20 16E

23 10 00S 149 35 00E, 24 38 10S 150 20 30E

26 30 45S 150 30 32E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 37 45S 150 41 59E

29 00 00S 149 00 00E, 29 08 07S 147 42 57E

25 50 45S 147 30 00E, 22 58 59S 145 52 31E

22 01 17S 145 47 51E, 21 51 14S 145 35 26E

21 26 57S 145 46 28E

**VERTICAL LIMITS:** FL285 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/CESSNOCK****LATERAL LIMITS:** 32 31 57S 150 33 47E, 33 16 11S 150 46 53E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 12 03S 151 19 18E

32 47 28S 151 24 14E, 32 36 02S 151 23 51E

32 27 28S 151 05 59E, 32 26 34S 151 04 08E

then along the minor arc of a circle of 90.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 16 11S 150 46 53E

**VERTICAL LIMITS:** 8500 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/CESSNOCK/SYDNEY CAP****LATERAL LIMITS:** 33 31 39S 150 59 47E, 33 14 17S 150 52 09E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 12 03S 151 19 18E

33 41 44S 151 13 41E, 33 39 38S 151 00 33E

then along the minor arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 31 39S 150 59 47E

**VERTICAL LIMITS:** FL280 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/CORAL****LATERAL LIMITS:** 12 00 00S 148 34 24E, 12 00 00S 155 00 00E

14 00 00S 155 00 00E, 14 00 00S 161 15 00E

16 58 17S 162 39 45E, 16 58 17S 151 04 31E

16 09 59S 151 06 21E, 12 00 00S 148 34 24E

**VERTICAL LIMITS:** SFC - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/DALLY****LATERAL LIMITS:** 31 43 53S 115 18 04E, 30 00 13S 113 49 39E

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 20 17S 118 26 34E

31 02 15S 117 21 30E,

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 28 02S 116 16 47E

31 21 14S 116 05 19E,

then along the minor arc of a circle of 36.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 43 53S 115 18 04E

**VERTICAL LIMITS:** Base of CTA - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/DOWNS A****LATERAL LIMITS:** 26 41 15S 151 01 54E, 26 51 37S 151 33 22E

27 05 15S 152 15 28E, 27 12 00S 152 36 35E

27 13 25S 152 41 03E, 27 42 34S 152 52 59E

27 44 13S 152 51 55E, 27 53 24S 152 45 11E

28 58 42S 151 47 37E,

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E

**VERTICAL LIMITS:** SFC - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/DOWNS B****LATERAL LIMITS:** 25 45 00S 154 00 00E, 25 06 43S 154 21 26E

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 29 49 13S 153 42 58E

28 29 50S 154 00 00E, 27 44 36S 154 00 00E

27 35 19S 153 38 35E,

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 01 07S 153 32 38E

26 37 23S 154 00 00E, 25 45 00S 154 00 00E

**VERTICAL LIMITS:** SFC - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/DOWNS D****LATERAL LIMITS:** 26 30 45S 150 30 32E, 26 41 15S 151 01 54E

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 58 42S 151 47 37E

29 19 33S 151 28 53E, 29 22 48S 151 27 06E

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 30 45S 150 30 32E

**VERTICAL LIMITS:** FL245 - FL600**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/EILDON WEIR HIGH A**

**LATERAL LIMITS:** 37 29 36S 144 50 58E, 37 09 36S 144 52 04E  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 47 08S 145 27 08E  
37 42 20S 145 02 39E,

then along the major arc of a circle of 10.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 29 36S 144 50 58E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/EILDON WEIR HIGH B**

**LATERAL LIMITS:** 36 51 13S 144 53 03E, 36 24 04S 145 23 46E  
then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 58 46S 146 28 34E  
37 47 08S 145 27 08E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 09 36S 144 52 04E  
36 51 13S 144 53 03E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/EILDON WEIR HIGH C**

**LATERAL LIMITS:** 36 24 04S 145 23 46E, 36 08 13S 145 41 28E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 03 16S 146 53 14E  
37 58 46S 146 28 34E,

then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 24 04S 145 23 46E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/FLINDERS**

**LATERAL LIMITS:** 16 58 17S 151 04 31E, 16 58 17S 162 39 45E  
17 40 00S 163 00 00E, 26 48 59S 163 00 00E  
26 57 38S 155 54 19E,

then along the minor arc of a circle of 150.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 24 58 55S 154 00 00E

23 13 18S 153 14 30E, 22 15 21S 152 02 50E

21 39 12S 151 52 08E, 19 16 13S 151 10 44E

18 40 27S 151 00 35E, 16 58 17S 151 04 31E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST A**

**LATERAL LIMITS:** 28 28 27S 153 03 16E, 28 17 12S 153 06 10E  
28 13 30S 153 18 49E, 28 10 08S 153 30 14E  
27 51 20S 153 56 42E,

then along the minor arc of a circle of 30.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 27 55 44S 154 00 00E

28 24 39S 154 00 00E,

then along the minor arc of a circle of 30.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 28 27S 153 03 16E

**VERTICAL LIMITS:** FL125 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST B**

**LATERAL LIMITS:** 27 34 13S 153 00 58E, 27 21 58S 153 08 21E

27 35 19S 153 38 35E,

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 47 06S 152 49 49E

27 44 13S 152 51 55E, 27 42 34S 152 52 59E

27 37 03S 152 50 42E, 27 34 13S 153 00 58E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST C**

**LATERAL LIMITS:** 28 17 12S 153 06 10E, 27 51 48S 153 12 40E

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 35 19S 153 38 35E

27 36 41S 153 41 44E, 27 42 53S 153 44 34E

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 51 20S 153 56 42E

28 10 08S 153 30 14E, 28 13 30S 153 18 49E

28 17 12S 153 06 10E

**VERTICAL LIMITS:** 6500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST D**

**LATERAL LIMITS:** 27 47 06S 152 49 49E,

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 51 48S 153 12 40E

28 28 27S 153 03 16E, 28 26 13S 152 36 35E

then along the minor arc of a circle of 70.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 19 11S 152 22 38E

27 53 24S 152 45 11E, 27 47 06S 152 49 49E

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST E**

**LATERAL LIMITS:** 27 42 53S 153 44 34E, 27 36 41S 153 41 44E

27 44 36S 154 00 00E, 27 55 44S 154 00 00E

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 51 20S 153 56 42E

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 27 42 53S 153 44 34E

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/GOLD COAST F**

**LATERAL LIMITS:** 28 26 13S 152 36 35E, 28 28 27S 153 03 16E

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 24 39S 154 00 00E

28 29 50S 154 00 00E, 28 55 26S 153 54 34E

then along the minor arc of a circle of 50.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 26 13S 152 36 35E

**VERTICAL LIMITS:** FL125 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/GRIFFITH**

**LATERAL LIMITS:** 33 11 36S 145 31 23E, 32 57 11S 146 15 43E

33 17 56S 147 48 50E, 34 29 18S 148 09 16E

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E

34 57 44S 147 02 32E, 35 04 06S 146 56 32E

34 51 56S 145 52 00E, 34 21 00S 145 25 46E

33 37 00S 145 29 24E, 33 11 36S 145 31 23E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/GROVE

**LATERAL LIMITS:** 30 00 00S 112 43 56E, 27 30 00S 112 20 01E

27 41 09S 116 00 00E, 28 00 14S 118 38 07E

28 08 53S 118 45 26E, 29 18 00S 120 00 00E

30 20 17S 118 26 34E,

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 00 13S 113 49 39E

30 00 00S 112 43 56E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/GUNDAGAI A

**LATERAL LIMITS:** 34 50 04S 147 52 58E,

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E

33 59 41S 149 34 44E,

then along the minor arc of a circle of 80.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E

34 54 58S 149 36 46E, 35 08 52S 149 20 57E

then along the minor arc of a circle of 11.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 17 41S 148 58 21E

35 20 57S 148 16 17E, 34 50 49S 147 47 58E

34 50 04S 147 52 58E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/GUNNEDAH

**LATERAL LIMITS:** 29 57 15S 150 53 51E, 29 49 03S 151 12 35E

30 26 19S 151 40 09E, 30 28 21S 151 43 02E

31 38 06S 150 29 05E, 31 24 47S 150 21 17E

31 04 48S 150 09 38E, 30 50 15S 150 04 38E

29 57 15S 150 53 51E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/HYDEN

**LATERAL LIMITS:** 31 02 15S 117 21 30E, 30 20 17S 118 26 34E

29 18 00S 120 00 00E, 29 38 08S 120 04 15E

29 48 29S 120 06 27E, 30 11 36S 120 11 23E

31 37 31S 120 30 04E, 32 18 57S 120 39 17E

34 49 56S 120 17 22E, 33 54 00S 118 31 00E

32 55 50S 117 17 52E,

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 02 15S 117 21 30E

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/INDIAN

**LATERAL LIMITS:** 02 00 00S 078 00 00E, 02 00 00S 092 00 00E

12 00 00S 107 00 00E, 12 00 00S 114 30 00E

14 08 13S 115 08 32E, 17 37 11S 118 45 34E

18 47 59S 115 33 44E, 19 30 36S 113 31 23E

21 50 00S 111 30 00E, 27 30 00S 112 20 01E

31 15 48S 112 56 25E,

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 34 11 13S 114 13 59E

36 25 00S 116 40 00E, 36 43 12S 120 00 00E

90 00 00S 135 00 00E, 06 00 00S 075 00 00E

02 00 00S 078 00 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/INDIAN SOUTH

**LATERAL LIMITS:** 36 43 12S 120 00 00E, 37 10 38S 125 04 54E

42 21 00S 141 00 00E, 45 00 00S 141 00 00E

45 00 00S 150 00 00E, 45 00 00S 163 00 00E

90 00 00S 135 00 00E, 36 43 12S 120 00 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/INVERELL A

**LATERAL LIMITS:** 28 43 14S 152 01 23E, 28 24 06S 152 18 19E

then along the minor arc of a circle of 65.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 54 02S 152 35 42E

29 26 36S 152 47 31E,

then along the minor arc of a circle of 85.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 29 34 11S 153 46 14E

30 09 54S 153 38 28E, 30 41 52S 152 02 20E

30 28 21S 151 43 02E, 30 26 19S 151 40 09E

29 49 03S 151 12 35E, 29 19 33S 151 28 53E

28 43 14S 152 01 23E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/INVERELL B

**LATERAL LIMITS:** 28 54 02S 152 35 42E,

then along the minor arc of a circle of 65.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 29 12 43S 153 50 52E

29 34 11S 153 46 14E,

then along the minor arc of a circle of 85.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 29 26 36S 152 47 31E

28 54 02S 152 35 42E

**VERTICAL LIMITS:** FL155 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/INVERELL C

**LATERAL LIMITS:** 28 24 06S 152 18 19E, 28 19 11S 152 22 38E

then along the minor arc of a circle of 70.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 26 13S 152 36 35E

then along the minor arc of a circle of 50.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 55 26S 153 54 34E

29 12 43S 153 50 52E,

then along the minor arc of a circle of 65.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 24 06S 152 18 19E

**VERTICAL LIMITS:** FL125 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/ISA

**LATERAL LIMITS:** 14 56 29S 138 52 36E, 15 00 00S 140 00 00E

15 30 25S 141 43 29E, 16 03 03S 143 16 41E

then along the minor arc of a circle of 150.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E

then along the minor arc of a circle of 150.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 57 54S 143 08 22E  
 18 17 48S 143 50 32E, 18 49 22S 144 07 24E  
 19 25 53S 144 27 04E, 20 11 58S 144 53 36E  
 21 26 57S 145 46 28E, 21 51 14S 145 35 26E  
 21 43 33S 145 25 58E, 21 43 42S 143 53 44E  
 22 08 25S 142 57 53E, 23 10 00S 140 46 17E  
 23 10 00S 137 00 50E, 22 17 51S 136 38 07E  
 21 51 32S 136 22 25E, 20 43 56S 136 14 02E  
 19 01 14S 137 40 20E, 17 20 18S 137 09 18E  
 15 42 12S 137 12 54E, 15 08 36S 138 20 42E  
 14 56 29S 138 52 36E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/JARRAH A

**LATERAL LIMITS:** 31 15 48S 112 56 25E, 30 00 00S 112 43 56E

30 00 13S 113 49 39E, 31 43 53S 115 18 04E  
 then along the minor arc of a circle of 36.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 32 24 16S 116 24 56E  
 32 49 45S 117 10 21E, 32 55 50S 117 17 52E  
 33 54 00S 118 31 00E, 34 49 56S 120 17 22E  
 36 43 12S 120 00 00E, 36 25 00S 116 40 00E  
 35 10 52S 115 17 43E, 34 11 13S 114 13 59E

then along the minor arc of a circle of 160.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 33 43 31S 113 35 57E  
 then along the minor arc of a circle of 160.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KATOOMBA A

**LATERAL LIMITS:** 33 49 08S 150 05 23E,  
 then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 18 49S 150 22 53E  
 33 25 34S 150 31 41E,

then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E  
 33 49 08S 150 05 23E

**VERTICAL LIMITS:** FL125 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KATOOMBA B

**LATERAL LIMITS:** 33 48 38S 149 47 19E,  
 then along the minor arc of a circle of 70.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 08 39S 150 09 42E  
 33 18 49S 150 22 53E,

then along the minor arc of a circle of 55.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 49 08S 150 05 23E  
 33 47 37S 149 52 55E, 33 48 38S 149 47 19E

**VERTICAL LIMITS:** FL155 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KATOOMBA C

**LATERAL LIMITS:** 33 22 22S 148 22 27E, 32 37 32S 149 29 53E  
 32 55 03S 149 52 13E, 33 08 39S 150 09 42E

then along the minor arc of a circle of 70.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 48 38S 149 47 19E  
 33 50 51S 149 34 59E,

then along the minor arc of a circle of 80.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 59 41S 149 34 44E

34 17 02S 148 27 30E, 33 22 22S 148 22 27E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KATOOMBA D

**LATERAL LIMITS:** 32 13 10S 148 34 40E, 32 05 40S 148 49 51E

32 37 32S 149 29 53E, 33 22 22S 148 22 27E

34 17 02S 148 27 30E,

then along the minor arc of a circle of 70.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 29 18S 148 09 16E

33 17 56S 147 48 50E, 32 56 07S 148 03 26E

32 38 09S 148 15 22E, 32 13 10S 148 34 40E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/KATOOMBA/SYDNEY CAP

**LATERAL LIMITS:** 33 54 32S 150 52 59E, 33 50 34S 150 17 16E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 36 13S 150 22 41E

33 42 11S 150 36 41E, 33 42 57S 150 38 44E

33 45 05S 150 54 00E, 33 54 32S 150 52 59E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY A

**LATERAL LIMITS:** 16 47 15S 144 36 59E, 16 48 58S 145 07 09E

then along the major arc of a circle of 36.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 44 44S 146 21 36E

16 48 12S 146 52 20E,

then along the major arc of a circle of 65.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 59E

**VERTICAL LIMITS:** Base of CTA - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY B

**LATERAL LIMITS:** 16 41 46S 143 08 34E, 16 47 15S 144 36 59E

then along the major arc of a circle of 65.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 20E

16 51 05S 147 18 30E,

then along the minor arc of a circle of 90.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 45 21S 146 59 48E

18 20 13S 145 29 46E, 18 34 39S 144 46 06E

18 17 48S 143 50 32E, 16 57 54S 143 08 22E

then along the minor arc of a circle of 150.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E

**VERTICAL LIMITS:** 8500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY C

**LATERAL LIMITS:** 18 17 48S 143 50 32E, 16 57 54S 143 08 22E

then along the minor arc of a circle of 150.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E

16 49 47S 145 21 44E,

then along the minor arc of a circle of 22.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 42 56S 146 05 59E

16 51 05S 147 18 30E,

then along the minor arc of a circle of 90.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 45 21S 146 59 48E

18 20 13S 145 29 46E, 18 34 39S 144 46 06E  
18 17 48S 143 50 32E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KENNEDY D

**LATERAL LIMITS:** 16 51 05S 147 18 30E, 16 51 30S 147 28 40E

17 31 28S 147 34 59E, 17 45 21S 146 59 48E

then along the minor arc of a circle of 90.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 51 05S 147 18 30E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/KEPPELL

**LATERAL LIMITS:** 23 10 00S 149 35 00E, 22 14 32S 150 00 42E

22 17 00S 150 12 00E, 22 15 00S 150 20 00E

22 12 34S 150 25 27E, 22 06 00S 150 30 00E

22 06 00S 150 45 00E, 21 39 12S 151 52 08E

22 15 21S 152 02 50E, 23 13 18S 153 14 30E

24 58 55S 154 00 00E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 06 43S 154 21 26E

25 45 00S 154 00 00E, 26 04 31S 154 00 00E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 52 15S 153 19 26E

25 22 05S 152 56 24E,

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E

26 30 45S 150 30 32E, 24 38 10S 150 20 30E

23 10 00S 149 35 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/KIMBERLEY

**LATERAL LIMITS:** 14 08 13S 115 08 32E, 12 00 00S 114 30 00E

12 00 00S 123 20 00E, 12 26 03S 126 19 25E

12 39 55S 128 01 11E,

then along the minor arc of a circle of 170.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 15 05 44S 129 54 21E

15 15 20S 129 54 33E,

then along the minor arc of a circle of 150.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 16 55 10S 131 36 45E

17 10 35S 131 30 00E, 19 00 00S 131 30 00E

21 12 32S 131 55 06E, 21 12 09S 131 50 24E

23 13 13S 128 27 49E, 23 23 49S 126 03 32E

21 31 19S 124 33 04E, 20 03 18S 121 40 22E

19 00 00S 120 15 00E, 14 08 13S 115 08 32E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/LORD HOWE

**LATERAL LIMITS:** 33 54 29S 155 11 12E,

then along the minor arc of a circle of 200.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 31 07 50S 153 18 31E

30 40 20S 153 31 46E, 29 49 13S 153 42 58E

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 57 38S 155 54 19E

26 48 59S 163 00 00E, 33 16 00S 163 00 00E

33 54 29S 155 11 12E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/MAITLAND

**LATERAL LIMITS:** 32 36 02S 151 23 51E, 32 40 49S 151 34 15E

32 50 05S 152 03 59E, 32 53 01S 152 26 31E

33 30 06S 151 54 31E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 12 03S 151 19 18E

32 47 28S 151 24 14E, 32 36 02S 151 23 51E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/MAITLAND/SYDNEY CAP

**LATERAL LIMITS:** 33 12 03S 151 19 18E, 33 41 44S 151 13 41E

then along the minor arc of a circle of 15.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 47 47S 151 25 27E

33 30 06S 151 54 31E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 12 03S 151 19 18E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/MANNING

**LATERAL LIMITS:** 30 41 52S 152 02 20E, 30 09 54S 153 38 28E

30 40 20S 153 31 46E, 32 53 01S 152 26 31E

32 50 05S 152 03 59E, 32 40 49S 151 34 15E

32 36 02S 151 23 51E, 30 41 52S 152 02 20E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE TMA A

**LATERAL LIMITS:** A circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME)

**VERTICAL LIMITS:** Base of CTA - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/MUDGEES A

**LATERAL LIMITS:** 33 18 49S 150 22 53E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 06 18S 150 43 56E

33 16 11S 150 46 53E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 25 34S 150 31 41E

33 18 49S 150 22 53E

**VERTICAL LIMITS:** FL125 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/MUDGEES B

**LATERAL LIMITS:** 33 08 39S 150 09 42E,

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 51 32S 150 39 33E

33 06 18S 150 43 56E,

then along the minor arc of a circle of 55.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 18 49S 150 22 53E

33 08 39S 150 09 42E

**VERTICAL LIMITS:** FL155 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MUDGEES C SY/DME**

**LATERAL LIMITS:** 32 33 39S 149 35 37E, 32 09 51S 150 31 51E

32 31 57S 150 33 47E, 32 51 32S 150 39 33E

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 08 39S 150 09 42E

32 37 32S 149 29 53E, 32 33 39S 149 35 37E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MUDGEES D**

**LATERAL LIMITS:** 29 00 00S 149 00 00E, 28 37 45S 150 41 59E

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 29 22 47S 151 27 06E

29 49 03S 151 12 35E, 29 57 15S 150 53 51E

30 50 15S 150 04 38E, 31 04 48S 150 09 38E

31 24 47S 150 21 17E, 31 38 06S 150 29 05E

32 09 51S 150 31 51E, 32 33 39S 149 35 37E

32 37 32S 149 29 53E, 32 21 54S 149 10 09E

32 05 40S 148 49 51E, 29 20 27S 146 46 41E

29 08 07S 147 42 57E, 29 00 00S 149 00 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MUDGEES/SYDNEY CAP**

**LATERAL LIMITS:** 33 42 11S 150 36 41E, 33 36 13S 150 22 41E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 17S 150 52 09E

33 31 39S 150 59 47E,

then along the minor arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 41 05S 150 59 53E

33 45 05S 150 54 00E, 33 42 57S 150 38 44E

33 42 11S 150 36 41E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/NAMBUCCA**

**LATERAL LIMITS:** 30 41 52S 152 02 20E, 30 09 54S 153 38 28E

30 40 20S 153 31 46E, 32 53 01S 152 26 31E

32 50 05S 152 03 59E, 32 40 49S 151 34 15E

32 36 02S 151 23 51E, 32 27 28S 151 05 59E

31 26 47S 151 33 04E, 30 41 52S 152 02 20E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/NULLARBOR A**

**LATERAL LIMITS:** 26 34 44S 124 00 00E, 23 23 49S 126 03 32E

23 19 20S 127 08 08E, 24 29 09S 128 06 49E

26 07 08S 128 06 49E, 26 34 25S 128 30 29E

28 50 26S 130 46 36E, 28 30 11S 131 11 49E

28 09 51S 131 36 52E, 32 25 12S 136 24 36E

32 38 24S 135 44 39E, 32 59 42S 135 08 00E

34 08 11S 135 20 18E, 34 46 18S 135 00 00E

36 10 04S 135 00 00E, 36 57 30S 139 40 00E

37 49 05S 139 40 00E, 38 54 04S 139 40 00E

38 54 04S 141 00 00E, 42 21 00S 141 00 00E

40 44 46S 135 00 00E, 38 43 55S 129 00 00E

37 10 38S 125 04 54E, 36 43 12S 120 00 00E

34 49 56S 120 17 22E, 32 18 57S 120 39 17E

31 37 31S 120 30 04E, 30 11 36S 120 11 23E

29 18 00S 120 00 00E, 26 34 44S 124 00 00E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/OCEAN**

**LATERAL LIMITS:** 32 53 01S 152 26 31E, 31 07 50S 153 18 31E

then along the minor arc of a circle of 200.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 36 29 26S 153 48 37E

36 13 36S 152 25 23E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 18 59S 152 55 50E

34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E

32 53 01S 152 26 31E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/OCEAN/SYDNEY CAP**

**LATERAL LIMITS:** 33 30 06S 151 54 31E, 33 47 47S 151 25 27E

then along the minor arc of a circle of 15.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 07 10S 151 23 39E

34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/ORE**

**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E

18 47 59S 115 33 44E, 17 37 11S 118 45 34E

19 00 00S 120 15 00E, 19 39 17S 121 07 44E

20 03 18S 121 40 22E, 21 31 19S 124 33 04E

23 23 49S 126 03 32E, 26 34 44S 124 00 00E

25 00 00S 121 12 00E, 23 35 17S 120 17 25E

23 25 16S 119 48 11E, 23 10 21S 117 44 13E

23 30 00S 116 00 00E, 23 30 00S 111 44 17E

21 50 00S 111 30 00E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PINGELLY**

**LATERAL LIMITS:** 31 21 14S 116 05 19E, 30 28 02S 116 16 47E

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 02 15S 117 21 30E

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 55 50S 117 17 52E

32 49 45S 117 10 21E, 32 24 16S 116 24 56E

then along the minor arc of a circle of 36.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 49 20S 116 38 58E

then along the minor arc of a circle of 36.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 21 14S 116 05 19E

**VERTICAL LIMITS:** Base of CTA - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/STURT**

**LATERAL LIMITS:** 21 29 59S 136 19 44E, 21 12 32S 131 55 06E  
21 11 04S 131 54 49E, 19 00 00S 131 30 00E  
17 10 35S 131 30 00E, 16 55 10S 131 36 45E  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 52 37S 134 33 14E  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 42 16S 134 56 58E  
15 46 48S 136 30 51E, 16 35 57S 137 10 56E  
17 20 18S 137 09 18E, 19 01 14S 137 40 20E  
20 43 56S 136 14 02E, 21 29 59S 136 19 44E

**VERTICAL LIMITS:** FL285 - FL600

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/SWAMPY**

**LATERAL LIMITS:** 20 37 58S 146 08 32E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 19 22 01S 148 20 20E  
19 16 13S 151 10 44E, 21 39 12S 151 52 08E  
22 06 00S 150 45 00E, 22 06 00S 150 30 00E  
22 12 34S 150 25 27E, 22 15 00S 150 20 00E  
22 17 00S 150 12 00E, 22 14 32S 150 00 42E  
23 10 00S 149 35 00E, 23 05 40S 149 20 16E  
22 48 42S 149 09 24E, 22 52 45S 148 17 40E  
22 33 00S 147 44 50E, 21 43 30S 146 06 56E  
21 26 57S 145 46 28E, 20 37 58S 146 08 32E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TABLETOP A**

**LATERAL LIMITS:** 18 17 48S 143 50 32E, 18 34 39S 144 46 06E  
18 20 13S 145 29 46E, 17 45 21S 146 59 48E  
17 31 28S 147 34 59E, 18 00 30S 147 39 36E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 13 56S 147 55 42E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 26 56S 148 06 03E  
19 21 25S 148 42 02E, 19 22 01S 148 20 20E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 20 37 58S 146 08 32E  
21 26 57S 145 46 28E, 20 11 58S 144 53 36E  
19 25 53S 144 27 04E, 18 49 22S 144 07 24E  
18 17 48S 143 50 32E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TABLETOP B**

**LATERAL LIMITS:** 16 51 30S 147 28 40E, 16 58 17S 151 04 31E  
18 40 27S 151 00 35E, 19 16 13S 151 10 44E  
19 21 25S 148 42 02E, 18 26 56S 148 06 03E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 00 30S 147 39 36E  
16 51 30S 147 28 40E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/TAILEM BEND A**

**LATERAL LIMITS:** 34 16 35S 139 07 33E, 33 34 18S 139 39 53E  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 34 40S 138 05 12E  
36 24 22S 138 05 12E, 35 32 07S 138 22 30E  
then along the minor arc of a circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 28 26S 138 58 24E  
34 16 35S 139 07 33E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/TAILEM BEND B**

**LATERAL LIMITS:** 33 34 18S 139 39 53E, 33 01 22S 140 07 05E  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E  
36 28 41S 141 00 00E, 36 40 00S 139 40 00E  
36 57 30S 139 40 00E, 36 10 04S 135 00 00E  
35 30 01S 135 00 00E, 35 30 01S 136 49 20E  
35 10 16S 137 50 47E,

then along the minor arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 32 07S 138 22 30E  
36 24 22S 138 05 12E, 36 34 40S 138 05 12E

then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/TAILEM BEND HIGH CAP**

**LATERAL LIMITS:** 34 36 00S 138 52 30E, 34 28 26S 138 58 24E  
then along the major arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 10 16S 137 50 47E  
34 56 49S 138 31 28E, 34 36 00S 138 52 30E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/TASMAN**

**LATERAL LIMITS:** 45 00 00S 150 00 00E, 44 33 57S 150 00 00E  
43 51 03S 150 39 53E, 43 00 00S 151 00 00E  
38 11 19S 150 19 14E, 36 56 43S 150 45 03E  
then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 13 36S 152 25 23E  
36 29 26S 153 48 37E,  
then along the minor arc of a circle of 200.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 54 29S 155 11 12E  
33 16 00S 163 00 00E, 45 00 00S 163 00 00E  
45 00 00S 150 00 00E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/TASMANIA HIGH B**

**LATERAL LIMITS:** 38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
39 47 36S 145 07 30E, 40 00 00S 145 12 01E  
40 00 00S 146 35 49E,  
then along the minor arc of a circle of 162.50NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 19 33S 147 33 51E  
39 37 48S 147 44 28E,  
then along the minor arc of a circle of 30.00NM radius centred on  
40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 148 37 58E  
40 34 02S 150 38 39E, 43 00 00S 151 00 00E  
43 51 03S 150 39 53E, 43 31 15S 149 21 30E  
43 43 48S 145 51 48E, 42 21 00S 141 00 00E  
38 54 04S 141 00 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia



**YMMM/TASMANIA LOW A**

**LATERAL LIMITS:** 39 18 49S 145 07 33E,  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E  
39 37 56S 147 13 04E,  
then along the minor arc of a circle of 162.60NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 40 00 00S 146 35 49E  
40 00 00S 145 12 01E, 39 47 36S 145 07 30E  
39 18 49S 145 07 33E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/TASMANIA LOW B**

**LATERAL LIMITS:** 41 11 44S 146 19 51E, 41 31 39S 147 00 31E  
41 41 54S 147 04 52E, 42 06 47S 146 59 36E  
then along the minor arc of a circle of 50.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 25 05S 146 33 32E  
42 40 01S 146 53 37E, 42 46 40S 147 03 30E  
42 48 40S 147 18 48E, 42 51 58S 147 21 33E  
42 57 18S 147 31 40E, 43 18 49S 148 02 31E  
then along the minor arc of a circle of 36.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 43 01S 148 19 20E  
42 47 26S 147 52 51E,  
then along the minor arc of a circle of 16.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 36 38S 147 41 38E  
42 24 13S 147 50 22E, 42 06 26S 148 02 44E  
then along the minor arc of a circle of 50.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 02 46S 147 50 19E  
41 52 26S 147 42 53E, 41 27 27S 147 25 05E  
41 17 40S 147 47 21E,  
then along the minor arc of a circle of 30.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 06 21S 147 32 00E  
40 53 11S 147 41 31E,  
then along the minor arc of a circle of 45.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 11 44S 146 19 51E

**VERTICAL LIMITS:** 8500 - FL125

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/TASMANIA LOW C**

**LATERAL LIMITS:** 40 00 00S 145 12 01E, 40 00 00S 146 35 49E  
then along the minor arc of a circle of 162.60NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 37 56S 147 13 04E  
39 51 42S 147 24 53E, 41 14 33S 148 38 07E  
42 06 26S 148 02 44E, 42 36 38S 147 41 38E  
then along the minor arc of a circle of 16.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 47 26S 147 52 51E  
42 43 01S 148 19 20E,  
then along the minor arc of a circle of 36.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 43 18 49S 148 02 31E  
42 57 18S 147 31 40E, 42 51 58S 147 21 33E  
42 48 40S 147 18 48E, 42 46 40S 147 03 30E  
42 40 01S 146 53 37E, 42 22 31S 146 30 07E  
40 59 50S 145 34 16E, 40 00 00S 145 12 01E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/TASMANIA OCEANIC**

**LATERAL LIMITS:** 45 00 00S 141 00 00E, 42 21 00S 141 00 00E  
43 43 48S 145 51 48E, 43 31 15S 149 21 30E  
43 51 03S 150 39 53E, 44 33 57S 150 00 00E  
45 00 00S 150 00 00E, 45 00 00S 141 00 00E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TERRITORY**

**LATERAL LIMITS:** 12 39 55S 128 01 11E, 12 26 03S 126 19 25E  
12 00 00S 123 20 00E, 11 16 05S 124 18 19E  
09 20 00S 126 50 00E, 08 19 24S 130 27 16E  
09 48 39S 131 30 25E, 10 01 27S 131 39 32E  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 12 02S 133 27 00E  
13 31 12S 134 44 11E,  
then along the major arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E  
15 05 44S 129 54 21E,  
then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TERRITORY B**

**LATERAL LIMITS:** 12 26 03S 126 19 25E, 12 00 00S 123 20 00E  
11 16 05S 124 18 19E, 09 20 00S 126 50 00E  
08 19 24S 130 27 16E, 09 48 39S 131 30 25E  
then along the minor arc of a circle of 160.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 10 20 53S 129 11 21E  
12 26 03S 126 19 25E

**VERTICAL LIMITS:** SFC - FL285

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/WARREGO**

**LATERAL LIMITS:** 26 13 31S 138 23 24E, 23 10 00S 137 00 50E  
23 10 00S 140 46 17E, 22 08 25S 142 57 53E  
21 43 42S 143 53 44E, 21 43 33S 145 25 58E  
22 01 17S 145 47 51E, 22 58 59S 145 52 31E  
25 50 45S 147 30 00E, 29 08 07S 147 42 57E  
29 20 27S 146 46 41E, 29 00 00S 146 32 00E  
29 00 00S 143 30 00E, 26 13 31S 138 23 24E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/WILLIS**

**LATERAL LIMITS:** 14 25 18S 145 05 11E, 12 00 05S 144 42 11E  
12 00 00S 148 34 24E, 16 09 59S 151 06 21E  
16 58 17S 151 04 31E, 16 51 30S 147 28 40E  
14 44 19S 147 08 50E,  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 14 25 18S 145 05 11E

**VERTICAL LIMITS:** SFC - FL285

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/WOLLONGONG A**

**LATERAL LIMITS:** 34 38 50S 149 48 48E, 34 20 25S 150 24 50E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 41 07S 151 02 28E  
34 43 56S 151 00 00E, 34 56 07S 150 59 57E  
then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 19 57S 150 34 29E  
35 44 49S 150 37 09E, 35 25 48S 149 38 33E

35 20 06S 149 48 12E,  
then along the minor arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 54 58S 149 36 46E  
34 42 04S 149 51 19E,  
then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 38 50S 149 48 48E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/WOLLONGONG B

**LATERAL LIMITS:** 35 08 52S 149 20 57E, 34 54 58S 149 36 46E

then along the minor arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 20 06S 149 48 12E  
35 25 48S 149 38 33E, 35 44 49S 150 37 09E  
35 19 57S 150 34 29E,

then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E  
34 43 56S 151 00 00E, 34 41 07S 151 02 28E

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
36 36 46S 150 42 49E,

then along the minor arc of a circle of 100.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 51 25S 148 49 18E  
35 45 49S 149 01 48E, 35 25 40S 149 03 37E

then along the minor arc of a circle of 11.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 17 41S 148 58 21E

then along the minor arc of a circle of 11.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 08 52S 149 20 57E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/WOLLONGONG C

**LATERAL LIMITS:** 35 44 49S 150 37 09E, 35 19 57S 150 34 29E

then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E  
34 43 56S 151 00 00E, 34 41 07S 151 02 28E

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
35 44 49S 150 37 09E

**VERTICAL LIMITS:** FL180 - FL245

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/WOLLONGONG/SYDNEY CAP

**LATERAL LIMITS:** 33 54 32S 150 52 59E, 33 45 05S 150 54 00E

33 41 05S 150 59 53E,  
then along the minor arc of a circle of 11.00NM radius centred on  
33 36 27S 150 47 56E (RIC/TAC) to 33 39 38S 151 00 33E  
33 41 44S 151 13 41E,

then along the minor arc of a circle of 15.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 47 47S 151 25 27E

then along the minor arc of a circle of 15.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 07 10S 151 23 39E  
34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 20 25S 150 24 50E  
34 04 29S 150 55 30E,

then along the minor arc of a circle of 15.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 54 32S 150 52 59E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/WONTHAGGI A

**LATERAL LIMITS:** 38 19 34S 144 53 53E, 38 08 38S 144 40 49E

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 47 08S 145 27 08E  
37 58 46S 146 28 34E,

then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 27 32S 146 11 41E

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
39 08 42S 145 07 34E, 38 30 58S 145 07 38E

38 19 34S 144 53 53E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/WONTHAGGI B

**LATERAL LIMITS:** 38 27 32S 146 11 41E,

then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 58 46S 146 28 34E  
38 03 16S 146 53 14E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 27 32S 146 11 41E

**VERTICAL LIMITS:** FL180 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/WONTHAGGI C

**LATERAL LIMITS:** 38 46 14S 143 15 50E, 38 08 36S 144 21 49E

38 00 33S 144 23 23E,  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 08 38S 144 40 49E

38 19 34S 144 53 53E, 38 30 58S 145 07 38E  
39 08 42S 145 07 34E, 39 18 49S 145 07 33E

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 46 14S 143 15 50E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/WONTHAGGI CAP

**LATERAL LIMITS:** 38 00 33S 144 23 23E, 37 47 27S 144 42 42E

then along the minor arc of a circle of 10.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 42 20S 145 02 39E  
37 47 08S 145 27 08E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 00 33S 144 23 23E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YMMM/WONTHAGGI D

**LATERAL LIMITS:** 39 18 49S 145 07 33E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 55 15S 147 19 54E

39 19 33S 147 33 51E,  
then along the minor arc of a circle of 162.50NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 40 00 00S 146 35 49E  
40 00 00S 145 12 01E, 39 47 36S 145 07 30E  
39 18 49S 145 07 33E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/WONTHAGGI E

**LATERAL LIMITS:** 38 03 16S 146 53 14E, 38 05 56S 147 08 58E

38 12 41S 148 11 47E,  
then along the minor arc of a circle of 162.60NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 19 33S 147 33 51E  
38 55 15S 147 19 54E,

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 03 16S 146 53 14E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/WOOMERA

**LATERAL LIMITS:** 30 20 56S 133 59 57E, 29 05 21S 136 39 00E

29 00 00S 136 49 51E, 28 00 00S 138 00 00E  
26 13 31S 138 23 24E, 29 00 00S 143 30 00E  
29 53 53S 142 40 54E, 31 00 00S 142 48 44E  
31 47 54S 143 31 00E, 33 00 00S 143 31 00E  
33 20 34S 140 34 10E,

then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 32 52 09S 139 48 32E  
32 09 50S 137 26 18E,

then along the minor arc of a circle of 20.00NM radius centred on  
32 28 40S 137 18 14E (OJJAY/WPT) to 32 10 04S 137 09 27E  
32 25 12S 136 24 36E, 30 20 56S 133 59 57E

**VERTICAL LIMITS:** FL285 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YARROWEE A

**LATERAL LIMITS:** 36 59 41S 144 24 23E,

then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 54 35S 144 52 52E  
37 09 36S 144 52 04E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 12 17S 144 34 54E  
36 59 41S 144 24 23E

**VERTICAL LIMITS:** 7500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YARROWEE B

**LATERAL LIMITS:** 38 01 46S 144 01 04E,

then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 59 41S 144 24 23E  
37 12 17S 144 34 54E,

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 54 04S 144 17 22E  
38 01 46S 144 01 04E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YARROWEE C

**LATERAL LIMITS:** 38 29 36S 143 00 48E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
36 51 13S 144 53 03E, 36 54 35S 144 52 52E

then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 01 46S 144 01 04E  
38 29 36S 143 00 48E

**VERTICAL LIMITS:** 8500 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YARROWEE CAP

**LATERAL LIMITS:** 37 47 27S 144 42 42E, 38 00 33S 144 23 23E

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 09 36S 144 52 04E  
37 29 36S 144 50 58E,

then along the minor arc of a circle of 10.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 47 27S 144 42 42E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/YARROWEE D

**LATERAL LIMITS:** 38 29 36S 143 00 48E, 37 54 04S 144 17 22E

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 00 33S 144 23 23E  
38 08 36S 144 21 49E, 38 46 14S 143 15 50E

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 29 36S 143 00 48E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**NOTES**

# SECTION 11 - E AIRSPACE FREQUENCY BOUNDARIES

## YMMM/AVALON EFREQUENCY 133.55A

**LATERAL LIMITS:** 38 08 36S 144 21 49E, 37 54 54S 144 24 29E  
 then along the minor arc of a circle of 8.00NM radius centred on  
 38 02 22S 144 28 10E (YMAV/AD) to 37 59 14S 144 37 29E  
 38 07 22S 144 36 05E,  
 then along the minor arc of a circle of 8.00NM radius centred on  
 38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E  
**VERTICAL LIMITS:** SFC - 1500  
**CONTROLLING AUTHORITY:** Airservices Australia

## YMMM/AVALON EFREQUENCY 133.55B

**LATERAL LIMITS:** 38 13 43S 144 20 49E, 37 51 04S 144 25 13E  
 then along the minor arc of a circle of 12.00NM radius centred on  
 38 02 57S 144 27 33E (AV/DME) to 37 55 00S 144 38 57E  
 37 55 26S 144 38 08E, 38 07 22S 144 36 05E  
 then along the minor arc of a circle of 8.00NM radius centred on  
 38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E  
 38 12 47S 144 36 17E,  
 then along the minor arc of a circle of 12.00NM radius centred on  
 38 02 57S 144 27 33E (AV/DME) to 38 13 43S 144 20 49E  
**VERTICAL LIMITS:** 1500 - 4500  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 118.1

**LATERAL LIMITS:** 19 00 00S 131 30 00E, 17 10 35S 131 30 00E  
 16 55 10S 131 36 45E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 15 52 37S 134 33 14E  
 18 00 00S 135 00 00E, 19 00 00S 131 30 00E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 118.2

**LATERAL LIMITS:** 16 03 03S 143 16 41E, 15 30 25S 141 43 29E  
 15 00 00S 140 00 00E, 14 00 00S 140 00 00E  
 14 00 00S 142 00 00E, 12 40 00S 144 00 00E  
 12 00 00S 144 00 00E, 12 00 05S 144 42 11E  
 14 25 18S 145 05 11E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 03 03S 143 16 41E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 118.2

**LATERAL LIMITS:** 16 42 00S 126 28 00E, 19 58 17S 126 29 43E  
 18 42 49S 129 32 58E, 17 23 39S 128 42 09E  
 17 02 40S 128 28 50E, 16 42 00S 126 28 00E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 118.6

**LATERAL LIMITS:** 19 05 23S 140 05 10E, 19 22 34S 140 36 52E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 20 39 53S 139 29 09E (MA/DME) to 20 01 56S 141 07 40E  
 19 05 00S 142 50 00E, 18 17 48S 143 50 32E  
 16 57 54S 143 08 22E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 03 03S 143 16 41E  
 15 30 25S 141 43 29E, 15 18 31S 141 02 36E

19 05 23S 140 05 10E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB-YMMM/BRISBANE EFREQUENCY 118.8

**LATERAL LIMITS:** 27 24 44S 140 30 09E, 29 00 00S 143 30 00E  
 29 00 00S 144 25 00E, 25 30 00S 144 30 00E  
 25 30 00S 143 40 00E, 24 44 01S 142 00 32E  
 27 24 44S 140 30 09E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB-YMMM/BRISBANE EFREQUENCY 118.9

**LATERAL LIMITS:** 23 21 56S 126 31 34E, 19 58 17S 126 29 43E  
 18 42 49S 129 32 58E, 19 00 00S 130 00 00E  
 19 00 00S 131 30 00E, 21 12 32S 131 55 06E  
 21 12 09S 131 50 24E, 23 13 13S 128 27 49E  
 23 21 56S 126 31 34E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB-YMMM/BRISBANE EFREQUENCY 118.95

**LATERAL LIMITS:** 27 20 00S 147 35 45E, 27 20 00S 149 44 22E  
 28 18 47S 149 49 52E, 28 47 21S 149 58 48E  
 29 00 00S 149 00 00E, 29 08 07S 147 42 57E  
 29 20 27S 146 46 41E, 29 00 00S 146 32 00E  
 28 03 12S 147 05 18E, 27 20 00S 147 35 45E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 119.55A1

**LATERAL LIMITS:** 22 48 42S 149 09 24E, 22 28 48S 149 35 00E  
 22 21 30S 149 51 54E, 22 14 32S 150 00 42E  
 22 17 00S 150 12 00E, 22 15 00S 150 20 00E  
 22 12 34S 150 25 27E, 22 06 00S 150 30 00E  
 22 06 00S 150 32 06E, 24 07 58S 152 00 48E  
 24 09 23S 151 52 49E, 24 30 37S 151 00 24E  
 25 01 14S 150 38 18E, 24 38 10S 150 20 30E  
 23 10 00S 149 35 00E, 23 05 40S 149 20 16E  
 22 48 42S 149 09 24E  
**VERTICAL LIMITS:** 8500 - FL180  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 119.55A2

**LATERAL LIMITS:** 22 06 00S 150 32 06E, 22 06 00S 150 45 00E  
 21 59 16S 151 02 01E, 22 34 10S 151 35 12E  
 23 57 39S 152 57 47E, 24 07 58S 152 00 48E  
 22 06 00S 150 32 06E  
**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

## YBBB/BRISBANE EFREQUENCY 119.8

**LATERAL LIMITS:** 19 05 00S 142 50 00E, 18 17 48S 143 50 32E  
 18 49 22S 144 07 24E, 19 25 53S 144 27 04E  
 20 11 58S 144 53 36E, 21 26 57S 145 46 28E  
 21 51 14S 145 35 26E, 21 43 33S 145 25 58E  
 21 43 42S 143 53 44E, 19 05 00S 142 50 00E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.15**

**LATERAL LIMITS:** 18 20 13S 145 29 46E,  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 45 42S 144 10 59E  
16 47 15S 144 36 58E,  
then along the major arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 21E  
16 51 05S 147 18 30E,  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 17 45 21S 146 59 48E  
18 20 13S 145 29 46E

**VERTICAL LIMITS:** 8500 - FL180  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.15**

**LATERAL LIMITS:** 16 48 12S 146 52 21E,  
then along the major arc of a circle of 65.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 58E  
16 48 09S 144 52 36E,  
then along the major arc of a circle of 50.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 46 25S 146 36 33E  
16 48 12S 146 52 21E

**VERTICAL LIMITS:** 8500 - FL125  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.15**

**LATERAL LIMITS:** 16 45 42S 144 10 59E,  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 18 20 13S 145 29 46E  
18 34 39S 144 46 06E, 18 17 48S 143 50 32E  
16 57 54S 143 08 22E,  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E  
16 45 42S 144 10 59E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.15E**

**LATERAL LIMITS:** 16 51 05S 147 18 30E, 16 51 30S 147 28 40E  
17 31 28S 147 34 59E, 17 45 21S 146 59 48E  
then along the minor arc of a circle of 90.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 51 05S 147 18 30E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.3B**

**LATERAL LIMITS:** 11 36 30S 140 00 00E, 09 50 00S 139 40 00E  
09 50 00S 141 00 00E, 09 37 00S 141 01 06E  
09 15 42S 142 03 30E,  
then along QLD/PNG border to 09 19 24S 142 48 18E  
09 08 00S 143 52 30E, 09 24 00S 144 14 00E  
09 56 34S 144 05 21E,  
then along the Barrier Reef to 11 30 00S 144 01 36E  
11 30 00S 141 30 00E, 11 36 30S 140 00 00E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.55A1**

**LATERAL LIMITS:** 18 20 13S 145 29 46E, 17 45 21S 146 59 48E

then along the major arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 20 13S 145 29 46E

**VERTICAL LIMITS:** 8500 - FL180  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.55A2**

**LATERAL LIMITS:** 18 26 56S 148 06 03E, 19 21 25S 148 42 02E  
19 22 01S 148 20 20E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 18 26 56S 148 06 03E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.55A3**

**LATERAL LIMITS:** 17 45 21S 146 59 48E, 17 31 28S 147 34 59E  
18 00 30S 147 39 36E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 17 45 21S 146 59 48E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.55A4**

**LATERAL LIMITS:** 18 17 48S 143 50 32E, 18 34 39S 144 46 06E  
18 20 13S 145 29 46E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 20 37 58S 146 08 32E  
21 26 57S 145 46 28E, 20 11 58S 144 53 36E  
19 25 53S 144 27 04E, 18 49 22S 144 07 24E  
18 17 48S 143 50 32E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.55B**

**LATERAL LIMITS:** 30 41 52S 152 02 20E, 30 49 08S 152 20 33E  
30 57 56S 152 06 42E,  
then along the minor arc of a circle of 65.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 31 24 18S 153 05 25E  
31 09 16S 153 05 46E, 31 08 07S 153 18 23E  
32 53 01S 152 26 31E, 32 50 05S 152 03 59E  
32 40 49S 151 34 15E, 32 36 02S 151 23 51E  
32 27 28S 151 05 59E, 31 26 47S 151 33 04E  
30 41 52S 152 02 20E

**VERTICAL LIMITS:** 8500 - FL125  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 120.75**

**LATERAL LIMITS:** 14 20 14S 123 37 52E, 15 44 06S 125 02 06E  
15 56 48S 125 15 00E, 16 42 00S 126 28 00E  
13 50 06S 128 23 06E,  
then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E  
12 26 03S 126 19 25E, 14 20 14S 123 37 52E

**VERTICAL LIMITS:** FL180 - FL245  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 122.1**

**LATERAL LIMITS:** 14 20 14S 123 37 52E, 16 11 05S 120 55 45E  
18 15 00S 123 50 00E, 16 42 00S 126 28 00E  
15 56 48S 125 15 00E, 15 44 06S 125 02 06E  
14 20 14S 123 37 52E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB-YMMM/BRISBANE EFREQUENCY 122.1**

**LATERAL LIMITS:** 19 00 00S 131 30 00E, 21 11 04S 131 54 49E  
21 12 32S 131 55 06E, 21 29 59S 136 19 44E  
20 43 56S 136 14 02E, 19 01 14S 137 40 20E  
18 00 00S 135 00 00E, 19 00 00S 131 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.1**

**LATERAL LIMITS:** 14 00 00S 142 00 00E, 14 00 00S 140 00 00E  
11 36 30S 140 00 00E, 11 30 00S 141 30 00E  
11 30 00S 144 01 36E, 11 43 30S 144 04 20E  
12 00 00S 144 00 00E, 12 40 00S 144 00 00E  
14 00 00S 142 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.1**

**LATERAL LIMITS:** 23 10 00S 140 46 17E, 24 44 01S 142 00 32E  
25 30 00S 143 40 00E, 25 30 00S 144 30 00E  
24 19 19S 146 37 29E, 22 58 59S 145 52 31E  
22 01 17S 145 47 51E, 21 43 33S 145 25 58E  
21 43 42S 143 53 44E, 22 08 25S 142 57 53E  
23 10 00S 140 46 17E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.2**

**LATERAL LIMITS:** 13 56 01S 134 52 50E, 13 13 33S 135 58 00E  
13 13 21S 136 00 00E, 13 00 48S 137 56 54E  
13 00 00S 139 00 00E, 14 00 00S 140 00 00E  
15 00 00S 140 00 00E, 14 56 29S 138 52 36E  
15 08 36S 138 20 42E, 15 42 12S 137 12 54E  
16 35 57S 137 10 56E, 15 46 48S 136 30 51E  
14 42 16S 134 56 58E,

then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 13 56 01S 134 52 50E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.3A1**

**LATERAL LIMITS:** 21 51 14S 145 35 26E, 21 26 57S 145 46 28E  
21 43 30S 146 06 56E, 22 23 44S 147 26 16E  
22 47 31S 147 32 14E, 23 20 00S 148 00 00E  
23 14 43S 148 51 18E, 23 36 36S 148 43 03E  
24 20 45S 149 15 29E, 24 30 23S 149 04 48E  
25 12 58S 149 31 28E, 25 27 29S 148 33 20E  
25 12 04S 147 07 36E, 22 58 59S 145 52 31E  
22 01 17S 145 47 51E, 21 51 14S 145 35 26E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.3A2**

**LATERAL LIMITS:** 22 23 44S 147 26 16E, 22 33 00S 147 44 50E  
22 52 45S 148 17 40E, 22 48 42S 149 09 24E  
23 05 40S 149 20 16E, 23 10 00S 149 35 00E  
23 46 09S 149 53 31E, 24 20 45S 149 15 29E  
23 36 36S 148 43 03E, 23 14 43S 148 51 18E  
23 20 00S 148 00 00E, 22 47 31S 147 32 14E  
22 23 44S 147 26 16E

**YBBB-YMMM/BRISBANE EFREQUENCY 122.4**

**LATERAL LIMITS:** 20 43 56S 136 14 02E, 21 51 32S 136 22 25E  
22 17 51S 136 38 07E, 23 10 00S 137 00 50E  
23 10 00S 140 46 17E, 22 29 26S 140 14 56E  
21 34 00S 140 09 00E, 21 10 15S 140 42 28E  
then along the minor arc of a circle of 75.00NM radius centred on  
20 39 53S 139 29 09E (MA/DME) to 20 14 40S 140 44 24E  
20 01 56S 141 07 40E,  
then along the minor arc of a circle of 100.00NM radius centred on  
20 39 53S 139 29 09E (MA/DME) to 19 22 34S 140 36 52E  
19 05 23S 140 05 10E, 19 01 14S 137 40 20E  
20 43 56S 136 14 02E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.4**

**LATERAL LIMITS:** 13 50 06S 128 23 06E, 16 42 00S 126 28 00E  
17 02 40S 128 28 50E, 17 23 39S 128 42 09E  
16 00 30S 130 17 39E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E  
15 05 44S 129 54 21E,  
then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 50 06S 128 23 06E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 122.6**

**LATERAL LIMITS:** 15 05 44S 129 54 21E,  
then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 14 59 01S 132 10 37E  
then along the major arc of a circle of 30.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 10 15S 132 44 50E  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 38 37S 133 08 41E  
13 48 19S 133 40 00E, 13 51 23S 133 57 09E  
13 56 01S 134 52 50E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E  
15 05 44S 129 54 21E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 123.0**

**LATERAL LIMITS:** 26 41 15S 151 01 54E,  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 01 51S 151 28 21E  
26 21 06S 151 54 05E,  
then along the minor arc of a circle of 90.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 04 31S 154 00 00E  
26 37 23S 154 00 00E, 26 47 12S 153 48 43E  
then along the minor arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 05 15S 152 15 28E  
26 41 15S 151 01 54E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 123.4**

**LATERAL LIMITS:** 09 50 00S 131 35 58E, 09 50 00S 136 00 00E  
13 13 21S 136 00 00E, 13 13 33S 135 58 00E  
13 56 01S 134 52 50E,

then along the minor arc of a circle of 150.00NM radius centred on 14 31 16S 132 22 40E (YPTN/AD) to 13 31 12S 134 44 11E  
12 12 02S 133 27 00E,

then along the minor arc of a circle of 150.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E

then along the minor arc of a circle of 150.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 10 01 27S 131 39 32E  
09 48 39S 131 30 25E, 09 50 00S 131 35 58E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.4A

**LATERAL LIMITS:** 33 06 18S 150 43 56E, 32 31 57S 150 33 47E

then along the minor arc of a circle of 90.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 32 26 34S 151 04 08E  
32 27 28S 151 05 59E, 32 36 02S 151 23 51E

32 47 28S 151 24 14E, 33 02 10S 151 21 17E

then along the minor arc of a circle of 55.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 33 06 18S 150 43 56E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.7

**LATERAL LIMITS:** 16 00 30S 130 17 39E, 17 23 39S 128 42 09E

18 42 49S 129 32 58E, 19 00 00S 130 00 00E

19 00 00S 131 30 00E, 17 10 35S 131 30 00E

16 55 10S 131 36 45E,

then along the minor arc of a circle of 150.00NM radius centred on 14 31 16S 132 22 40E (YPTN/AD) to 16 00 30S 130 17 39E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.8

**LATERAL LIMITS:** 16 45 42S 144 10 59E,

then along the minor arc of a circle of 90.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 51 05S 147 18 30E  
16 48 12S 146 52 21E,

then along the minor arc of a circle of 65.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 47 15S 144 36 58E  
16 45 42S 144 10 59E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.8

**LATERAL LIMITS:** 16 41 46S 143 08 34E,

then along the minor arc of a circle of 150.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 14 44 19S 147 08 50E  
16 51 30S 147 28 40E, 16 51 05S 147 18 30E

then along the minor arc of a circle of 90.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 45 42S 144 10 59E  
16 41 46S 143 08 34E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.8

**LATERAL LIMITS:** 16 47 15S 144 36 58E,

then along the minor arc of a circle of 65.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 48 12S 146 52 21E  
16 46 25S 146 36 33E,

then along the minor arc of a circle of 50.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 48 09S 144 52 36E  
16 47 15S 144 36 58E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.95

**LATERAL LIMITS:** 21 34 00S 140 09 00E, 22 29 26S 140 14 56E

23 10 00S 140 46 17E, 22 08 25S 142 57 53E

21 43 42S 143 53 44E, 19 05 00S 142 50 00E

20 01 56S 141 07 40E, 20 14 40S 140 44 24E

then along the minor arc of a circle of 75.00NM radius centred on

20 39 53S 139 29 09E (MA/DME) to 21 10 15S 140 42 28E

21 34 00S 140 09 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.95A1

**LATERAL LIMITS:** 25 20 31S 150 00 00E, 25 14 46S 150 48 49E

25 57 04S 151 21 59E, 26 01 51S 151 28 21E

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E

25 20 31S 150 00 00E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 123.95A2

**LATERAL LIMITS:** 25 20 31S 150 00 00E, 26 41 15S 151 01 54E

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 29 54S 151 16 32E

28 47 21S 149 58 48E, 28 18 47S 149 49 52E

27 20 00S 149 44 22E, 27 01 32S 149 42 40E

25 57 03S 150 00 00E, 25 20 31S 150 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE EFREQUENCY 123.95B

**LATERAL LIMITS:** 17 37 11S 118 45 34E, 16 11 05S 120 55 45E

18 15 00S 123 50 00E, 20 30 00S 123 50 00E

20 54 02S 123 18 47E, 20 03 18S 121 40 22E

19 00 00S 120 15 00E, 17 37 11S 118 45 34E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.1

**LATERAL LIMITS:** 13 56 01S 134 52 50E, 13 51 23S 133 57 09E

13 48 19S 133 40 00E, 13 38 37S 133 08 41E

then along the minor arc of a circle of 150.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 12 02S 133 27 00E

13 31 12S 134 44 11E,

then along the minor arc of a circle of 150.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 13 56 01S 134 52 50E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.1A1

**LATERAL LIMITS:** 25 01 14S 150 38 18E, 24 30 37S 151 00 24E

24 09 23S 151 52 49E, 24 07 58S 152 00 48E

25 08 01S 152 45 45E, 25 24 42S 152 15 54E

25 57 04S 151 21 59E, 25 01 14S 150 38 18E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.1A2

**LATERAL LIMITS:** 24 07 58S 152 00 48E, 23 57 39S 152 57 47E



24 58 55S 154 00 00E, 25 00 00S 153 00 00E  
25 08 01S 152 45 45E, 24 07 58S 152 00 48E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.6B1

**LATERAL LIMITS:** 25 57 04S 151 21 59E, 25 24 42S 152 15 54E  
25 08 01S 152 45 45E, 25 52 15S 153 19 26E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 21 06S 151 54 05E

25 57 04S 151 21 59E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.6B2

**LATERAL LIMITS:** 25 08 01S 152 45 45E, 25 00 00S 153 00 00E

24 58 55S 154 00 00E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 06 43S 154 21 26E

25 45 00S 154 00 00E, 26 04 31S 154 00 00E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 52 15S 153 19 26E

25 08 01S 152 45 45E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.8

**LATERAL LIMITS:** 31 36 02S 151 09 06E, 31 33 49S 151 29 57E

32 27 28S 151 05 59E, 32 26 34S 151 04 08E

then along the minor arc of a circle of 90.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 32 31 57S 150 33 47E

32 09 51S 150 31 51E, 32 04 00S 150 45 26E

31 48 47S 150 43 44E,

then along the minor arc of a circle of 45.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 44 02S 151 13 59E

31 36 02S 151 09 06E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE EFREQUENCY 124.8

**LATERAL LIMITS:** 18 15 00S 123 50 00E, 16 42 00S 126 28 00E

23 21 56S 126 31 34E, 23 23 49S 126 03 32E

21 31 19S 124 33 04E, 20 54 02S 123 18 47E

20 30 00S 123 50 00E, 18 15 00S 123 50 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 124.8A

**LATERAL LIMITS:** 31 50 00S 150 30 07E, 31 39 33S 150 42 42E

32 04 00S 150 45 26E, 32 09 51S 150 31 51E

31 50 00S 150 30 07E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE EFREQUENCY 124.8B

**LATERAL LIMITS:** 25 30 00S 144 30 00E, 24 19 19S 146 37 29E

25 50 45S 147 30 00E, 27 20 00S 147 35 45E

28 03 12S 147 05 18E, 29 00 00S 146 32 00E

29 00 00S 144 25 00E, 25 30 00S 144 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 125.0

**LATERAL LIMITS:** 13 13 21S 136 00 00E, 09 50 00S 136 00 00E

09 50 00S 139 40 00E, 11 36 30S 140 00 00E

14 00 00S 140 00 00E, 13 00 00S 139 00 00E

13 00 48S 137 56 54E, 13 13 21S 136 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE EFREQUENCY 125.4

**LATERAL LIMITS:** 23 10 00S 137 00 50E, 26 13 31S 138 23 24E

27 24 44S 140 30 09E, 24 44 01S 142 00 32E

23 10 00S 140 46 17E, 23 10 00S 137 00 50E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 125.7

**LATERAL LIMITS:** 15 42 12S 137 12 54E, 15 08 36S 138 20 42E

14 56 29S 138 52 36E, 15 00 00S 140 00 00E

15 18 31S 141 02 36E, 19 05 23S 140 05 10E

19 01 14S 137 40 20E, 17 20 18S 137 09 18E

15 42 12S 137 12 54E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 125.75

**LATERAL LIMITS:** 29 49 03S 151 12 35E, 30 26 19S 151 40 09E

30 28 21S 151 43 02E, 30 41 52S 152 02 20E

31 26 47S 151 33 04E, 31 33 49S 151 29 57E

31 36 02S 151 09 06E, 31 24 29S 151 02 04E

then along the minor arc of a circle of 23.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 09 51S 151 15 43E

31 07 51S 151 06 41E,

then along the minor arc of a circle of 15.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 30 48 57S 150 49 46E

30 25 04S 150 52 26E, 29 49 03S 151 12 35E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE EFREQUENCY 126.0

**LATERAL LIMITS:** 25 12 04S 147 07 36E, 25 27 29S 148 33 20E

25 12 58S 149 31 28E, 25 20 31S 150 00 00E

25 57 03S 150 00 00E, 27 01 32S 149 42 40E

27 20 00S 149 44 22E, 27 20 00S 147 35 45E

25 50 45S 147 30 00E, 25 12 04S 147 07 36E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE EFREQUENCY 127.1

**LATERAL LIMITS:** 29 00 00S 149 00 00E, 28 29 54S 151 16 32E

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 58 42S 151 47 37E

29 19 33S 151 28 53E, 30 25 04S 150 52 26E

30 48 57S 150 49 46E,

then along the minor arc of a circle of 15.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

31 39 33S 150 42 42E, 31 50 00S 150 30 07E

31 55 50S 150 30 38E, 32 00 00S 150 18 00E

32 21 54S 149 10 09E, 32 05 40S 148 49 51E

29 20 27S 146 46 41E, 29 08 07S 147 42 57E

29 00 00S 149 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 128.5**

**LATERAL LIMITS:** 15 52 37S 134 33 14E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 42 16S 134 56 58E  
15 46 48S 136 30 51E, 16 35 57S 137 10 56E  
17 20 18S 137 09 18E, 19 01 14S 137 40 20E  
18 00 00S 135 00 00E, 15 52 37S 134 33 14E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 128.55A**

**LATERAL LIMITS:** 20 43 43S 147 01 35E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 20 33 52S 147 31 25E  
22 35 15S 149 26 43E, 22 48 42S 149 09 24E  
22 52 45S 148 17 40E, 22 33 00S 147 44 50E  
22 23 44S 147 26 16E, 20 43 43S 147 01 35E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 128.55B**

**LATERAL LIMITS:** 20 37 58S 146 08 32E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 20 43 43S 147 01 35E  
22 23 44S 147 26 16E, 21 43 30S 146 06 56E  
21 26 57S 145 46 28E, 20 37 58S 146 08 32E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/BRISBANE EFREQUENCY 128.6**

**LATERAL LIMITS:** 34 28 18S 151 49 23E, 35 18 59S 152 55 50E  
then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 13 36S 152 25 23E  
36 29 26S 153 48 37E,

then along the minor arc of a circle of 200.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 31 07 50S 153 18 31E  
31 24 14S 153 10 33E, 32 53 01S 152 26 31E  
33 30 06S 151 54 31E,

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 129.85**

**LATERAL LIMITS:** 12 26 03S 126 19 25E, 10 20 53S 129 11 21E  
then along the minor arc of a circle of 160.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E  
10 01 27S 131 39 32E,

then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 14 10 15S 132 44 50E

then along the major arc of a circle of 30.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 59 01S 132 10 37E  
then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E  
12 26 03S 126 19 25E

**VERTICAL LIMITS:** Base of CTA - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 130.1**

**LATERAL LIMITS:** 30 41 52S 152 02 20E, 30 49 08S 152 20 33E

30 57 56S 152 06 42E,  
then along the minor arc of a circle of 65.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 31 24 18S 153 05 25E  
31 09 16S 153 05 46E, 31 08 07S 153 18 23E  
32 53 01S 152 26 31E, 32 50 05S 152 03 59E  
32 40 49S 151 34 15E, 32 36 02S 151 23 51E  
32 27 28S 151 05 59E, 31 26 47S 151 33 04E  
30 41 52S 152 02 20E

**VERTICAL LIMITS:** FL125 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 132.35**

**LATERAL LIMITS:** 32 36 02S 151 23 51E, 32 40 49S 151 34 15E  
32 50 05S 152 03 59E, 32 53 01S 152 26 31E  
33 21 40S 152 01 50E,

then along the minor arc of a circle of 55.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 02 10S 151 21 17E  
32 47 28S 151 24 14E, 32 36 02S 151 23 51E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/BRISBANE EFREQUENCY 133.05A**

**LATERAL LIMITS:** 32 33 39S 149 35 37E, 32 09 51S 150 31 51E  
32 31 57S 150 33 47E, 33 16 11S 150 46 53E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 25 35S 150 31 41E  
32 37 32S 149 29 53E, 32 33 39S 149 35 37E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/BRISBANE EFREQUENCY 133.05B**

**LATERAL LIMITS:** 32 21 54S 149 10 09E, 32 00 00S 150 18 00E  
31 55 50S 150 30 38E, 32 09 51S 150 31 51E  
32 33 39S 149 35 37E, 32 37 32S 149 29 53E  
32 21 54S 149 10 09E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 134.2**

**LATERAL LIMITS:** 29 49 03S 151 12 35E, 29 19 33S 151 28 53E  
28 19 11S 152 22 38E,

then along the minor arc of a circle of 70.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 26 13S 152 36 35E

then along the minor arc of a circle of 50.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 55 26S 153 54 34E  
30 40 20S 153 31 46E, 31 08 07S 153 18 23E  
31 09 16S 153 05 46E, 31 24 18S 153 05 25E

then along the minor arc of a circle of 65.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 57 56S 152 06 42E

30 49 08S 152 20 33E, 30 41 52S 152 02 20E

30 26 19S 151 40 09E, 29 49 03S 151 12 35E

**VERTICAL LIMITS:** 8500 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE EFREQUENCY 134.3**

**LATERAL LIMITS:** 26 41 15S 151 01 54E, 27 05 15S 152 15 28E

then along the minor arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 02 00S 152 34 27E

then along the minor arc of a circle of 50.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 06 25S 152 33 50E

28 58 42S 151 47 37E,

then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 134.3B**

**LATERAL LIMITS:** 25 45 00S 154 00 00E, 25 06 43S 154 21 26E  
then along the minor arc of a circle of 150.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 29 49 13S 153 42 58E  
28 29 50S 154 00 00E, 27 44 36S 154 00 00E  
27 44 06S 153 58 50E,  
then along the minor arc of a circle of 50.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 47 12S 153 48 43E  
26 37 23S 154 00 00E, 25 45 00S 154 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 135.3A1**

**LATERAL LIMITS:** 24 30 23S 149 04 48E, 24 20 45S 149 15 29E  
25 20 30S 150 00 07E, 25 20 31S 150 00 00E  
25 12 58S 149 31 28E, 24 30 23S 149 04 48E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 135.3A2**

**LATERAL LIMITS:** 24 20 45S 149 15 29E, 23 46 09S 149 53 31E  
24 38 10S 150 20 30E, 25 14 46S 150 48 49E  
25 20 30S 150 00 07E, 24 20 45S 149 15 29E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 135.5A1**

**LATERAL LIMITS:** 20 33 52S 147 31 25E,  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 19 24 06S 148 20 08E  
19 44 56S 148 57 43E, 20 38 57S 149 30 41E  
22 06 00S 150 32 06E, 22 06 00S 150 30 00E  
22 12 34S 150 25 27E, 22 15 00S 150 20 00E  
22 17 00S 150 12 00E, 22 14 32S 150 00 42E  
22 21 30S 149 51 54E, 22 28 48S 149 35 00E  
22 35 15S 149 26 43E, 20 33 52S 147 31 25E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 135.5A2**

**LATERAL LIMITS:** 19 22 01S 148 20 20E, 19 21 25S 148 42 02E  
19 44 56S 148 57 43E, 19 24 06S 148 20 08E  
then along the minor arc of a circle of 90.00NM radius centred on  
19 14 39S 146 45 30E (TL/DME) to 19 22 01S 148 20 20E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB/BRISBANE EFREQUENCY 135.5A3**

**LATERAL LIMITS:** 19 44 56S 148 57 43E, 21 59 16S 151 02 01E  
22 06 00S 150 45 00E, 22 06 00S 150 32 06E  
20 38 57S 149 30 41E, 19 44 56S 148 57 43E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YMMM/MELBOURNE E FREQUENCY 125.0A**

**LATERAL LIMITS:** 34 38 50S 149 48 48E, 34 20 25S 150 24 50E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 41 07S 151 02 28E

34 43 56S 151 00 00E, 34 56 07S 150 59 57E  
then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 19 57S 150 34 29E  
35 44 49S 150 37 09E, 35 25 48S 149 38 33E  
35 20 06S 149 48 12E, 35 12 37S 150 00 19E  
then along the minor arc of a circle of 40.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 47 38S 149 45 03E  
34 42 04S 149 51 19E,

then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 38 50S 149 48 48E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB-YMMM/MELBOURNE E FREQUENCY 125.0B**

**LATERAL LIMITS:** 34 41 07S 151 02 28E,  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
35 44 49S 150 37 09E, 35 19 57S 150 34 29E

then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E  
34 43 56S 151 00 00E, 34 41 07S 151 02 28E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YMMM/MELBOURNE EFREQUENCY 118.2**

**LATERAL LIMITS:** 31 57 45S 117 43 21E, 31 49 17S 119 05 17E  
31 43 07S 120 00 00E, 31 37 31S 120 30 04E  
32 18 57S 120 39 17E, 34 49 56S 120 17 22E  
33 54 00S 118 31 00E, 32 55 50S 117 17 52E

then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 57 45S 117 43 21E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YMMM/MELBOURNE EFREQUENCY 118.4**

**LATERAL LIMITS:** 29 18 00S 120 00 00E, 26 34 44S 124 00 00E  
28 03 46S 124 13 56E, 29 03 08S 124 01 16E  
30 11 36S 120 11 23E, 29 18 00S 120 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 118.5**

**LATERAL LIMITS:** 33 22 22S 148 22 27E, 32 37 32S 149 29 53E  
33 25 34S 150 31 41E,

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E  
33 47 37S 149 52 55E, 33 50 51S 149 34 59E

then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 59 41S 149 34 44E  
34 17 02S 148 27 30E, 33 22 22S 148 22 27E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Aircservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 118.5A**

**LATERAL LIMITS:** 32 05 40S 148 49 51E, 32 37 32S 149 29 53E  
33 22 22S 148 22 27E, 34 17 02S 148 27 30E

then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 29 18S 148 09 16E

33 17 56S 147 48 50E, 32 56 07S 148 03 26E  
32 38 09S 148 15 22E, 32 13 10S 148 34 40E

32 05 40S 148 49 51E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 118.6**

**LATERAL LIMITS:** 35 05 00S 143 26 12E, 36 01 52S 144 23 25E  
then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E

35 22 30S 146 31 36E, 35 05 21S 146 55 21E

35 04 06S 146 56 32E, 34 51 56S 145 52 00E

34 21 00S 145 25 46E, 33 37 00S 145 29 24E

33 08 00S 144 42 00E, 33 00 00S 144 00 00E

33 00 00S 143 31 00E, 35 05 00S 143 26 12E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 118.6A**

**LATERAL LIMITS:** 18 20 55S 116 48 24E, 17 37 11S 118 45 34E  
19 00 00S 120 15 00E, 19 39 17S 121 07 44E

21 28 47S 120 21 16E, 22 02 42S 118 30 00E

21 44 35S 117 32 27E,

then along the minor arc of a circle of 75.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 19 38 39S 117 27 59E

18 20 55S 116 48 24E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 118.95**

**LATERAL LIMITS:** 28 00 14S 118 38 07E, 25 00 00S 120 15 00E

25 00 00S 121 12 00E, 26 34 44S 124 00 00E

29 18 00S 120 00 00E, 28 08 53S 118 45 26E

28 00 14S 118 38 07E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 119.5A**

**LATERAL LIMITS:** 28 00 00S 138 00 00E, 26 13 31S 138 23 24E

28 01 21S 141 37 47E, 29 00 00S 141 00 00E

30 30 00S 141 00 00E, 30 30 00S 139 18 12E

29 47 00S 139 30 00E, 28 40 00S 139 30 00E

28 00 00S 138 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 119.5A1**

**LATERAL LIMITS:** 34 58 56S 147 40 34E, 34 51 49S 147 50 32E

35 05 05S 148 25 07E,

then along the minor arc of a circle of 40.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 51 58S 148 48 04E

36 07 04S 148 14 00E, 36 03 06S 147 17 40E

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 36 00 42S 147 17 15E

35 50 27S 147 50 48E,

then along the minor arc of a circle of 45.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 20 30S 147 12 04E

35 48 11S 147 00 28E,

then along the minor arc of a circle of 16.00NM radius centred on

36 04 05S 146 57 58E (AY/DME) to 35 54 01S 146 42 39E

35 43 36S 146 26 55E, 35 27 14S 146 47 07E

35 16 44S 147 11 48E,

then along the minor arc of a circle of 15.00NM radius centred on

35 09 57S 147 28 08E (WG/DME) to 34 58 56S 147 40 34E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 119.5A2**

**LATERAL LIMITS:** 34 57 44S 147 02 32E, 34 50 49S 147 47 58E

34 51 49S 147 50 32E, 34 58 56S 147 40 34E

then along the minor arc of a circle of 15.00NM radius centred on

35 09 57S 147 28 08E (WG/DME) to 35 16 44S 147 11 48E

35 27 14S 146 47 07E, 35 43 36S 146 26 55E

35 36 33S 146 16 20E, 35 22 30S 146 31 36E

35 05 21S 146 55 21E, 34 57 44S 147 02 32E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 119.8**

**LATERAL LIMITS:** 22 10 58S 130 13 35E, 21 12 09S 131 50 24E

21 12 32S 131 55 06E, 21 29 59S 136 19 44E

21 51 32S 136 22 25E, 22 17 51S 136 38 07E

25 01 04S 137 50 16E, 25 54 00S 136 43 30E

26 07 34S 136 26 07E, 25 53 07S 132 58 36E

25 11 48S 133 17 11E,

then along the minor arc of a circle of 90.00NM radius centred on

23 47 34S 133 52 42E (AS/DME) to 23 46 38S 132 14 34E

22 29 53S 130 37 07E, 22 10 58S 130 13 35E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 120.0A1**

**LATERAL LIMITS:** 38 00 33S 144 23 23E,

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 08 38S 144 40 49E

38 19 34S 144 53 53E, 38 30 58S 145 07 38E

39 08 42S 145 07 34E, 39 18 49S 145 07 33E

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 46 14S 143 15 50E

38 08 36S 144 21 49E, 38 00 33S 144 23 23E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 120.7**

**LATERAL LIMITS:** 28 09 51S 131 36 52E, 25 53 07S 132 58 36E

26 07 34S 136 26 07E, 25 54 00S 136 43 30E

25 01 04S 137 50 16E, 26 13 31S 138 23 24E

28 00 00S 138 00 00E, 29 00 00S 136 49 51E

29 05 21S 136 39 00E, 30 20 56S 133 59 57E

28 09 51S 131 36 52E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 120.75**

**LATERAL LIMITS:** 37 35 10S 147 58 46E, 37 30 00S 149 00 00E

38 00 00S 149 00 00E, 38 00 00S 150 23 12E

36 56 43S 150 45 03E, 35 44 49S 150 37 09E

35 25 48S 149 38 33E, 35 33 27S 149 25 31E

35 45 49S 149 01 48E, 36 07 04S 148 14 00E

37 22 37S 147 40 33E,

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 37 35 10S 147 58 46E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 121.2A**

**LATERAL LIMITS:** 29 00 00S 136 49 51E, 28 00 00S 138 00 00E

28 40 00S 139 30 00E, 29 47 00S 139 30 00E

30 30 00S 139 18 12E, 31 35 00S 139 00 00E

31 35 00S 137 50 00E, 30 00 00S 137 30 00E  
29 05 21S 136 39 00E, 29 00 00S 136 49 51E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE EFREQUENCY 121.85**

**LATERAL LIMITS:** 23 19 20S 127 08 08E, 23 13 13S 128 27 49E  
22 10 58S 130 13 35E, 22 29 53S 130 37 07E

23 46 38S 132 14 34E,

then along the minor arc of a circle of 90.00NM radius centred on  
23 47 34S 133 52 42E (AS/DME) to 25 11 48S 133 17 11E

25 53 07S 132 58 36E, 28 09 51S 131 36 52E

28 30 11S 131 11 49E, 28 50 26S 130 46 36E

26 34 25S 128 30 29E, 26 07 08S 128 06 49E

24 29 09S 128 06 49E, 23 19 20S 127 08 08E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.0A**

**LATERAL LIMITS:** 30 20 56S 133 59 57E, 29 05 21S 136 39 00E

30 00 00S 137 30 00E, 31 35 00S 137 50 00E

31 35 00S 135 25 00E, 30 20 56S 133 59 57E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.1**

**LATERAL LIMITS:** 35 05 00S 141 21 38E, 35 05 00S 143 26 12E

33 00 00S 143 31 00E, 33 20 34S 140 34 10E

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 05 00S 141 21 38E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.1D**

**LATERAL LIMITS:** 26 15 00S 112 08 35E, 23 30 00S 111 44 17E

23 30 00S 116 00 00E, 23 18 47S 117 00 21E

25 00 00S 116 58 41E, 25 00 00S 116 00 00E

26 15 00S 114 33 13E, 26 15 00S 112 08 35E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.4**

**LATERAL LIMITS:** 31 15 48S 112 56 25E, 30 00 00S 112 43 56E

30 00 13S 113 49 39E, 31 31 15S 115 07 04E

then along the minor arc of a circle of 50.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 34 11S 115 18 26E

32 23 51S 115 29 38E, 32 13 29S 115 40 47E

32 13 49S 115 56 52E, 32 13 35S 116 05 03E

32 15 56S 116 10 15E, 32 24 16S 116 24 56E

32 32 16S 116 39 06E, 32 49 45S 117 10 21E

32 55 50S 117 17 52E, 33 54 00S 118 31 00E

34 49 56S 120 17 22E, 36 43 12S 120 00 00E

36 25 00S 116 40 00E, 35 10 52S 115 17 43E

34 11 13S 114 13 59E,

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 33 43 31S 113 35 57E

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E

**VERTICAL LIMITS:** 8500 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.4C**

**LATERAL LIMITS:** 19 22 41S 115 42 36E, 18 47 59S 115 33 44E

18 20 55S 116 48 24E, 19 38 39S 117 27 59E

then along the minor arc of a circle of 75.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 21 56 49S 117 01 39E

23 18 47S 117 00 21E, 23 30 00S 116 00 00E

23 30 00S 115 00 38E, 23 00 00S 115 02 20E

21 44 00S 114 45 41E,

then along the minor arc of a circle of 20.00NM radius centred on

21 39 59S 115 06 43E (ONSLO/WPT) to 21 34 42S 114 46 01E

19 49 03S 115 16 40E,

then along the minor arc of a circle of 100.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 19 22 41S 115 42 36E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.6**

**LATERAL LIMITS:** 30 30 00S 139 18 12E, 30 30 00S 141 00 00E

30 30 00S 142 00 00E, 31 00 00S 142 48 44E

31 47 54S 143 31 00E, 33 00 00S 143 31 00E

33 20 34S 140 34 10E,

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 32 52 09S 139 48 32E

31 35 00S 139 00 00E, 30 30 00S 139 18 12E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.6A**

**LATERAL LIMITS:** 40 30 00S 141 00 00E, 40 30 00S 145 00 00E

40 00 00S 145 00 00E, 39 47 36S 145 07 30E

40 59 50S 145 34 16E, 41 24 40S 145 50 46E

41 18 00S 145 15 00E, 41 18 00S 141 00 00E

40 30 00S 141 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 122.6B**

**LATERAL LIMITS:** 27 43 20S 116 16 48E, 25 00 00S 116 32 41E

25 00 00S 120 15 00E, 28 00 14S 118 38 07E

27 43 20S 116 16 48E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 123.05**

**LATERAL LIMITS:** 35 30 01S 135 00 00E, 35 30 01S 136 49 20E

35 10 16S 137 50 47E,

then along the minor arc of a circle of 36.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 32 07S 138 22 30E

36 24 22S 138 05 12E, 36 42 46S 138 05 12E

36 10 04S 135 00 00E, 35 30 01S 135 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 123.4**

**LATERAL LIMITS:** 22 02 42S 118 30 00E, 21 28 47S 120 21 16E

25 00 00S 120 15 00E, 25 00 00S 118 30 00E

22 02 42S 118 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.5**

**LATERAL LIMITS:** 28 31 36S 132 00 00E, 31 35 00S 135 25 00E  
32 25 45S 135 02 01E, 32 59 42S 135 08 00E  
33 39 49S 134 16 47E, 34 46 18S 135 00 00E  
36 10 04S 135 00 00E, 36 57 30S 139 40 00E  
37 49 05S 139 40 00E, 38 54 04S 139 40 00E  
38 54 04S 141 00 00E, 42 21 00S 141 00 00E  
40 44 46S 135 00 00E, 39 47 33S 132 00 00E  
28 31 36S 132 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.75**

**LATERAL LIMITS:** 36 51 13S 144 53 03E, 36 24 04S 145 23 46E  
then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 58 46S 146 28 34E  
37 50 41S 145 45 32E,  
then along the minor arc of a circle of 45.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 54 35S 144 52 52E  
36 51 13S 144 53 03E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.75A**

**LATERAL LIMITS:** 37 21 00S 146 41 12E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 17 30S 146 53 03E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 03 16S 146 53 14E  
38 01 01S 146 40 53E,  
then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 21 00S 146 41 12E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.8**

**LATERAL LIMITS:** 40 59 50S 145 34 16E, 40 00 02S 145 12 02E  
40 00 00S 145 48 00E, 40 00 00S 146 58 00E  
40 00 02S 147 21 09E,  
then along the minor arc of a circle of 30.00NM radius centred on  
40 05 29S 147 59 34E (YFLI/AD) to 39 51 42S 147 24 53E  
41 14 33S 148 38 07E, 42 06 26S 148 02 44E  
then along the minor arc of a circle of 50.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 02 46S 147 50 19E  
41 27 27S 147 25 05E, 41 17 40S 147 47 21E  
then along the minor arc of a circle of 30.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 06 21S 147 32 00E  
40 44 24S 147 47 49E,  
then along the minor arc of a circle of 55.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 06 13S 146 08 45E  
41 31 39S 147 00 31E, 41 41 54S 147 04 52E  
41 54 56S 147 02 07E,  
then along the minor arc of a circle of 60.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 15 56S 146 25 34E  
40 59 50S 145 34 16E

**VERTICAL LIMITS:** FL125 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.95**

**LATERAL LIMITS:** 41 18 00S 141 00 00E, 41 18 00S 145 15 00E  
41 24 40S 145 50 46E, 42 10 22S 146 21 44E  
42 47 56S 142 28 50E, 42 21 00S 141 00 00E  
41 18 00S 141 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.9A**

**LATERAL LIMITS:** 32 25 45S 135 02 01E, 31 35 00S 135 25 00E  
31 35 00S 137 50 00E, 31 35 00S 139 00 00E  
32 52 09S 139 48 32E,  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 01 22S 140 07 05E  
33 34 18S 139 39 53E,  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 20 07S 138 00 03E  
33 29 41S 138 03 36E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 47 58S 137 21 17E  
33 35 00S 137 16 00E, 32 25 45S 135 02 01E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 123.9A1**

**LATERAL LIMITS:** 31 53 55S 147 07 20E, 31 20 57S 148 15 39E  
32 05 40S 148 49 51E, 32 13 10S 148 34 40E  
32 38 09S 148 15 22E, 32 56 07S 148 03 26E  
33 17 56S 147 48 50E, 33 03 21S 146 42 48E  
31 53 55S 147 07 20E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 123.9A2**

**LATERAL LIMITS:** 32 18 36S 148 24 45E, 32 05 16S 148 41 55E  
32 37 32S 149 29 53E, 32 59 58S 148 56 23E  
32 18 36S 148 24 45E

**VERTICAL LIMITS:** FL125 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 123.9B**

**LATERAL LIMITS:** 38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
39 47 36S 145 07 30E, 40 00 00S 145 00 00E  
40 30 00S 145 00 00E, 40 30 00S 141 00 00E  
38 54 04S 141 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 124.0A1**

**LATERAL LIMITS:** 37 26 42S 146 29 49E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 21 00S 146 41 12E  
then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 36 40S 146 18 48E  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 27 32S 146 11 41E  
then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 26 42S 146 29 49E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 124.0A2**

**LATERAL LIMITS:** 37 17 30S 146 53 03E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 35 10S 147 58 46E  
37 30 00S 149 00 00E, 38 00 00S 149 00 00E  
38 00 00S 150 23 12E, 38 11 19S 150 19 14E  
40 00 00S 150 33 54E, 40 34 02S 150 38 39E  
40 00 02S 148 37 58E,  
then along the minor arc of a circle of 30.00NM radius centred on

40 05 29S 147 59 34E (YFLI/AD) to 39 37 48S 147 44 28E  
38 55 15S 147 19 54E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 17 30S 146 53 03E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 124.3A

**LATERAL LIMITS:** 33 01 22S 140 07 05E,  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 35 34S 141 15 48E  
35 26 14S 140 28 06E,  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E  
33 01 22S 140 07 05E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 124.5

**LATERAL LIMITS:** 27 30 00S 112 20 01E, 26 15 00S 112 08 35E  
26 15 00S 114 33 13E, 25 00 00S 116 00 00E  
25 00 00S 116 32 41E, 27 43 20S 116 16 48E  
27 41 09S 116 00 00E, 27 30 00S 112 20 01E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 124.9

**LATERAL LIMITS:** 29 53 53S 142 40 54E, 29 15 18S 143 16 11E  
31 53 55S 147 07 20E, 33 03 21S 146 42 48E  
32 57 11S 146 15 43E, 33 11 36S 145 31 23E  
33 37 00S 145 29 24E, 33 08 00S 144 42 00E  
33 00 00S 144 00 00E, 33 00 00S 143 31 00E  
31 47 54S 143 31 00E, 31 00 00S 142 48 44E  
29 53 53S 142 40 54E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.0

**LATERAL LIMITS:** 34 38 50S 149 48 48E, 34 28 20S 150 09 25E  
34 25 42S 150 14 34E,  
then along the minor arc of a circle of 55.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 46 20S 150 42 19E  
34 39 16S 150 53 26E,  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 41 07S 151 02 28E  
34 43 56S 151 00 00E, 34 56 07S 150 59 57E  
then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 19 57S 150 34 29E  
35 44 49S 150 37 09E, 35 25 48S 149 38 33E  
35 20 06S 149 48 12E, 35 12 37S 150 00 19E  
then along the minor arc of a circle of 40.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 47 38S 149 45 03E  
34 42 04S 149 51 19E,  
then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 38 50S 149 48 48E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.2A Z

**LATERAL LIMITS:** 30 57 36S 114 38 05E, 30 00 13S 113 49 39E  
then along the minor arc of a circle of 160.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 20 17S 118 26 34E

31 02 15S 117 21 30E,  
then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 57 36S 114 38 05E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.2B

**LATERAL LIMITS:** 31 31 15S 115 07 04E, 30 57 36S 114 38 05E  
then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 28 02S 116 16 47E  
31 07 27S 116 08 19E,  
then along the minor arc of a circle of 50.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 31 15S 115 07 04E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.2B1

**LATERAL LIMITS:** 36 19 28S 145 41 54E, 35 43 36S 146 26 55E  
35 54 01S 146 42 39E,  
then along the minor arc of a circle of 16.00NM radius centred on  
36 04 05S 146 57 58E (AY/DME) to 36 09 40S 146 39 28E  
36 27 40S 146 10 33E,  
then along the minor arc of a circle of 45.00NM radius centred on  
36 04 05S 146 57 58E (AY/DME) to 36 48 28S 146 48 17E  
36 20 06S 146 58 50E,  
then along the minor arc of a circle of 16.00NM radius centred on  
36 04 05S 146 57 58E (AY/DME) to 36 03 06S 147 17 40E  
36 07 04S 148 14 00E, 36 14 52S 147 56 10E  
37 01 50S 146 33 00E,  
then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 21 00S 146 41 12E  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 26 42S 146 29 49E  
then along the minor arc of a circle of 80.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 24 04S 145 23 46E  
36 16 05S 145 32 42E,  
then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 19 28S 145 41 54E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.2B2

**LATERAL LIMITS:** 37 01 50S 146 33 00E, 36 14 52S 147 56 10E  
36 07 04S 148 14 00E, 37 22 37S 147 40 33E  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 21 00S 146 41 12E  
then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 01 50S 146 33 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE EFREQUENCY 125.2B3

**LATERAL LIMITS:** 36 08 13S 145 41 28E, 35 36 33S 146 16 20E  
35 43 36S 146 26 55E, 36 12 07S 145 51 12E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/MELBOURNE EFREQUENCY 125.35

**LATERAL LIMITS:** 29 00 00S 146 32 00E, 31 20 57S 148 15 39E  
31 53 55S 147 07 20E, 29 15 18S 143 16 11E  
29 00 00S 143 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.3A1**

**LATERAL LIMITS:** 33 42 46S 139 33 28E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 24 22S 138 05 12E  
35 45 40S 138 18 03E,  
then along the minor arc of a circle of 50.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 16 35S 139 07 33E  
33 42 46S 139 33 28E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.3A2**

**LATERAL LIMITS:** 33 42 47S 139 33 28E, 33 34 18S 139 39 53E  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 34 40S 138 05 12E  
36 24 22S 138 05 12E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 42 47S 139 33 28E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 125.55**

**LATERAL LIMITS:** 42 47 56S 142 28 50E, 42 10 22S 146 21 44E  
42 22 31S 146 30 07E, 42 40 01S 146 53 37E  
42 46 40S 147 03 30E, 42 48 40S 147 18 48E  
42 51 58S 147 21 33E, 42 57 18S 147 31 40E  
43 18 49S 148 02 31E,

then along the minor arc of a circle of 36.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 43 01S 148 19 20E  
42 47 26S 147 52 51E,

then along the minor arc of a circle of 16.00NM radius centred on  
42 50 50S 147 31 36E (HB/DME) to 42 36 38S 147 41 38E  
42 30 00S 147 46 18E, 42 30 00S 150 55 29E  
43 00 00S 151 00 00E, 43 51 03S 150 39 53E  
43 31 15S 149 21 30E, 43 43 48S 145 51 48E  
42 47 56S 142 28 50E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.7**

**LATERAL LIMITS:** 25 00 00S 116 58 41E, 21 56 49S 117 01 39E  
then along the minor arc of a circle of 75.00NM radius centred on  
20 42 54S 116 46 26E (KA/DME) to 21 44 35S 117 32 27E  
22 02 42S 118 30 00E, 25 00 00S 118 30 00E  
25 00 00S 116 58 41E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.75**

**LATERAL LIMITS:** 30 11 36S 120 11 23E, 29 03 08S 124 01 16E  
31 16 00S 123 32 00E, 31 27 10S 121 23 57E  
31 37 31S 120 30 04E, 30 11 36S 120 11 23E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.8**

**LATERAL LIMITS:** 36 40 00S 139 40 00E, 38 54 04S 139 40 00E  
38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 01 52S 144 23 25E

35 05 00S 143 26 12E, 35 05 00S 141 21 38E  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E  
36 28 41S 141 00 00E, 36 40 00S 139 40 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.9**

**LATERAL LIMITS:** 32 25 45S 135 02 01E, 33 35 00S 137 16 00E  
33 47 58S 137 21 17E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 30 01S 136 49 20E  
35 30 01S 135 00 00E, 34 46 18S 135 00 00E  
33 39 49S 134 16 47E, 32 59 42S 135 08 00E  
32 25 45S 135 02 01E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 125.9C**

**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E  
18 47 59S 115 33 44E, 19 22 41S 115 42 36E  
then along the minor arc of a circle of 100.00NM radius centred on  
20 42 54S 116 46 26E (KA/DME) to 19 49 03S 115 16 40E  
21 34 42S 114 46 01E,

then along the minor arc of a circle of 20.00NM radius centred on  
21 39 59S 115 06 43E (ONSLO/WPT) to 21 44 00S 114 45 41E  
23 00 00S 115 02 20E, 23 30 00S 115 00 38E  
23 30 00S 111 44 17E, 21 50 00S 111 30 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 126.5**

**LATERAL LIMITS:** 29 00 00S 141 00 00E, 28 01 21S 141 37 47E  
29 00 00S 143 30 00E, 29 53 53S 142 40 54E  
31 00 00S 142 48 44E, 30 30 00S 142 00 00E  
30 30 00S 141 00 00E, 29 00 00S 141 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE EFREQUENCY 126.5A**

**LATERAL LIMITS:** 39 51 42S 147 24 53E,  
then along the minor arc of a circle of 30.00NM radius centred on  
40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 148 37 58E  
40 34 02S 150 38 39E, 42 30 00S 150 55 29E  
42 30 00S 147 46 18E, 42 06 26S 148 02 44E  
41 14 33S 148 38 07E, 39 51 42S 147 24 53E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 126.8**

**LATERAL LIMITS:** 38 29 36S 143 00 48E, 37 54 04S 144 17 22E  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 00 33S 144 23 23E  
38 08 36S 144 21 49E, 38 46 14S 143 15 50E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 29 36S 143 00 48E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 127.05**

**LATERAL LIMITS:** 35 20 56S 137 17 51E,  
then along the minor arc of a circle of 65.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 03 55S 139 17 19E  
34 16 35S 139 07 33E,



then along the minor arc of a circle of 50.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 15 26S 137 34 54E 35 20 56S 137 17 51E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 127.05A**

**LATERAL LIMITS:** 35 30 01S 136 49 20E,  
then along the minor arc of a circle of 90.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 42 46S 139 33 28E 34 03 55S 139 17 19E,  
then along the minor arc of a circle of 65.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 35 20 56S 137 17 51E 35 30 01S 136 49 20E

**VERTICAL LIMITS:** 8500 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 127.05B**

**LATERAL LIMITS:** 33 20 07S 138 00 03E,  
then along the minor arc of a circle of 100.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E 33 42 46S 139 33 28E,  
then along the minor arc of a circle of 90.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E 33 20 07S 138 00 03E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 127.0B**

**LATERAL LIMITS:** 39 18 49S 145 07 33E,  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E 39 51 42S 147 24 53E,  
then along the minor arc of a circle of 30.00NM radius centred on 40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 147 21 09E 40 00 00S 146 58 00E, 40 00 00S 145 48 00E 40 00 02S 145 12 02E, 39 47 36S 145 07 30E 39 18 49S 145 07 33E

**VERTICAL LIMITS:** FL125 - FL180

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 128.4**

**LATERAL LIMITS:** 34 50 49S 147 47 58E, 34 50 04S 147 52 58E  
then along the minor arc of a circle of 70.00NM radius centred on 35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E 33 59 41S 149 34 44E,  
then along the minor arc of a circle of 80.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E 34 47 38S 149 45 03E,  
then along the minor arc of a circle of 40.00NM radius centred on 35 16 53S 149 11 45E (CB/DME) to 35 05 05S 148 25 07E 34 50 49S 147 47 58E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 129.8**

**LATERAL LIMITS:** 33 50 51S 149 34 59E, 33 47 37S 149 52 55E 33 49 08S 150 05 23E,  
then along the minor arc of a circle of 55.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 34 25 42S 150 14 34E 34 28 20S 150 09 25E, 34 38 50S 149 48 48E  
then along the minor arc of a circle of 80.00NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 33 50 51S 149 34 59E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 130.3**

**LATERAL LIMITS:** 38 44 00S 146 27 40E,  
then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 38 55 15S 147 19 54E 39 37 48S 147 44 28E,  
then along the minor arc of a circle of 30.00NM radius centred on 40 05 29S 147 59 34E (YFLI/AD) to 39 51 42S 147 24 53E 38 44 00S 146 27 40E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE EFREQUENCY 130.9A**

**LATERAL LIMITS:** 26 34 44S 124 00 00E, 23 23 49S 126 03 32E 23 19 20S 127 08 08E, 24 29 09S 128 06 49E 26 07 08S 128 06 49E, 26 34 25S 128 30 29E 27 04 35S 129 00 00E, 30 00 01S 129 00 00E 30 00 01S 127 50 00E, 30 00 01S 123 48 54E 28 03 46S 124 13 56E, 26 34 44S 124 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 132.7A**

**LATERAL LIMITS:** 27 04 35S 129 00 00E, 28 50 26S 130 46 36E 28 30 11S 131 11 49E, 28 09 51S 131 36 52E 28 31 36S 132 00 00E, 39 47 33S 132 00 00E 38 17 19S 127 50 00E, 30 00 01S 127 50 00E 30 00 01S 129 00 00E, 27 04 35S 129 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 133.2**

**LATERAL LIMITS:** 36 43 12S 120 00 00E, 34 49 56S 120 17 22E 32 18 57S 120 39 17E, 31 37 31S 120 30 04E 31 27 10S 121 23 57E, 31 16 00S 123 32 00E 37 10 38S 125 04 54E, 36 43 12S 120 00 00E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 133.8**

**LATERAL LIMITS:** 29 16 29S 115 49 44E, 27 40 44S 115 49 10E 27 41 09S 116 00 00E, 28 00 14S 118 38 07E 28 08 53S 118 45 26E, 29 18 00S 120 00 00E 30 20 17S 118 26 34E,  
then along the minor arc of a circle of 160.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 29 16 29S 115 49 44E

**VERTICAL LIMITS:** FL180 - FL245

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE EFREQUENCY 133.9**

**LATERAL LIMITS:** 31 07 27S 116 08 19E, 30 28 02S 116 16 47E  
then along the minor arc of a circle of 90.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 02 15S 117 21 30E 31 39 59S 117 05 11E, 31 43 52S 116 54 19E  
then along the minor arc of a circle of 50.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 07 27S 116 08 19E

**VERTICAL LIMITS:** 8500 - FL125

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE EFREQUENCY 133.9A****LATERAL LIMITS:** 31 43 52S 116 54 19E, 31 39 59S 117 05 11E  
31 02 15S 117 21 30E,then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 55 50S 117 17 52E  
32 49 45S 117 10 21E, 32 32 16S 116 39 06Ethen along the minor arc of a circle of 50.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 43 52S 116 54 19E**VERTICAL LIMITS:** 8500 - FL125**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 134.2A****LATERAL LIMITS:** 30 00 01S 123 48 54E, 30 00 01S 127 50 00E

38 17 19S 127 50 00E, 37 10 38S 125 04 54E

31 16 00S 123 32 00E, 30 00 01S 123 48 54E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 134.2B****LATERAL LIMITS:** 30 00 00S 112 43 56E, 27 30 00S 112 20 01E

27 40 44S 115 49 10E, 29 16 29S 115 49 44E

then along the minor arc of a circle of 160.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 00 13S 113 49 39E

30 00 00S 112 43 56E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 134.325A1****LATERAL LIMITS:** 38 24 34S 143 11 49E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 16 05S 145 32 42E

36 51 13S 144 53 03E, 36 54 35S 144 52 52E

then along the minor arc of a circle of 45.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 01 46S 144 01 04E

38 24 34S 143 11 49E

**VERTICAL LIMITS:** 8500 - FL125**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 134.325A2****LATERAL LIMITS:** 38 29 36S 143 00 48E,

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E

36 16 05S 145 32 42E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 24 34S 143 11 49E

38 29 36S 143 00 48E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/MELBOURNE EFREQUENCY 134.5****LATERAL LIMITS:** 21 28 47S 120 21 16E, 19 39 17S 121 07 44E

20 03 18S 121 40 22E, 21 31 19S 124 33 04E

23 23 49S 126 03 32E, 26 34 44S 124 00 00E

25 00 00S 121 12 00E, 25 00 00S 120 15 00E

21 28 47S 120 21 16E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 134.65****LATERAL LIMITS:** 33 11 36S 145 31 23E, 32 57 11S 146 15 43E

33 17 56S 147 48 50E, 34 29 18S 148 09 16E

then along the minor arc of a circle of 70.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E

34 57 44S 147 02 32E, 35 04 06S 146 56 32E

34 51 56S 145 52 00E, 34 21 00S 145 25 46E

33 37 00S 145 29 24E, 33 11 36S 145 31 23E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 135.3A****LATERAL LIMITS:** 38 36 40S 146 18 48E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 01 01S 146 40 53E

38 03 16S 146 53 14E,

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 38 36 40S 146 18 48E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 135.3A1****LATERAL LIMITS:** 38 24 07S 144 59 21E,

then along the minor arc of a circle of 45.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 50 41S 145 45 32E

37 58 46S 146 28 34E,

then along the minor arc of a circle of 80.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 27 32S 146 11 41E

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 38 36 40S 146 18 48E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 39 08 42S 145 07 34E

38 30 58S 145 07 38E, 38 24 07S 144 59 21E

**VERTICAL LIMITS:** 8500 - FL125**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 135.3A2****LATERAL LIMITS:** 39 08 42S 145 07 34E,

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 36 40S 146 18 48E

38 44 00S 146 27 40E,

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E

39 08 42S 145 07 34E

**VERTICAL LIMITS:** FL125 - FL180**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 135.45****LATERAL LIMITS:** 35 26 14S 140 28 06E, 35 35 34S 141 15 48E

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E

36 28 41S 141 00 00E, 36 40 00S 139 40 00E

36 57 30S 139 40 00E, 36 42 46S 138 05 12E

36 34 40S 138 05 12E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 26 14S 140 28 06E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/MELBOURNE EFREQUENCY 135.8****LATERAL LIMITS:** 31 02 15S 117 21 30E, 30 20 17S 118 26 34E

29 18 00S 120 00 00E, 29 38 08S 120 04 15E

29 48 29S 120 06 27E, 30 11 36S 120 11 23E

31 37 31S 120 30 04E, 31 43 07S 120 00 00E

31 49 17S 119 05 17E, 31 57 45S 117 43 21E

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 02 15S 117 21 30E

**VERTICAL LIMITS:** FL180 - FL245**CONTROLLING AUTHORITY:** Airservices Australia

## SECTION 12 - FLIGHT INFORMATION AREAS

Within Australian FIR the Flight Information Service for operations in uncontrolled airspace is organised on the basis of Flight Information Areas. Within each FIR FIS is provided by the Air Traffic Service Unit servicing the appropriate FIA.

**VERTICAL LIMITS:** FIA and FIA sectors extend vertically unlimited excluding controlled airspace when active.

### YMMM/ADELAIDE CENTRE 130.45

**LATERAL LIMITS:** 34 21 27S 138 22 59E, 34 08 00S 138 17 55E

then along the minor arc of a circle of 50.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 16 35S 139 07 33E 34 28 26S 138 58 24E,

then along the major arc of a circle of 36.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 21 27S 138 22 59E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 118.1

**LATERAL LIMITS:** 16 55 10S 131 36 45E, then along the minor arc of a circle of 150.00NM radius centred on 14 31 16S 132 22 40E (YPTN/AD) to 15 52 37S 134 33 14E 18 00 00S 135 00 00E, 19 00 00S 131 30 00E

17 10 35S 131 30 00E, 16 55 10S 131 36 45E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 118.15

**LATERAL LIMITS:** 12 03 35S 131 51 30E, then along the minor arc of a circle of 60.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 13 22 17S 130 34 07E 13 50 31S 130 23 20E, 15 05 44S 129 54 21E

then along the minor arc of a circle of 170.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E 12 26 03S 126 19 25E, 10 20 53S 129 11 21E

then along the minor arc of a circle of 160.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 09 48 39S 131 30 25E 10 01 27S 131 39 32E,

then along the minor arc of a circle of 150.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E 12 03 35S 131 51 30E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 118.2

**LATERAL LIMITS:** 16 42 00S 126 28 00E, 19 58 17S 126 29 43E

18 42 49S 129 32 58E, 17 23 39S 128 42 09E 17 02 40S 128 28 50E, 16 42 00S 126 28 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 118.2C

**LATERAL LIMITS:** 16 03 03S 143 16 41E, 15 30 25S 141 43 29E

15 00 00S 140 00 00E, 14 00 00S 140 00 00E 14 00 00S 142 00 00E, 12 40 00S 144 00 00E

12 00 00S 144 00 00E, 12 00 05S 144 42 11E

14 25 18S 145 05 11E,

then along the minor arc of a circle of 150.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 03 03S 143 16 41E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 118.6

**LATERAL LIMITS:** 19 05 23S 140 05 10E, 15 18 31S 141 02 36E

15 30 25S 141 43 29E, 16 03 03S 143 16 41E

then along the minor arc of a circle of 150.00NM radius centred on 16 51 01S 145 44 38E (CS/DME) to 16 57 54S 143 08 22E

18 17 48S 143 50 32E, 19 05 00S 142 50 00E

20 01 56S 141 07 40E,

then along the minor arc of a circle of 100.00NM radius centred on 20 39 53S 139 29 09E (MA/DME) to 19 22 34S 140 36 52E

19 05 23S 140 05 10E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 118.8

**LATERAL LIMITS:** 27 24 44S 140 30 09E, 24 44 01S 142 00 32E

25 30 00S 143 40 00E, 25 30 00S 144 30 00E

29 00 00S 144 25 00E, 29 00 00S 143 30 00E

27 24 44S 140 30 09E

**VERTICAL LIMITS:** SFC - FL200

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 118.9

**LATERAL LIMITS:** 19 58 17S 126 29 43E, 18 42 49S 129 32 58E

19 00 00S 130 00 00E, 19 00 00S 131 30 00E

21 12 32S 131 55 06E, 21 12 09S 131 50 24E

23 13 13S 128 27 49E, 23 21 56S 126 31 34E

19 58 17S 126 29 43E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 118.95

**LATERAL LIMITS:** 27 20 00S 147 35 45E, 27 20 00S 149 44 22E

28 18 47S 149 49 52E, 28 47 21S 149 58 48E

29 00 00S 149 00 00E, 29 08 07S 147 42 57E

29 20 27S 146 46 41E, 29 00 00S 146 32 00E

28 03 12S 147 05 18E, 27 20 00S 147 35 45E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 119.5

**LATERAL LIMITS:** 27 47 06S 152 49 49E,

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 35 19S 153 38 35E  
 27 44 36S 154 00 00E, 28 24 39S 154 00 00E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 28 27S 153 03 16E  
 28 26 13S 152 36 35E,

then along the minor arc of a circle of 70.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 28 19 11S 152 22 38E  
 27 53 24S 152 45 11E, 27 47 06S 152 49 49E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 119.55A**

**LATERAL LIMITS:** 23 05 40S 149 20 16E, 22 48 42S 149 09 24E

22 28 48S 149 35 00E, 22 21 30S 149 51 54E  
 22 14 32S 150 00 42E, 22 17 00S 150 12 00E  
 22 15 00S 150 20 00E, 22 12 34S 150 25 27E  
 22 06 00S 150 30 00E, 22 06 00S 150 45 00E  
 21 39 12S 151 52 08E, 22 15 21S 152 02 50E  
 23 13 18S 153 14 30E, 23 51 30S 153 30 48E  
 23 57 39S 152 57 47E, 24 07 58S 152 00 48E  
 24 09 23S 151 52 49E, 24 30 37S 151 00 24E  
 25 01 14S 150 38 18E, 24 38 10S 150 20 30E  
 23 10 00S 149 35 00E, 23 05 40S 149 20 16E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 119.8**

**LATERAL LIMITS:** 19 05 00S 142 50 00E, 18 17 48S 143 50 32E

18 34 39S 144 46 06E, 18 20 13S 145 29 46E  
 then along the minor arc of a circle of 90.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 20 37 58S 146 08 32E  
 21 26 57S 145 46 28E, 21 51 14S 145 35 26E  
 21 43 33S 145 25 58E, 21 43 42S 143 53 44E  
 19 05 00S 142 50 00E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.15**

**LATERAL LIMITS:** 18 17 48S 143 50 32E, 16 57 54S 143 08 22E

then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 16 41 46S 143 08 34E  
 16 48 58S 145 07 09E,

then along the minor arc of a circle of 36.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 17 13 34S 145 15 18E  
 18 17 48S 143 50 32E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.3A**

**LATERAL LIMITS:** 29 05 27S 152 54 16E,

then along the minor arc of a circle of 15.00NM radius centred on  
 28 52 28S 153 02 54E to 28 37 51S 152 58 56E  
 28 35 17S 153 11 35E,

then along the minor arc of a circle of 30.00NM radius centred on  
 28 10 08S 153 30 14E (CG/DME) to 28 24 39S 154 00 00E  
 28 29 50S 154 00 00E, 29 34 45S 153 46 07E  
 29 33 39S 153 31 20E,

then along the minor arc of a circle of 50.00NM radius centred on  
 30 19 10S 153 07 16E (CFS/DME) to 29 31 33S 152 49 19E  
 29 29 11S 152 33 29E, 29 05 27S 152 54 16E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.3B**

**LATERAL LIMITS:** 11 36 30S 140 00 00E, 09 50 00S 139 40 00E

09 50 00S 141 00 00E, 09 37 00S 141 01 06E

09 15 42S 142 03 30E,

then along QLD/PNG border to 09 19 24S 142 48 18E

09 08 00S 143 52 30E, 09 24 00S 144 14 00E

09 56 34S 144 05 21E,

then along the Barrier Reef to 11 30 00S 144 01 36E

11 30 00S 141 30 00E, 11 36 30S 140 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.55A**

**LATERAL LIMITS:** 30 41 52S 152 02 20E, 30 49 08S 152 20 33E

30 40 40S 152 33 47E,

then along the minor arc of a circle of 36.00NM radius centred on

30 19 10S 153 07 16E (CFS/DME) to 30 55 14S 153 06 05E

31 09 16S 153 05 46E, 31 08 07S 153 18 23E

32 43 10S 152 31 29E, 32 44 36S 152 19 24E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 36 02S 151 23 51E

32 27 28S 151 05 59E, 31 26 47S 151 33 04E

30 41 52S 152 02 20E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.55B**

**LATERAL LIMITS:** 18 20 13S 145 29 46E, 17 45 21S 146 59 48E

17 31 28S 147 34 59E, 16 51 30S 147 28 40E

16 58 17S 151 04 31E, 18 40 27S 151 00 35E

19 16 13S 151 10 44E, 19 22 01S 148 20 20E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 20 37 58S 146 08 32E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 19 22 38S 145 10 42E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 18 20 13S 145 29 46E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 120.75**

**LATERAL LIMITS:** 12 26 03S 126 19 25E, 14 20 14S 123 37 52E

15 44 06S 125 02 06E, 15 56 48S 125 15 00E

16 42 00S 126 28 00E, 13 50 06S 128 23 06E

then along the minor arc of a circle of 170.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 39 55S 128 01 11E

12 26 03S 126 19 25E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB/BRISBANE CENTRE 121.2**

**LATERAL LIMITS:** 14 20 27S 145 49 49E, 15 40 45S 145 47 04E

then along the minor arc of a circle of 70.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 08 22S 144 46 43E

16 29 07S 145 14 48E,

then along the minor arc of a circle of 36.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 44 44S 146 21 36E  
 16 51 05S 147 18 30E, 16 51 30S 147 28 40E  
 14 44 19S 147 08 50E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 14 20 27S 145 49 49E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 121.2A

**LATERAL LIMITS:** 28 58 42S 151 47 37E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 26 01 51S 151 28 21E  
 26 21 06S 151 54 05E, 26 39 16S 152 06 08E  
 27 05 15S 152 15 28E, 27 12 00S 152 36 35E  
 27 13 25S 152 41 03E, 27 42 34S 152 52 59E  
 27 44 13S 152 51 55E, 27 53 24S 152 45 11E  
 28 58 42S 151 47 37E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 121.3

**LATERAL LIMITS:** 14 25 18S 145 05 11E, 12 00 05S 144 42 11E  
 12 00 00S 148 34 24E, 16 09 59S 151 06 21E  
 16 58 17S 151 04 31E, 16 51 30S 147 28 40E  
 14 44 19S 147 08 50E,

then along the minor arc of a circle of 150.00NM radius centred on  
 16 51 01S 145 44 38E (CS/DME) to 14 25 18S 145 05 11E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.1

**LATERAL LIMITS:** 14 20 14S 123 37 52E, 16 11 05S 120 55 45E  
 18 15 00S 123 50 00E, 16 42 00S 126 28 00E  
 15 56 48S 125 15 00E, 15 44 06S 125 02 06E  
 14 20 14S 123 37 52E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE CENTRE 122.1

**LATERAL LIMITS:** 19 00 00S 131 30 00E, 21 11 04S 131 54 49E  
 21 12 32S 131 55 06E, 21 29 59S 136 19 44E  
 20 43 56S 136 14 02E, 19 01 14S 137 40 20E  
 18 00 00S 135 00 00E, 19 00 00S 131 30 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.1

**LATERAL LIMITS:** 23 10 00S 140 46 17E, 22 08 25S 142 57 53E  
 21 43 42S 143 53 44E, 21 43 33S 145 25 58E  
 22 01 17S 145 47 51E, 22 58 59S 145 52 31E  
 24 19 19S 146 37 29E, 25 30 00S 144 30 00E  
 25 30 00S 143 40 00E, 24 44 01S 142 00 32E  
 23 10 00S 140 46 17E

**VERTICAL LIMITS:** SFC - FL200

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.1

**LATERAL LIMITS:** 14 00 00S 142 00 00E, 14 00 00S 140 00 00E  
 11 36 30S 140 00 00E, 11 30 00S 141 30 00E  
 11 30 00S 144 01 36E, 11 43 30S 144 04 20E  
 12 00 00S 144 00 00E, 12 40 00S 144 00 00E  
 14 00 00S 142 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.2

**LATERAL LIMITS:** 13 56 01S 134 52 50E, 13 13 33S 135 58 00E  
 13 13 21S 136 00 00E, 13 00 48S 137 56 54E  
 13 00 00S 139 00 00E, 14 00 00S 140 00 00E  
 15 00 00S 140 00 00E, 14 56 29S 138 52 36E  
 15 08 36S 138 20 42E, 15 42 12S 137 12 54E  
 16 35 57S 137 10 56E, 15 46 48S 136 30 51E  
 14 42 16S 134 56 58E,

then along the minor arc of a circle of 150.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 13 56 01S 134 52 50E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.3

**LATERAL LIMITS:** 21 26 57S 145 46 28E, 21 43 30S 146 06 56E  
 22 33 00S 147 44 50E, 22 52 45S 148 17 40E  
 22 48 42S 149 09 24E, 23 05 40S 149 20 16E  
 23 10 00S 149 35 00E, 23 46 09S 149 53 31E  
 24 30 23S 149 04 48E, 25 12 58S 149 31 28E  
 25 27 29S 148 33 20E, 25 12 04S 147 07 36E  
 22 58 59S 145 52 31E, 22 01 17S 145 47 51E  
 21 51 14S 145 35 26E, 21 26 57S 145 46 28E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/BRISBANE CENTRE 122.4

**LATERAL LIMITS:** 20 43 56S 136 14 02E, 19 01 14S 137 40 20E  
 19 05 23S 140 05 10E, 19 22 34S 140 36 52E  
 then along the minor arc of a circle of 100.00NM radius centred on  
 20 39 53S 139 29 09E (MA/DME) to 20 01 56S 141 07 40E  
 20 14 40S 140 44 24E,

then along the minor arc of a circle of 75.00NM radius centred on  
 20 39 53S 139 29 09E (MA/DME) to 21 10 15S 140 42 28E

21 34 00S 140 09 00E, 22 29 26S 140 14 56E  
 23 10 00S 140 46 17E, 23 10 00S 137 00 50E  
 22 17 51S 136 38 07E, 21 51 32S 136 22 25E  
 20 43 56S 136 14 02E

**VERTICAL LIMITS:** SFC - FL200

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB/BRISBANE CENTRE 122.4

**LATERAL LIMITS:** 13 50 06S 128 23 06E, 16 42 00S 126 28 00E  
 17 02 40S 128 28 50E, 17 23 39S 128 42 09E  
 16 00 30S 130 17 39E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E  
 15 05 44S 129 54 21E,

then along the minor arc of a circle of 170.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 50 06S 128 23 06E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 122.6**

**LATERAL LIMITS:** 13 22 17S 130 34 07E,  
then along the minor arc of a circle of 60.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 54 56S 131 47 53E  
13 37 50S 133 06 10E, 13 48 19S 133 40 00E  
13 51 23S 133 57 09E, 13 56 01S 134 52 50E  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 15 20S 129 54 33E  
15 05 44S 129 54 21E, 13 50 31S 130 23 20E  
13 22 17S 130 34 07E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 122.6A**

**LATERAL LIMITS:** 29 29 11S 152 33 29E, 29 31 33S 152 49 19E  
then along the minor arc of a circle of 50.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 29 33 39S 153 31 20E  
29 34 45S 153 46 07E, 30 40 20S 153 31 46E  
31 08 07S 153 18 23E, 31 09 16S 153 05 46E  
30 55 14S 153 06 05E,  
then along the minor arc of a circle of 36.00NM radius centred on  
30 19 10S 153 07 16E (CFS/DME) to 30 40 40S 152 33 47E  
30 49 08S 152 20 33E, 30 41 52S 152 02 20E  
29 29 11S 152 33 29E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.4**

**LATERAL LIMITS:** 09 50 00S 136 00 00E, 13 13 21S 136 00 00E  
13 13 33S 135 58 00E, 13 56 01S 134 52 50E  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 13 31 12S 134 44 11E  
12 12 02S 133 27 00E,  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 11 27 44S 133 15 45E  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 10 01 27S 131 39 32E  
09 48 39S 131 30 25E, 09 50 00S 131 35 58E  
09 50 00S 136 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.7**

**LATERAL LIMITS:** 16 00 30S 130 17 39E, 17 23 39S 128 42 09E  
18 42 49S 129 32 58E, 19 00 00S 130 00 00E  
19 00 00S 131 30 00E, 17 10 35S 131 30 00E  
16 55 10S 131 36 45E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 16 00 30S 130 17 39E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.8**

**LATERAL LIMITS:** 16 41 46S 143 08 34E,  
then along the minor arc of a circle of 150.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 15 19 18S 143 41 03E

16 29 07S 145 14 48E,  
then along the minor arc of a circle of 36.00NM radius centred on  
16 51 01S 145 44 38E (CS/DME) to 16 48 58S 145 07 09E  
16 41 46S 143 08 34E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.95**

**LATERAL LIMITS:** 20 14 40S 140 44 24E, 19 05 00S 142 50 00E  
21 43 42S 143 53 44E, 22 08 25S 142 57 53E  
23 10 00S 140 46 17E, 22 29 26S 140 14 56E  
21 34 00S 140 09 00E, 21 10 15S 140 42 28E  
then along the minor arc of a circle of 75.00NM radius centred on  
20 39 53S 139 29 09E (MA/DME) to 20 14 40S 140 44 24E

**VERTICAL LIMITS:** SFC - FL200

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.95A1**

**LATERAL LIMITS:** 25 20 31S 150 00 00E, 25 14 46S 150 48 49E  
25 57 04S 151 21 59E, 26 01 51S 151 28 21E  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 26 41 15S 151 01 54E  
25 20 31S 150 00 00E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 123.95A2**

**LATERAL LIMITS:** 25 20 31S 150 00 00E, 26 41 15S 151 01 54E  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 29 54S 151 16 32E  
28 47 21S 149 58 48E, 28 18 47S 149 49 52E  
27 20 00S 149 44 22E, 27 01 32S 149 42 40E  
25 57 03S 150 00 00E, 25 20 31S 150 00 00E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/BRISBANE CENTRE 123.95B**

**LATERAL LIMITS:** 17 37 11S 118 45 34E, 16 11 05S 120 55 45E  
18 15 00S 123 50 00E, 20 30 00S 123 50 00E  
20 54 02S 123 18 47E, 20 03 18S 121 40 22E  
19 00 00S 120 15 00E, 17 37 11S 118 45 34E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 124.1**

**LATERAL LIMITS:** 13 56 01S 134 52 50E, 13 51 23S 133 57 09E  
13 48 19S 133 40 00E, 13 37 50S 133 06 10E  
12 54 56S 131 47 53E,  
then along the minor arc of a circle of 60.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 03 35S 131 51 30E  
11 27 44S 133 15 45E,  
then along the minor arc of a circle of 150.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 12 02S 133 27 00E  
13 31 12S 134 44 11E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 13 56 01S 134 52 50E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 124.1A****LATERAL LIMITS:** 25 57 04S 151 21 59E, 25 01 14S 150 38 18E

24 30 37S 151 00 24E, 24 09 23S 151 52 49E

24 07 58S 152 00 48E, 23 57 39S 152 57 47E

23 51 30S 153 30 48E, 24 58 55S 154 00 00E

25 00 00S 153 00 00E, 25 08 01S 152 45 45E

25 24 42S 152 15 54E, 25 57 04S 151 21 59E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 124.6****LATERAL LIMITS:** 18 17 48S 143 50 32E, 17 13 34S 145 15 18E

then along the minor arc of a circle of 36.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 44 44S 146 21 36E

16 51 05S 147 18 30E, 16 51 30S 147 28 40E

17 31 28S 147 34 59E, 18 20 13S 145 29 46E

18 34 39S 144 46 06E, 18 17 48S 143 50 32E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 124.6A1****LATERAL LIMITS:** 25 57 04S 151 21 59E, 25 24 42S 152 15 54E

25 08 01S 152 45 45E, 25 52 15S 153 19 26E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 21 06S 151 54 05E

25 57 04S 151 21 59E

**VERTICAL LIMITS:** SFC - 8500**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 124.6A2****LATERAL LIMITS:** 25 08 01S 152 45 45E, 25 00 00S 153 00 00E

24 58 55S 154 00 00E,

then along the minor arc of a circle of 150.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 06 43S 154 21 26E

25 45 00S 154 00 00E, 26 04 31S 154 00 00E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 25 52 15S 153 19 26E

25 08 01S 152 45 45E

**VERTICAL LIMITS:** SFC - FL180**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/BRISBANE CENTRE 124.8****LATERAL LIMITS:** 18 15 00S 123 50 00E, 16 42 00S 126 28 00E

23 21 56S 126 31 34E, 23 23 49S 126 03 32E

21 31 19S 124 33 04E, 20 54 02S 123 18 47E

20 30 00S 123 50 00E, 18 15 00S 123 50 00E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/BRISBANE CENTRE 124.8A****LATERAL LIMITS:** 31 14 51S 150 47 36E,

then along the minor arc of a circle of 11.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 13 49S 150 55 36E

31 36 02S 151 09 06E, 31 33 49S 151 29 57E

32 27 28S 151 05 59E, 33 14 18S 150 52 08E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 16 11S 150 46 53E

32 31 57S 150 33 47E, 31 50 00S 150 30 07E

31 39 33S 150 42 42E, 31 14 51S 150 47 36E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/BRISBANE CENTRE 124.8B****LATERAL LIMITS:** 25 30 00S 144 30 00E, 24 19 19S 146 37 29E

25 50 45S 147 30 00E, 27 20 00S 147 35 45E

28 03 12S 147 05 18E, 29 00 00S 146 32 00E

29 00 00S 144 25 00E, 25 30 00S 144 30 00E

**VERTICAL LIMITS:** SFC - FL180**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 125.0****LATERAL LIMITS:** 13 13 21S 136 00 00E, 09 50 00S 136 00 00E

09 50 00S 139 40 00E, 11 36 30S 140 00 00E

14 00 00S 140 00 00E, 13 00 00S 139 00 00E

13 00 48S 137 56 54E, 13 13 21S 136 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/BRISBANE CENTRE 125.4****LATERAL LIMITS:** 26 13 31S 138 23 24E, 23 10 00S 137 00 50E

23 10 00S 140 46 17E, 24 44 01S 142 00 32E

27 24 44S 140 30 09E, 26 13 31S 138 23 24E

**VERTICAL LIMITS:** SFC - FL200**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 125.7****LATERAL LIMITS:** 27 13 25S 152 41 03E, 27 12 00S 152 36 35E

then along the major arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 47 06S 152 49 49E

27 44 13S 152 51 55E, 27 42 34S 152 52 59E

27 13 25S 152 41 03E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB-YMMM/BRISBANE CENTRE 125.7****LATERAL LIMITS:** 33 14 18S 150 52 08E, 32 27 28S 151 05 59E

32 36 02S 151 23 51E,

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 44 36S 152 19 24E

32 43 10S 152 31 29E, 32 53 01S 152 26 31E

33 30 06S 151 54 31E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 18S 150 52 08E

**VERTICAL LIMITS:** SFC - Base of CTA**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Airservices Australia**YBBB/BRISBANE CENTRE 125.7****LATERAL LIMITS:** 15 42 12S 137 12 54E, 15 08 36S 138 20 42E

14 56 29S 138 52 36E, 15 00 00S 140 00 00E

15 18 31S 141 02 36E, 19 05 23S 140 05 10E

19 01 14S 137 40 20E, 17 20 18S 137 09 18E  
15 42 12S 137 12 54E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 125.75

**LATERAL LIMITS:** 30 25 04S 150 52 26E, 29 49 03S 151 12 35E

30 26 19S 151 40 09E, 30 41 52S 152 02 20E

31 26 47S 151 33 04E, 31 33 49S 151 29 57E

31 36 02S 151 09 06E, 31 13 49S 150 55 36E

then along the minor arc of a circle of 11.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 05 53S 151 02 25E

30 54 59S 150 49 06E, 30 25 04S 150 52 26E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 126.0

**LATERAL LIMITS:** 25 12 04S 147 07 36E, 25 27 29S 148 33 20E

25 12 58S 149 31 28E, 25 20 31S 150 00 00E

25 57 03S 150 00 00E, 27 01 32S 149 42 40E

27 20 00S 149 44 22E, 27 20 00S 147 35 45E

25 50 45S 147 30 00E, 25 12 04S 147 07 36E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 126.8

**LATERAL LIMITS:** 29 19 33S 151 28 53E, 28 19 11S 152 22 38E

then along the minor arc of a circle of 70.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 26 13S 152 36 35E

28 28 27S 153 03 16E,

then along the minor arc of a circle of 30.00NM radius centred on

28 10 08S 153 30 14E (CG/DME) to 28 35 17S 153 11 35E

28 37 51S 152 58 56E,

then along the minor arc of a circle of 15.00NM radius centred on

28 52 28S 153 02 54E to 29 05 27S 152 54 16E

29 29 11S 152 33 29E, 29 19 33S 151 28 53E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 127.1

**LATERAL LIMITS:** 29 00 00S 149 00 00E, 28 29 54S 151 16 32E

then along the minor arc of a circle of 120.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 28 58 42S 151 47 37E

29 19 33S 151 28 53E, 30 25 04S 150 52 26E

30 54 59S 150 49 06E, 31 05 53S 151 02 25E

then along the minor arc of a circle of 11.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 14 51S 150 47 36E

31 39 33S 150 42 42E, 31 50 00S 150 30 07E

31 55 50S 150 30 38E, 32 00 00S 150 18 00E

32 21 54S 149 10 09E, 32 05 40S 148 49 51E

29 20 27S 146 46 41E, 29 08 07S 147 42 57E

29 00 00S 149 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 128.5

**LATERAL LIMITS:** 15 52 37S 134 33 14E,

then along the minor arc of a circle of 150.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 42 16S 134 56 58E

15 46 48S 136 30 51E, 16 35 57S 137 10 56E

17 20 18S 137 09 18E, 19 01 14S 137 40 20E

18 00 00S 135 00 00E, 15 52 37S 134 33 14E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 128.55

**LATERAL LIMITS:** 21 26 57S 145 46 28E, 20 37 58S 146 08 32E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 20 33 52S 147 31 25E

22 35 15S 149 26 43E, 22 48 42S 149 09 24E

22 52 45S 148 17 40E, 22 33 00S 147 44 50E

21 43 30S 146 06 56E, 21 26 57S 145 46 28E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 128.6

**LATERAL LIMITS:** 32 53 01S 152 26 31E, 31 07 50S 153 18 31E

then along the minor arc of a circle of 200.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 36 29 26S 153 48 37E

36 13 36S 152 25 23E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 18 59S 152 55 50E

34 28 18S 151 49 23E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E

32 53 01S 152 26 31E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 129.0

**LATERAL LIMITS:** 26 39 16S 152 06 08E, 26 21 06S 151 54 05E

then along the minor arc of a circle of 90.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 26 04 31S 154 00 00E

26 37 23S 154 00 00E, 27 01 07S 153 32 38E

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 12 00S 152 36 35E

27 05 15S 152 15 28E, 26 39 16S 152 06 08E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB-YMMM/BRISBANE CENTRE 133.05

**LATERAL LIMITS:** 32 21 54S 149 10 09E, 32 00 00S 150 18 00E

31 55 50S 150 30 38E, 32 31 57S 150 33 47E

33 16 11S 150 46 53E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 25 35S 150 31 41E

32 21 54S 149 10 09E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

### YBBB/BRISBANE CENTRE 134.2

**LATERAL LIMITS:** 29 49 03S 151 12 35E, 29 19 33S 151 28 53E

29 29 11S 152 33 29E, 30 41 52S 152 02 20E

30 26 19S 151 40 09E, 29 49 03S 151 12 35E

**VERTICAL LIMITS:** SFC - 8500



**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 134.3**

**LATERAL LIMITS:** 26 37 23S 154 00 00E, 25 45 00S 154 00 00E  
25 06 43S 154 21 26E,

then along the minor arc of a circle of 150.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 29 49 13S 153 42 58E

28 29 50S 154 00 00E, 27 44 36S 154 00 00E

27 35 19S 153 38 35E,

then along the minor arc of a circle of 30.00NM radius centred on

27 21 57S 153 08 21E (BN/DME) to 27 01 07S 153 32 38E

26 37 23S 154 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 134.65**

**LATERAL LIMITS:** 15 19 18S 143 41 03E, 16 08 22S 144 46 43E

then along the minor arc of a circle of 70.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 15 40 45S 145 47 04E

14 20 27S 145 49 49E,

then along the minor arc of a circle of 150.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 15 19 18S 143 41 03E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 135.3**

**LATERAL LIMITS:** 24 30 23S 149 04 48E, 23 46 09S 149 53 31E

24 38 10S 150 20 30E, 25 14 46S 150 48 49E

25 20 31S 150 00 00E, 25 12 58S 149 31 28E

24 30 23S 149 04 48E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/BRISBANE CENTRE 135.5A**

**LATERAL LIMITS:** 20 33 52S 147 31 25E,

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 19 24 06S 148 20 08E

then along the minor arc of a circle of 90.00NM radius centred on

19 14 39S 146 45 30E (TL/DME) to 19 22 01S 148 20 20E

19 16 13S 151 10 44E, 21 39 12S 151 52 08E

21 59 16S 151 02 01E, 22 06 00S 150 45 00E

22 06 00S 150 30 00E, 22 12 34S 150 25 27E

22 15 00S 150 20 00E, 22 17 00S 150 12 00E

22 14 32S 150 00 42E, 22 21 30S 149 51 54E

22 28 48S 149 35 00E, 22 35 15S 149 26 43E

20 33 52S 147 31 25E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/CAIRNS APPROACH 126.1**

**LATERAL LIMITS:** A circle of 36.00NM radius centred on

16 51 01S 145 44 38E (CS/DME)

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/CANBERRA APPROACH 124.5**

**LATERAL LIMITS:** 34 52 26S 149 11 40E, 34 52 00S 149 32 14E

then along the minor arc of a circle of 30.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 20 06S 149 48 12E

35 33 27S 149 25 31E, 35 40 41S 149 11 40E

34 52 26S 149 11 40E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/CANBERRA APPROACH 125.9**

**LATERAL LIMITS:** 35 09 20S 148 36 19E, 34 52 32S 149 06 00E

34 52 26S 149 11 40E, 35 40 41S 149 11 40E

35 45 49S 149 01 48E,

then along the minor arc of a circle of 30.00NM radius centred on

35 16 53S 149 11 45E (CB/DME) to 35 09 20S 148 36 19E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 118.4**

**LATERAL LIMITS:** 29 18 00S 120 00 00E, 26 34 44S 124 00 00E

28 03 46S 124 13 56E, 29 03 08S 124 01 16E

30 11 36S 120 11 23E, 29 48 29S 120 06 27E

29 38 08S 120 04 15E, 29 18 00S 120 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 118.6**

**LATERAL LIMITS:** 18 20 55S 116 48 24E, 17 37 11S 118 45 34E

19 00 00S 120 15 00E, 19 39 17S 121 07 44E

21 28 47S 120 21 16E, 22 02 42S 118 30 00E

21 44 35S 117 32 27E,

then along the minor arc of a circle of 75.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 19 38 39S 117 27 59E

18 20 55S 116 48 24E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 118.6**

**LATERAL LIMITS:** 33 00 00S 143 31 00E, 35 05 00S 143 26 12E

36 01 52S 144 23 25E,

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E

35 22 30S 146 31 36E, 35 05 21S 146 55 21E

35 04 06S 146 56 32E, 34 51 56S 145 52 00E

34 21 00S 145 25 46E, 33 37 00S 145 29 24E

33 08 00S 144 42 00E, 33 00 00S 144 00 00E

33 00 00S 143 31 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 118.95**

**LATERAL LIMITS:** 28 00 14S 118 38 07E, 25 00 00S 120 15 00E

25 00 00S 121 12 00E, 26 34 44S 124 00 00E

29 18 00S 120 00 00E, 28 08 53S 118 45 26E

28 00 14S 118 38 07E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 118.95A1**

**LATERAL LIMITS:** 35 30 01S 136 49 20E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 42 46S 139 33 28E  
34 16 35S 139 07 33E,  
then along the minor arc of a circle of 50.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 08 00S 138 17 55E  
34 21 27S 138 22 59E,  
then along the minor arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 10 16S 137 50 47E  
35 30 01S 136 49 20E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 118.95A2**

**LATERAL LIMITS:** 33 20 07S 138 00 03E,  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E  
33 42 46S 139 33 28E,  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E  
33 20 07S 138 00 03E

**VERTICAL LIMITS:** SFC - 9500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 119.5**

**LATERAL LIMITS:** 28 00 00S 138 00 00E, 26 13 31S 138 23 24E  
28 01 21S 141 37 47E, 29 00 00S 141 00 00E  
30 30 00S 141 00 00E, 30 30 00S 139 18 12E  
29 47 00S 139 30 00E, 28 40 00S 139 30 00E  
28 00 00S 138 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 119.5B**

**LATERAL LIMITS:** 34 57 44S 147 02 32E, 34 50 49S 147 47 58E  
35 09 20S 148 36 19E,  
then along the minor arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 35 45 49S 149 01 48E  
36 07 04S 148 14 00E, 36 03 06S 147 17 40E  
then along the minor arc of a circle of 16.00NM radius centred on  
36 04 05S 146 57 58E (AY/DME) to 35 54 01S 146 42 39E  
35 36 33S 146 16 20E, 35 22 30S 146 31 36E  
35 05 21S 146 55 21E, 34 57 44S 147 02 32E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 119.8**

**LATERAL LIMITS:** 22 10 58S 130 13 35E, 22 29 53S 130 37 07E  
23 46 38S 132 14 34E,  
then along the minor arc of a circle of 90.00NM radius centred on  
23 47 34S 133 52 42E (AS/DME) to 25 11 48S 133 17 11E  
25 53 07S 132 58 36E, 26 07 34S 136 26 07E  
25 54 00S 136 43 30E, 25 01 04S 137 50 16E  
22 17 51S 136 38 07E, 21 51 32S 136 22 25E  
21 29 59S 136 19 44E, 21 12 32S 131 55 06E  
21 12 09S 131 50 24E, 22 10 58S 130 13 35E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 120.0A1**

**LATERAL LIMITS:** 38 46 14S 143 15 50E, 38 08 36S 144 21 49E  
then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 09 07S 144 33 38E  
38 18 53S 144 40 44E,  
then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 05 05S 145 29 30E  
37 55 33S 145 22 36E,  
then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 47 08S 145 27 08E  
37 54 48S 146 07 18E,  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 44 00S 146 27 40E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 46 14S 143 15 50E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 120.3**

**LATERAL LIMITS:** 32 50 27S 114 47 28E, 32 20 58S 115 26 12E  
then along the minor arc of a circle of 36.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 34 58S 116 31 17E  
31 08 12S 117 12 07E,  
then along the minor arc of a circle of 80.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 50 27S 114 47 28E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 120.7**

**LATERAL LIMITS:** 28 09 51S 131 36 52E, 25 53 07S 132 58 36E  
26 07 34S 136 26 07E, 25 54 00S 136 43 30E  
25 01 04S 137 50 16E, 26 13 31S 138 23 24E  
28 00 00S 138 00 00E, 29 00 00S 136 49 51E  
29 05 21S 136 39 00E, 30 20 56S 133 59 57E  
28 09 51S 131 36 52E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 120.7S**

**LATERAL LIMITS:** 37 22 37S 147 40 33E, 36 07 04S 148 14 00E  
35 45 49S 149 01 48E, 35 33 27S 149 25 31E  
35 25 48S 149 38 33E, 35 44 49S 150 37 09E  
36 56 43S 150 45 03E, 38 00 00S 150 23 12E  
38 00 00S 149 00 00E, 37 30 00S 149 00 00E  
37 35 10S 147 58 46E,

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 22 37S 147 40 33E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 120.7B**

**LATERAL LIMITS:** 40 00 00S 145 47 01E, 40 00 00S 146 58 00E  
40 33 04S 147 02 59E,  
then along the minor arc of a circle of 60.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 40 40 09S 146 34 14E

41 03 00S 146 43 00E, 41 21 58S 146 56 55E  
 then along the minor arc of a circle of 16.00NM radius centred on  
 41 32 38S 147 12 47E (LT/DME) to 41 27 45S 146 52 30E  
 41 29 30S 146 18 00E, 41 05 04S 146 04 36E  
 40 00 00S 145 47 01E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 121.2**

**LATERAL LIMITS:** 35 25 48S 149 38 33E, 35 20 06S 149 48 12E

then along the minor arc of a circle of 30.00NM radius centred on  
 35 16 53S 149 11 45E (CB/DME) to 34 54 58S 149 36 46E  
 34 42 04S 149 51 19E,

then along the minor arc of a circle of 80.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 38 50S 149 48 48E  
 34 28 20S 150 09 25E, 34 20 25S 150 24 50E

then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
 35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
 35 44 49S 150 37 09E, 35 25 48S 149 38 33E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 121.2**

**LATERAL LIMITS:** 30 00 00S 137 30 00E, 29 05 21S 136 39 00E

29 00 00S 136 49 51E, 28 00 00S 138 00 00E

28 40 00S 139 30 00E, 29 47 00S 139 30 00E

31 35 00S 139 00 00E, 31 35 00S 137 50 00E

30 00 00S 137 30 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 121.2C**

**LATERAL LIMITS:** 27 30 00S 112 20 01E, 27 40 44S 115 49 10E

30 26 44S 115 50 10E,

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 57 36S 114 38 05E

30 00 13S 113 49 39E, 30 00 00S 112 43 56E

27 30 00S 112 20 01E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 121.85**

**LATERAL LIMITS:** 23 19 20S 127 08 08E, 23 13 13S 128 27 49E

22 10 58S 130 13 35E, 22 29 53S 130 37 07E

23 46 38S 132 14 34E,

then along the minor arc of a circle of 90.00NM radius centred on

23 47 34S 133 52 42E (AS/DME) to 25 11 48S 133 17 11E

25 53 07S 132 58 36E, 28 09 51S 131 36 52E

28 30 11S 131 11 49E, 28 50 26S 130 46 36E

26 34 25S 128 30 29E, 26 07 08S 128 06 49E

24 29 09S 128 06 49E, 23 19 20S 127 08 08E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 122.0**

**LATERAL LIMITS:** 30 20 56S 133 59 57E, 29 05 21S 136 39 00E

30 00 00S 137 30 00E, 31 35 00S 137 50 00E

31 35 00S 135 25 00E, 30 20 56S 133 59 57E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 122.1**

**LATERAL LIMITS:** 26 15 00S 112 08 35E, 23 30 00S 111 44 17E

23 30 00S 116 00 00E, 23 18 47S 117 00 21E

25 00 00S 116 58 41E, 25 00 00S 116 00 00E

26 15 00S 114 33 13E, 26 15 00S 112 08 35E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 122.1**

**LATERAL LIMITS:** 33 20 34S 140 34 10E, 33 00 00S 143 31 00E

35 05 00S 143 26 12E, 35 05 00S 141 21 38E

then along the minor arc of a circle of 140.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 20 34S 140 34 10E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 122.4**

**LATERAL LIMITS:** 18 47 59S 115 33 44E, 18 20 55S 116 48 24E

19 38 39S 117 27 59E,

then along the minor arc of a circle of 75.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 21 56 49S 117 01 39E

23 18 47S 117 00 21E, 23 30 00S 116 00 00E

23 30 00S 115 00 38E, 23 00 00S 115 02 20E

21 44 00S 114 45 41E,

then along the minor arc of a circle of 20.00NM radius centred on

21 39 59S 115 06 43E (ONSLO/WPT) to 21 34 42S 114 46 01E

19 49 03S 115 16 40E,

then along the minor arc of a circle of 100.00NM radius centred on

20 42 54S 116 46 26E (KA/DME) to 19 22 41S 115 42 36E

18 47 59S 115 33 44E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 122.4B**

**LATERAL LIMITS:** 36 51 13S 144 53 03E, 36 16 05S 145 32 42E

then along the minor arc of a circle of 90.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 36 19 28S 145 41 54E

36 12 07S 145 51 12E, 36 30 45S 145 41 37E

then along the minor arc of a circle of 80.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 26 42S 146 29 49E

then along the minor arc of a circle of 50.00NM radius centred on

38 05 56S 147 08 58E (YMES/AD) to 37 54 48S 146 07 18E

37 47 08S 145 27 08E,

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 37 09 36S 144 52 04E

36 51 13S 144 53 03E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 122.4B1**

**LATERAL LIMITS:** 36 16 05S 145 32 42E, 36 08 13S 145 41 28E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E  
36 19 28S 145 41 54E,

then along the minor arc of a circle of 90.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 16 05S 145 32 42E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 122.4D**

**LATERAL LIMITS:** 30 00 00S 112 43 56E, 30 00 13S 113 49 39E  
30 57 36S 114 38 05E,

then along the minor arc of a circle of 90.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 26 44S 115 50 10E  
30 36 46S 115 50 14E,

then along the minor arc of a circle of 80.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 08 12S 117 12 07E  
31 34 58S 116 31 17E,

then along the major arc of a circle of 36.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 20 58S 115 26 12E  
33 43 31S 113 35 57E,

then along the minor arc of a circle of 160.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E  
30 00 00S 112 43 56E

**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 122.6**

**LATERAL LIMITS:** 27 43 20S 116 16 48E, 25 00 00S 116 32 41E  
25 00 00S 120 15 00E, 28 00 14S 118 38 07E  
27 43 20S 116 16 48E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 122.6**

**LATERAL LIMITS:** 31 35 00S 139 00 00E, 30 30 00S 139 18 12E  
30 30 00S 141 00 00E, 30 30 00S 142 00 00E

31 00 00S 142 48 44E, 31 47 54S 143 31 00E  
33 00 00S 143 31 00E, 33 20 34S 140 34 10E

then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 32 52 09S 139 48 32E  
31 35 00S 139 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 122.6**

**LATERAL LIMITS:** 41 18 00S 141 00 00E, 40 30 00S 141 00 00E  
40 30 00S 145 00 00E, 40 00 00S 145 00 00E

39 47 36S 145 07 30E, 40 00 02S 145 12 02E  
40 00 00S 145 47 01E, 41 05 04S 146 04 36E

41 29 30S 146 18 00E, 41 18 00S 145 15 00E  
41 18 00S 141 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 123.05**

**LATERAL LIMITS:** 35 30 01S 135 00 00E, 35 30 01S 136 49 20E  
35 10 16S 137 50 47E,

then along the minor arc of a circle of 36.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 32 07S 138 22 30E

36 24 22S 138 05 12E, 36 42 46S 138 05 12E  
36 10 04S 135 00 00E, 35 30 01S 135 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 123.4**

**LATERAL LIMITS:** 25 00 00S 118 30 00E, 22 02 42S 118 30 00E  
21 28 47S 120 21 16E, 25 00 00S 120 15 00E  
25 00 00S 118 30 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 123.4B**

**LATERAL LIMITS:** 31 08 12S 117 12 07E, 31 02 15S 117 21 30E  
30 20 17S 118 26 34E, 29 18 00S 120 00 00E

29 38 08S 120 04 15E, 29 48 29S 120 06 27E

30 11 36S 120 11 23E, 31 37 31S 120 30 04E

31 43 07S 120 00 00E, 31 58 54S 117 31 35E

then along the minor arc of a circle of 80.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 08 12S 117 12 07E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 123.5**

**LATERAL LIMITS:** 28 31 36S 132 00 00E, 31 35 00S 135 25 00E

32 25 45S 135 02 01E, 32 59 42S 135 08 00E

33 39 49S 134 16 47E, 34 46 18S 135 00 00E

36 10 04S 135 00 00E, 36 57 30S 139 40 00E

37 49 05S 139 40 00E, 38 54 04S 139 40 00E

38 54 04S 141 00 00E, 42 21 00S 141 00 00E

40 44 46S 135 00 00E, 39 47 33S 132 00 00E

28 31 36S 132 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 123.9**

**LATERAL LIMITS:** 31 53 55S 147 07 20E, 31 20 57S 148 15 39E

32 05 40S 148 49 51E, 32 37 32S 149 29 53E

32 59 58S 148 56 23E, 32 38 14S 148 39 42E

32 38 09S 148 15 22E, 32 56 07S 148 03 26E

32 51 02S 146 47 12E, 31 53 55S 147 07 20E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 123.9**

**LATERAL LIMITS:** 31 35 00S 135 25 00E, 32 25 45S 135 02 01E

33 35 00S 137 16 00E, 33 47 58S 137 21 17E

then along the minor arc of a circle of 90.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E

33 20 07S 138 00 03E,

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

33 01 22S 140 07 05E,  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 32 52 09S 139 48 32E  
31 35 00S 139 00 00E, 31 35 00S 137 50 00E  
31 35 00S 135 25 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 123.95

**LATERAL LIMITS:** 42 21 00S 141 00 00E, 41 18 00S 141 00 00E  
41 18 00S 145 15 00E, 41 24 40S 145 50 46E  
42 10 22S 146 21 44E, 42 47 56S 142 28 50E  
42 21 00S 141 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 123.9B

**LATERAL LIMITS:** 38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 39 18 49S 145 07 33E  
39 47 36S 145 07 30E, 40 00 00S 145 00 00E  
40 30 00S 145 00 00E, 40 30 00S 141 00 00E  
38 54 04S 141 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 123.9C

**LATERAL LIMITS:** 35 10 52S 115 17 43E, 34 00 14S 117 21 42E  
34 49 56S 120 17 22E, 36 43 12S 120 00 00E  
36 25 00S 116 40 00E, 35 10 52S 115 17 43E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YBBB-YMMM/MELBOURNE CENTRE 124.0A

**LATERAL LIMITS:** 38 55 15S 147 19 54E,  
then along the major arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 35 10S 147 58 46E  
37 30 00S 149 00 00E, 38 00 00S 149 00 00E  
38 00 00S 150 23 12E, 38 11 19S 150 19 14E  
40 00 00S 150 33 54E, 40 34 02S 150 38 39E  
40 00 02S 148 37 58E,  
then along the minor arc of a circle of 30.00NM radius centred on  
40 05 29S 147 59 34E (YFLI/AD) to 39 37 48S 147 44 28E  
38 55 15S 147 19 54E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.1A

**LATERAL LIMITS:** 34 50 04S 147 52 58E,  
then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 17 02S 148 27 30E  
33 59 41S 149 34 44E,  
then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 50 51S 149 34 59E  
33 47 37S 149 52 55E, 33 50 34S 150 17 16E  
then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 20 25S 150 24 50E  
34 38 50S 149 48 48E,

then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 42 04S 149 51 19E  
34 54 58S 149 36 46E,

then along the minor arc of a circle of 30.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 52 00S 149 32 14E

34 52 32S 149 06 00E, 35 09 20S 148 36 19E

34 50 49S 147 47 58E, 34 50 04S 147 52 58E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.3

**LATERAL LIMITS:** 33 01 22S 140 07 05E,  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 35 34S 141 15 48E  
35 26 14S 140 28 06E,  
then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E  
33 01 22S 140 07 05E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.5

**LATERAL LIMITS:** 27 30 00S 112 20 01E, 26 15 00S 112 08 35E  
26 15 00S 114 33 13E, 25 00 00S 116 00 00E  
25 00 00S 116 32 41E, 27 43 20S 116 16 48E  
27 41 09S 116 00 00E, 27 30 00S 112 20 01E

**VERTICAL LIMITS:** SFC - Base of CTA

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.8

**LATERAL LIMITS:** 30 26 44S 115 50 10E, 27 40 44S 115 49 10E  
27 41 09S 116 00 00E, 28 00 14S 118 38 07E  
28 08 53S 118 45 26E, 29 18 00S 120 00 00E  
30 20 17S 118 26 34E, 31 02 15S 117 21 30E  
31 08 12S 117 12 07E,

then along the minor arc of a circle of 80.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 36 46S 115 50 14E  
30 26 44S 115 50 10E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.9

**LATERAL LIMITS:** 29 53 53S 142 40 54E, 29 15 18S 143 16 11E  
31 53 55S 147 07 20E, 32 51 02S 146 47 12E  
32 47 00S 145 53 42E, 33 11 36S 145 31 23E  
33 37 00S 145 29 24E, 33 08 00S 144 42 00E  
33 00 00S 144 00 00E, 33 00 00S 143 31 00E  
31 47 54S 143 31 00E, 31 00 00S 142 48 44E  
29 53 53S 142 40 54E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### YMMM/MELBOURNE CENTRE 124.9

**LATERAL LIMITS:** 32 50 27S 114 47 28E, 33 43 31S 113 35 57E  
then along the minor arc of a circle of 160.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 34 11 13S 114 13 59E  
35 10 52S 115 17 43E, 34 00 14S 117 21 42E  
33 00 01S 116 55 34E,  
then along the minor arc of a circle of 80.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 50 27S 114 47 28E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.2**  
**LATERAL LIMITS:** 36 08 13S 145 41 28E, 35 36 33S 146 16 20E 35 54 01S 146 42 39E,  
then along the minor arc of a circle of 16.00NM radius centred on 36 04 05S 146 57 58E (AY/DME) to 36 03 06S 147 17 40E 36 07 04S 148 14 00E, 37 22 37S 147 40 33E  
then along the minor arc of a circle of 50.00NM radius centred on 38 05 56S 147 08 58E (YMES/AD) to 37 26 42S 146 29 49E  
then along the minor arc of a circle of 80.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 36 30 45S 145 41 37E 36 12 07S 145 51 12E,  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.2A**  
**LATERAL LIMITS:** 36 16 05S 145 32 42E, 36 08 13S 145 41 28E  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 36 12 07S 145 51 12E 36 19 28S 145 41 54E,  
then along the minor arc of a circle of 90.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 36 16 05S 145 32 42E  
**VERTICAL LIMITS:** 8500 - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.3**  
**LATERAL LIMITS:** 33 34 18S 139 39 53E,  
then along the minor arc of a circle of 100.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 36 34 40S 138 05 12E 36 24 22S 138 05 12E, 35 32 07S 138 22 30E  
then along the minor arc of a circle of 36.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 28 26S 138 58 24E 34 16 35S 139 07 33E, 33 34 18S 139 39 53E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 125.35**  
**LATERAL LIMITS:** 29 15 18S 143 16 11E, 29 00 00S 143 30 00E 29 00 00S 144 25 00E, 29 00 00S 146 32 00E 29 20 27S 146 46 41E, 31 20 57S 148 15 39E 31 53 55S 147 07 20E, 29 15 18S 143 16 11E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.4**  
**LATERAL LIMITS:** 31 58 54S 117 31 35E, 31 43 07S 120 00 00E 31 37 31S 120 30 04E, 32 18 57S 120 39 17E 34 49 56S 120 17 22E, 34 00 14S 117 21 42E 33 00 01S 116 55 34E,  
then along the minor arc of a circle of 80.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 58 54S 117 31 35E  
**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 125.55**  
**LATERAL LIMITS:** 42 47 56S 142 28 50E, 42 10 22S 146 21 44E 42 22 31S 146 30 07E, 42 30 00S 146 40 17E 42 30 00S 150 55 29E, 43 00 00S 151 00 00E 43 51 03S 150 39 53E, 43 31 15S 149 21 30E 43 43 48S 145 51 48E, 42 47 56S 142 28 50E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.7**  
**LATERAL LIMITS:** 25 00 00S 116 58 41E, 21 56 49S 117 01 39E  
then along the minor arc of a circle of 75.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 21 44 35S 117 32 27E 22 02 42S 118 30 00E, 25 00 00S 118 30 00E 25 00 00S 116 58 41E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.75**  
**LATERAL LIMITS:** 30 11 36S 120 11 23E, 29 03 08S 124 01 16E 31 16 00S 123 32 00E, 31 27 10S 121 23 57E 31 37 31S 120 30 04E, 30 11 36S 120 11 23E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.8**  
**LATERAL LIMITS:** 36 06 58S 141 00 00E, 36 28 41S 141 00 00E 36 40 00S 139 40 00E, 38 54 04S 139 40 00E 38 54 04S 141 00 00E, 38 54 04S 143 25 39E  
then along the minor arc of a circle of 100.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 36 01 52S 144 23 25E 35 05 00S 143 26 12E, 35 05 00S 141 21 38E  
then along the minor arc of a circle of 140.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.9**  
**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E 18 47 59S 115 33 44E, 19 22 41S 115 42 36E  
then along the minor arc of a circle of 100.00NM radius centred on 20 42 54S 116 46 26E (KA/DME) to 19 49 03S 115 16 40E 21 34 42S 114 46 01E,  
then along the minor arc of a circle of 20.00NM radius centred on 21 39 59S 115 06 43E (ONSLO/WPT) to 21 44 00S 114 45 41E 23 00 00S 115 02 20E, 23 30 00S 115 00 38E 23 30 00S 111 44 17E, 21 50 00S 111 30 00E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 125.9**  
**LATERAL LIMITS:** 32 25 45S 135 02 01E, 32 59 42S 135 08 00E 33 39 49S 134 16 47E, 34 46 18S 135 00 00E

35 30 01S 135 00 00E, 35 30 01S 136 49 20E  
then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 47 58S 137 21 17E  
33 35 00S 137 16 00E, 32 25 45S 135 02 01E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 126.5**

**LATERAL LIMITS:** 30 30 00S 141 00 00E, 29 00 00S 141 00 00E

28 01 21S 141 37 47E, 29 00 00S 143 30 00E

29 53 53S 142 40 54E, 31 00 00S 142 48 44E

30 30 00S 142 00 00E, 30 30 00S 141 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 126.5**

**LATERAL LIMITS:** 40 00 00S 146 58 00E, 40 33 04S 147 02 59E

then along the minor arc of a circle of 60.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 40 40 09S 146 34 14E

41 03 00S 146 43 00E, 41 21 58S 146 56 55E

then along the minor arc of a circle of 16.00NM radius centred on  
41 32 38S 147 12 47E (LT/DME) to 41 27 45S 146 52 30E

41 29 30S 146 18 00E, 41 24 40S 145 50 46E

42 10 22S 146 21 44E, 42 22 31S 146 30 07E

42 30 00S 146 40 17E, 42 30 00S 150 55 29E

40 34 02S 150 38 39E, 40 00 02S 148 37 58E

then along the minor arc of a circle of 30.00NM radius centred on  
40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 147 21 09E

40 00 00S 146 58 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 126.8**

**LATERAL LIMITS:** 38 46 14S 143 15 50E,

then along the minor arc of a circle of 100.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 36 08 13S 145 41 28E

36 51 13S 144 53 03E, 37 09 36S 144 52 04E

then along the minor arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 00 33S 144 23 23E

38 08 36S 144 21 49E, 38 46 14S 143 15 50E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 127.05A**

**LATERAL LIMITS:** 33 20 07S 138 00 03E,

then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E

33 42 46S 139 33 28E,

then along the minor arc of a circle of 90.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 29 41S 138 03 36E

33 20 07S 138 00 03E

**VERTICAL LIMITS:** 9500 - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 130.3**

**LATERAL LIMITS:** 39 47 36S 145 07 30E, 39 18 49S 145 07 33E

then along the minor arc of a circle of 100.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 44 00S 146 27 40E

then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 55 15S 147 19 54E

39 37 48S 147 44 28E,

then along the minor arc of a circle of 30.00NM radius centred on

40 05 29S 147 59 34E (YFLI/AD) to 40 00 02S 147 21 09E

40 00 00S 146 58 00E, 40 00 00S 145 47 01E

40 00 02S 145 12 02E, 39 47 36S 145 07 30E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 130.9**

**LATERAL LIMITS:** 26 34 44S 124 00 00E, 23 23 49S 126 03 32E

23 19 20S 127 08 08E, 24 29 09S 128 06 49E

26 07 08S 128 06 49E, 26 34 25S 128 30 29E

27 04 35S 129 00 00E, 30 00 01S 129 00 00E

30 00 01S 127 50 00E, 30 00 01S 123 48 54E

28 03 46S 124 13 56E, 26 34 44S 124 00 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 132.7**

**LATERAL LIMITS:** 30 00 01S 127 50 00E, 30 00 01S 129 00 00E

27 04 35S 129 00 00E, 28 50 26S 130 46 36E

28 30 11S 131 11 49E, 28 09 51S 131 36 52E

28 31 36S 132 00 00E, 39 47 33S 132 00 00E

38 17 19S 127 50 00E, 30 00 01S 127 50 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 133.2**

**LATERAL LIMITS:** 31 37 31S 120 30 04E, 31 27 10S 121 23 57E

31 16 00S 123 32 00E, 37 10 38S 125 04 54E

36 43 12S 120 00 00E, 34 49 56S 120 17 22E

32 18 57S 120 39 17E, 31 37 31S 120 30 04E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YMMM/MELBOURNE CENTRE 134.2**

**LATERAL LIMITS:** 31 16 00S 123 32 00E, 30 00 01S 123 48 54E

30 00 01S 127 50 00E, 38 17 19S 127 50 00E

37 10 38S 125 04 54E, 31 16 00S 123 32 00E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

#### **YBBB-YMMM/MELBOURNE CENTRE 134.5**

**LATERAL LIMITS:** 21 28 47S 120 21 16E, 19 39 17S 121 07 44E

20 03 18S 121 40 22E, 21 31 19S 124 33 04E

23 23 49S 126 03 32E, 26 34 44S 124 00 00E

25 00 00S 121 12 00E, 25 00 00S 120 15 00E

21 28 47S 120 21 16E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 134.65**

**LATERAL LIMITS:** 32 47 00S 145 53 42E, 32 51 02S 146 47 12E  
32 56 07S 148 03 26E, 33 17 56S 147 48 50E  
34 29 18S 148 09 16E,

then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 50 04S 147 52 58E  
34 57 44S 147 02 32E, 35 04 06S 146 56 32E  
34 51 56S 145 52 00E, 34 21 00S 145 25 46E  
33 37 00S 145 29 24E, 33 11 36S 145 31 23E  
32 47 00S 145 53 42E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/MELBOURNE CENTRE 135.25**

**LATERAL LIMITS:** 34 29 18S 148 09 16E, 33 17 56S 147 48 50E  
32 38 09S 148 15 22E, 32 38 14S 148 39 42E  
32 59 58S 148 56 23E, 32 37 32S 149 29 53E  
33 25 34S 150 31 41E,

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 50 34S 150 17 16E  
33 47 37S 149 52 55E, 33 50 51S 149 34 59E

then along the minor arc of a circle of 80.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 59 41S 149 34 44E  
34 17 02S 148 27 30E,

then along the minor arc of a circle of 70.00NM radius centred on  
35 16 53S 149 11 45E (CB/DME) to 34 29 18S 148 09 16E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 135.45**

**LATERAL LIMITS:** 35 26 14S 140 28 06E, 35 35 34S 141 15 48E  
then along the minor arc of a circle of 140.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 36 06 58S 141 00 00E

36 28 41S 141 00 00E, 36 40 00S 139 40 00E  
36 57 30S 139 40 00E, 36 42 46S 138 05 12E

then along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 35 26 14S 140 28 06E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/MELBOURNE CENTRE 135.7**

**LATERAL LIMITS:** 38 00 33S 144 23 23E,  
then along the major arc of a circle of 30.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 37 55 33S 145 22 36E

38 05 05S 145 29 30E,  
then along the minor arc of a circle of 40.00NM radius centred on  
37 39 36S 144 50 32E (ML/DME) to 38 18 53S 144 40 44E

38 09 07S 144 33 38E,  
then along the minor arc of a circle of 8.00NM radius centred on  
38 02 22S 144 28 10E (YMAV/AD) to 38 08 36S 144 21 49E  
38 00 33S 144 23 23E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YMMM/PERTH CENTRE 135.25**

**LATERAL LIMITS:** A circle of 36.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME)

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CENTRE 124.55**

**LATERAL LIMITS:** 33 14 17S 150 52 09E, 33 31 39S 150 59 47E

then along the minor arc of a circle of 11.00NM radius centred on  
33 36 27S 150 47 56E (RIC/TAC) to 33 41 05S 150 59 53E

33 45 42S 151 04 42E, 33 49 26S 151 05 17E  
then along the minor arc of a circle of 8.50NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 33 49 50S 151 17 05E  
33 50 06S 151 16 52E,

then along THE COAST 61 to 33 51 34S 151 17 05E

then along THE COAST 7 to 33 53 05S 151 17 03E

33 53 34S 151 17 06E, 33 58 07S 151 15 57E

34 00 10S 151 14 54E, 34 01 10S 151 13 46E

then along THE COAST 8 to 34 02 16S 151 11 32E

then along THE COAST 9 to 34 04 19S 151 09 20E

34 04 37S 151 10 02E,

then along THE COAST 97 to 34 05 04S 151 10 11E

34 11 14S 151 27 15E, 34 28 18S 151 49 23E

then along the major arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 17S 150 52 09E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB-YMMM/SYDNEY CENTRE 125.8**

**LATERAL LIMITS:** 33 31 39S 150 59 47E, 33 14 17S 150 52 09E

then along the minor arc of a circle of 45.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E

34 11 14S 151 27 15E, 34 05 04S 151 10 11E

then along THE COAST 97 to 34 04 37S 151 10 02E

34 04 19S 151 09 20E,

then along THE COAST 9 to 34 02 16S 151 11 32E

then along THE COAST 8 to 34 01 10S 151 13 46E

34 00 10S 151 14 54E, 33 58 07S 151 15 57E

33 53 34S 151 17 06E, 33 53 05S 151 17 03E

then along THE COAST 7 to 33 51 34S 151 17 05E

then along THE COAST 61 to 33 50 06S 151 16 52E

33 49 50S 151 17 05E,

then along the minor arc of a circle of 8.50NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 49 26S 151 05 17E

33 45 42S 151 04 42E, 33 41 05S 150 59 53E

then along the minor arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 31 39S 150 59 47E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Airservices Australia

**YBBB/TOWNSVILLE APPROACH 126.8**

**LATERAL LIMITS:** A circle of 36.00NM radius centred on

19 14 39S 146 45 30E (TL/DME)

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** AS SPECIFIED BY AIP

**CONTROLLING AUTHORITY:** Dept of Defence - RAAF



## SECTION 13 - PRD AREA

### AIRSPACE NAME

**Airspace** is named according to the general commonly known geographic region, eg. **R240 WOOMERA**.

Where a more specific name is required, that name will be placed after the regional name in brackets, eg. **R276A TOWNSVILLE (STAR)**, where “Star” is the name of a property in that region.

### PRD CONTACT DETAILS

Refer ERSA for all PRD contact phone numbers.

### ACRONYM LEGEND

ACFR	Australian Centre for Field Robotics, Sydney University
AD OPR	Aerodrome Operator
ANSTO	Australian Nuclear Science & Technology Organisation
AsA	AirServices Australia
BCP	Base Command Post
CASA OAR	Civil Aviation Safety Authority, Office of Airspace Regulation
CSIG	Corporate Services & Infrastructure Group
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DEFENCE	Department of Defence (Switchboard)
DO	Duty Officer
DOTAM	Director of Training Area Management
DS	Defence Support
EODF	Explosive Ordnance Defence Flight
EXPH	Excluding Public Holidays
FLT	Flight
FLTCDR	Flight Commander
GBRMPA	Great Barrier Marine Park Authority
HQ	Headquarters
HRL	Hunter River Lancers
MHQ	Maritime Headquarters
NDTAM	Non Defence Training Area Manager
OC	Officer Commanding
OIC	Officer In Charge
OPSO	Operations Officer
OPS WO	Operations Warrant Officer
RAAF	Royal Australian Air Force
RCO	Range Control Officer
RSU	Radar Support Unit
SRPSU	School of Radio Physics, Sydney University
WTF	Weapons Training Flight
WTO	Weapons Training Officer

### Conditional RA (Restricted Area) Status

In order to assist with shared use of airspace, all restricted areas have been allocated an “RA Status”. This status will give an indication as to the likelihood of obtaining a clearance to fly through restricted airspace. NOTAMs may be issued to indicate changes to the RA Status; which should be checked prior to flight planning.

#### RA STATUS LEGEND:

**Conditional RA 1:** Pilots may flight plan through the RA and upon request will be granted a clearance from ATC when the area is active unless a NOTAM indicates that a clearance is not available.

**Conditional RA 2:** Pilots may not flight plan through the RA or expect a clearance from ATC. However, tracking may be offered through the RA on a tactical basis by ATC unless a NOTAM indicates that a clearance is not available.

**Conditional RA 3:** Clearance through the RA is not available except in a declared emergency.

## PROHIBITED AREAS

### YMMM/P229 PINE GAP JOINT DEFENCE FACILITY

**LATERAL LIMITS:** A circle of 2.50NM radius centred on  
23 48 21S 133 44 10E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** RAAF Security DO

## RESTRICTED AREA

### YMMM/R119A STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 31 48 07S 114 47 50E, 31 38 54S 113 38 19E  
then along the minor arc of a circle of 120.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 30 50 29S 114 00 32E  
31 23 49S 114 58 43E,

then along the minor arc of a circle of 60.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 48 07S 114 47 50E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 38 44S 114 51 27E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

### YMMM/R119B STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 16 55S 114 38 39E, 32 30 51S 113 41 55E  
then along the minor arc of a circle of 120.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 38 54S 113 38 19E  
31 46 38S 114 36 14E,

then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 16 55S 114 38 39E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

### YMMM/R119E STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 14 47S 115 29 22E, 32 38 44S 114 51 27E  
then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 16 55S 114 38 39E  
32 05 28S 115 23 49E,

then along the minor arc of a circle of 30.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 14 47S 115 29 22E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

### YMMM/R119C STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 31 46 38S 114 36 14E, 31 52 29S 115 22 41E  
then along the minor arc of a circle of 30.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 05 28S 115 23 49E  
32 16 55S 114 38 39E,

then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 46 38S 114 36 14E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

### YMMM/R119F STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 58 36S 115 18 38E, 33 42 40S 114 50 16E  
then along the minor arc of a circle of 120.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 33 08 23S 114 03 35E  
32 38 44S 114 51 27E,

then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 58 36S 115 18 38E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

### YMMM/R119D STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 38 44S 114 51 27E, 33 08 23S 114 03 35E  
then along the minor arc of a circle of 120.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 30 51S 113 41 55E  
32 16 55S 114 38 39E,

### YMMM/R119G STIRLING

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 27 40S 115 38 13E, 32 58 36S 115 18 38E  
then along the minor arc of a circle of 70.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 38 44S 114 51 27E  
32 14 47S 115 29 22E,

then along the minor arc of a circle of 30.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 32 22 32S 115 39 30E  
32 27 40S 115 38 13E

**VERTICAL LIMITS:** SFC - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

**YMMM/R119H STIRLING****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 32 14 47S 115 29 22E, 32 09 27S 115 39 32E

then along W COAST GARDEN IS to 32 14 51S 115 41 24E

32 22 32S 115 39 30E,

then along the minor arc of a circle of 30.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 14 47S 115 29 22E

**VERTICAL LIMITS:** SFC - 4500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R122 NORTH WEST CAPE****CONDITIONAL STATUS:** RA3**COMMUNICATIONS****LATERAL LIMITS:** A circle of 2.00NM radius centred on

21 49 00S 114 09 30E

**VERTICAL LIMITS:** SFC - 3000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** OIC PRD's Exmouth**YMMM/R123 NORTH WEST CAPE****CONDITIONAL STATUS:** RA3**COMMUNICATIONS****LATERAL LIMITS:** A circle of 1.50NM radius centred on

21 54 30S 114 07 30E

**VERTICAL LIMITS:** SFC - 1000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** OIC PRD's Exmouth**YMMM/R124 NORTH WEST CAPE****CONDITIONAL STATUS:** RA3**COMMUNICATIONS****LATERAL LIMITS:** A circle of 1.00NM radius centred on

22 20 02S 114 02 40E

**VERTICAL LIMITS:** SFC - 1000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** OIC PRD's Exmouth**YMMM/R129 BINDOON****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 31 14 20S 116 19 14E, 31 14 20S 116 20 32E

31 15 26S 116 20 32E, 31 15 26S 116 19 14E

31 14 20S 116 19 14E

**VERTICAL LIMITS:** SFC - 5500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM WA**YMMM/R131A YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 3.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** SFC - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131B YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 6.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** 5000 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131C YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 9.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** 10000 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131D YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 13.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** FL150 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131E YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 16.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** FL250 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131F YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 20.00NM radius centred on

29 02 46S 115 20 40E

**VERTICAL LIMITS:** FL350 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia**YMMM/R131G YATHARRAGA****CONDITIONAL STATUS:** RA3**LASER RADIATION OCULAR HAZARD****LATERAL LIMITS:** A circle of 23.00NM radius centred on

29 02 46S 115 20 40E

NOTES: Contact tracking station (08) 99291011 for entry details - (08)

99271760 if above

unattended

**VERTICAL LIMITS:** FL450 - UNL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Geoscience Australia

**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R134A BINDOON****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 31 16 48S 116 14 30E, 31 08 00S 116 14 30E

31 08 00S 116 23 00E, 31 22 17S 116 23 00E

31 22 17S 116 16 50E, 31 20 36S 116 15 42E

31 16 48S 116 15 42E, 31 16 48S 116 14 30E

**VERTICAL LIMITS:** SFC - 4000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM WA**YMMM/R140B GARDEN ISLAND****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 1.00NM radius centred on

32 10 36S 115 40 18E

**VERTICAL LIMITS:** 1500 - 4000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R134B BINDOON****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 31 14 00S 116 14 30E, 31 08 00S 116 14 30E

31 08 00S 116 23 00E, 31 14 00S 116 23 00E

31 14 00S 116 14 30E

**VERTICAL LIMITS:** 4000 - 9000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM WA**YMMM/R144 STIRLING****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 31 52 46S 115 24 56E, 31 48 07S 114 47 50E

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 19 34S 115 02 18E

31 38 11S 115 29 51E, 31 50 01S 115 33 12E

31 52 46S 115 24 56E

**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R134C BINDOON****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 31 20 36S 116 12 24E, 31 16 48S 116 12 24E

31 16 48S 116 15 42E, 31 20 36S 116 15 42E

31 20 36S 116 12 24E

**VERTICAL LIMITS:** SFC - 4000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army DOTAM WA**YMMM/R146A LANCELIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 54 00S 114 56 00E, 30 45 30S 115 17 30E

30 55 00S 115 24 00E, 31 07 30S 115 05 00E

30 54 00S 114 56 00E

**VERTICAL LIMITS:** SFC - FL700**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R134D BINDOON****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 31 20 36S 116 12 24E, 31 16 48S 116 12 24E

31 16 48S 116 15 42E, 31 20 36S 116 15 42E

31 20 36S 116 12 24E

**VERTICAL LIMITS:** 4000 - 10000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM WA**YMMM/R146B LANCELIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 45 30S 115 17 30E, 30 41 00S 115 27 00E

30 50 00S 115 33 00E, 30 55 00S 115 24 00E

30 45 30S 115 17 30E

**VERTICAL LIMITS:** SFC - FL260**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R135 LAVERTON****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 5.00NM radius centred on

28 19 00S 122 50 30E

**VERTICAL LIMITS:** SFC - 8200**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** RAAF Duty OPSO 1 RSU**YMMM/R146C LANCELIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 38 57S 115 07 36E, 30 41 00S 115 27 00E

30 45 30S 115 17 30E, 30 47 56S 115 11 21E

then along COAST 72 to 30 39 41S 115 07 55E

then along COAST 71 to 30 38 57S 115 07 36E

**VERTICAL LIMITS:** SFC - FL260**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Stirling**YMMM/R140A GARDEN ISLAND****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 1.00NM radius centred on

32 10 36S 115 40 18E

**VERTICAL LIMITS:** SFC - 1500**HOURS OF ACTIVITY:** H24**YMMM/R148 LANCELIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 00 00S 114 30 00E, 30 15 32S 115 02 11E

then along COAST 62 to 30 38 57S 115 07 36E  
then along COAST 71 to 30 39 41S 115 07 55E  
then along COAST 72 to 30 47 56S 115 11 21E  
30 54 00S 114 56 00E, 31 07 30S 115 05 00E  
31 40 00S 114 30 00E, 30 00 00S 114 30 00E

**VERTICAL LIMITS:** SFC - FL260

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

#### YMMM/R153A PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 45 51S 115 59 49E, 31 44 06S 116 02 37E

31 39 38S 116 04 23E,

then along the minor arc of a circle of 18.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 44 35S 116 13 14E

31 45 13S 116 12 25E, 31 48 15S 116 05 52E

then along the minor arc of a circle of 11.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 45 51S 115 59 49E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE

FLT

#### YMMM/R153B PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 39 38S 116 04 23E, 31 35 50S 116 05 55E

then along the minor arc of a circle of 22.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 41 53S 116 16 42E

31 44 35S 116 13 14E,

then along the minor arc of a circle of 18.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 39 38S 116 04 23E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE

FLT

#### YMMM/R153C PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 35 50S 116 05 55E, 31 22 34S 116 11 12E

then along the minor arc of a circle of 36.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 30 57S 116 27 08E

31 33 13S 116 27 49E, 31 41 53S 116 16 42E

then along the minor arc of a circle of 22.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 35 50S 116 05 55E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE

FLT

#### YMMM/R153D PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 22 34S 116 11 12E, 30 59 47S 116 20 11E

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 02 00S 116 26 42E

31 04 58S 116 26 25E,

then along TOODYAY/BINDI BINDI RD 4 to 31 24 03S 116 30 01E

then along TOODYAY/BINDI BINDI RD 5 to 31 27 27S 116 26 04E

31 30 57S 116 27 08E,

then along the minor arc of a circle of 36.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 22 34S 116 11 12E

**VERTICAL LIMITS:** SFC - 6500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R155 PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 47 22S 115 50 43E, 31 45 43S 115 46 02E

then along 2NM LAN & PARL TO COT to 31 04 05S 115 23 36E

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 59 47S 116 20 11E

31 44 06S 116 02 37E, 31 45 51S 115 59 49E

then along the minor arc of a circle of 11.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 47 22S 115 50 43E

**VERTICAL LIMITS:** SFC - FL160

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R156 PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 30 40 24S 115 05 43E,

then along 2NM SEAWARD & PARL TO COT 8 to 30 38 39S 115 04 55E

then along the minor arc of a circle of 90.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 31 17S 116 31 19E

30 59 47S 116 20 11E,

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 04 05S 115 23 36E

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 06 08S 115 19 35E

then along 2NM SEAWARD & PARL TO COT 9 to 30 40 24S 115 05 43E

**VERTICAL LIMITS:** 4000 - FL160

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R157 LANCELIN

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING/NON-FLYING

**LATERAL LIMITS:** 31 40 00S 113 00 00E, 30 00 00S 113 00 00E

30 00 00S 114 30 00E, 31 40 00S 114 30 00E

31 40 00S 113 00 00E

**VERTICAL LIMITS:** SFC - FL260

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Stirling

#### YMMM/R160A PEARCE

**CONDITIONAL STATUS:** RA2

##### MILITARY FLYING

**LATERAL LIMITS:** 31 52 46S 115 24 56E, 31 38 54S 113 38 19E

then along the minor arc of a circle of 120.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 08 06S 114 57 33E

then along 2NM SEAWARD AND PARL TO COT 1 to 30 14 54S 114 58 00E

then along 2NM SEAWARD AND PARL TO COT 2 to 30 38 39S 115 04 55E

then along 2NM SEAWARD & PARL TO COT 8 to 30 40 24S 115 05 43E

then along 2NM SEAWARD & PARL TO COT 9 to 31 06 08S 115 19 35E

then along the minor arc of a circle of 60.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 04 05S 115 23 36E  
then along 2NM LAN & PARL TO COT to 31 45 43S 115 46 02E  
31 52 46S 115 24 56E

**VERTICAL LIMITS:** 2000 - FL150

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R160B PEARCE

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 31 52 46S 115 24 56E, 31 38 54S 113 38 19E

then along the minor arc of a circle of 120.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 30 08 06S 114 57 33E  
then along 2NM SEAWARD AND PARL TO COT 1 to 30 14 54S 114 58 00E

then along 2NM SEAWARD AND PARL TO COT 2 to 30 38 39S 115 04 55E

then along 2NM SEAWARD & PARL TO COT 8 to 30 40 24S 115 05 43E

then along 2NM SEAWARD & PARL TO COT 9 to 31 06 08S 115 19 35E

then along the minor arc of a circle of 60.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 04 05S 115 23 36E  
then along 2NM LAN & PARL TO COT to 31 45 43S 115 46 02E  
31 52 46S 115 24 56E

**VERTICAL LIMITS:** FL150 - FL450

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R161A PEARCE

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 31 38 54S 113 38 19E, 31 52 46S 115 24 56E

31 45 43S 115 46 02E, 31 47 22S 115 50 43E

then along the minor arc of a circle of 11.00NM radius centred on  
31 56 42S 115 57 34E (PH/DME) to 31 48 23S 115 49 06E

31 57 14S 115 36 26E,

then along the minor arc of a circle of 18.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 01 07S 115 37 02E

32 13 29S 115 40 47E, 32 14 51S 115 41 24E

32 19 23S 115 40 17E, 33 37 15S 114 39 32E

then along the minor arc of a circle of 120.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 38 54S 113 38 19E

**VERTICAL LIMITS:** 4000 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R161B PEARCE

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 31 38 54S 113 38 19E, 31 52 46S 115 24 56E

31 45 43S 115 46 02E, 31 47 22S 115 50 43E

then along the minor arc of a circle of 11.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 48 23S 115 49 06E

31 57 14S 115 36 26E,

then along the minor arc of a circle of 18.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 01 07S 115 37 02E

32 13 29S 115 40 47E, 32 14 51S 115 41 24E

32 19 23S 115 40 17E, 33 37 15S 114 39 32E

then along the minor arc of a circle of 120.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 31 38 54S 113 38 19E

**VERTICAL LIMITS:** FL200 - FL450

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R166A PEARCE

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 32 13 29S 115 40 47E, 32 13 49S 115 56 52E

32 13 36S 116 04 27E, 33 02 56S 116 24 49E

then along the minor arc of a circle of 70.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 55 28S 115 12 24E

32 19 23S 115 40 17E, 32 14 51S 115 41 24E

32 13 29S 115 40 47E

**VERTICAL LIMITS:** 6000 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R166B PEARCE

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 32 13 29S 115 40 47E, 32 13 49S 115 56 52E

32 13 36S 116 04 27E, 33 02 56S 116 24 49E

then along the minor arc of a circle of 70.00NM radius centred on

31 56 42S 115 57 34E (PH/DME) to 32 55 28S 115 12 24E

32 19 23S 115 40 17E, 32 14 51S 115 41 24E

32 13 29S 115 40 47E

**VERTICAL LIMITS:** FL200 - FL450

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R178 PEARCE

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 31 34 50S 115 48 20E, 31 34 50S 115 57 00E

31 41 40S 115 57 00E, 31 43 00S 115 52 30E

31 41 40S 115 50 20E, 31 34 50S 115 48 20E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN PEARCE  
FLT

#### YMMM/R184 LANCELIN

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** A circle of 1.50NM radius centred on

30 52 54S 115 16 12E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army DOTAM WA

#### YBBB/R203A KANGAROO FLAT

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 12 45 30S 130 48 51E, 12 45 30S 130 51 57E

12 46 53S 130 51 57E,

then along LITCHFIELD PARK RD to 12 49 53S 130 49 52E

12 49 53S 130 47 03E, 12 46 22S 130 47 03E  
12 46 23S 130 48 51E, 12 45 30S 130 48 51E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** W 2000-1300 EXPH  
OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Kangaroo Flat

**YBBB/R203B KANGAROO FLAT**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 12 45 30S 130 48 51E, 12 45 30S 130 51 57E

12 46 53S 130 51 57E,  
then along LITCHFIELD PARK RD to 12 49 53S 130 49 52E  
12 49 53S 130 47 03E, 12 46 22S 130 47 03E  
12 46 23S 130 48 51E, 12 45 30S 130 48 51E

**VERTICAL LIMITS:** 4000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Kangaroo Flat

**YBBB/R212 DELAMERE**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on  
15 40 43S 131 54 58E

**VERTICAL LIMITS:** SFC - 6500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT

**YBBB/R216 DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 12 23 00S 130 54 30E, 12 21 00S 130 54 30E

12 21 00S 130 56 15E, 12 23 00S 130 56 15E  
12 23 00S 130 54 30E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R224A MT BUNDEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 12 55 07S 131 41 06E, 12 58 06S 131 43 01E

13 00 20S 131 45 21E, 13 07 22S 131 50 29E  
13 09 18S 131 52 27E, 13 10 23S 131 52 30E  
13 10 23S 132 04 20E, 12 55 13S 132 04 12E  
12 55 13S 131 58 08E, 12 49 24S 131 58 08E  
then along ARNHAM HWY 1 to 12 51 28S 131 47 01E  
12 55 05S 131 47 01E, 12 55 07S 131 41 06E

**VERTICAL LIMITS:** SFC - FL195

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Mt Bunday

**YBBB/R224B MT BUNDEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 12 55 07S 131 41 06E, 12 58 06S 131 43 01E

13 00 20S 131 45 21E, 13 07 22S 131 50 29E  
13 09 18S 131 52 27E, 13 10 23S 131 52 30E  
13 10 23S 132 04 20E, 12 55 13S 132 04 12E  
12 55 13S 131 58 08E, 12 49 24S 131 58 08E

then along ARNHAM HWY 1 to 12 51 28S 131 47 01E  
12 55 05S 131 47 01E, 12 55 07S 131 41 06E

**VERTICAL LIMITS:** FL195 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Mt Bunday

**YBBB/R224C MT BUNDEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 43 24S 131 42 06E, 12 49 24S 131 58 08E

then along ARNHAM HWY 1 to 12 51 28S 131 47 01E  
12 55 05S 131 47 01E, 12 55 07S 131 41 06E  
12 58 06S 131 43 01E, 13 00 20S 131 45 21E  
13 07 22S 131 50 29E, 13 09 18S 131 52 27E  
13 10 23S 131 52 30E, 13 10 23S 132 02 13E  
then along the minor arc of a circle of 80.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 28 49S 131 44 41E  
13 03 52S 131 27 16E,  
then along the minor arc of a circle of 50.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 43 24S 131 42 06E

**VERTICAL LIMITS:** 8500 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R225 TINDAL**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 15 05 44S 129 54 21E, 15 15 20S 129 54 33E

then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 17 01 53S 132 22 36E  
15 01 23S 132 22 36E,  
then along the minor arc of a circle of 30.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 10 33S 132 00 14E  
13 18 21S 131 23 42E,  
then along the minor arc of a circle of 60.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 22 17S 130 34 07E  
15 05 44S 129 54 21E

**VERTICAL LIMITS:** 9500 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT

**YBBB/R226A TINDAL**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 14 05 11S 132 38 08E, 13 34 17S 132 56 39E

14 12 10S 134 03 18E, 15 06 55S 133 30 41E  
14 41 28S 132 51 47E,  
then along the minor arc of a circle of 30.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 14 05 11S 132 38 08E

**VERTICAL LIMITS:** 9500 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT

**YBBB/R226B TINDAL**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 15 06 55S 133 30 41E, 14 12 10S 134 03 18E

14 42 16S 134 56 58E,  
then along the minor arc of a circle of 150.00NM radius centred on  
14 31 16S 132 22 40E (YPTN/AD) to 15 48 55S 134 35 35E  
15 06 55S 133 30 41E

**VERTICAL LIMITS:** 9500 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN TINDAL FLT	then along the minor arc of a circle of 80.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 20 50S 131 42 58E
<b>YBBB/R230A DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2	<b>VERTICAL LIMITS:</b> 5000 - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM
<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 12 00 17S 130 54 53E, 11 05 02S 130 53 39E	<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT
then along the minor arc of a circle of 80.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 20 50S 131 42 58E	<b>YBBB/R230F DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2
12 05 13S 131 09 35E, then along the minor arc of a circle of 25.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 12 00 17S 130 54 53E	<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 10 48 30S 132 07 07E, 10 24 14S 132 25 11E
<b>VERTICAL LIMITS:</b> 5000 - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM	then along the minor arc of a circle of 150.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 41 01S 133 20 40E
<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT	11 50 11S 132 51 32E, then along the minor arc of a circle of 120.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 10 48 30S 132 07 07E
<b>YBBB/R230B DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2	<b>VERTICAL LIMITS:</b> 5000 - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM
<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 11 05 02S 130 53 39E, 10 24 52S 130 52 46E	<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT
then along the minor arc of a circle of 120.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 10 48 30S 132 07 07E	<b>YMMM/R231 ADELAIDE</b> <b>CONDITIONAL STATUS:</b> RA2
11 20 50S 131 42 58E, then along the minor arc of a circle of 80.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 05 02S 130 53 39E	<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 34 26 08S 138 08 33E, 34 47 27S 138 24 26E
<b>VERTICAL LIMITS:</b> NOTAM - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM	then along the minor arc of a circle of 11.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 57 08S 138 18 06E
<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT	34 58 09S 137 47 42E, then along the minor arc of a circle of 36.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 26 08S 138 08 33E
<b>YBBB/R230C DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2	<b>VERTICAL LIMITS:</b> SFC - 2500 <b>HOURS OF ACTIVITY:</b> NOTAM
<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 10 24 52S 130 52 46E, 09 54 44S 130 52 07E	<b>CONTROLLING AUTHORITY:</b> FLTCDR 453SQN EDINBURGH FLT
then along the minor arc of a circle of 150.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 10 24 14S 132 25 11E	<b>YBBB/R232 DELAMERE</b> <b>CONDITIONAL STATUS:</b> RA2
10 48 30S 132 07 07E, then along the minor arc of a circle of 120.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 10 24 52S 130 52 46E	<b>MILITARY FLYING/NON-FLYING</b> <b>LATERAL LIMITS:</b> A circle of 22.00NM radius centred on 15 40 19S 131 52 58E
<b>VERTICAL LIMITS:</b> NOTAM - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM	<b>VERTICAL LIMITS:</b> SFC - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM
<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT	<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN TINDAL FLT
<b>YBBB/R230D DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2	<b>YMMM/R233A EDINBURGH</b> <b>CONDITIONAL STATUS:</b> RA1
<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 12 05 13S 131 09 35E, 11 20 50S 131 42 58E	<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 34 36 43S 138 41 04E, 34 33 58S 138 42 41E
then along the minor arc of a circle of 80.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 12 02 20S 132 12 38E	then along the minor arc of a circle of 2.00NM radius centred on 34 35 55S 138 43 17E (YGAW/ALA) to 34 33 55S 138 43 34E
12 18 53S 131 19 03E, then along the minor arc of a circle of 25.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 12 05 13S 131 09 35E	then along THE ROSEWORTHY RAILWAY to 34 31 40S 138 44 41E
<b>VERTICAL LIMITS:</b> 5000 - NOTAM <b>HOURS OF ACTIVITY:</b> NOTAM	then along THE KAPUNDA RAILWAY to 34 21 39S 138 53 53E
<b>CONTROLLING AUTHORITY:</b> FLTCDR 452SQN DARWIN FLT	then along the minor arc of a circle of 25.00NM radius centred on 34 42 17S 138 36 45E (EDN/TAC) to 34 26 18S 139 00 03E
<b>YBBB/R230E DARWIN</b> <b>CONDITIONAL STATUS:</b> RA2	34 36 00S 138 52 30E, 34 37 53S 138 43 41E
<b>MILITARY FLYING</b> <b>LATERAL LIMITS:</b> 11 20 50S 131 42 58E, 10 48 30S 132 07 07E	then along the minor arc of a circle of 2.00NM radius centred on 34 35 55S 138 43 17E (YGAW/ALA) to 34 36 43S 138 41 04E
then along the minor arc of a circle of 120.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 11 50 11S 132 51 32E	<b>VERTICAL LIMITS:</b> SFC - 2500 <b>HOURS OF ACTIVITY:</b> NOTAM
12 02 20S 132 12 38E,	<b>CONTROLLING AUTHORITY:</b> FLTCDR 453SQN EDINBURGH FLT



**YMMM/R233B EDINBURGH****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 34 36 43S 138 41 04E, 34 33 58S 138 42 41Ethen along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 33 55S 138 43 34E  
then along THE ROSEWORTHY RAILWAY to 34 31 40S 138 44 41Ethen along THE KAPUNDA RAILWAY to 34 21 39S 138 53 53E  
then along the minor arc of a circle of 25.00NM radius centred on  
34 42 17S 138 36 45E (EDN/TAC) to 34 26 18S 139 00 03E  
34 36 00S 138 52 30E, 34 37 53S 138 43 41Ethen along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 36 43S 138 41 04E**VERTICAL LIMITS:** 2500 - 4500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R234 EDINBURGH****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 34 43 37S 138 31 27E, 34 20 11S 138 22 31Ethen along the minor arc of a circle of 25.00NM radius centred on  
34 42 17S 138 36 45E (EDN/TAC) to 34 21 39S 138 53 53E  
then along THE KAPUNDA RAILWAY to 34 31 40S 138 44 41E  
then along THE ROSEWORTHY RAILWAY to 34 33 55S 138 43 34Ethen along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 33 58S 138 42 41E  
34 36 43S 138 41 04E,then along the minor arc of a circle of 2.00NM radius centred on  
34 35 55S 138 43 17E (YGAW/ALA) to 34 37 53S 138 43 41E  
34 36 00S 138 52 30E, 34 45 48S 138 37 07E

then along LITTLE PARA RVR to 34 46 20S 138 35 36E

34 46 29S 138 34 13E,

then along the minor arc of a circle of 5.00NM radius centred on  
34 42 09S 138 37 15E (YPED/AD) to 34 43 37S 138 31 27E**VERTICAL LIMITS:** 1500 - 4500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R235 ALICE SPRINGS****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 4.00NM radius centred on  
22 58 54S 134 26 52E**VERTICAL LIMITS:** SFC - 7000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** RAAF Duty OPSO 1 RSU**YMMM/R237 WOOMERA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 27 50 00S 133 50 00E, 28 34 00S 133 50 00E

29 07 00S 134 22 00E, 28 08 00S 132 00 00E

27 50 00S 132 00 00E, 27 50 00S 133 50 00E

**VERTICAL LIMITS:** SFC - UNL**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF RCO Woomera**YMMM/R240 WOOMERA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 30 00S 136 00 00E, 31 07 34S 136 00 00E

then along THE RAILWAY LINE to 31 10 54S 136 14 57E

31 15 00S 136 17 00E, 31 15 00S 136 41 00E

31 00 00S 136 45 00E, 30 30 00S 136 30 00E

30 30 00S 136 00 00E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF WTF Woomera**YBBB/R247 TINDAL****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 14 00 00S 131 00 00E, 15 33 59S 131 00 00E

then along VICTORIA HWY 4 to 14 46 51S 131 56 11E

then along the minor arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 14 10 33S 132 00 14E

14 00 00S 131 52 50E, 14 00 00S 131 00 00E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT**YBBB/R248A TINDAL****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 16 11 41S 132 22 36E,

then along the minor arc of a circle of 100.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 15 34 32S 131 02 25E

then along VICTORIA HWY 3 to 14 46 51S 131 56 11E

then along the minor arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 15 01 23S 132 22 36E

16 11 41S 132 22 36E

**VERTICAL LIMITS:** SFC - 10000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT**YBBB/R248B TINDAL****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 16 11 41S 132 22 36E,

then along the minor arc of a circle of 100.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 15 34 32S 131 02 25E

then along VICTORIA HWY 3 to 14 46 51S 131 56 11E

then along the minor arc of a circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD) to 15 01 23S 132 22 36E

16 11 41S 132 22 36E

**VERTICAL LIMITS:** 10000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT**YBBB/R249 TINDAL****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** A circle of 30.00NM radius centred on

14 31 16S 132 22 40E (YPTN/AD)

**VERTICAL LIMITS:** 10000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN TINDAL FLT**YMMM/R251A MONUMENT HILL****CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 47 54S 137 34 55E, 32 45 28S 137 32 09E  
then along the major arc of a circle of 10.00NM radius centred on  
32 49 30S 137 43 00E to 32 53 06S 137 31 57E  
32 50 45S 137 34 52E,

then along the minor arc of a circle of 2.00NM radius centred on  
32 49 18S 137 33 13E to 32 47 54S 137 34 55E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT

**YMMM/R251B MONUMENT HILL**

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 45 28S 137 32 09E, 32 47 54S 137 34 55E  
then along the minor arc of a circle of 2.00NM radius centred on  
32 49 18S 137 33 13E to 32 50 45S 137 34 52E  
32 53 06S 137 31 57E,

then along the minor arc of a circle of 10.00NM radius centred on  
32 49 30S 137 43 00E to 32 45 28S 137 32 09E

**VERTICAL LIMITS:** 7000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT

**YMMM/R252 ALAMEIN**

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 49 39S 137 36 33E, 32 40 46S 137 40 04E  
32 40 49S 137 46 44E, 32 44 36S 137 48 35E  
32 54 06S 137 48 34E, 32 58 24S 137 42 43E  
32 53 28S 137 36 53E, 32 49 39S 137 36 33E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army DOTAM SA

**YMMM/R254 NORTH EAST ROCK**

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING**

**LATERAL LIMITS:** 35 07 00S 136 37 37E, 35 07 00S 136 21 43E  
then along the major arc of a circle of 7.00NM radius centred on  
35 04 30S 136 29 40E to 35 07 00S 136 37 37E

**VERTICAL LIMITS:** NOTAM - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT

**YMMM/R255 EDINBURGH**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 32 22S 138 27 08E, 34 20 11S 138 22 31E  
then along the minor arc of a circle of 25.00NM radius centred on  
34 42 17S 138 36 45E (EDN/TAC) to 34 21 39S 138 53 53E  
then along THE KAPUNDA RAILWAY to 34 31 40S 138 44 41E  
then along THE ROSEWORTHY/WASLEY RAILWAY to 34 28 21S 138  
40 52E

then along THE REDBANK/WASLEY RD to 34 28 42S 138 33 35E

then along LOWER LIGHT REDBANKS RD 1 to 34 32 22S 138 27 08E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT

**YBBB/R262 ROBERTSON BARRACKS**

**CONDITIONAL STATUS:** RA2

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 12 23 06S 130 58 53E, 12 23 09S 130 59 11E  
12 23 16S 130 59 19E, 12 23 23S 130 59 23E  
12 23 57S 130 59 18E, 12 24 26S 130 59 05E  
12 24 39S 130 58 48E, 12 24 45S 130 58 48E  
12 24 45S 130 58 33E, 12 24 39S 130 58 33E  
12 24 36S 130 58 00E, 12 24 16S 130 58 01E  
12 23 53S 130 58 12E, 12 23 16S 130 58 38E  
12 23 06S 130 58 53E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** D 2000-1300 EXPH  
OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Robertson Barracks

**YMMM/R263 CULTANA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 32 33 56S 137 38 34E, 32 32 41S 137 40 22E  
32 33 09S 137 43 00E, 32 40 49S 137 46 44E  
32 40 46S 137 40 04E, 32 33 56S 137 38 34E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army DOTAM SA

**YBBB/R264A DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 38 16S 130 10 16E, 12 32 35S 130 29 53E  
then along the minor arc of a circle of 25.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 18 12S 130 29 54E  
12 12 26S 130 10 20E,  
then along the minor arc of a circle of 45.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 38 16S 130 10 16E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264B DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 48 09S 129 35 54E, 12 38 16S 130 10 16E  
then along the minor arc of a circle of 45.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 12 26S 130 10 20E  
12 02 16S 129 36 08E,  
then along the minor arc of a circle of 80.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 48 09S 129 35 54E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264C DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 59 22S 128 56 35E, 12 48 09S 129 35 54E  
then along the minor arc of a circle of 80.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 02 16S 129 36 08E

11 50 34S 128 57 06E,  
then along the minor arc of a circle of 120.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 59 22S 128 56 35E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264D DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 13 13 15S 128 07 20E, 12 59 22S 128 56 35E

then along the minor arc of a circle of 120.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 11 50 34S 128 57 06E

11 35 48S 128 08 23E,

then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 13 15S 128 07 20E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264E DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 48 09S 129 35 54E, 12 32 35S 130 29 53E

then along the minor arc of a circle of 25.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 44 26S 130 37 42E

13 26 16S 130 00 54E,

then along the minor arc of a circle of 80.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 48 09S 129 35 54E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264F DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 12 59 22S 128 56 35E, 12 48 09S 129 35 54E

then along the minor arc of a circle of 80.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 13 26 16S 130 00 54E

13 56 38S 129 34 00E,

then along the minor arc of a circle of 120.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 12 59 22S 128 56 35E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264G DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 13 13 15S 128 07 20E, 12 59 22S 128 56 35E

then along the minor arc of a circle of 120.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 13 56 38S 129 34 00E

14 34 32S 129 00 13E,

then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 13 15S 128 07 20E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264H DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 13 26 16S 130 00 54E, 12 44 26S 130 37 42E

then along the minor arc of a circle of 25.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 12 49 20S 130 46 39E

13 41 06S 130 26 55E,

then along the minor arc of a circle of 80.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 26 16S 130 00 54E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264J DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 13 56 38S 129 34 00E, 13 26 16S 130 00 54E

then along the minor arc of a circle of 80.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 13 41 06S 130 26 55E

14 18 44S 130 12 30E,

then along the minor arc of a circle of 120.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 13 56 38S 129 34 00E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R264K DARWIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 14 34 32S 129 00 13E, 13 56 38S 129 34 00E

then along the minor arc of a circle of 120.00NM radius centred on

12 25 24S 130 54 23E (DN/DME) to 14 18 44S 130 12 30E

15 05 44S 129 54 21E,

then along the minor arc of a circle of 170.00NM radius centred on  
12 25 24S 130 54 23E (DN/DME) to 14 34 32S 129 00 13E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R265A EDINBURGH**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 43 37S 138 31 27E, 34 20 11S 138 22 31E

then along the minor arc of a circle of 25.00NM radius centred on

34 42 17S 138 36 45E (EDN/TAC) to 34 26 18S 139 00 03E

34 36 00S 138 52 30E, 34 45 48S 138 37 07E

then along LITTLE PARA RVR to 34 46 20S 138 35 36E

34 46 29S 138 34 13E,

then along the minor arc of a circle of 5.00NM radius centred on  
34 42 09S 138 37 15E (YPED/AD) to 34 43 37S 138 31 27E

**VERTICAL LIMITS:** 4500 - FL450

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT

**YMMM/R265B EDINBURGH**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 20 11S 138 22 31E, 34 08 00S 138 17 55E

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 16 35S 139 07 33E

34 26 18S 139 00 03E,

then along the minor arc of a circle of 25.00NM radius centred on  
34 42 17S 138 36 45E (EDN/TAC) to 34 20 11S 138 22 31E

**VERTICAL LIMITS:** 3500 - FL450

**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R265C EDINBURGH****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 34 08 00S 138 17 55E, 33 53 38S 138 12 31Ethen along the minor arc of a circle of 65.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 03 55S 139 17 19E  
34 16 35S 139 07 33E,then along the minor arc of a circle of 50.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 34 08 00S 138 17 55E**VERTICAL LIMITS:** 8500 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R265D EDINBURGH****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 33 53 38S 138 12 31E, 33 20 07S 138 00 03Ethen along the minor arc of a circle of 100.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E  
34 03 55S 139 17 19E,then along the minor arc of a circle of 65.00NM radius centred on  
34 56 49S 138 31 28E (AD/DME) to 33 53 38S 138 12 31E**VERTICAL LIMITS:** 9500 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R266A WOOMERA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 30 02 40S 136 00 00E, 30 08 00S 136 15 00E30 30 54S 136 46 50E, 30 51 15S 137 00 35E  
31 34 53S 137 00 35E,then along the minor arc of a circle of 28.00NM radius centred on  
31 08 39S 136 49 01E (YPWR/AD) to 31 23 16S 136 21 08E  
31 10 54S 136 14 57E,then along THE RAILWAY LINE to 31 07 34S 136 00 00E  
30 02 40S 136 00 00E**VERTICAL LIMITS:** SFC - UNL**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R266B WOOMERA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 28 33 22S 133 00 00E, 29 07 00S 134 22 00E29 20 00S 134 39 00E, 29 33 00S 135 20 00E  
29 58 00S 135 47 00E, 30 02 40S 136 00 00E  
31 03 42S 136 00 00E,

then along RAILWAY 4 to 30 38 16S 134 38 00E

then along RAILWAY 3 to 30 33 42S 133 55 19E

then along THE RAILWAY 1 to 30 30 05S 133 00 00E  
28 33 22S 133 00 00E**VERTICAL LIMITS:** SFC - UNL**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YMMM/R266C WOOMERA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 28 08 00S 131 30 00E, 28 08 00S 132 00 00E

28 33 22S 133 00 00E, 30 30 05S 133 00 00E

then along THE RAILWAY to 30 25 49S 132 15 36E

30 05 00S 132 00 00E, 29 54 00S 131 30 00E

28 08 00S 131 30 00E

**VERTICAL LIMITS:** SFC - UNL**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
FLT**YBBB/R268 KOOLENDONG****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 15 16 10S 129 50 44E, 14 47 55S 129 56 58E

then along FITZMAURICE RIVER 3 to 14 47 48S 130 06 44E

then along FITZMAURICE RIVER 4 to 14 50 06S 130 11 19E

then along FITZMAURICE RIVER 5 to 14 52 10S 130 22 52E

then along FITZMAURICE RIVER 6 to 14 51 10S 130 31 19E

then along FITZMAURICE RIVER 7 to 14 49 29S 130 37 53E

14 55 36S 130 45 23E,

then along YAMBARRAN RANGE1 1 to 14 56 08S 130 43 35E

then along YAMBARRAN RANGE1 2 to 14 54 01S 130 37 42E

then along YAMBARRAN RANGE1 3 to 14 58 51S 130 34 47E

then along YAMBARRAN RANGE1 4 to 15 05 49S 130 34 13E

then along YAMBARRAN RANGE1 5 to 15 08 15S 130 33 28E

then along YAMBARRAN RANGE1 6 to 15 10 42S 130 29 30E

then along YAMBARRAN RANGE1 7 to 15 13 31S 130 28 54E

then along YAMBARRAN RANGE1 8 to 15 17 37S 130 27 39E

then along YAMBARRAN RANGE1 9 to 15 14 31S 130 22 10E

then along YAMBARRAN RANGE1 10 to 15 18 29S 130 18 32E

then along THE VICTORIA RIVER 6 to 15 22 24S 130 14 45E

then along THE VICTORIA RIVER 7 to 15 23 26S 130 14 23E

then along THE VICTORIA RIVER 8 to 15 24 16S 130 05 11E

then along THE VICTORIA RIVER 9 to 15 26 11S 129 57 38E

then along THE VICTORIA RIVER 10 to 15 20 50S 129 52 09E

then along THE VICTORIA RIVER 10 to 15 16 10S 129 50 44E

**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Koolendong**YBBB/R269 ANGALARRI NORTH****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 14 55 36S 130 45 23E, 14 55 43S 131 00 00E

15 12 01S 131 00 00E,

then along THE IKYMBON RIVER to 15 11 48S 130 55 52E

then along THE ANGALARRI/IKYMBON RIVERS 1 to 15 21 59S 130  
16 09E

then along THE VICTORIA RIVER 5 to 15 22 24S 130 14 45E

then along YAMBARRAN RANGE 1 to 15 18 29S 130 18 32E

then along YAMBARRAN RANGE1 10 to 15 14 31S 130 22 10E

then along YAMBARRAN RANGE1 9 to 15 17 37S 130 27 39E

then along YAMBARRAN RANGE1 8 to 15 13 31S 130 28 54E

then along YAMBARRAN RANGE1 7 to 15 10 42S 130 29 30E

then along YAMBARRAN RANGE1 6 to 15 08 15S 130 33 28E

then along YAMBARRAN RANGE1 5 to 15 05 49S 130 34 13E

then along YAMBARRAN RANGE1 4 to 14 58 51S 130 34 47E

then along YAMBARRAN RANGE1 3 to 14 54 01S 130 37 42E

then along YAMBARRAN RANGE1 2 to 14 56 08S 130 43 35E

then along YAMBARRAN RANGE1 1 to 14 55 36S 130 45 23E

**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Angalarri North

**YBBB/R270 ANGALARRI SOUTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 15 21 05S 130 47 52E, 15 32 10S 130 47 53E

then along THE VICTORIA RIVER 1 to 15 37 12S 130 40 05E

then along THE VICTORIA RIVER 2 to 15 35 13S 130 31 51E

then along THE VICTORIA RIVER 3 to 15 35 45S 130 29 27E

then along the minor arc of a circle of 3.00NM radius centred on

15 37 14S 130 26 44E (YTBR/ALA) to 15 36 15S 130 23 48E

then along THE VICTORIA RIVER 5 to 15 31 36S 130 22 22E

then along THE VICTORIA RIVER 4 to 15 21 59S 130 16 09E

then along THE ANGALARRI/KYMBON RIVERS 1 to 15 11 48S 130 55 52E

then along THE IKYMBON RIVER to 15 12 01S 131 00 00E

15 21 05S 131 00 00E, 15 21 05S 130 47 52E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Angalarri South

**YBBB/R272 BATHURST ISLAND**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on

11 45 34S 130 02 05E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R273 WOOMERA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 51 15S 137 00 35E, 30 52 00S 137 24 00E

31 11 50S 137 21 26E,

then along the minor arc of a circle of 28.00NM radius centred on

31 08 39S 136 49 01E (YPWR/AD) to 31 34 53S 137 00 35E

30 51 15S 137 00 35E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH FLT

**YMMM/R275 WOOMERA**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on

31 08 12S 136 47 48E

**VERTICAL LIMITS:** SFC - 2100

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** RAAF WTF Woomera

**YMMM/R276 KOOLYMILKA**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 2.00NM radius centred on

30 57 34S 136 31 54E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** RAAF WTF Woomera

**YMMM/R279 EDINBURGH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 21 44S 136 33 21E, 35 18 08S 136 52 48E

then along COAST/YORKE PENINSULA 1 to 35 13 44S 136 59 23E

then along COAST/YORKE PENINSULA 2 to 35 14 29S 137 09 04E

then along COAST/YORKE PENINSULA 3 to 35 10 01S 137 18 48E

then along COAST/YORKE PENINSULA 4 to 35 08 15S 137 35 20E

then along COAST/YORKE PENINSULA 5 to 35 07 28S 137 44 19E

then along COAST/YORKE PENINSULA 6 to 35 01 01S 137 45 30E

then along COAST/YORKE PENINSULA 7 to 34 58 12S 137 46 05E

34 57 38S 138 03 31E,

then along the minor arc of a circle of 23.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 05 02S 138 05 19E

35 35 27S 137 23 33E,

then along COAST/KANGAROO IS 5 to 35 37 19S 137 12 31E

then along COAST/KANGAROO IS 4 to 35 39 24S 137 06 29E

then along COAST/KANGAROO IS 3 to 35 40 25S 136 59 32E

then along COAST/KANGAROO IS 2 to 35 41 24S 136 52 12E

then along COAST KANGAROO IS 7 to 35 43 19S 136 43 13E

then along the minor arc of a circle of 100.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 21 44S 136 33 21E

**VERTICAL LIMITS:** SFC - FL250

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH FLT

**YMMM/R282 ADELAIDE**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 45 40S 138 18 03E, 36 10 00S 138 10 00E

36 15 26S 137 31 00E, 36 52 11S 137 04 08E

then along the minor arc of a circle of 150.00NM radius centred on

34 42 17S 138 36 45E (EDN/TAC) to 37 03 57S 139 38 12E

35 54 48S 139 07 39E, 35 42 02S 138 57 43E

then along the minor arc of a circle of 50.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 35 45 40S 138 18 03E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH FLT

**YMMM/R283 WOOMERA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 29 07 00S 134 57 00E, 28 43 00S 135 10 00E

28 43 00S 135 45 00E, 29 18 00S 136 36 00E

30 19 32S 136 58 59E, 30 25 30S 136 48 05E

then along the minor arc of a circle of 5.30NM radius centred on

30 29 06S 136 52 36E (YOLD/AD) to 30 30 54S 136 46 50E

30 08 00S 136 15 00E, 29 58 00S 135 47 00E

29 33 00S 135 20 00E, 29 20 00S 134 39 00E

29 07 00S 134 22 00E, 29 07 00S 134 57 00E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH FLT

**YMMM/R286 PINE LEA**

**CONDITIONAL STATUS:** RA3

**EXPLOSIVES STORAGE**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on

34 35 34S 139 39 45E

**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Safework SA Govt

**YMMM/R287A WOOMERA**  
**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 25 30S 136 48 05E, 30 19 32S 136 58 59E  
 30 23 48S 137 00 35E, 30 32 00S 137 17 00E  
 30 40 42S 137 20 02E, 30 52 00S 137 24 00E  
 30 51 15S 137 00 35E, 30 30 54S 136 46 50E  
 then along the minor arc of a circle of 5.30NM radius centred on  
 30 29 06S 136 52 36E (YOLD/AD) to 30 25 30S 136 48 05E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
 FLT

**YMMM/R287B WOOMERA**  
**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 25 30S 136 48 05E, 30 19 32S 136 58 59E  
 30 23 48S 137 00 35E, 30 32 00S 137 17 00E  
 30 40 42S 137 20 02E, 30 52 00S 137 24 00E  
 30 51 15S 137 00 35E, 30 30 54S 136 46 50E  
 then along the minor arc of a circle of 5.30NM radius centred on  
 30 29 06S 136 52 36E (YOLD/AD) to 30 25 30S 136 48 05E

**VERTICAL LIMITS:** 2000 - 4000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
 FLT

**YMMM/R287C WOOMERA**  
**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 25 30S 136 48 05E, 30 19 32S 136 58 59E  
 30 23 48S 137 00 35E, 30 32 00S 137 17 00E  
 30 40 42S 137 20 02E, 30 52 00S 137 24 00E  
 30 51 15S 137 00 35E, 30 30 54S 136 46 50E  
 then along the minor arc of a circle of 5.30NM radius centred on  
 30 29 06S 136 52 36E (YOLD/AD) to 30 25 30S 136 48 05E

**VERTICAL LIMITS:** 4000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN EDINBURGH  
 FLT

**YMMM/R289A MURRAY BRIDGE**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 09 00S 139 20 00E, 35 04 00S 139 20 00E  
 35 04 00S 139 30 00E, 35 09 00S 139 30 00E  
 35 09 00S 139 20 00E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** D 2130 - 1330 EXPH (1 HR EARLIER  
 HDS)

OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Murray Bridge

**YMMM/R289B MURRAY BRIDGE**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 09 00S 139 20 00E, 35 04 00S 139 20 00E  
 35 04 00S 139 30 00E, 35 09 00S 139 30 00E  
 35 09 00S 139 20 00E

**VERTICAL LIMITS:** 2500 - 7000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Murray Bridge

**YMMM/R292A PORT WAKEFIELD**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 27 06S 138 08 30E, 34 13 30S 138 08 30E  
 34 13 30S 138 11 59E,  
 then along PORT WAKEFIELD RD to 34 19 57S 138 16 15E  
 34 25 18S 138 16 06E, 34 27 15S 138 13 29E  
 34 27 06S 138 08 30E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Army RCO Port Wakefield

**YMMM/R292B PORT WAKEFIELD**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 13 30S 138 08 30E, 34 13 30S 138 11 59E  
 then along PORT WAKEFIELD RD to 34 19 57S 138 16 15E  
 34 25 18S 138 16 06E, 34 27 15S 138 13 29E  
 34 27 06S 138 08 30E, 34 13 30S 138 08 30E

**VERTICAL LIMITS:** 8500 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Port Wakefield

**YMMM/R292C PORT WAKEFIELD**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 25 47S 138 15 27E, 34 29 30S 138 16 30E  
 34 29 30S 138 08 30E, 34 27 06S 138 08 30E  
 34 27 15S 138 13 29E, 34 25 47S 138 15 27E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Port Wakefield

**YMMM/R292D PORT WAKEFIELD**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 29 30S 138 16 30E, 34 34 00S 138 18 00E  
 34 34 00S 138 08 30E, 34 29 30S 138 08 30E  
 34 29 30S 138 16 30E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Port Wakefield

**YMMM/R292E PORT WAKEFIELD**  
**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 24 00S 138 03 30E, 34 13 30S 138 03 30E  
 34 13 30S 138 08 30E, 34 24 00S 138 08 30E  
 34 24 00S 138 03 30E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Port Wakefield

**YMMM/R292F PORT WAKEFIELD****CONDITIONAL STATUS:** RA3**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 24 00S 138 03 30E, 34 29 27S 138 03 30E  
34 34 00S 138 06 30E, 34 34 00S 138 08 30E  
34 24 00S 138 08 30E, 34 24 00S 138 03 30E**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Port Wakefield**YMMM/R298 PELICAN POINT****CONDITIONAL STATUS:** RA3**HEAT PLUME AVOIDANCE****LATERAL LIMITS:** A circle of 0.25NM radius centred on  
34 45 56S 138 30 21E**VERTICAL LIMITS:** SFC - 1500**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** International Power Australia**YMMM/R321 LAVERTON****CONDITIONAL STATUS:** RA3**GAS PEAKING POWER STATION****LATERAL LIMITS:** A circle of 0.30NM radius centred on  
37 50 29S 144 47 18E**VERTICAL LIMITS:** SFC - 2900AMSL**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Snowy Hydro Laverton**YMMM/R323A WESTERN PORT****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 38 32 23S 144 41 41E, 38 30 00S 144 55 22E

then along the major arc of a circle of 5.00NM radius centred on

38 28 55S 145 01 35E to 38 32 52S 145 05 28E

38 35 30S 145 08 30E, 38 43 58S 145 08 32E

then along the minor arc of a circle of 16.00NM radius centred on

38 28 55S 145 01 35E to 38 32 23S 144 41 41E

**VERTICAL LIMITS:** SFC - 9000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Cerberus**YMMM/R323B WESTERN PORT****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 38 28 55S 145 01 35E, 38 32 23S 144 41 41E

then along the minor arc of a circle of 16.00NM radius centred on

38 28 55S 145 01 35E to 38 44 55S 145 02 00E

38 29 07S 145 02 00E, 38 28 55S 145 01 35E

**VERTICAL LIMITS:** SFC - FL550**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Cerberus**YMMM/R325A SERPENTINE****CONDITIONAL STATUS:** RA3**MODEL ROCKET ACTIVITY****LATERAL LIMITS:** A circle of 3.00NM radius centred on  
36 28 57S 144 01 02E**VERTICAL LIMITS:** SFC - FL125**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/R325B SERPENTINE****CONDITIONAL STATUS:** RA3**MODEL ROCKET ACTIVITY****LATERAL LIMITS:** A circle of 3.00NM radius centred on  
36 28 57S 144 01 02E**VERTICAL LIMITS:** FL125 - FL270**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Airservices Australia**YMMM/R332 HANNS INLET****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 1.50NM radius centred on  
38 22 48S 145 12 00E**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** D 2200 - 1300 EXPH (1 HR EARLIER  
HDS)

OT by NOTAM

**CONTROLLING AUTHORITY:** Navy HMAS Cerberus**YMMM/R339 CAPE SCHANCK****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 38 51 00S 144 21 00E, 38 38 00S 144 41 00E

38 36 16S 144 43 28E,

then along the minor arc of a circle of 16.00NM radius centred on

38 28 55S 145 01 35E to 38 44 45S 145 04 34E

38 49 30S 144 56 30E, 39 02 00S 144 34 00E

38 51 00S 144 21 00E

**VERTICAL LIMITS:** NOTAM - FL550**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy HMAS Cerberus**YMMM/R350 PUCKAPUNYAL****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 36 52 40S 144 49 30E, 36 50 00S 144 56 00E

36 52 30S 144 56 00E, 36 52 35S 145 03 45E

36 55 00S 145 05 30E, 37 01 30S 144 59 00E

37 01 30S 144 49 30E, 36 52 40S 144 49 30E

**VERTICAL LIMITS:** SFC - FL200**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Puckapunyal**YMMM/R351A GRAYTOWN****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 36 52 30S 144 56 00E, 36 50 00S 144 56 00E

36 50 00S 145 02 00E, 36 52 35S 145 03 45E

36 52 30S 144 56 00E

**VERTICAL LIMITS:** SFC - FL200**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Graytown

**YMMM/R351B GRAYTOWN****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 36 52 30S 144 56 00E, 36 50 00S 144 56 00E  
36 50 00S 145 02 00E, 36 52 35S 145 03 45E  
36 52 30S 144 56 00E**VERTICAL LIMITS:** FL200 - FL500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Graytown**LATERAL LIMITS:** 38 33 45S 146 16 09E, 38 17 16S 146 48 04E  
then along the major arc of a circle of 20.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 46 25S 147 14 39E  
37 17 04S 147 22 39E,then along the major arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 33 45S 146 16 09E**VERTICAL LIMITS:** 4000 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
FLT**YMMM/R352 PUCKAPUNYAL****CONDITIONAL STATUS:** RA3**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 36 55 00S 145 05 30E, 37 01 30S 144 59 00E  
36 59 33S 145 03 39E, 36 55 00S 145 05 30E**VERTICAL LIMITS:** SFC - 3000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Puckapunyal**YMMM/R358E EAST SALE****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 37 42 53S 146 12 54E, 37 56 51S 146 46 25E  
then along the minor arc of a circle of 20.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 38 17 16S 146 48 04E  
38 33 45S 146 16 09E,then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 42 53S 146 12 54E**VERTICAL LIMITS:** 6000 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
FLT**YMMM/R358A EAST SALE****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** A circle of 20.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD)**VERTICAL LIMITS:** SFC - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
FLT**YMMM/R361 POINT COOK****CONDITIONAL STATUS:** RA3**FLYING DISPLAYS****LATERAL LIMITS:** A circle of 3.00NM radius centred on  
37 55 56S 144 45 12E (YMPC/AD)**VERTICAL LIMITS:** SFC - 2500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Airfield Manager Point Cook**YMMM/R358B EAST SALE****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 37 56 51S 146 46 25E, 37 49 53S 146 29 38E  
then along the minor arc of a circle of 35.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 31 45S 147 18 39E  
37 46 25S 147 14 39E,then along the minor arc of a circle of 20.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 56 51S 146 46 25E**VERTICAL LIMITS:** 4000 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
FLT**YMMM/R362A STONY HEAD****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** 41 03 10S 146 56 25E, 41 01 44S 146 55 54E  
then along NORTH COAST to 41 00 01S 147 04 50E  
41 03 54S 147 04 06E, 41 03 10S 146 56 25E**VERTICAL LIMITS:** SFC - 3500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM VIC/TAS**YMMM/R358C EAST SALE****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 37 49 53S 146 29 38E, 37 42 53S 146 12 54E  
then along the minor arc of a circle of 50.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 17 04S 147 22 39E  
37 31 45S 147 18 39E,then along the minor arc of a circle of 35.00NM radius centred on  
38 05 56S 147 08 58E (YMES/AD) to 37 49 53S 146 29 38E**VERTICAL LIMITS:** 6000 - FL450**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
FLT**YMMM/R362B STONY HEAD****CONDITIONAL STATUS:** RA2**MILITARY NON-FLYING****LATERAL LIMITS:** 41 03 10S 146 56 25E, 41 01 44S 146 55 54E  
then along NORTH COAST to 41 00 01S 147 04 50E  
41 03 54S 147 04 06E, 41 03 10S 146 56 25E**VERTICAL LIMITS:** 3500 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army DOTAM VIC/TAS**YMMM/R358D EAST SALE****CONDITIONAL STATUS:** RA1**MILITARY FLYING****YMMM/R363 MULWALA****CONDITIONAL STATUS:** RA3**MILITARY NON-FLYING****LATERAL LIMITS:** A circle of 1.15NM radius centred on  
35 58 40S 145 58 44E**VERTICAL LIMITS:** SFC - 2000



**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Thales Mulwala

**YMMM/R364 BENALLA**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 36 29 18S 145 59 35E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Thales Benalla

**YMMM/R368 ALBURY**  
**CONDITIONAL STATUS:** RA2  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
 36 03 35S 147 01 38E  
**VERTICAL LIMITS:** SFC - 2200  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Army RCO Albury

**YMMM/R374 SWAN ISLAND**  
**CONDITIONAL STATUS:** RA3  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 38 14 50S 144 41 30E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Army RCO Swan Island

**YMMM/R379A BUCKLAND**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** 42 30 12S 147 39 04E, 42 20 25S 147 46 01E  
 42 20 26S 147 54 21E, 42 31 49S 147 51 23E  
 42 30 12S 147 39 04E  
**VERTICAL LIMITS:** SFC - 4000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Army DOTAM VIC/TAS

**YMMM/R379B BUCKLAND**  
**CONDITIONAL STATUS:** RA2  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** 42 30 12S 147 39 04E, 42 20 25S 147 46 01E  
 42 20 26S 147 54 21E, 42 31 49S 147 51 23E  
 42 30 12S 147 39 04E  
**VERTICAL LIMITS:** 4000 - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Army DOTAM VIC/TAS

**YMMM/R380 PONTVILLE**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** 42 41 08S 147 16 30E, 42 40 26S 147 16 00E  
 42 39 03S 147 18 16E, 42 40 22S 147 19 30E  
 42 41 08S 147 16 30E  
**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Army DOTAM VIC/TAS

**YMMM/R391A DUTSON**  
**CONDITIONAL STATUS:** RA2  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 38 11 00S 147 15 00E, 38 08 57S 147 13 58E  
 38 08 57S 147 19 03E, 38 12 00S 147 18 30E  
 38 11 00S 147 15 00E  
**VERTICAL LIMITS:** NOTAM - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
 FLT

**YMMM/R391B DUTSON**  
**CONDITIONAL STATUS:** RA2  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 38 08 57S 147 13 58E, 38 06 00S 147 12 30E  
 38 06 30S 147 19 30E, 38 08 57S 147 19 03E  
 38 08 57S 147 13 58E  
**VERTICAL LIMITS:** NOTAM - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** FLTCDR 453SQN EAST SALE  
 FLT

**YMMM/R405A SYDNEY**  
**CONDITIONAL STATUS:** RA3  
**HELICOPTERS & SEAPLANES**  
**LATERAL LIMITS:** 33 50 44S 151 07 48E, 33 50 36S 151 07 11E  
 then along STH BANK PARRAMATTA RVR 8 to 33 50 10S 151 06 14E  
 then along S BANK PARRAMATTA RVR 2 to 33 49 37S 151 05 37E  
 then along S BANK PARRAMATTA RVR 8 to 33 49 26S 151 05 17E  
 then along the minor arc of a circle of 8.50NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 48 03S 151 10 53E  
 then along THE PACIFIC HWY 2 to 33 51 10S 151 12 41E  
 33 51 20S 151 12 28E,  
 then along THE S BANK PARRAMATTA RVR to 33 52 27S 151 11 59E  
 then along S BANK PARRAMATTA RVR 6 to 33 51 33S 151 11 45E  
 then along S BANK PARRAMATTA RVR 5 to 33 50 58S 151 10 50E  
 33 50 50S 151 10 20E, 33 50 57S 151 09 53E  
 33 50 51S 151 09 19E,  
 then along S BANK PARRAMATTA RVR 4 to 33 50 43S 151 08 38E  
 33 50 52S 151 08 29E,  
 then along S BANK PARRAMATTA RVR 3 to 33 50 44S 151 07 48E  
**VERTICAL LIMITS:** SFC - 500  
**HOURS OF ACTIVITY:** HJ  
**CONTROLLING AUTHORITY:** CASA OAR

**YMMM/R405B SYDNEY**  
**CONDITIONAL STATUS:** RA3  
**HELICOPTERS & SEAPLANES**  
**LATERAL LIMITS:** 33 49 50S 151 17 05E, 33 50 06S 151 16 52E  
 then along SOUTHERN SHORE HARBOUR 5 to 33 51 09S 151 16  
 15E  
 then along SOUTHERN SHORE HARBOUR 4 to 33 52 22S 151 15  
 26E  
 then along SOUTHERN SHORE HARBOUR 3 to 33 51 56S 151 15  
 13E  
 then along SOUTHERN SHORE HARBOUR 2 to 33 51 33S 151 13  
 46E  
 then along SOUTHERN SHORE HARBOUR 1 to 33 51 20S 151 12  
 28E  
 33 51 10S 151 12 41E,  
 then along THE PACIFIC HWY 2 to 33 48 03S 151 10 53E

then along the minor arc of a circle of 8.50NM radius centred on 33 56 34S 151 10 51E (SY/DME) to 33 49 50S 151 17 05E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** HJ

**CONTROLLING AUTHORITY:** CASA OAR

#### YMMM/R406 TEMORA

**CONDITIONAL STATUS:** RA2

**AIR DISPLAYS**

**LATERAL LIMITS:** A circle of 5.00NM radius centred on 34 25 17S 147 30 42E (YTEM/AD)

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Temora Historic Flight Club

#### YMMM/R408 WAGGA

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 0.05NM radius centred on 35 10 13S 147 27 57E

**VERTICAL LIMITS:** SFC - 1900

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** RAAF BCP Wagga

#### YMMM/R415 WAGGA

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 35 10 29S 147 28 15E, 35 10 09S 147 28 19E  
35 10 14S 147 29 03E, 35 10 50S 147 28 57E  
35 10 42S 147 27 49E, 35 10 19S 147 27 53E  
35 10 29S 147 28 15E

**VERTICAL LIMITS:** SFC - 1900

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** RAAF BCP Wagga

#### YMMM/R418 KAPOOKA

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 1.50NM radius centred on 35 09 30S 147 16 30E

**VERTICAL LIMITS:** SFC - 3000

**HOURS OF ACTIVITY:** D 2100 - 0700

THU 2100 - 1300 EXPH (1 HR EARLIER HDS)  
OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Kapooka

#### YMMM/R420A NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 59 16S 150 21 24E, 35 03 10S 150 15 21E  
then along the minor arc of a circle of 15.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 34 43 16S 150 24 37E  
then along the minor arc of a circle of 15.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 34 45 06S 150 43 07E  
34 52 09S 150 32 26E,  
then along THE S SHORE SHOALHAVEN RVR 2 to 34 51 58S 150 29 55E

34 50 19S 150 24 40E,

then along the minor arc of a circle of 9.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 34 59 16S 150 21 24E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

#### YMMM/R420B NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 50 19S 150 24 40E, 34 51 58S 150 29 55E  
then along THE S SHORE SHOALHAVEN RVR 2 to 34 52 09S 150 32 26E

34 59 16S 150 21 24E,

then along the minor arc of a circle of 9.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 34 50 19S 150 24 40E

**VERTICAL LIMITS:** 2500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

#### YMMM/R420C NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 52 09S 150 32 26E, 34 45 06S 150 43 07E  
34 43 56S 151 00 00E, 34 56 07S 150 59 57E

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 08 13S 150 07 32E

34 59 16S 150 21 24E,

then along the major arc of a circle of 9.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 52 23S 150 41 24E

34 51 22S 150 38 45E,

then along THE S SHORE SHOALHAVEN RVR 1 to 34 52 09S 150 32 26E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

#### YMMM/R420D NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 59 16S 150 21 24E, 34 52 09S 150 32 26E  
then along THE S SHORE SHOALHAVEN RVR 1 to 34 51 22S 150 38 45E

34 52 23S 150 41 24E,

then along the major arc of a circle of 9.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 59 16S 150 21 24E

**VERTICAL LIMITS:** 2500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

#### YMMM/R420E NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 45 06S 150 43 07E, 34 40 30S 150 51 00E  
34 40 30S 151 03 00E, 34 43 56S 151 00 00E  
34 45 06S 150 43 07E

**VERTICAL LIMITS:** 1500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

#### YMMM/R420F NOWRA

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 34 45 06S 150 43 07E, 34 40 30S 150 51 00E  
34 40 30S 151 03 00E, 34 43 56S 151 00 00E  
34 56 07S 150 59 57E,  
then along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 08 13S 150 07 32E  
34 59 16S 150 21 24E, 34 52 09S 150 32 26E  
34 45 06S 150 43 07E

**VERTICAL LIMITS:** FL125 - FL300

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN NOWRA FLT

**YMMM/R424 CANBERRA**

**CONDITIONAL STATUS:** RA3

**RADIO TELESCOPE**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
35 22 30S 149 25 30E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** SRPSU

**YMMM/R425 TIDBINBILLA**

**CONDITIONAL STATUS:** RA3

**RADIATION HAZARD**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
35 24 07S 148 58 48E

**VERTICAL LIMITS:** SFC - 3600

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** CSIRO Tidbinbilla

**YMMM/R426 TIDBINBILLA**

**CONDITIONAL STATUS:** RA3

**SPACE TRACKING**

**LATERAL LIMITS:** A circle of 2.00NM radius centred on  
35 24 07S 148 58 48E

**VERTICAL LIMITS:** SFC - FL120

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** CSIRO Tidbinbilla

**YMMM/R452 BEECROFT HEAD**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 59 00S 151 07 00E, 35 08 54S 151 07 00E

35 05 27S 150 48 56E, 35 05 27S 150 47 12E

35 06 06S 150 42 48E, 35 04 20S 150 42 15E

35 02 18S 150 42 09E, 35 00 00S 150 44 00E

35 01 24S 150 47 15E, 35 01 24S 150 50 24E

34 59 00S 151 07 00E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453A TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 34 59 11S 150 42 37E, 34 59 59S 150 49 53E

then along the minor arc of a circle of 15.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 57 30S 150 50 14E

34 57 24S 150 59 58E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 12 02S 150 53 14E

35 03 04S 150 40 06E,

then along the minor arc of a circle of 9.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 59 11S 150 42 37E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453B TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 35 05 59S 150 33 00E, 35 19 57S 150 34 29E

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 12 02S 150 53 14E

35 03 04S 150 40 06E,

then along the minor arc of a circle of 9.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 05 59S 150 33 00E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453C TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 34 57 24S 150 59 58E, 34 57 02S 151 30 23E

then along the minor arc of a circle of 48.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 13 27S 151 26 58E

35 05 04S 150 58 14E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 57 24S 150 59 58E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453D TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 05 04S 150 58 14E, 35 13 27S 151 26 58E

then along the minor arc of a circle of 48.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 28 00S 151 16 47E

35 12 02S 150 53 14E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 05 04S 150 58 14E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453E TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 35 12 02S 150 53 14E, 35 28 00S 151 16 47E

then along the minor arc of a circle of 48.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 38 38S 151 01 20E

35 16 58S 150 45 59E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 35 12 02S 150 53 14E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R453F TASMAN SEA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 44 53S 150 37 10E, 35 19 57S 150 34 29Ethen along the minor arc of a circle of 23.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 16 58S 150 45 59E  
35 38 38S 151 01 20E,then along the minor arc of a circle of 48.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 44 53S 150 37 10E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YMMM/R453G TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 57 02S 151 30 23E, 34 56 32S 151 59 35Ethen along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 21 23S 151 54 38E  
35 13 27S 151 26 58E,then along the minor arc of a circle of 48.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 34 57 02S 151 30 23E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YMMM/R453H TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 13 27S 151 26 58E, 35 21 23S 151 54 38Ethen along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 43 14S 151 39 32E  
35 28 00S 151 16 47E,then along the minor arc of a circle of 48.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 13 27S 151 26 58E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YMMM/R453J TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 28 00S 151 16 47E, 35 43 14S 151 39 32Ethen along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 59 23S 151 16 13E  
35 38 38S 151 01 20E,then along the minor arc of a circle of 48.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 28 00S 151 16 47E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YMMM/R453K TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 38 38S 151 01 20E, 35 59 23S 151 16 13Ethen along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 08 50S 150 39 46E  
35 44 53S 150 37 10E,then along the minor arc of a circle of 48.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 38 38S 151 01 20E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R453L TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 56 32S 151 59 35E, 34 56 01S 152 25 27E

35 18 59S 152 55 50E,

then along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 36 56S 152 50 15E

35 21 23S 151 54 38E,

then along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 34 56 32S 151 59 35E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R453M TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 21 23S 151 54 38E, 35 36 56S 152 50 15Ethen along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 13 30S 152 25 29E

35 43 14S 151 39 32E,

then along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 21 23S 151 54 38E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R453N TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 43 14S 151 39 32E, 36 13 30S 152 25 29Ethen along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 40 48S 151 46 21E

35 59 23S 151 16 13E,

then along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 35 43 14S 151 39 32E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R453P TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 36 08 50S 150 39 46E, 36 56 43S 150 45 03Ethen along the minor arc of a circle of 120.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 40 48S 151 46 21E

35 59 23S 151 16 13E,

then along the minor arc of a circle of 72.00NM radius centred on  
34 57 00S 150 32 00E (NWA/TAC) to 36 08 50S 150 39 46E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YMMM/R455 CANBERRA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 35 16 05S 149 12 20E, 35 16 42S 149 12 20E

35 16 42S 149 15 00E, 35 13 20S 149 15 00E

35 13 20S 149 12 31E, 35 14 08S 149 12 20E

35 15 32S 149 12 20E, 35 15 33S 149 12 34E

35 16 05S 149 12 20E

**VERTICAL LIMITS:** SFC - 2700**HOURS OF ACTIVITY:** MON-THU 2030 - 1300

FRI-SUN 2030 - 1230 (1 HR EARLIER HDS)

**CONTROLLING AUTHORITY:** Army RCO Majura Canberra**YBBB-YMMM/R469 RICHMOND****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 33 42 11S 150 36 41E, 33 36 13S 150 22 41E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 17S 150 52 09E

33 31 39S 150 59 47E,

then along the major arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 42 11S 150 36 41E

**VERTICAL LIMITS:** SFC - 4500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Dept of Defence - RAAF**YMMM/R473 NORTH HEAD****CONDITIONAL STATUS:** RA3**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** A circle of 0.50NM radius centred on

33 49 20S 151 17 30E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army NDTAM North Head**YMMM/R485A TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 34 26 37S 151 09 46E, 34 06 00S 151 19 43E

34 06 00S 151 45 06E,

then along the minor arc of a circle of 30.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 26 37S 151 09 46E

**VERTICAL LIMITS:** SFC - 1500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R485B TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 34 30 00S 151 51 35E, 34 30 00S 151 08 07E

34 26 37S 151 09 46E,

then along the minor arc of a circle of 30.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 06 00S 151 45 06E

34 06 00S 152 03 16E, 34 30 00S 151 51 35E

**VERTICAL LIMITS:** SFC - 7500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R485C TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 34 20 29S 151 56 14E, 34 06 00S 152 03 16E

34 06 00S 152 34 17E,

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 30 53S 152 24 28E

34 20 29S 151 56 14E

**VERTICAL LIMITS:** SFC - 8500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB/R485D TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 34 50 59S 153 20 09E, 34 30 53S 152 24 28E

then along the minor arc of a circle of 70.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 06 00S 152 34 17E

34 06 00S 153 34 46E,

then along the minor arc of a circle of 120.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 34 50 59S 153 20 09E

**VERTICAL LIMITS:** SFC - FL125**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R485E TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 35 19 20S 152 56 18E, 34 30 00S 151 51 35E

34 20 29S 151 56 14E, 34 50 59S 153 20 09E

then along the minor arc of a circle of 120.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 35 19 20S 152 56 18E

**VERTICAL LIMITS:** SFC - FL205**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R489 TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 33 38 02S 151 51 02E, 33 26 06S 152 00 27E

33 25 47S 152 22 03E, 33 44 42S 152 22 04E

33 47 23S 151 51 02E, 33 38 02S 151 51 02E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB-YMMM/R494 RICHMOND****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 33 42 11S 150 36 41E, 33 36 13S 150 22 41E

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 14 17S 150 52 09E

33 31 39S 150 59 47E,

then along the minor arc of a circle of 11.00NM radius centred on

33 36 27S 150 47 56E (RIC/TAC) to 33 41 05S 150 59 53E

33 45 05S 150 54 00E, 33 42 57S 150 38 44E

33 42 11S 150 36 41E

**VERTICAL LIMITS:** 4500 - FL280**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Dept of Defence - RAAF**YMMM/R495A TASMAN SEA****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 56 07S 150 59 57E, 34 43 56S 151 00 00E

34 40 30S 151 03 00E, 34 30 00S 151 08 07E

34 30 00S 151 30 00E, 34 57 02S 151 30 18E

34 57 24S 150 59 58E,

then along the minor arc of a circle of 23.00NM radius centred on

34 57 00S 150 32 00E (NWA/TAC) to 34 56 07S 150 59 57E

**VERTICAL LIMITS:** NOTAM - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R495B TASMAN SEA**  
**CONDITIONAL STATUS:** RA2  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 34 30 00S 151 30 00E, 34 30 00S 151 51 35E  
 34 36 30S 151 59 59E, 34 56 32S 151 59 35E  
 34 57 02S 151 30 18E, 34 30 00S 151 30 00E  
**VERTICAL LIMITS:** NOTAM - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R495C TASMAN SEA**  
**CONDITIONAL STATUS:** RA2  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 34 56 32S 151 59 35E, 34 36 30S 151 59 59E  
 34 56 01S 152 25 27E, 34 56 32S 151 59 35E  
**VERTICAL LIMITS:** NOTAM - NOTAM  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YMMM/R520 MARRANGAROO**  
**CONDITIONAL STATUS:** RA3  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** A circle of 1.50NM radius centred on  
 33 25 39S 150 09 23E  
**VERTICAL LIMITS:** SFC - 8500  
**HOURS OF ACTIVITY:** W 0730 - 1600 (local) EXPH  
**CONTROLLING AUTHORITY:** Army RCO Holsworthy

**YMMM/R521 LUCAS HEIGHTS**  
**CONDITIONAL STATUS:** RA3  
**ANSTO RESEARCH REACTOR**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 34 03 10S 150 58 50E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** ANSTO

**YBBB/R524 CULGOORA**  
**CONDITIONAL STATUS:** RA3  
**RADIO TELESCOPE**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 30 18 46S 149 33 57E  
**VERTICAL LIMITS:** SFC - 2500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** CSIRO Narrabri

**YMMM/R525 PARKES**  
**CONDITIONAL STATUS:** RA3  
**RADIO TELESCOPE**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 32 59 55S 148 15 50E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** CSIRO Parkes

**YBBB/R533 DENMAN**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 2.00NM radius centred on  
 32 22 00S 150 38 00E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Thales Duty Officer

**YMMM/R536A ORCHARD HILLS**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 33 49 00S 150 44 00E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** HJ  
**CONTROLLING AUTHORITY:** RAAF OIC EODF Orchard Hills

**YMMM/R536B ORCHARD HILLS**  
**CONDITIONAL STATUS:** RA3  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 33 49 00S 150 44 00E  
**VERTICAL LIMITS:** SFC - 4500  
**HOURS OF ACTIVITY:** JO 2300-0200 0300-0600 (1 HR  
 EARLIER HDS)  
**CONTROLLING AUTHORITY:** RAAF OIC EODF Orchard Hills

**YBBB/R547 TAMWORTH**  
**CONDITIONAL STATUS:** RA2  
**MILITARY NON-FLYING**  
**LATERAL LIMITS:** A circle of 2.00NM radius centred on  
 31 17 00S 151 01 00E  
**VERTICAL LIMITS:** SFC - 4000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTROLLING AUTHORITY:** Army DO 12/16 HRL

**YMMM/R555A HOLSWORTHY**  
**CONDITIONAL STATUS:** RA3  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 34 02 32S 150 51 46E, 33 58 00S 150 54 43E  
 33 57 53S 150 57 19E, 34 01 05S 150 58 37E  
 34 02 32S 150 51 46E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTROLLING AUTHORITY:** Army RCO Holsworthy

**YMMM/R555B HOLSWORTHY**  
**CONDITIONAL STATUS:** RA2  
**MILITARY FLYING/NON-FLYING**  
**LATERAL LIMITS:** 34 02 32S 150 51 46E, 33 58 00S 150 54 43E  
 33 57 53S 150 57 19E, 34 01 05S 150 58 37E  
 34 02 32S 150 51 46E  
**VERTICAL LIMITS:** 1500 - NOTAM  
**HOURS OF ACTIVITY:** D (1 HR EARLIER HDS) 2100 - 1100

OT by NOTAM  
**CONTROLLING AUTHORITY:** Army RCO Holsworthy

**YMMM/R555C HOLSWORTHY****CONDITIONAL STATUS:** RA3**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 06 00S 150 49 30E, 34 02 32S 150 51 46E

34 01 05S 150 58 37E, 34 03 50S 150 59 42E

34 06 40S 150 56 08E, 34 11 00S 150 53 00E

34 11 00S 150 50 00E, 34 06 00S 150 49 30E

**VERTICAL LIMITS:** SFC - 3000**HOURS OF ACTIVITY:** D (1 HR EARLIER HDS) 2100 - 1100

OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Holsworthy**YMMM/R555D HOLSWORTHY****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 34 06 00S 150 49 30E, 34 02 32S 150 51 46E

34 01 05S 150 58 37E, 34 03 50S 150 59 42E

34 06 40S 150 56 08E, 34 11 00S 150 53 00E

34 11 00S 150 50 00E, 34 06 00S 150 49 30E

NOTES: Refer ERSA Luscombe (Army airfield Holsworthy) special procedures

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Holsworthy**YBBB-YMMM/R559A WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 33 20 48S 150 38 02E, 32 33 11S 149 43 17E

31 38 06S 150 29 05E, 32 03 38S 150 44 11E

33 14 18S 150 52 08E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 20 48S 150 38 02E

**VERTICAL LIMITS:** 7500 - FL260**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R559B WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 32 31 12S 149 41 02E, 31 50 59S 149 30 22E

31 24 47S 150 21 17E, 31 38 06S 150 29 05E

32 33 11S 149 43 17E, 32 31 12S 149 41 02E

**VERTICAL LIMITS:** 10000 - FL260**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB-YMMM/R559C WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 32 24 58S 149 14 00E, 32 04 39S 149 03 20E

31 50 59S 149 30 22E, 32 31 12S 149 41 02E

32 33 11S 149 43 17E, 32 34 15S 149 25 43E

32 24 58S 149 14 00E

**VERTICAL LIMITS:** 10000 - FL210**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R559D WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 31 50 59S 149 30 22E, 31 22 43S 149 22 59E

31 04 48S 150 09 38E, 31 24 47S 150 21 17E

31 50 59S 149 30 22E

**VERTICAL LIMITS:** 10000 - FL260**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R559E WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 32 04 39S 149 03 20E, 31 35 47S 148 48 19E

31 22 43S 149 22 59E, 31 50 59S 149 30 22E

32 04 39S 149 03 20E

**VERTICAL LIMITS:** 10000 - FL210**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB-YMMM/R559F WILLIAMTOWN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 33 20 48S 150 38 02E, 32 33 11S 149 43 17E

31 38 06S 150 29 05E, 32 03 38S 150 44 11E

33 14 18S 150 52 08E,

then along the minor arc of a circle of 45.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 20 48S 150 38 02E

**VERTICAL LIMITS:** FL260 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R564A SINGLETON****CONDITIONAL STATUS:** RA3**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 32 42 05S 151 07 01E, 32 37 29S 151 08 12E

32 38 32S 151 13 37E,

then along SGT RWY 1 to 32 39 42S 151 14 30E

32 40 14S 151 14 52E, 32 45 07S 151 14 47E

32 45 44S 151 14 48E, 32 46 37S 151 11 45E

32 46 29S 151 10 39E, 32 44 18S 151 06 46E

32 42 37S 151 06 54E, 32 42 05S 151 07 01E

**VERTICAL LIMITS:** SFC - 4000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Singleton**YBBB/R564B SINGLETON****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 32 42 05S 151 07 01E, 32 37 29S 151 08 12E

32 38 32S 151 13 37E,

then along SGT RWY 1 to 32 39 42S 151 14 30E

32 40 14S 151 14 52E, 32 45 07S 151 14 47E

32 45 44S 151 14 48E, 32 46 37S 151 11 45E

32 46 29S 151 10 39E, 32 44 18S 151 06 46E  
32 42 37S 151 06 54E, 32 42 05S 151 07 01E

**VERTICAL LIMITS:** 4000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Singleton

**YBBB/R574 WILLIAMTOWN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 31 00 21S 153 16 04E, 30 43 33S 153 24 27E

31 01 44S 155 18 14E, 32 33 37S 154 47 57E

33 51 30S 154 01 56E, 33 51 30S 152 07 57E

33 32 50S 151 58 52E, 33 12 21S 151 56 02E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 44 36S 152 19 24E

32 25 00S 152 33 00E, 32 00 00S 152 45 52E

31 00 21S 153 16 04E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R578A WILLIAMTOWN**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 32 47 22S 151 37 30E, 32 37 18S 151 43 06E

then along the major arc of a circle of 12.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 59 22S 151 45 59E

32 55 24S 151 47 23E,

then along SOUTHBANK/ARM HUNTER RVR 1 to 32 49 14S 151 40 52E

then along NEW ENGLAND HWY 2 to 32 47 22S 151 37 30E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 5000 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R578B WILLIAMTOWN**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 32 37 18S 151 43 06E, 32 22 47S 151 51 04E

then along the major arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 33 11 51S 151 41 33E

32 59 22S 151 45 59E,

then along the major arc of a circle of 12.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 37 18S 151 43 06E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R578C WILLIAMTOWN**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 33 10 38S 151 37 42E, 32 53 41S 151 37 33E

then along the minor arc of a circle of 12.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 59 22S 151 45 59E

33 11 51S 151 41 33E,

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 33 10 38S 151 37 42E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 4500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R578D WILLIAMTOWN**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 32 53 41S 151 37 33E, 32 47 22S 151 37 30E

then along NEW ENGLAND HWY 2 to 32 49 14S 151 40 52E

then along SOUTHBANK/ARM HUNTER RVR 1 to 32 55 24S 151 47 23E

32 59 22S 151 45 59E,

then along the minor arc of a circle of 12.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 53 41S 151 37 33E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 2500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R578E WILLIAMTOWN**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 32 40 49S 151 34 15E, 32 36 02S 151 23 51E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 22 47S 151 51 04E

32 37 18S 151 43 06E, 32 47 22S 151 37 30E

32 44 26S 151 36 20E, 32 43 29S 151 32 57E

32 40 49S 151 34 15E

NOTES: This airspace excludes D589A and D589B. Area may be subject to short notice recall

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**VERTICAL LIMITS:** SFC - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R580 WILLIAMTOWN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 32 25 00S 152 27 00E, 32 00 00S 152 25 00E

32 00 00S 152 45 52E, 32 25 00S 152 33 00E

32 28 33S 152 30 33E, 32 25 00S 152 27 00E

**VERTICAL LIMITS:** 4500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R583A WILLIAMTOWN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 32 23 49S 151 58 27E, 32 09 43S 152 01 43E

31 59 57S 152 22 10E, 32 00 00S 152 25 00E

32 25 00S 152 27 00E, 32 28 33S 152 30 33E

32 44 36S 152 19 24E,

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 23 49S 151 58 27E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT



**YBBB/R583B WILLIAMTOWN****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 32 36 02S 151 23 51E, 32 11 21S 151 01 14E

then along the minor arc of a circle of 55.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 31 59 57S 152 22 10E

32 09 43S 152 01 43E, 32 23 49S 151 58 27E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 36 02S 151 23 51E

**VERTICAL LIMITS:** SFC - 10000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R587A WILLIAMTOWN****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 32 09 43S 152 01 43E, 31 59 57S 152 22 10E

32 00 00S 152 25 00E, 32 00 00S 152 45 52E

32 25 00S 152 33 00E, 32 44 36S 152 19 24E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 33 10 38S 151 37 42E

32 53 41S 151 37 33E, 32 47 22S 151 37 30E

32 37 18S 151 43 06E, 32 22 47S 151 51 04E

then along the minor arc of a circle of 25.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 32 23 49S 151 58 27E

32 09 43S 152 01 43E

**VERTICAL LIMITS:** FL125 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R587B WILLIAMTOWN****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 31 34 43S 152 23 02E, 31 00 13S 152 45 26E

31 00 21S 153 16 04E, 32 00 00S 152 45 52E

32 00 00S 152 25 00E, 31 59 57S 152 22 10E

32 03 53S 152 13 57E, 31 34 43S 152 23 02E

**VERTICAL LIMITS:** FL125 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R596 WILLIAMTOWN****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 32 42 00S 152 04 00E, 32 46 30S 152 04 00E

32 49 00S 151 55 00E, 32 46 00S 151 51 00E

32 39 30S 151 51 00E, 32 39 30S 151 57 45E

32 42 00S 152 04 00E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** SFC - FL120**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 453SQN

WILLIAMTOWN FLT

**YBBB/R603 SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E,

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 11 57 28S 142 09 29E

12 22 27S 142 06 50E,

then along the major arc of a circle of 15.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 12 52 25S 142 03 38E

13 17 24S 142 00 58E

**VERTICAL LIMITS:** SFC - 4000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN

TOWNSVILLE FLT

**YBBB/R604A SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E, 11 57 28S 142 09 29E

then along the minor arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

**VERTICAL LIMITS:** 4000 - FL125**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN

TOWNSVILLE FLT

**YBBB/R604B SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E, 11 57 28S 142 09 29E

then along the minor arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

**VERTICAL LIMITS:** FL125 - FL245**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN

TOWNSVILLE FLT

**YBBB/R605A SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E, 11 57 28S 142 09 29E

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

**VERTICAL LIMITS:** 4000 - FL125**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN

TOWNSVILLE FLT

**YBBB/R605B SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E, 11 57 28S 142 09 29E

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

**VERTICAL LIMITS:** FL125 - FL245**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN

TOWNSVILLE FLT

**YBBB/R605C SCHERGER****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 13 17 24S 142 00 58E, 11 57 28S 142 09 29E

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R607A SCHERGER**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 14 37 18S 141 52 22E,

then along the major arc of a circle of 120.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 10 37 32S 142 17 54E

11 57 28S 142 09 29E,

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

14 37 18S 141 52 22E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R607B SCHERGER**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 14 37 18S 141 52 22E,

then along the major arc of a circle of 120.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 10 37 32S 142 17 54E

11 57 28S 142 09 29E,

then along the major arc of a circle of 40.00NM radius centred on

12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E

14 37 18S 141 52 22E

**VERTICAL LIMITS:** FL245 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R608 LONGREACH**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 5.00NM radius centred on

23 39 31S 144 08 43E

**VERTICAL LIMITS:** SFC - 8200

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** RAAF Duty OPSO 1 RSU

**YBBB/R609 EVANS HEAD**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 29 10 13S 153 27 19E, 29 14 00S 153 24 00E

then along the major arc of a circle of 3.00NM radius centred on

29 11 00S 153 24 00E to 29 10 13S 153 27 19E

**VERTICAL LIMITS:** NOTAM - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT

**YBBB/R620A AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 42 08S 152 32 14E, 27 25 55S 152 25 08E

then along the minor arc of a circle of 20.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 18 23S 152 43 04E

27 29 24S 152 47 34E,

then along the minor arc of a circle of 10.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 42 08S 152 32 14E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 1500 - 7500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R620B AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 25 55S 152 25 08E, 27 42 08S 152 32 14E

then along the minor arc of a circle of 10.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 44 13S 152 51 55E

27 53 24S 152 45 11E, 27 58 25S 152 40 49E

then along the minor arc of a circle of 20.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 25 55S 152 25 08E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 2500 - FL210

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R620C AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 42 08S 152 32 14E, 27 25 55S 152 25 08E

then along the minor arc of a circle of 20.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 18 23S 152 43 04E

27 42 34S 152 52 59E, 27 44 13S 152 51 55E

then along the minor arc of a circle of 10.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 42 08S 152 32 14E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 7500 - FL210

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R620D AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 07 49S 152 23 29E, 27 13 25S 152 41 03E

27 18 23S 152 43 04E,

then along the minor arc of a circle of 20.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 58 25S 152 40 49E

28 11 29S 152 29 24E,

then along the minor arc of a circle of 35.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 07 49S 152 23 29E

NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 4500 - FL210

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R620E AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 04 27S 152 12 59E, 27 07 49S 152 23 29E

then along the minor arc of a circle of 35.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 28 11 29S 152 29 24E

28 18 05S 152 23 37E,  
then along the minor arc of a circle of 43.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 04 27S 152 12 59E  
NOTES: Area may be subject to short notice recall.

**VERTICAL LIMITS:** 6500 - FL210

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R631A AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 27 05 05S 150 55 04E, 27 10 23S 151 23 24E

27 29 54S 151 52 25E, 27 30 24S 151 55 10E  
then along the minor arc of a circle of 43.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 28 01 11S 152 01 30E  
28 32 33S 151 18 37E,

then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 05 05S 150 55 04E

**VERTICAL LIMITS:** 10000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R631B AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 28 10 00S 149 48 00E, 26 51 16S 149 43 44E

27 05 05S 150 55 04E,  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 51 28S 150 57 24E  
28 10 00S 149 48 00E

**VERTICAL LIMITS:** 10000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R631C AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 29 22 09S 150 09 17E, 28 10 00S 149 48 00E

27 51 28S 150 57 24E,  
then along the minor arc of a circle of 120.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 28 32 33S 151 18 37E  
29 22 09S 150 09 17E

**VERTICAL LIMITS:** 10000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R633A GREENBANK**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 27 40 03S 152 55 50E, 27 37 45S 152 56 20E

then along POWER LINES 1 to 27 38 31S 152 58 30E  
27 40 31S 153 00 29E, 27 41 05S 153 00 29E  
then along RAILWAY 7 to 27 43 26S 152 58 58E  
27 41 00S 152 57 30E, 27 40 03S 152 55 50E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** D 2000 - 1300 EXPH

OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Greenbank

**YBBB/R633B GREENBANK**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 27 40 03S 152 55 50E, 27 37 45S 152 56 20E

then along POWER LINES 1 to 27 38 31S 152 58 30E

27 40 31S 153 00 29E, 27 41 05S 153 00 29E

then along RAILWAY 7 to 27 43 26S 152 58 58E

27 41 00S 152 57 30E, 27 40 03S 152 55 50E

**VERTICAL LIMITS:** 2000 - 3500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Greenbank

**YBBB/R634A CANUNGRA**

**CONDITIONAL STATUS:** RA3

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 28 00 00S 153 10 00E, 28 05 00S 153 10 00E

28 05 00S 153 15 00E, 27 58 00S 153 15 00E

27 58 00S 153 11 09E,

then along CANUNGRA-MT TAMBORINE RD to 28 00 00S 153 10 52E

28 00 00S 153 10 00E

**VERTICAL LIMITS:** SFC - 3800

**HOURS OF ACTIVITY:** W 2000 - 1300

E 2230 - 1100 EXPH

OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Canungra

**YBBB/R634B CANUNGRA**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 28 05 00S 153 10 00E, 28 00 00S 153 10 00E

28 00 00S 153 15 00E, 28 05 00S 153 15 00E

28 05 00S 153 10 00E

**VERTICAL LIMITS:** 3800 - 8500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Canungra

**YBBB/R637A AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 25 27 41S 153 15 56E, 24 50 56S 153 38 38E

25 31 53S 154 17 17E, 26 15 42S 153 29 56E

26 10 07S 153 25 43E, 25 44 29S 153 16 51E

25 27 41S 153 15 56E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R637B AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 24 50 56S 153 38 38E, 23 59 01S 154 10 14E

24 49 42S 155 02 03E, 25 31 53S 154 17 17E

24 50 56S 153 38 38E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R637C AMBERLEY****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 25 31 53S 154 17 17E, 24 49 42S 155 02 03E

25 39 32S 155 54 00E, 26 12 15S 154 55 58E

25 31 53S 154 17 17E

**VERTICAL LIMITS:** 5000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT**YBBB/R637D AMBERLEY****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 26 15 42S 153 29 56E, 25 31 53S 154 17 17E

26 12 15S 154 55 58E, 26 46 43S 153 53 29E

26 15 42S 153 29 56E

**VERTICAL LIMITS:** 5000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT**YBBB/R638A EVANS HEAD****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 29 01 20S 153 17 00E, 28 57 00S 153 27 30E

28 56 21S 153 31 28E,

then along THE COAST 45 to 29 06 55S 153 26 11E

then along NTH BANK OF EVANS AND RIC RVRS to 29 01 20S 153  
17 00ENOTES: NOTAM may be requested to change activation HRS with 2  
HRS notification**VERTICAL LIMITS:** 1000 - 8000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT**YBBB/R638B EVANS HEAD****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 29 15 00S 153 03 30E, 29 06 00S 153 05 40E

29 01 20S 153 17 00E,

then along NTH BANK OF EVANS AND RIC RVRS to 29 06 55S 153  
26 11E

then along THE COAST 47 to 29 07 41S 153 26 53E

then along THE COAST 46 to 29 26 28S 153 22 12E

29 15 00S 153 03 30E

NOTES: NOTAM may be requested to change activation HRS with 2  
HRS notification**VERTICAL LIMITS:** SFC - 8000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT**YBBB/R638C EVANS HEAD****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 29 15 00S 153 03 30E, 29 06 00S 153 05 40E

28 57 00S 153 27 30E, 28 56 21S 153 31 28E

then along THE COAST 45 to 29 06 55S 153 26 11E

then along THE COAST 47 to 29 07 41S 153 26 53E

then along THE COAST 3000 to 29 18 29S 153 20 28E

then along THE COAST 3001 to 29 26 28S 153 22 12E

29 15 00S 153 03 30E

NOTES: NOTAM may be requested to change activation HRS with 2  
HRS notification**VERTICAL LIMITS:** 8000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT**YBBB/R638D EVANS HEAD****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 28 56 21S 153 31 28E, 28 52 13S 153 49 39E

then along the minor arc of a circle of 30.00NM radius centred on

29 11 51S 153 23 44E to 29 41 39S 153 19 07E

then along THE COAST 52 to 29 34 41S 153 20 05E

then along THE COAST 50 to 29 31 46S 153 21 32E

then along THE COAST 48 to 29 26 28S 153 22 12E

then along THE COAST 3001 to 29 18 29S 153 20 28E

then along THE COAST 3000 to 29 07 41S 153 26 53E

then along THE COAST 47 to 29 06 55S 153 26 11E

then along THE COAST 45 to 28 56 21S 153 31 28E

NOTES: NOTAM may be requested to change activation HRS with 2  
HRS notification**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT**YBBB/R643A OAKEY****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 27 25 23S 151 56 37E, 27 39 02S 151 43 52E

then along the minor arc of a circle of 15.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 18 30S 151 28 34E

then along WARREGO HWY to 27 14 36S 151 20 41E

then along the minor arc of a circle of 23.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 10 53S 152 05 32E

then along the minor arc of a circle of 43.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 25 23S 151 56 37E

**VERTICAL LIMITS:** SFC - 6500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN OAKEY FLT**YBBB/R643B OAKEY****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 27 40 30S 151 42 30E, 27 44 15S 151 31 57E

then along the minor arc of a circle of 23.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 14 36S 151 20 41E

then along WARREGO HWY to 27 18 30S 151 28 34E

then along the minor arc of a circle of 15.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 39 02S 151 43 52E

27 40 30S 151 42 30E

**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN OAKEY FLT**YBBB/R643C OAKEY****CONDITIONAL STATUS:** RA1**MILITARY FLYING****LATERAL LIMITS:** 27 40 30S 151 42 30E, 27 44 15S 151 31 57E

then along the minor arc of a circle of 23.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 14 36S 151 20 41E  
then along WARREGO HWY to 27 18 30S 151 28 34E  
then along the minor arc of a circle of 15.00NM radius centred on  
27 23 59S 151 44 17E (OK/DME) to 27 39 02S 151 43 52E  
27 40 30S 151 42 30E

**VERTICAL LIMITS:** 2000 - 6500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN OAKEY FLT

**YBBB/R644 AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 26 46 43S 153 53 29E, 26 12 15S 154 55 58E

25 39 32S 155 54 00E, 26 15 50S 156 30 28E

26 33 23S 155 46 55E, 27 13 12S 154 44 29E

27 23 00S 154 28 52E, 26 46 43S 153 53 29E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R647A WALLANGARRA**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 1.60NM radius centred on  
28 55 58S 151 57 34E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** Thales Duty Officer

**YBBB/R647B WALLANGARRA**

**CONDITIONAL STATUS:** RA3

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 1.60NM radius centred on  
28 55 58S 151 57 34E

**VERTICAL LIMITS:** 4500 - 8000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Thales Duty Officer

**YBBB/R649 AMBERLEY**

**CONDITIONAL STATUS:** RA1

**MILITARY NON-FLYING**

**LATERAL LIMITS:** A circle of 0.25NM radius centred on  
27 37 56S 152 41 44E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R650A AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 27 23 00S 154 28 52E, 27 13 12S 154 44 29E

27 46 28S 154 44 29E, 27 23 00S 154 28 52E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R650B AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 27 13 12S 154 44 29E, 26 33 23S 155 46 55E

26 15 50S 156 30 28E, 27 16 34S 157 31 03E

28 50 10S 156 37 53E, 27 46 28S 154 44 29E

27 13 12S 154 44 29E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R655 OAKEY**

**CONDITIONAL STATUS:** RA1

**MILITARY FLYING**

**LATERAL LIMITS:** 27 40 30S 151 42 30E, 27 44 15S 151 31 57E

then along the major arc of a circle of 23.00NM radius centred on

27 23 59S 151 44 17E (OK/DME) to 27 10 53S 152 05 32E

then along the minor arc of a circle of 43.00NM radius centred on

27 38 26S 152 42 43E (YAMB/AD) to 27 30 24S 151 55 10E

27 29 54S 151 52 25E, 27 40 30S 151 42 30E

**VERTICAL LIMITS:** 6500 - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN OAKEY FLT

**YBBB/R662A AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 28 52 13S 153 49 39E, 28 32 15S 153 56 36E

28 33 12S 154 07 49E, 28 33 47S 154 09 20E

29 13 21S 155 07 10E, 30 28 10S 154 25 53E

30 18 53S 153 29 32E, 29 39 23S 153 37 34E

then along the minor arc of a circle of 30.00NM radius centred on

29 11 51S 153 23 44E to 28 52 13S 153 49 39E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R662B AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 28 10S 154 25 53E, 29 13 21S 155 07 10E

29 48 16S 155 59 22E, 30 38 25S 155 31 25E

30 28 10S 154 25 53E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R671A AMBERLEY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 30 43 33S 153 24 27E, 30 18 53S 153 29 32E

30 28 10S 154 25 53E, 30 38 25S 155 31 25E

31 01 44S 155 18 14E, 30 43 33S 153 24 27E

**VERTICAL LIMITS:** FL125 - FL245

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT

**YBBB/R671B AMBERLEY****CONDITIONAL STATUS: RA2****MILITARY FLYING**

**LATERAL LIMITS:** 30 43 33S 153 24 27E, 30 18 53S 153 29 32E  
 30 28 10S 154 25 53E, 30 38 25S 155 31 25E  
 31 01 44S 155 18 14E, 30 43 33S 153 24 27E

**VERTICAL LIMITS:** FL245 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN AMBERLEY  
FLT**YBBB/R680 AKENS ISLAND****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 17 00S 150 12 00E, 22 15 00S 150 20 00E  
 22 12 34S 150 25 27E, 22 15 06S 150 23 42E  
 22 17 54S 150 23 12E, 22 23 42S 150 26 12E  
 22 30 30S 150 27 00E,  
 then along COAST 31 to 22 30 32S 150 25 13E  
 then along COAST 30 to 22 25 00S 150 18 06E  
 then along COAST 29 to 22 19 00S 150 10 46E  
 22 17 00S 150 12 00E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R681A WIDE BAY****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 25 48 39S 152 55 13E, 25 49 26S 152 51 46E  
 then along MARYBOROUGH COOLOOLA ROAD to 25 55 39S 152 51  
 33E

25 55 39S 152 55 12E, 25 48 39S 152 55 13E

**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Wide Bay**YBBB/R681B WIDE BAY****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 25 48 39S 152 55 13E, 25 55 39S 152 55 12E  
 25 54 58S 152 58 51E, 25 52 57S 152 59 20E  
 25 52 32S 153 00 01E,

then along N SIDE OF TEEBAR CK to 25 50 43S 153 01 23E

then along TIN CAN BAY INLET to 25 49 40S 153 01 12E

then along WIDE BAY COAST to 25 47 51S 152 58 59E

then along S SIDE RED BANK CK to 25 48 40S 152 58 03E

25 48 23S 152 56 21E, 25 48 39S 152 55 13E

**VERTICAL LIMITS:** SFC - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Wide Bay**YBBB/R682 TOWNSHEND ISLAND****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 17 54S 150 23 12E, 22 15 06S 150 23 42E  
 22 06 00S 150 30 00E, 22 06 00S 150 45 00E  
 22 19 00S 150 49 00E, 22 19 00S 150 33 00E  
 22 25 56S 150 26 28E, 22 23 42S 150 26 12E  
 22 17 54S 150 23 12E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R683 CAPE CLINTON****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 30 30S 150 27 00E, 22 25 56S 150 26 28E  
 22 19 00S 150 33 00E, 22 19 00S 150 49 00E  
 22 41 19S 150 50 31E, 22 30 30S 150 27 00E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R684A MOUNT HUMMOCK****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 55 00S 150 27 00E, 22 30 30S 150 27 00E  
 22 41 19S 150 50 31E, 22 49 22S 150 47 07E  
 22 47 57S 150 37 21E, 22 54 00S 150 36 00E  
 22 55 00S 150 27 00E

**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R684B MOUNT HUMMOCK****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 55 00S 150 27 00E, 22 30 30S 150 27 00E  
 22 41 19S 150 50 31E, 22 49 22S 150 47 07E  
 22 47 57S 150 37 21E, 22 54 00S 150 36 00E  
 22 55 00S 150 27 00E

**VERTICAL LIMITS:** 2000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R686 TRIANGULAR ISLAND****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on  
 22 23 00S 150 30 30E

**VERTICAL LIMITS:** SFC - 10000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R687A RASPBERRY CREEK****CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 22 52 05S 150 16 31E, 22 27 04S 150 05 46E  
 22 19 00S 150 10 46E,  
 then along COAST 29 to 22 25 00S 150 18 06E  
 then along COAST 30 to 22 30 32S 150 25 13E  
 then along COAST 31 to 22 30 30S 150 27 00E  
 22 55 00S 150 27 00E, 22 52 05S 150 16 31E

**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay

**YBBB/R687B RASPBERRY CREEK**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 22 52 05S 150 16 31E, 22 27 04S 150 05 46E  
22 19 00S 150 10 46E,

then along COAST 29 to 22 25 00S 150 18 06E

then along COAST 30 to 22 30 32S 150 25 13E

then along COAST 31 to 22 30 30S 150 27 00E

22 55 00S 150 27 00E, 22 52 05S 150 16 31E

**VERTICAL LIMITS:** 2000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R689 SHOALWATER BAY**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 22 27 04S 150 05 46E, 22 15 09S 150 00 40E

then along the major arc of a circle of 30.00NM radius centred on

22 16 00S 150 33 00E to 22 41 19S 150 50 31E

22 19 00S 150 49 00E, 22 06 00S 150 45 00E

22 06 00S 150 30 00E, 22 12 34S 150 25 27E

22 15 00S 150 20 00E, 22 17 00S 150 12 00E

22 27 04S 150 05 46E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R693 ELLIOTT****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 24 24 00S 152 08 00E, 24 11 00S 152 31 00E

24 28 00S 152 58 00E, 24 41 00S 152 34 00E

24 24 00S 152 08 00E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point**YBBB/R695A HERBERT CREEK**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 22 38 00S 150 05 30E, 22 27 30S 150 05 30E

22 27 04S 150 05 46E, 22 52 05S 150 16 31E

22 51 30S 150 13 30E, 22 44 30S 150 08 30E

22 38 00S 150 05 30E

**VERTICAL LIMITS:** SFC - 2000**HOURS OF ACTIVITY:** H24**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R695B HERBERT CREEK**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 22 38 00S 150 05 30E, 22 27 30S 150 05 30E

22 27 04S 150 05 46E, 22 52 05S 150 16 31E

22 51 30S 150 13 30E, 22 44 30S 150 08 30E

22 38 00S 150 05 30E

**VERTICAL LIMITS:** 2000 - 6000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R695C HERBERT CREEK**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 22 38 00S 150 05 30E, 22 27 30S 150 05 30E

22 27 04S 150 05 46E, 22 52 05S 150 16 31E

22 51 30S 150 13 30E, 22 44 30S 150 08 30E

22 38 00S 150 05 30E

**VERTICAL LIMITS:** 6000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army RCO Shoalwater Bay**YBBB/R709 ROCKHAMPTON**  
**CONDITIONAL STATUS: RA3****BLASTING****LATERAL LIMITS:** A circle of 0.50NM radius centred on

23 23 00S 150 36 00E

**VERTICAL LIMITS:** SFC - 1500**HOURS OF ACTIVITY:** HJ**CONTROLLING AUTHORITY:** Holcim**YBBB/R725 SAUMAREZ REEF**  
**CONDITIONAL STATUS: RA3****MILITARY FLYING****LATERAL LIMITS:** A circle of 5.00NM radius centred on

21 51 18S 153 38 47E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** RAAF FLTCDR 452SQN  
AMBERLEY FLT**YBBB/R736A TOWNSVILLE (STAR)**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 19 19 00S 146 01 45E, 19 06 01S 146 10 11E

19 16 17S 146 20 43E,

then along KEELBOTTOM CK 1/2 to 19 20 18S 146 21 27E

19 23 39S 146 07 04E,

then along .5NM N GREENVALE RWY LINE 1/1 to 19 22 11S 146 04  
20E

19 19 00S 146 01 45E

**VERTICAL LIMITS:** SFC - 5000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT**YBBB/R736B TOWNSVILLE (STAR)**  
**CONDITIONAL STATUS: RA2****MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 19 19 00S 146 01 45E, 19 06 01S 146 10 11E

19 16 17S 146 20 43E,

then along KEELBOTTOM CK 1/2 to 19 20 18S 146 21 27E

19 23 39S 146 07 04E,

then along .5NM N GREENVALE RWY LINE 1/1 to 19 22 11S 146 04  
20E

19 19 00S 146 01 45E

**VERTICAL LIMITS:** 5000 - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R737A TOWNSVILLE (LAND)**  
**CONDITIONAL STATUS: RA2**

**MILITARY FLYING**

**LATERAL LIMITS:** 19 21 52S 145 31 52E, 19 19 00S 146 01 45E  
 19 22 11S 146 04 20E,  
 then along .5NM N GREENVALE RWY LINE 1/1 to 19 23 39S 146 07  
 04E  
 then along .5NM N GREENVALE RWY LINE 1/2 to 19 26 26S 146 20  
 03E  
 then along KEELBOTTOM CREEK to 19 22 30S 146 21 20E  
 19 24 45S 146 25 00E,  
 then along HERVEY RANGE DEVELOPEMENT RD to 19 29 41S 146  
 19 58E  
 then along THE HERVEY RANGE DEVELOPEMENT RD to 19 30 02S  
 146 11 40E  
 19 30 00S 146 11 00E, 19 35 00S 146 04 30E  
 19 45 00S 146 12 36E, 19 45 00S 146 24 00E  
 19 36 35S 146 24 00E, 19 39 00S 146 38 00E  
 19 52 00S 146 37 00E, 20 01 14S 145 49 57E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 19 21 52S 145 31 52E

**VERTICAL LIMITS:** 7000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R737B TOWNSVILLE (LAND)**  
**CONDITIONAL STATUS: RA2**

**MILITARY FLYING**

**LATERAL LIMITS:** 19 26 42S 144 39 13E, 19 21 52S 145 31 52E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 20 01 14S 145 49 57E  
 20 11 58S 144 53 36E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 19 26 42S 144 39 13E

**VERTICAL LIMITS:** 7000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R737C TOWNSVILLE (LAND)**  
**CONDITIONAL STATUS: RA2**

**MILITARY FLYING**

**LATERAL LIMITS:** 18 38 32S 145 42 08E, 19 06 01S 146 10 11E  
 19 19 00S 146 01 45E, 19 21 52S 145 31 52E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 18 38 32S 145 42 08E

**VERTICAL LIMITS:** 7000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R737D TOWNSVILLE (LAND)**  
**CONDITIONAL STATUS: RA2**

**MILITARY FLYING**

**LATERAL LIMITS:** 18 14 16S 144 56 05E, 18 18 00S 145 12 30E  
 18 31 34S 145 35 03E, 18 38 32S 145 42 08E  
 then along the minor arc of a circle of 70.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 19 21 52S 145 31 52E  
 19 26 42S 144 39 13E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 18 14 16S 144 56 05E

**VERTICAL LIMITS:** 7000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R739A TOWNSVILLE (STAR)**

**CONDITIONAL STATUS: RA2**

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 23 39S 146 07 04E, 19 20 18S 146 21 27E  
 then along LINE1 to 19 22 30S 146 21 20E  
 then along KEELBOTTOM CREEK to 19 26 26S 146 20 03E  
 then along .5NM N GREENVALE RWY LINE 1/2 to 19 23 39S 146 07  
 04E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R739B TOWNSVILLE (STAR)**

**CONDITIONAL STATUS: RA2**

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 23 39S 146 07 04E, 19 20 18S 146 21 27E  
 then along LINE1 to 19 22 30S 146 21 20E  
 then along KEELBOTTOM CREEK to 19 26 26S 146 20 03E  
 then along .5NM N GREENVALE RWY LINE 1/2 to 19 23 39S 146 07  
 04E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R740A TOWNSVILLE (HIGH RANGE)**

**CONDITIONAL STATUS: RA2**

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 24 45S 146 25 00E, 19 22 42S 146 29 20E  
 19 25 52S 146 34 43E, 19 35 00S 146 38 00E  
 19 39 00S 146 38 00E, 19 36 35S 146 24 00E  
 19 34 33S 146 20 45E,  
 then along KEELBOTTOM CK to 19 29 41S 146 19 58E  
 then along HERVEY RANGE DEVELOPEMENT RD to 19 24 45S 146  
 25 00E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R740B TOWNSVILLE (HIGH RANGE)**

**CONDITIONAL STATUS: RA2**

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 24 45S 146 25 00E, 19 22 42S 146 29 20E  
 19 25 52S 146 34 43E, 19 35 00S 146 38 00E  
 19 39 00S 146 38 00E, 19 36 35S 146 24 00E  
 19 34 33S 146 20 45E,  
 then along KEELBOTTOM CK to 19 29 41S 146 19 58E  
 then along HERVEY RANGE DEVELOPEMENT RD to 19 24 45S 146  
 25 00E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
 TOWNSVILLE FLT

**YBBB/R741A TOWNSVILLE (DOTSWOOD)**

**CONDITIONAL STATUS: RA2**



**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 35 00S 146 04 30E, 19 30 00S 146 11 00E  
19 30 02S 146 11 40E,  
then along THE HERVEY RANGE DEVELOPEMENT RD to 19 29 41S  
146 19 58E

then along KEELBOTTOM CK to 19 34 33S 146 20 45E  
19 36 35S 146 24 00E, 19 45 00S 146 24 00E  
19 45 00S 146 12 36E, 19 35 00S 146 04 30E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R741B TOWNSVILLE (DOTSWOOD)**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 35 00S 146 04 30E, 19 30 00S 146 11 00E  
19 30 02S 146 11 40E,  
then along THE HERVEY RANGE DEVELOPEMENT RD to 19 29 41S  
146 19 58E

then along KEELBOTTOM CK to 19 34 33S 146 20 45E  
19 36 35S 146 24 00E, 19 45 00S 146 24 00E  
19 45 00S 146 12 36E, 19 35 00S 146 04 30E

**VERTICAL LIMITS:** 5000 - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R747 RATTLESNAKE ISLAND**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** A circle of 4.80NM radius centred on  
19 02 10S 146 36 38E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R748 HALIFAX BAY**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 18 48 22S 146 51 25E, 19 04 56S 146 47 41E  
19 08 23S 146 43 46E, 19 09 00S 146 38 30E  
19 01 30S 146 28 00E, 18 55 33S 146 23 35E  
18 49 00S 146 26 00E, 18 46 00S 146 31 00E  
18 49 12S 146 34 38E,

then along the minor arc of a circle of 29.00NM radius centred on  
19 16 44S 146 44 33E (TVL/TAC) to 18 48 22S 146 51 25E

**VERTICAL LIMITS:** SFC - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN  
TOWNSVILLE FLT

**YBBB/R766 MICHAELMAS CAY**

**CONDITIONAL STATUS:** RA3

**ENVIRONMENTAL RESTRICTED AREA**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
16 36 23S 145 58 22E

**VERTICAL LIMITS:** SFC - 3000

**HOURS OF ACTIVITY:** H24

**CONTROLLING AUTHORITY:** GBRMPA

**YBBB/R767 CAIRNS**

**CONDITIONAL STATUS:** RA2

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 17 19 00S 146 08 18E, 17 08 00S 146 07 00E  
17 07 00S 146 23 00E, 17 22 00S 146 25 00E  
17 23 30S 146 13 00E, 17 19 00S 146 08 18E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YBBB/R768A MT STUART**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 21 27S 146 44 12E, 19 21 21S 146 44 20E  
19 20 59S 146 44 49E, 19 21 15S 146 45 22E  
19 21 23S 146 46 28E, 19 21 24S 146 48 23E  
19 23 02S 146 48 23E, 19 26 15S 146 48 01E  
19 26 20S 146 47 23E, 19 25 08S 146 44 43E  
19 24 59S 146 44 33E, 19 21 42S 146 44 16E  
19 21 27S 146 44 12E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** D 2100 - 1200 EXPH

OT by NOTAM

**CONTROLLING AUTHORITY:** Army RCO Mt Stuart

**YBBB/R768B MT STUART**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING/NON-FLYING**

**LATERAL LIMITS:** 19 21 27S 146 44 12E, 19 21 21S 146 44 20E  
19 20 59S 146 44 49E, 19 21 15S 146 45 22E  
19 21 23S 146 46 28E, 19 21 24S 146 48 23E  
19 23 02S 146 48 23E, 19 26 15S 146 48 01E  
19 26 20S 146 47 23E, 19 25 08S 146 44 43E  
19 24 59S 146 44 33E, 19 21 42S 146 44 16E  
19 21 27S 146 44 12E

**VERTICAL LIMITS:** 2000 - 3000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Army RCO Mt Stuart

**YBBB/R778 CAIRNS (OUTER REEF)**

**CONDITIONAL STATUS:** RA2

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 16 41 30S 146 15 00E, 16 30 00S 146 15 00E  
16 30 00S 146 33 00E, 16 41 30S 146 33 00E  
16 41 30S 146 15 00E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YBBB/R783 LIZARD ISLAND**

**CONDITIONAL STATUS:** RA2

**MILITARY NON-FLYING**

**LATERAL LIMITS:** 14 33 00S 145 14 00E, 14 28 00S 145 22 00E  
14 34 00S 145 26 00E, 14 40 00S 145 18 00E  
14 33 00S 145 14 00E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Navy Fleet HQ Potts Point

**YBBB/R785A TULLY****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 17 45 00S 145 44 30E, 17 37 00S 145 44 30E,  
17 37 00S 145 51 00E, 17 45 00S 145 51 00E  
17 45 00S 145 44 30E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army OC Jungle Training**YBBB/R785B TULLY****CONDITIONAL STATUS:** RA2**MILITARY FLYING/NON-FLYING****LATERAL LIMITS:** 17 54 30S 145 44 30E, 17 45 00S 145 44 30E  
17 45 00S 145 51 00E, 17 54 30S 145 51 00E  
17 54 30S 145 44 30E**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** Army OC Jungle Training**YBBB/R801 CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** A circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/DME)**VERTICAL LIMITS:** SFC - 3500**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R802A CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** A circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/DME)**VERTICAL LIMITS:** 3500 - FL200**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R802B CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** A circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/DME)**VERTICAL LIMITS:** FL200 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R803A CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 17 10 15S 123 52 15E, 16 20 06S 123 54 41E  
then along the minor arc of a circle of 75.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E  
17 48 57S 124 13 06E,then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 10 15S 123 52 15E**VERTICAL LIMITS:** 5500 - FL200**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R803B CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 17 10 15S 123 52 15E, 16 20 06S 123 54 41E  
then along the minor arc of a circle of 75.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E  
17 48 57S 124 13 06E,then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 10 15S 123 52 15E**VERTICAL LIMITS:** FL200 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R804A CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 18 44 45S 123 20 36E, 17 58 28S 123 40 58E  
then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 48 57S 124 13 06E  
18 15 53S 124 57 23E,then along the minor arc of a circle of 75.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E**VERTICAL LIMITS:** 5500 - FL200**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R804B CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 18 44 45S 123 20 36E, 17 58 28S 123 40 58E  
then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 48 57S 124 13 06E  
18 15 53S 124 57 23E,then along the minor arc of a circle of 75.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E**VERTICAL LIMITS:** FL200 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R805A CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 17 31 38S 122 32 42E, 17 34 12S 123 24 58E  
then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 58 28S 123 40 58E  
18 44 45S 123 20 36E,then along the minor arc of a circle of 75.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E**VERTICAL LIMITS:** 5500 - FL200**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R805B CURTIN****CONDITIONAL STATUS:** RA2**MILITARY FLYING****LATERAL LIMITS:** 17 31 38S 122 32 42E, 17 34 12S 123 24 58E  
then along the minor arc of a circle of 25.00NM radius centred on  
17 35 20S 123 51 07E (CIN/VOR) to 17 58 28S 123 40 58E  
18 44 45S 123 20 36E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E

**VERTICAL LIMITS:** FL200 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R806A CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 16 20 06S 123 54 41E, 17 10 15S 123 52 15E

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 34 12S 123 24 58E

17 31 38S 122 32 42E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

**VERTICAL LIMITS:** 5500 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R806B CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 16 20 06S 123 54 41E, 17 10 15S 123 52 15E

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 34 12S 123 24 58E

17 31 38S 122 32 42E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

**VERTICAL LIMITS:** FL200 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R807A CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 16 20 06S 123 54 41E, 15 04 52S 123 58 17E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 55 58S 126 04 13E

18 15 53S 124 57 23E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

**VERTICAL LIMITS:** FL125 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R807B CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 16 20 06S 123 54 41E, 15 04 52S 123 58 17E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 55 58S 126 04 13E

18 15 53S 124 57 23E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

**VERTICAL LIMITS:** FL200 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R808A CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 18 15 53S 124 57 23E, 18 55 58S 126 04 13E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 19 54 05S 122 49 43E

18 44 45S 123 20 36E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E

**VERTICAL LIMITS:** FL125 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R808B CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 18 15 53S 124 57 23E, 18 55 58S 126 04 13E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 19 54 05S 122 49 43E

18 44 45S 123 20 36E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E

**VERTICAL LIMITS:** FL200 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R809A CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 18 44 45S 123 20 36E, 19 54 05S 122 49 43E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 27 20S 121 14 21E

17 31 38S 122 32 42E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E

**VERTICAL LIMITS:** FL125 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R809B CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 18 44 45S 123 20 36E, 19 54 05S 122 49 43E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 27 20S 121 14 21E

17 31 38S 122 32 42E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E

**VERTICAL LIMITS:** FL200 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R810A CURTIN**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 17 31 38S 122 32 42E, 17 27 20S 121 14 21E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 15 04 52S 123 58 17E

16 20 06S 123 54 41E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E

**VERTICAL LIMITS:** FL125 - FL200

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YBBB/R810B CURTIN****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 17 31 38S 122 32 42E, 17 27 20S 121 14 21E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 15 04 52S 123 58 17E

16 20 06S 123 54 41E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E

**VERTICAL LIMITS:** FL200 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YBBB/R811 CURTIN****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 16 04 26S 120 56 17E, 14 04 27S 122 56 24E

15 04 57S 123 58 17E, 17 04 28S 121 56 18E

16 04 26S 120 56 17E

**VERTICAL LIMITS:** NOTAM - NOTAM**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R850A LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 22 27 47S 114 46 13E, 22 54 26S 116 07 49E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 24 07 12S 113 21 00E

22 51 49S 113 50 54E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 27 47S 114 46 13E

**VERTICAL LIMITS:** NOTAM - FL280**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R850B LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 22 27 47S 114 46 13E, 22 54 26S 116 07 49E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 24 07 12S 113 21 00E

22 51 49S 113 50 54E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 27 47S 114 46 13E

**VERTICAL LIMITS:** FL280 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R851A LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 21 57 04S 114 44 39E, 21 22 24S 116 02 08E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 54 26S 116 07 49E

22 27 47S 114 46 13E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 57 04S 114 44 39E

**VERTICAL LIMITS:** NOTAM - 10000**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R851B LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 21 57 04S 114 44 39E, 21 22 24S 116 02 08E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 54 26S 116 07 49E

22 27 47S 114 46 13E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 57 04S 114 44 39E

**VERTICAL LIMITS:** 10000 - FL280**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R851C LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 21 57 04S 114 44 39E, 21 22 24S 116 02 08E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 54 26S 116 07 49E

22 27 47S 114 46 13E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 57 04S 114 44 39E

**VERTICAL LIMITS:** FL280 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R852A LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 21 37 40S 114 23 44E, 20 24 43S 114 59 27E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 22 24S 116 02 08E

21 57 04S 114 44 39E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 37 40S 114 23 44E

**VERTICAL LIMITS:** 10000 - FL280**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R852B LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 21 37 40S 114 23 44E, 20 24 43S 114 59 27E

then along the minor arc of a circle of 120.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 22 24S 116 02 08E

21 57 04S 114 44 39E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 37 40S 114 23 44E

**VERTICAL LIMITS:** FL280 - FL600**HOURS OF ACTIVITY:** NOTAM**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT**YMMM/R853A LEARMONTH****CONDITIONAL STATUS: RA2****MILITARY FLYING****LATERAL LIMITS:** 20 49 14S 113 32 34E, 19 52 35S 113 10 54E

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 19 57 19S 115 12 42E

20 52 05S 114 46 07E,

then along the minor arc of a circle of 90.00NM radius centred on  
22 14 05S 114 05 39E (LM/DME) to 20 49 14S 113 32 34E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R853B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 20 49 14S 113 32 34E, 19 52 35S 113 10 54E

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 19 57 19S 115 12 42E

20 52 05S 114 46 07E,

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 20 49 14S 113 32 34E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R854A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 21 36 25S 113 50 49E, 20 49 14S 113 32 34E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 20 52 05S 114 46 07E

21 37 40S 114 23 44E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 36 25S 113 50 49E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R854B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 21 36 25S 113 50 49E, 20 49 14S 113 32 34E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 20 52 05S 114 46 07E

21 37 40S 114 23 44E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 36 25S 113 50 49E

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R859A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** NOTAM - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R859B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** 10000 - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R859C LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R860A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 25.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** NOTAM - 2500

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R860B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 25.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** 2500 - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R860C LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** A circle of 25.00NM radius centred on

22 14 05S 114 05 39E (LM/DME)

**VERTICAL LIMITS:** FL280 - FL600

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R861A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 21 08S 113 23 11E, 22 29 33S 112 29 59E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 20 49 14S 113 32 34E

21 36 25S 113 50 49E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 21 08S 113 23 11E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R861B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 21 08S 113 23 11E, 22 29 33S 112 29 59E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 20 49 14S 113 32 34E

21 36 25S 113 50 49E,  
then along the minor arc of a circle of 40.00NM radius centred on  
22 14 05S 114 05 39E (LM/DME) to 22 21 08S 113 23 11E

**VERTICAL LIMITS:** FL280 - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R862A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 29 33S 112 29 59E, 22 39 16S 111 26 00E

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 19 52 35S 113 10 54E

20 49 14S 113 32 34E,

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 29 33S 112 29 59E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R862B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 29 33S 112 29 59E, 22 39 16S 111 26 00E

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 19 52 35S 113 10 54E

20 49 14S 113 32 34E,

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 29 33S 112 29 59E

**VERTICAL LIMITS:** FL280 - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R863A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 39 16S 111 26 00E, 22 29 33S 112 29 59E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 23 38 56S 113 32 16E

24 35 26S 113 09 38E,

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 39 16S 111 26 00E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R863B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 39 16S 111 26 00E, 22 29 33S 112 29 59E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 23 38 56S 113 32 16E

24 35 26S 113 09 38E,

then along the minor arc of a circle of 150.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 39 16S 111 26 00E

**VERTICAL LIMITS:** FL280 - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R864A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 51 49S 113 50 54E, 23 38 56S 113 32 16E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 29 33S 112 29 59E

22 21 08S 113 23 11E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 51 49S 113 50 54E

**VERTICAL LIMITS:** NOTAM - FL280

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R864B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 51 49S 113 50 54E, 23 38 56S 113 32 16E

then along the minor arc of a circle of 90.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 29 33S 112 29 59E

22 21 08S 113 23 11E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 51 49S 113 50 54E

**VERTICAL LIMITS:** FL280 - FL950

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R870A LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 22 06 41S 113 51 35E, 22 10 43S 113 59 06E

then along LINE RD 1 to 22 14 09S 113 58 01E

22 28 39S 114 01 32E,

then along the minor arc of a circle of 15.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 06 41S 113 51 35E

**VERTICAL LIMITS:** NOTAM - FL250

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

**YMMM/R870B LEARMONTH**

**CONDITIONAL STATUS:** RA2

**MILITARY FLYING**

**LATERAL LIMITS:** 21 54 07S 113 28 18E, 22 06 41S 113 51 35E

then along the minor arc of a circle of 15.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 22 28 55S 114 02 50E

22 53 37S 113 58 10E,

then along the minor arc of a circle of 40.00NM radius centred on

22 14 05S 114 05 39E (LM/DME) to 21 54 07S 113 28 18E

**VERTICAL LIMITS:** NOTAM - FL250

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** FLTCDR 452SQN DARWIN FLT

## DANGER AREAS

### YMMM/D104A JANDAKOT FLYING TRAINING

**LATERAL LIMITS:** 32 10 24S 115 47 32E, 32 10 59S 115 55 29E  
32 09 48S 115 56 41E, 32 09 14S 115 47 40E  
then along ROCKINGHAM FREMANTLE ROAD 1 to 32 10 24S 115 47 32E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** H24

**CONTACT:** CASA OAR

### YMMM/D104B JANDAKOT FLYING TRAINING

**LATERAL LIMITS:** 32 13 37S 115 47 10E, 32 13 49S 115 56 52E  
32 13 42S 116 01 11E, 32 11 23S 116 00 10E  
32 09 48S 115 56 41E, 32 10 59S 115 55 29E  
32 10 24S 115 47 32E,  
then along ROCKINGHAM FREMANTLE ROAD 2 to 32 13 37S 115 47 10E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** H24

**CONTACT:** CASA OAR

### YMMM/D104C JANDAKOT FLYING TRAINING

**LATERAL LIMITS:** 32 13 37S 115 47 10E,  
then along ROCKINGHAM FREMANTLE ROAD 3 to 32 32 08S 115 43 02E  
then along MANDURAH/PINJARRA RD to 32 37 50S 115 52 18E  
32 24 18S 116 05 52E, 32 13 42S 116 01 11E  
32 13 49S 115 56 52E, 32 13 37S 115 47 10E

**VERTICAL LIMITS:** SFC - 6000

**HOURS OF ACTIVITY:** H24

**CONTACT:** CASA OAR

### YMMM/D106 TELFER GOLD MINE BLASTING

**LATERAL LIMITS:** A circle of 2.50NM radius centred on  
21 43 03S 122 11 27E

**VERTICAL LIMITS:** SFC - 1600

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Telfer AD OPR

### YMMM/D107 MOUNT MAGNET BLASTING

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
28 05 26S 117 48 09E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Mt Magnet AD OPR

### YMMM/D108 BRITANNIA WELL BLASTING

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
28 06 48S 117 48 38E

**VERTICAL LIMITS:** SFC - 3000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Harmony Gold Mount Magnet

### YBBB/D110 BROOME FIRING

**LATERAL LIMITS:** 17 50 30S 122 19 45E, 17 50 30S 122 20 20E  
17 52 15S 122 20 20E, 17 52 45S 122 19 45E  
17 50 30S 122 19 45E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** DOTAM WA

### YMMM/D113 MURRIN MURRIN BLASTING

**LATERAL LIMITS:** 28 52 25S 121 42 08E, 28 44 36S 121 48 52E  
then along the minor arc of a circle of 3.70NM radius centred on  
28 46 50S 121 52 13E to 28 48 13S 121 56 07E  
28 57 20S 121 51 57E,  
then along the major arc of a circle of 5.00NM radius centred on  
28 55 27S 121 46 40E to 28 52 25S 121 42 08E

**VERTICAL LIMITS:** SFC - 2100

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Murrin Murrin AD OPR

### YMMM/D116 PANNAWONICA BLASTING

**LATERAL LIMITS:** A circle of 3.00NM radius centred on  
21 44 21S 116 15 14E

**VERTICAL LIMITS:** SFC - 3700

**HOURS OF ACTIVITY:** H24

**CONTACT:** Rio Tinto Pannawonica

### YMMM/D121 COSSACK PIONEER HIGH VELOCITY GAS DISCHARGE

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
19 35 30S 116 26 06E (YCAP/HLS)

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTACT:** Woodside Cossack Pioneer

### YMMM/D133 GOODWYN ALPHA HIGH VELOCITY GAS DISCHARGE

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
19 39 12S 115 55 42E (YGWN/HLS)

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTACT:** Woodside Goodwyn Alpha

### YMMM/D136 ALBANY BLASTING

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
34 56 55S 117 50 52E

**VERTICAL LIMITS:** SFC - 1100

**HOURS OF ACTIVITY:** HJ  
**CONTACT:** Willy Yung Mine

**YMMM/D137 NEWMAN  
BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
23 20 18S 119 47 42E  
**VERTICAL LIMITS:** SFC - 4100  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** Newman AD OPR

**YMMM/D147 WILLOWDALE  
BLASTING**

**LATERAL LIMITS:** A circle of 4.00NM radius centred on  
32 51 00S 116 03 00E  
**VERTICAL LIMITS:** SFC - 3000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Alcoa Willowdale

**YMMM/D150 WITHNELL BAY  
HIGH VELOCITY GAS DISCHARGE**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
20 35 17S 116 46 46E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Woodside Withnell Bay

**YMMM/D151 NORTH RANKIN  
HIGH VELOCITY GAS DISCHARGE**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
19 35 06S 116 08 12E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Woodside North Rankin

**YMMM/D154 KARRATHA DAMPIER  
FIRING RANGE**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
20 40 18S 116 45 06E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Army OPS WO Pilbara Regt.

**YMMM/D158A MERREDIN  
PILOT TRAINING**

**LATERAL LIMITS:** A circle of 30.00NM radius centred on  
31 31 24S 118 19 14E (YMDN/ALA)  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Merredin AD OPR

**YMMM/D158B MERREDIN  
PILOT TRAINING**

**LATERAL LIMITS:** 31 39 08S 117 45 29E, 31 22 57S 118 53 05E  
then along the major arc of a circle of 30.15NM radius centred on  
31 31 24S 118 19 14E (YMDN/ALA) to 31 39 08S 117 45 29E

**VERTICAL LIMITS:** 5000 - 8000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Merredin AD OPR

**YMMM/D159 HUNTLY  
BLASTING**

**LATERAL LIMITS:** A circle of 6.50NM radius centred on  
32 35 00S 116 09 00E  
**VERTICAL LIMITS:** SFC - 3000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Alcoa Huntly

**YMMM/D164 COOLILUP  
FIRING**

**LATERAL LIMITS:** 33 37 00S 115 30 00E, 33 35 00S 115 30 00E  
33 35 00S 115 32 00E, 33 37 00S 115 32 00E  
33 37 00S 115 30 00E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** D 2100-1200 EXPH  
OT by NOTAM  
**CONTACT:** Army DOTAM WA

**YMMM/D169 SWANBOURNE  
FIRING**

**LATERAL LIMITS:** 31 58 47S 115 43 00E, 31 56 49S 115 43 00E  
31 56 49S 115 46 00E, 31 58 47S 115 46 00E  
31 58 47S 115 43 00E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Army DOTAM WA

**YMMM/D172 KARRATHA  
BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
20 41 00S 116 44 30E  
**VERTICAL LIMITS:** SFC - 500  
**HOURS OF ACTIVITY:** JO  
HJ  
**CONTACT:** Karratha AD OPR

**YBBB/D176 ARGYLE MINE  
BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
16 42 50S 128 23 08E  
**VERTICAL LIMITS:** SFC - 2100  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** Argyle AD OPR

**YMMM/D181 MOUNT TOM PRICE  
BLASTING**

**LATERAL LIMITS:** A circle of 4.00NM radius centred on  
22 45 47S 117 45 15E  
**VERTICAL LIMITS:** SFC - 6700  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Rio Tinto Mt Tom Price



**YMMM/D186 BROOKLANDS****PARACHUTING**

**LATERAL LIMITS:** A circle of 2.00NM radius centred on 31 49 30S 116 47 46E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Skydive Express

**YBBB/D188 KOOLAN ISLAND****BLASTING**

**LATERAL LIMITS:** A circle of 0.40NM radius centred on 16 07 36S 123 45 05E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Mt Gibson Iron

**YMMM/D193 PEARCE****MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 30 36 44S 115 08 59E, then along the minor arc of a circle of 90.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 30 31 17S 116 31 19E 30 59 47S 116 20 11E, then along the minor arc of a circle of 60.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 04 05S 115 23 36E then along 2NM SEAWARD & PARL TO COT 10 2 to 30 38 29S 115 09 47E then along 2NM SEAWARD & PARL TO COT 10 1 to 30 36 44S 115 08 59E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** JO : HJ

**CONTACT:** FLTCDR 453SQN PEARCE FLT

**YMMM/D194 PEARCE****MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 31 52 46S 115 24 56E, 31 38 54S 113 38 19E then along the minor arc of a circle of 120.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 30 08 06S 114 57 33E then along 2NM SEAWARD AND PARL TO COT 1 to 30 14 54S 114 58 00E then along 2NM SEAWARD AND PARL TO COT 2 to 30 38 39S 115 04 55E then along 2NM SEAWARD & PARL TO COT 8 to 30 40 24S 115 05 43E then along 2NM SEAWARD & PARL TO COT 9 to 31 06 08S 115 19 35E then along 2NM SEAWARD & PARL TO COT 7 to 31 28 35S 115 31 43E then along 2NM SEAWARD & PARL TO COT 6 to 31 47 11S 115 41 40E 31 52 46S 115 24 56E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** JO

HJ

**CONTACT:** FLTCDR 453SQN PEARCE FLT

**YMMM/D195 PEARCE****MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 32 21 55S 115 38 20E, 33 37 15S 114 39 32E then along the minor arc of a circle of 120.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 31 38 54S 113 38 19E 31 52 29S 115 22 41E, then along the minor arc of a circle of 30.00NM radius centred on 31 56 42S 115 57 34E (PH/DME) to 32 21 55S 115 38 20E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** JO

HJ

**CONTACT:** FLTCDR 453SQN PEARCE FLT

**YMMM/D197 MUCHEA RANGE****FIRING**

**LATERAL LIMITS:** 31 39 14S 115 53 05E, 31 37 30S 115 53 05E 31 37 30S 115 55 41E, 31 39 14S 115 55 41E 31 39 14S 115 53 05E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN PEARCE FLT

**YMMM/D207A BOND SPRINGS****GLIDING**

**LATERAL LIMITS:** 23 31 06S 133 36 44E, then along the minor arc of a circle of 22.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 25 40S 133 49 43E then along STUART HIGHWAY 1 to 23 32 11S 133 51 48E then along TANAMI ROAD 1 to 23 31 06S 133 36 44E

**VERTICAL LIMITS:** Base of CTA - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** CASA OAR

**YMMM/D207B BOND SPRINGS****GLIDING**

**LATERAL LIMITS:** 23 29 03S 133 19 02E, then along the minor arc of a circle of 36.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 12 04S 133 45 27E then along STUART HIGHWAY 2 to 23 25 40S 133 49 43E then along the minor arc of a circle of 22.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 31 06S 133 36 44E then along TANAMI ROAD 2 to 23 29 03S 133 19 02E

**VERTICAL LIMITS:** Base of CTA - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** CASA OAR

**YMMM/D207C BOND SPRINGS****GLIDING**

**LATERAL LIMITS:** 23 23 56S 133 10 57E, then along the minor arc of a circle of 45.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 04 16S 133 38 49E then along STUART HIGHWAY 3 to 23 12 04S 133 45 27E then along the minor arc of a circle of 36.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 29 03S 133 19 02E then along TANAMI ROAD 3 to 23 23 56S 133 10 57E

**VERTICAL LIMITS:** Base of CTA - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** CASA OAR

**YMMM/D207D BOND SPRINGS****GLIDING**

**LATERAL LIMITS:** 23 16 44S 132 56 37E, then along the minor arc of a circle of 60.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 22 51 49S 133 28 06E then along STUART HIGHWAY 4 to 23 04 16S 133 38 49E then along the minor arc of a circle of 45.00NM radius centred on 23 47 34S 133 52 42E (AS/DME) to 23 23 56S 133 10 57E then along TANAMI ROAD 4 to 23 16 44S 132 56 37E

**VERTICAL LIMITS:** Base of CTA - NOTAM

**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** CASA OAR

**YBBB/D210 TINDAL  
 MILITARY FLYING**

**LATERAL LIMITS:** 13 03 27S 130 41 17E, 15 05 44S 129 54 21E  
 15 15 20S 129 54 33E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 14 31 16S 132 22 40E (YPTN/AD) to 14 42 16S 134 56 58E  
 13 04 11S 132 04 17E, 12 55 13S 132 04 12E  
 12 55 13S 131 58 08E, 12 49 24S 131 58 08E  
 12 39 49S 131 32 33E,  
 then along the minor arc of a circle of 40.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 13 03 27S 130 41 17E

**VERTICAL LIMITS:** SFC - Base of CTA

**HOURS OF ACTIVITY:** W 2130-1330 EXPH  
 OT by NOTAM

**CONTACT:** FLTCDR 452SQN TINDAL FLT

**YMMM/D213 PARAFIELD  
 LANE OF ENTRY**

**LATERAL LIMITS:** 34 47 27S 138 24 26E, 34 44 30S 138 31 50E  
 then along the minor arc of a circle of 5.00NM radius centred on  
 34 42 09S 138 37 15E (YPED/AD) to 34 46 29S 138 34 13E  
 34 48 38S 138 32 18E, 34 47 27S 138 24 26E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D218 JABIRU  
 BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 12 41 12S 132 54 36E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** H24

**CONTACT:** Rio Tinto Jabiru

**YMMM/D220 PARAFIELD  
 FLYING TRAINING/TRANSIT AREA**

**LATERAL LIMITS:** 34 29 57S 138 11 23E, 34 26 27S 138 16 04E  
 34 23 03S 138 16 10E,  
 then along the minor arc of a circle of 36.00NM radius centred on  
 34 56 49S 138 31 28E (AD/DME) to 34 21 27S 138 22 59E  
 34 36 54S 138 28 53E,  
 then along the minor arc of a circle of 20.00NM radius centred on  
 34 56 49S 138 31 28E (AD/DME) to 34 39 47S 138 18 42E  
 34 29 57S 138 11 23E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D227 DARWIN LNG PLANT  
 DUE HIGH VELOCITY GAS DISCHARGE**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
 12 31 26S 130 52 13E

**VERTICAL LIMITS:** SFC - 900

**HOURS OF ACTIVITY:** H24

**CONTACT:** Conoco Phillips Darwin

**YBBB/D236A COOLIBAH CORRIDOR NORTH  
 VFR TRANSIT LANE**

**LATERAL LIMITS:** 15 11 48S 130 55 52E, 14 55 41S 130 55 52E  
 14 55 43S 131 00 00E, 15 12 01S 131 00 00E  
 then along THE IKYMBON RIVER to 15 11 48S 130 55 52E

**VERTICAL LIMITS:** SFC - 3000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army RCO Coolibah Corridor

**YBBB/D236B COOLIBAH CORRIDOR SOUTH  
 VFR TRANSIT LANE**

**LATERAL LIMITS:** 15 21 05S 130 55 52E, 15 11 48S 130 55 52E  
 then along THE IKYMBON RIVER to 15 12 01S 131 00 00E  
 15 21 05S 131 00 00E, 15 21 05S 130 55 52E

**VERTICAL LIMITS:** SFC - 3000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army RCO Coolibah Corridor

**YMMM/D239 OLYMPIC DAM  
 BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 30 26 12S 136 51 24E

**VERTICAL LIMITS:** SFC - 900

**HOURS OF ACTIVITY:** D 0600-0830

**CONTACT:** Olympic Dam AD OPR

**YBBB/D242 MCARTHUR RIVER MINE  
 BLASTING**

**LATERAL LIMITS:** A circle of 1.50NM radius centred on  
 16 25 59S 136 06 24E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** D 0100-0200

D 0400-0500

OT by NOTAM

**CONTACT:** McArthur River Mine AD OPR

**YBBB/D243 TINDAL  
 BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 14 30 00S 132 20 00E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** W 0130-0530 EXPH

OT by NOTAM

**CONTACT:** FLTCDR 452SQN TINDAL FLT

**YBBB/D256 MICKET CREEK  
 RIFLE RANGE**

**LATERAL LIMITS:** 12 22 19S 130 56 14E, 12 24 28S 130 56 14E  
 12 24 28S 130 57 31E, 12 22 19S 130 57 31E  
 12 22 19S 130 56 14E

**VERTICAL LIMITS:** SFC - 600

**HOURS OF ACTIVITY:** H24

**CONTACT:** FLTCDR 452SQN DARWIN FLT

**YBBB/D257 DARWIN  
 ACCESS LANE**

**LATERAL LIMITS:** 13 27 53S 130 04 26E, 12 55 28S 130 06 58E  
 12 36 41S 130 22 00E, 12 34 16S 130 30 28E

then along the minor arc of a circle of 25.00NM radius centred on 12 25 24S 130 54 23E (DN/DME) to 12 37 06S 130 31 46E  
12 39 22S 130 23 53E, 12 43 15S 130 20 46E  
then along COAST 21 to 12 54 54S 130 11 23E  
12 56 35S 130 10 02E, 13 10 21S 130 08 57E  
then along COAST 22 to 13 27 53S 130 04 26E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

#### **YMMM/D258A BURRA**

##### **MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 33 51 46S 138 34 47E, 34 06 50S 138 35 22E

then along the minor arc of a circle of 50.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 16 35S 139 07 33E  
34 03 55S 139 17 19E,

then along the minor arc of a circle of 65.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 51 46S 138 34 47E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN EDINBURGH FLT

#### **YMMM/D258B BURRA**

##### **MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 33 16 39S 138 33 26E, 33 51 46S 138 34 47E

then along the minor arc of a circle of 65.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 34 03 55S 139 17 19E  
33 34 18S 139 39 53E,

then along the minor arc of a circle of 100.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 16 39S 138 33 26E

**VERTICAL LIMITS:** SFC - 9500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN EDINBURGH FLT

#### **YMMM/D258C BURRA**

##### **MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 32 56 36S 138 32 41E, 33 16 39S 138 33 26E

then along the minor arc of a circle of 100.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 33 34 18S 139 39 53E  
33 10 12S 139 38 12E,

then along the minor arc of a circle of 120.00NM radius centred on 34 56 49S 138 31 28E (AD/DME) to 32 56 36S 138 32 41E

**VERTICAL LIMITS:** SFC - FL150

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN EDINBURGH FLT

#### **YBBB/D267 WESTERN HILLS**

##### **FIRING & MILITARY FLYING**

**LATERAL LIMITS:** 14 47 55S 129 56 58E, 15 16 10S 129 50 44E

then along THE VICTORIA RIVER 11 to 15 10 53S 129 47 24E

then along THE VICTORIA RIVER 12 to 15 07 56S 129 41 08E

then along THE VICTORIA RIVER 13 to 15 01 15S 129 37 39E

then along THE VICTORIA RIVER 14 to 14 50 16S 129 38 38E

then along FITZMAURICE RIVER 1 to 14 47 19S 129 53 22E

then along FITZMAURICE RIVER 2 to 14 47 55S 129 56 58E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army RCO Western Hills

#### **YMMM/D271 IRON MINES**

##### **BLASTING**

**LATERAL LIMITS:** 33 16 22S 137 00 30E, 33 11 07S 137 01 51E

then along the minor arc of a circle of 3.00NM radius centred on 33 11 45S 137 05 21E to 33 11 36S 137 08 55E

33 15 04S 137 09 08E,

then along the minor arc of a circle of 3.00NM radius centred on

33 15 13S 137 05 34E to 33 17 00S 137 08 27E

33 18 47S 137 06 53E,

then along the minor arc of a circle of 3.00NM radius centred on

33 17 00S 137 04 00E to 33 16 22S 137 00 30E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** H24

**CONTACT:** HWE Mining

#### **YMMM/D274 MOOMBA**

##### **HIGH VELOCITY GAS DISCHARGE**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on

28 06 49S 140 12 07E

**VERTICAL LIMITS:** SFC - FL150

**HOURS OF ACTIVITY:** H24

**CONTACT:** Moomba AD OPR

#### **YMMM/D280 PARAFIELD**

##### **FLYING TRAINING & TRANSIT AREA**

**LATERAL LIMITS:** 34 47 27S 138 24 26E, 34 39 47S 138 18 42E

then along the minor arc of a circle of 20.00NM radius centred on

34 56 49S 138 31 28E (AD/DME) to 34 36 54S 138 28 53E

34 43 37S 138 31 27E,

then along the minor arc of a circle of 5.00NM radius centred on

34 42 09S 138 37 15E (YPED/AD) to 34 44 29S 138 31 53E

34 47 27S 138 24 26E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

#### **YMMM/D285 MURRAY BRIDGE**

##### **AEROBATIC AREA**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on

35 04 00S 139 12 50E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Murray Bridge AD OPR

#### **YBBB/D288A COX PENINSULA**

##### **FLYING TRAINING**

**LATERAL LIMITS:** 12 37 04S 130 32 56E, 12 34 58S 130 33 55E

then along PORT PATTERSON COAST to 12 30 10S 130 35 17E

12 28 38S 130 46 05E,

then along the minor arc of a circle of 7.00NM radius centred on

12 24 34S 130 51 55E to 12 29 10S 130 46 31E

then along THE PORT DARWIN COAST 1 to 12 33 41S 130 46 35E

12 41 11S 130 35 04E,

then along BYNOE HARBOUR to 12 37 04S 130 32 56E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

#### **YBBB/D288B COX PENINSULA**

##### **MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 12 40 28S 130 36 10E, 12 33 41S 130 46 35E

12 33 59S 130 47 22E,

then along MIDDLE ARM COAST 2 to 12 33 06S 130 48 37E

12 33 39S 130 49 02E,

then along MIDDLE ARM COAST 1 to 12 36 01S 130 51 50E

12 36 29S 130 52 50E,  
then along MIDDLE ARM COAST 3 to 12 36 28S 130 53 19E  
12 42 37S 130 53 17E, 12 42 51S 130 42 05E  
then along BYNOE HARBOUR 3 to 12 42 05S 130 39 45E  
then along BYNOE HARBOUR 2X to 12 40 28S 130 36 10E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army DO Robertson Barracks

### YBBB/D288C COX PENINSULA

#### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 12 52 59S 130 43 30E, 12 42 49S 130 43 25E

12 42 37S 130 53 17E, 12 45 30S 130 53 17E

12 45 30S 130 48 51E, 12 46 23S 130 48 51E

12 46 22S 130 47 03E, 12 49 53S 130 47 03E

12 49 53S 130 49 52E, 12 51 37S 130 49 54E

12 51 31S 130 57 52E, 12 58 46S 130 57 51E

12 58 46S 130 53 28E, 12 58 19S 130 53 28E

then along FINNISS RIVER to 12 58 14S 130 47 58E

12 52 59S 130 43 30E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army DO Robertson Barracks

### YMMM/D297A SOUTH PARA

#### FLYING TRAINING

**LATERAL LIMITS:** 34 48 00S 138 48 30E, 34 37 00S 138 47 00E

34 38 13S 138 53 03E, 34 47 36S 138 53 03E

34 48 00S 138 48 30E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN EDINBURGH FLT

### YMMM/D297B SOUTH PARA

#### FLYING TRAINING

**LATERAL LIMITS:** 34 47 36S 138 53 03E, 34 38 13S 138 53 03E

34 39 00S 138 57 00E, 34 47 00S 139 00 00E

34 47 36S 138 53 03E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN EDINBURGH FLT

### YMMM/D305 LAUNCESTON

#### FLYING TRAINING

**LATERAL LIMITS:** 41 41 45S 147 04 48E, 41 39 10S 146 56 22E

41 31 53S 146 49 53E, 41 31 58S 147 00 39E

41 41 45S 147 04 48E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YMMM/D314 MOORABBIN

#### FLYING TRAINING

**LATERAL LIMITS:** 38 05 22S 145 10 02E, 38 01 17S 145 07 42E

then along the minor arc of a circle of 3.00NM radius centred on

37 58 33S 145 06 08E (YMMB/AD) to 37 59 50S 145 09 34E

38 02 06S 145 15 37E,

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 05 22S 145 10 02E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YMMM/D315 MOORABBIN

#### FLYING TRAINING

**LATERAL LIMITS:** 38 14 42S 145 15 24E, 38 05 22S 145 10 02E

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 02 06S 145 15 37E

38 07 06S 145 28 59E, 38 11 54S 145 28 36E

38 12 21S 145 26 28E,

then along the minor arc of a circle of 1.00NM radius centred on

38 12 56S 145 25 25E (YTDN/ALA) to 38 12 51S 145 24 09E

38 14 42S 145 15 24E

**VERTICAL LIMITS:** SFC - 7500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YMMM/D316 HOBART

#### FLYING TRAINING

**LATERAL LIMITS:** 43 03 00S 147 25 00E, 42 59 00S 147 24 00E

42 53 49S 147 25 02E, 42 57 18S 147 31 40E

42 58 51S 147 33 52E, 43 01 22S 147 31 15E

43 03 00S 147 25 00E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** H24

**CONTACT:** CASA OAR

### YMMM/D322A ST LEONARDS

#### UNMANNED AERIAL VEHICLE TESTING

**LATERAL LIMITS:** 38 08 40S 144 41 00E,

then along the minor arc of a circle of 30.00NM radius centred on

37 39 36S 144 50 32E (ML/DME) to 38 08 57S 144 42 25E

then along the major arc of a circle of 1.50NM radius centred on

38 10 09S 144 41 18E (YSLE/ALA) to 38 08 40S 144 41 00E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Aerosonde Port Phillip Bay

### YMMM/D322B PORT PHILLIP BAY

#### UNMANNED AERIAL VEHICLE TESTING

**LATERAL LIMITS:** 38 08 57S 144 42 25E, 38 08 00S 144 44 30E

38 08 00S 145 02 00E, 38 10 30S 145 02 00E

38 18 00S 144 54 30E, 38 18 00S 144 44 30E

38 11 44S 144 44 30E, 38 10 35S 144 43 08E

then along the minor arc of a circle of 1.50NM radius centred on

38 10 09S 144 41 18E (YSLE/ALA) to 38 08 57S 144 42 25E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Aerosonde Port Phillip Bay

### YMMM/D342 MORAN RESERVE

#### PARACHUTING

**LATERAL LIMITS:** A circle of 1.00NM radius centred on

37 52 38S 144 58 31E

**VERTICAL LIMITS:** SFC - 2500 AMSL

**HOURS OF ACTIVITY:** HJ

JF

OT by NOTAM

**CONTACT:** CASA OAR

**YMMM/D360 NAGAMBIE  
PARACHUTING**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on 36 44 09S 145 07 37E (YNGB/ALA)  
**VERTICAL LIMITS:** SFC - FL125  
**HOURS OF ACTIVITY:** HJ DAILY  
**CONTACT:** Skydive Nagambie

**YMMM/D369 SAVAGE RIVER MINE  
BLASTING**

**LATERAL LIMITS:** 41 31 54S 145 10 19E, 41 30 06S 145 14 25E  
 41 26 36S 145 13 54E, 41 25 46S 145 11 26E  
 41 31 54S 145 10 19E  
**VERTICAL LIMITS:** SFC - 3000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Australian Bulk Minerals

**YMMM/D372 LANG LANG GAS PLANT  
HIGH VELOCITY GAS DISCHARGE**

**LATERAL LIMITS:** A circle of 0.30NM radius centred on 38 19 23S 145 36 12E  
**VERTICAL LIMITS:** SFC - 1200  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Origin Energy Lang Lang

**YMMM/D383 POINT COOK  
FLYING TRAINING**

**LATERAL LIMITS:** 37 55 26S 144 38 08E, 37 55 00S 144 38 57E  
 37 54 24S 144 39 54E, 37 53 23S 144 41 29E  
 37 52 29S 144 44 12E, 37 53 15S 144 50 32E  
 then along the minor arc of a circle of 5.00NM radius centred on 37 55 56S 144 45 12E (YMPC/AD) to 38 00 56S 144 45 13E  
 38 00 56S 144 37 11E, 37 56 05S 144 38 01E  
 37 55 26S 144 38 08E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** Point Cook AD OPR

**YMMM/D386A HAMILTON  
UNMANNED AERIAL VEHICLE TESTING**

**LATERAL LIMITS:** A circle of 3.50NM radius centred on 37 45 00S 141 52 00E  
**VERTICAL LIMITS:** SFC - 10000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Aerosonde Hamilton

**YMMM/D386B HAMILTON  
UNMANNED AERIAL VEHICLE TESTING**

**LATERAL LIMITS:** 37 43 00S 141 55 38E, 37 43 01S 141 48 22E  
 then along the minor arc of a circle of 3.50NM radius centred on 37 45 00S 141 52 00E to 37 43 00S 141 55 38E  
**VERTICAL LIMITS:** 10000 - FL180  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Aerosonde Hamilton

**YMMM/D389 TOORADIN  
PARACHUTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on

38 12 56S 145 25 25E (YTDN/ALA)  
 NOTES: PJE ACFT operate on and monitor 120.0MHz  
**VERTICAL LIMITS:** SFC - 8500  
**HOURS OF ACTIVITY:** D 0900-2300 (LOCAL)  
**CONTACT:** Commando Skydivers

**YMMM/D392 WOODSIDE  
OMEGA TWR & ASSOC GUY WIRES**

**LATERAL LIMITS:** A circle of 3.00NM radius centred on 38 28 47S 146 56 12E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** CASA OAR

**YMMM/D399 BACCHUS MARSH  
GLIDER FLYING**

**LATERAL LIMITS:** 37 34 36S 144 13 18E, 37 36 24S 144 20 00E  
 37 43 00S 144 20 00E, 37 43 00S 144 13 00E  
 then along the minor arc of a circle of 30.00NM radius centred on 37 39 36S 144 50 32E (ML/DME) to 37 34 36S 144 13 18E  
**VERTICAL LIMITS:** 4500 - 5500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Airservices Australia Melbourne

**YMMM/D423 NOWRA  
FLYING TRAINING**

**LATERAL LIMITS:** 36 15 11S 149 15 20E, 35 20 06S 149 48 12E  
 35 08 13S 150 07 32E,  
 then along the minor arc of a circle of 23.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 35 19 57S 150 34 29E  
 36 36 46S 150 42 49E,  
 then along the minor arc of a circle of 100.00NM radius centred on 34 57 00S 150 32 00E (NWA/TAC) to 36 15 11S 149 15 20E  
 NOTES: Refer Nowra Local Traffic Regulations.  
**VERTICAL LIMITS:** SFC - 10000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 453SQN NOWRA FLT

**YMMM/D427 TEMORA  
AIR DISPLAYS**

**LATERAL LIMITS:** A circle of 5.00NM radius centred on 34 25 17S 147 30 42E (YTEM/AD)  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Temora Historic Flight Club

**YBBB/D431 ATTUNGA  
BLASTING**

**LATERAL LIMITS:** A circle of 0.60NM radius centred on 30 55 25S 150 51 35E  
**VERTICAL LIMITS:** SFC - 3100  
**HOURS OF ACTIVITY:** W 2300 - 0700  
**CONTACT:** Unimin Australia

**YBBB/D432 SULCOR  
BLASTING**

**LATERAL LIMITS:** A circle of 0.60NM radius centred on 30 52 16S 150 49 08E  
**VERTICAL LIMITS:** SFC - 3300

**HOURS OF ACTIVITY:** W 2300 - 0700  
**CONTACT:** Unimin Australia

**YMMM/D451 MARULAN****UNMANNED AERIAL VEHICLE TESTING**

**LATERAL LIMITS:** 34 15 56S 150 06 03E, 34 35 41S 150 02 04E  
 then along the minor arc of a circle of 1.00NM radius centred on  
 34 35 42S 150 03 17E to 34 36 29S 150 04 02E  
 34 20 25S 150 28 27E, 34 15 56S 150 06 03E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** ACFR

**YMMM/D456 BASS PT****QUARRY BLASTING**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
 34 35 58S 150 52 45E

**VERTICAL LIMITS:** SFC - 500

**HOURS OF ACTIVITY:** WS-HJ

**CONTACT:** Hanson Construction Materials

**YMMM/D513 THE BALD HILLS****UAV OPERATIONS**

**LATERAL LIMITS:** 32 00 00S 146 27 36E, 31 54 18S 146 37 18E  
 32 10 06S 146 51 42E, 32 15 54S 146 41 54E  
 32 00 00S 146 27 36E

**VERTICAL LIMITS:** SFC - FL180

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Air Affairs Australia

**YBBB/D523A TAMWORTH****FLYING TRAINING**

**LATERAL LIMITS:** 31 12 52S 150 48 00E, 31 18 48S 150 46 50E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 30 59 11S 150 33 15E  
 then along THE POWER LINES to 31 01 15S 150 39 48E  
 then along the minor arc of a circle of 9.00NM radius centred on  
 31 03 58S 150 49 48E (TW/DME) to 31 12 52S 150 48 00E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** H24

**CONTACT:** BAE Systems

**YBBB/D523B TAMWORTH****FLYING TRAINING**

**LATERAL LIMITS:** 31 32 44S 150 11 53E, 31 10 14S 150 06 38E  
 then along THE TAMARANG TO GUNNEDAH ROAD to 31 02 14S 150  
 12 38E

then along the minor arc of a circle of 5.00NM radius centred on  
 30 57 40S 150 15 02E (YGDH/AD) to 30 58 49S 150 20 42E

then along OXLEY HWY 3 to 30 58 34S 150 27 59E

then along A POWER LINE to 30 59 11S 150 33 15E

then along the minor arc of a circle of 15.00NM radius centred on

31 03 58S 150 49 48E (TW/DME) to 31 18 48S 150 46 50E

31 31 39S 150 44 17E,

then along THE QUIRINDI RD to 31 31 45S 150 39 50E

then along HWY 37 to 31 25 36S 150 35 23E

31 25 31S 150 34 30E,

then along the minor arc of a circle of 5.10NM radius centred on

31 29 55S 150 31 05E (YQDI/AD) to 31 30 35S 150 25 09E

then along PINE RIDGE TO SPRING RIDGE RD to 31 32 44S 150 11

53E

**VERTICAL LIMITS:** SFC - 8000

**HOURS OF ACTIVITY:** H24

**CONTACT:** BAE Systems

**YMMM/D526 CADIA GOLD MINE****BLASTING**

**LATERAL LIMITS:** A circle of 1.60NM radius centred on  
 33 28 00S 148 59 49E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** WS-HJ

**CONTACT:** Newcrest Mining

**YBBB/D531A GUNNEDAH****FLYING TRAINING**

**LATERAL LIMITS:** 31 05 49S 149 54 49E,  
 then along ROAD 1 to 30 46 16S 149 57 50E  
 then along the minor arc of a circle of 5.00NM radius centred on  
 30 43 30S 150 02 40E to 30 48 30S 150 03 10E  
 then along NORTH WESTERN RAILWAY to 30 56 03S 150 09 32E  
 then along the minor arc of a circle of 5.00NM radius centred on  
 30 57 40S 150 15 02E (YGDH/AD) to 30 59 22S 150 09 34E  
 then along OXLEY HWY 4 to 31 05 49S 149 54 49E

**VERTICAL LIMITS:** SFC - 8000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D531B GUNNEDAH****FLYING TRAINING**

**LATERAL LIMITS:** 30 48 30S 150 03 10E,  
 then along the minor arc of a circle of 5.00NM radius centred on  
 30 43 30S 150 02 40E to 30 40 39S 150 07 27E  
 then along ROAD 2 to 30 41 24S 150 18 25E  
 30 42 34S 150 21 02E, 30 45 44S 150 19 03E  
 30 51 08S 150 20 17E,  
 then along THE ROAD 1 to 30 53 30S 150 18 16E  
 then along the minor arc of a circle of 5.00NM radius centred on  
 30 57 40S 150 15 02E (YGDH/AD) to 30 56 03S 150 09 32E  
 then along NORTH WESTERN RAILWAY to 30 48 30S 150 03 10E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB-YMMM/D538A WILLIAMTOWN****MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 32 24 58S 149 14 00E, 33 20 27S 149 43 36E  
 33 28 11S 150 28 56E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 14 18S 150 52 08E  
 32 03 38S 150 44 11E, 31 38 06S 150 29 05E  
 32 33 11S 149 43 17E, 32 34 15S 149 25 43E  
 32 24 58S 149 14 00E

**VERTICAL LIMITS:** SFC - 7500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN WILLIAMTOWN FLT

**YBBB-YMMM/D538B WILLIAMTOWN****MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 31 35 47S 148 48 19E, 32 24 58S 149 14 00E  
 32 34 15S 149 25 43E, 32 33 11S 149 43 17E  
 31 38 06S 150 29 05E, 31 04 48S 150 09 38E  
 31 35 47S 148 48 19E

**VERTICAL LIMITS:** SFC - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN WILLIAMTOWN FLT

**YMMM/D539A BANKSTOWN**

**LANE OF ENTRY**

**LATERAL LIMITS:** 33 45 42S 151 04 42E, 33 49 26S 151 05 17E

then along HOMEBUSH BAY 4 to 33 50 28S 151 04 56E

33 51 04S 151 04 54E,

then along the minor arc of a circle of 0.40NM radius centred on

33 51 03S 151 04 25E to 33 51 25S 151 04 14E

33 54 17S 151 02 37E,

then along the minor arc of a circle of 3.00NM radius centred on

33 55 28S 150 59 18E (YSBK/AD) to 33 53 08S 150 57 01E

then along the minor arc of a circle of 12.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 45 42S 151 04 42E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YMMM/D539B BANKSTOWN**

**LANE OF ENTRY**

**LATERAL LIMITS:** 33 45 05S 150 54 00E, 33 41 00S 151 00 00E

33 45 42S 151 04 42E,

then along the minor arc of a circle of 12.00NM radius centred on

33 56 34S 151 10 51E (SY/DME) to 33 53 08S 150 57 01E

then along the minor arc of a circle of 3.00NM radius centred on

33 55 28S 150 59 18E (YSBK/AD) to 33 53 49S 150 56 17E

33 45 05S 150 54 00E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YMMM/D543 URANQUINTY**

**PLUME RISE HAZARD**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on

35 10 53S 147 12 53E

**VERTICAL LIMITS:** SFC - 4700

**HOURS OF ACTIVITY:** H24

**CONTACT:** Origin Energy Uranquinty

**YMMM/D552 CAMDEN**

**FLYING TRAINING**

**LATERAL LIMITS:** 33 58 10S 150 28 26E, 33 58 47S 150 34 28E

then along ROAD 13 to 34 00 28S 150 38 36E

34 01 38S 150 39 01E,

then along the minor arc of a circle of 2.00NM radius centred on

34 02 25S 150 41 14E (YSCN/AD) to 34 04 22S 150 41 47E

then along OLD HUME HWY to 34 10 21S 150 36 10E

then along RAILWAY 10 to 34 13 56S 150 32 50E

then along LITTLE/NATTAI RIVERS to 34 05 08S 150 26 28E

then along EASTERN BANK OF LAKE BURRAGORANG to 33 58 10S 150 28 26E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YMMM/D556A BANKSTOWN**

**FLYING TRAINING**

**LATERAL LIMITS:** 34 11 00S 150 50 00E, 34 02 31S 150 44 22E

then along ROAD 6 to 33 58 27S 150 44 25E

then along ROAD 7 to 33 56 34S 150 44 01E

then along ROAD 8 to 33 52 27S 150 44 45E

then along ROAD 10 to 33 52 16S 150 43 09E

then along ROAD 11 to 33 49 08S 150 45 43E

then along ROAD 12 to 33 46 16S 150 46 34E

33 47 02S 150 49 43E, 33 48 13S 150 54 49E

33 53 49S 150 56 17E, 33 57 53S 150 57 19E

33 58 00S 150 54 43E, 34 06 00S 150 49 30E

34 11 00S 150 50 00E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YMMM/D556B BANKSTOWN**

**FLYING TRAINING**

**LATERAL LIMITS:** 33 58 47S 150 34 20E, 33 58 10S 150 28 26E

then along WARRAGAMBA RVR to 33 53 12S 150 36 01E

then along WARRAGAMBA/NEPEAN RIVERS to 33 47 04S 150 38

34E

33 48 32S 150 41 28E, 33 49 08S 150 45 43E

then along ROAD 11 to 33 52 16S 150 43 09E

then along ROAD 10 to 33 52 27S 150 44 45E

then along ROAD 8 to 33 56 34S 150 44 01E

then along ROAD 7 to 33 58 27S 150 44 25E

34 00 28S 150 38 36E,

then along THE ROAD 3 to 33 58 47S 150 34 20E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D567 MUNMORAH**

**GAS PLUME**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on

33 12 40S 151 32 40E

**VERTICAL LIMITS:** SFC - 3300

**HOURS OF ACTIVITY:** H24

**CONTACT:** Delta Electricity

**YBBB/D589A WILLIAMTOWN**

**ACCESS LANE**

**LATERAL LIMITS:** 32 44 28S 151 33 35E, 32 43 32S 151 31 06E

then along 1NM PARL TO RAILWAY 4 to 32 22 20S 151 45 48E

32 23 40S 151 47 41E,

then along 1NM PARL TO RAILWAY 5 to 32 44 28S 151 33 35E

**VERTICAL LIMITS:** SFC - 1600

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN WILLIAMTOWN FLT

**YBBB/D589B WILLIAMTOWN**

**ACCESS LANE**

**LATERAL LIMITS:** 32 23 40S 151 47 41E, 32 22 20S 151 45 48E

then along 1NM PARL TO RAILWAY 3 to 32 19 54S 151 54 10E

then along 1NM PARL TO RAILWAY 1 to 32 00 00S 151 56 13E

then along 1NM PARL TO RAILWAY 9 to 31 53 41S 152 02 08E

then along the minor arc of a circle of 55.00NM radius centred on

32 47 49S 151 50 00E (WLM/TAC) to 31 54 36S 152 06 52E

then along 1NM PARL TO RAILWAY 8 to 32 00 00S 151 59 47E

then along 1NM PARL TO RAILWAY 7 to 32 21 40S 151 57 14E

then along 1NM PARL TO RAILWAY 6 to 32 23 40S 151 47 41E

**VERTICAL LIMITS:** SFC - 2000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN WILLIAMTOWN FLT

**YMMM/D593A WILTON  
PARACHUTING**

**LATERAL LIMITS:** 34 11 23S 150 39 25E,  
then along the minor arc of a circle of 30.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 14 36S 150 41 56E  
then along the major arc of a circle of 2.00NM radius centred on  
34 13 18S 150 40 06E (YWIO/ALA) to 34 11 23S 150 39 25E

**VERTICAL LIMITS:** SFC - 7500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Sydney Parachute and Skydiving Centre

**YMMM/D593B WILTON  
PARACHUTING**

**LATERAL LIMITS:** 34 11 23S 150 39 25E,  
then along the minor arc of a circle of 30.00NM radius centred on  
33 56 34S 151 10 51E (SY/DME) to 34 14 36S 150 41 56E  
then along the minor arc of a circle of 2.00NM radius centred on  
34 13 18S 150 40 06E (YWIO/ALA) to 34 11 23S 150 39 25E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** Sydney Parachute and Skydiving Centre

**YBBB/D600 WILLIAMTOWN  
MILITARY JET CORRIDOR**

**LATERAL LIMITS:** 32 10 00S 150 44 54E, 33 00 00S 150 50 31E  
33 00 00S 151 37 36E, 32 47 22S 151 37 30E  
32 37 18S 151 43 06E, 32 22 47S 151 51 04E  
then along the minor arc of a circle of 25.00NM radius centred on  
32 47 49S 151 50 00E (WLM/TAC) to 32 23 49S 151 58 27E  
32 09 43S 152 01 43E, 32 10 00S 152 01 08E  
32 10 00S 150 44 54E

**VERTICAL LIMITS:** SFC - 8500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 453SQN WILLIAMTOWN FLT

**YBBB/D602 SCHERGER  
MILITARY FLYING**

**LATERAL LIMITS:** 12 22 27S 142 06 50E, 11 57 28S 142 09 29E  
then along the minor arc of a circle of 40.00NM radius centred on  
12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E  
12 52 25S 142 03 38E,  
then along the minor arc of a circle of 15.00NM radius centred on  
12 37 26S 142 05 14E (YBSG/AD) to 12 22 27S 142 06 50E

**VERTICAL LIMITS:** SFC - 4000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN TOWNSVILLE FLT

**YBBB/D606 SCHERGER  
MILITARY FLYING**

**LATERAL LIMITS:** 14 37 18S 141 52 22E,  
then along the major arc of a circle of 120.00NM radius centred on  
12 37 26S 142 05 14E (YBSG/AD) to 10 37 32S 142 17 54E  
11 57 28S 142 09 29E,  
then along the major arc of a circle of 40.00NM radius centred on  
12 37 26S 142 05 14E (YBSG/AD) to 13 17 24S 142 00 58E  
14 37 18S 141 52 22E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN TOWNSVILLE FLT

**YBBB/D611 BALLERA  
HIGH PRESSURE GAS VENTING**

**LATERAL LIMITS:** A circle of 0.50NM radius centred on  
27 23 36S 141 48 18E

**VERTICAL LIMITS:** SFC - FL150

**HOURS OF ACTIVITY:** H24

**CONTACT:** SANTOS Ballera

**YBBB/D612A AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 27 42 08S 152 32 14E, 27 25 55S 152 25 08E  
then along the minor arc of a circle of 20.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 18 23S 152 43 04E  
27 29 24S 152 47 34E,

then along the minor arc of a circle of 10.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 42 08S 152 32 14E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D612B AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 27 25 55S 152 25 08E, 27 42 08S 152 32 14E  
then along the minor arc of a circle of 10.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 44 13S 152 51 55E  
27 53 24S 152 45 11E, 27 58 25S 152 40 49E  
then along the minor arc of a circle of 20.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 25 55S 152 25 08E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D612C AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 27 07 49S 152 23 29E, 27 13 25S 152 41 03E  
27 18 23S 152 43 04E,  
then along the minor arc of a circle of 20.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 58 25S 152 40 49E  
28 11 29S 152 29 24E,  
then along the minor arc of a circle of 35.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 07 49S 152 23 29E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D612D AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 27 04 27S 152 12 59E, 27 07 49S 152 23 29E  
then along the minor arc of a circle of 35.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 28 11 29S 152 29 24E  
28 18 05S 152 23 37E,  
then along the minor arc of a circle of 43.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 27 04 27S 152 12 59E

**VERTICAL LIMITS:** SFC - 6500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D614A AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 27 05 05S 150 55 04E, 27 10 23S 151 23 24E  
27 29 54S 151 52 25E, 27 30 24S 151 55 10E



then along the minor arc of a circle of 43.00NM radius centred on 27 38 26S 152 42 43E (YAMB/AD) to 28 01 11S 152 01 30E 28 32 33S 151 18 37E,  
then along the minor arc of a circle of 120.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 27 05 05S 150 55 04E

**VERTICAL LIMITS:** SFC - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D614B AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 28 10 00S 149 48 00E, 26 51 16S 149 43 44E 27 05 05S 150 55 04E,

then along the minor arc of a circle of 120.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 27 51 28S 150 57 24E 28 10 00S 149 48 00E

**VERTICAL LIMITS:** SFC - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D614C AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 29 22 09S 150 09 17E, 28 10 00S 149 48 00E 27 51 28S 150 57 24E,

then along the minor arc of a circle of 120.00NM radius centred on 27 21 57S 153 08 21E (BN/DME) to 28 32 33S 151 18 37E 29 22 09S 150 09 17E

**VERTICAL LIMITS:** SFC - 10000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D616 EVANS HEAD

##### LANE OF ENTRY

**LATERAL LIMITS:** 29 01 20S 153 17 00E, 28 57 00S 153 27 30E 28 56 21S 153 31 28E,

then along THE COAST 45 to 29 06 55S 153 26 11E then along NTH BANK OF EVANS AND RIC RVRS to 29 01 20S 153 17 00E

**VERTICAL LIMITS:** SFC - 1000

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

#### YBBB/D617A AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 25 27 41S 153 15 56E, 24 50 56S 153 38 38E 25 31 53S 154 17 17E, 26 15 42S 153 29 56E

26 10 07S 153 25 43E, 25 44 29S 153 16 51E 25 27 41S 153 15 56E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D617B AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 24 50 56S 153 38 38E, 23 59 01S 154 10 14E 24 49 42S 155 02 03E, 25 31 53S 154 17 17E

24 50 56S 153 38 38E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D617C AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 25 31 53S 154 17 17E, 24 49 42S 155 02 03E

25 39 32S 155 54 00E, 26 12 15S 154 55 58E

25 31 53S 154 17 17E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D617D AMBERLEY

##### MILITARY FLYING

**LATERAL LIMITS:** 26 15 42S 153 29 56E, 25 31 53S 154 17 17E

26 12 15S 154 55 58E, 26 46 43S 153 53 29E

26 15 42S 153 29 56E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

#### YBBB/D623 CEDAR GROVE

##### ROCKET LAUNCHING

**LATERAL LIMITS:** A circle of 0.50NM radius centred on

27 51 09S 152 57 27E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Queensland Rocketry Society

#### YBBB/D624 CABARLAH

##### FIRING

**LATERAL LIMITS:** 27 27 00S 151 59 18E, 27 26 42S 151 59 24E

27 26 48S 151 59 42E, 27 27 06S 151 59 36E

27 27 00S 151 59 18E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army RCO Cabarlah

#### YBBB/D629A GLASSHOUSE

##### CIVIL FLYING TRAINING

**LATERAL LIMITS:** 27 17 00S 152 59 49E, 27 13 13S 152 59 16E

then along the minor arc of a circle of 12.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 11 11S 153 09 17E

27 13 16S 153 09 03E, 27 13 54S 153 04 35E

27 17 00S 152 59 49E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

#### YBBB/D629B GLASSHOUSE

##### CIVIL FLYING TRAINING

**LATERAL LIMITS:** 27 08 11S 153 09 37E, 27 11 11S 153 09 17E

then along the minor arc of a circle of 12.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 13 13S 152 59 16E

then along D'AGUILAR HWY 30 to 27 09 59S 152 58 43E

then along the minor arc of a circle of 15.00NM radius centred on

27 23 03S 153 07 03E (YBBN/AD) to 27 08 11S 153 09 37E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D629C GLASSHOUSE  
CIVIL FLYING TRAINING**

**LATERAL LIMITS:** 26 43 30S 153 08 08E, 26 48 25S 153 08 17E  
then along COAST/BRIBIE IS to 27 05 00S 153 12 00E  
27 08 11S 153 09 37E,  
then along the minor arc of a circle of 15.00NM radius centred on  
27 23 03S 153 07 03E (YBBN/AD) to 27 09 59S 152 58 43E  
then along D AGUILAR HWY 2 to 27 05 18S 152 57 02E  
27 04 40S 152 57 08E, 26 41 07S 152 58 40E  
then along the minor arc of a circle of 8.00NM radius centred on  
26 35 52S 153 05 25E (SU/DME) to 26 43 30S 153 08 08E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D629D GLASSHOUSE  
CIVIL FLYING TRAINING**

**LATERAL LIMITS:** 27 02 14S 152 57 17E, 27 04 40S 152 57 08E  
27 05 07S 152 56 18E,  
then along DAGUILAR HWY1 to 27 03 44S 152 54 26E  
then along the minor arc of a circle of 22.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 02 14S 152 57 17E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D629E GLASSHOUSE  
CIVIL FLYING TRAINING**

**LATERAL LIMITS:** 26 48 52S 152 58 10E, 27 02 14S 152 57 17E  
then along the minor arc of a circle of 22.00NM radius centred on  
27 21 57S 153 08 21E (BN/DME) to 27 03 44S 152 54 26E  
then along DAGUILAR HWY3 to 26 55 14S 152 43 08E  
then along the minor arc of a circle of 35.00NM radius centred on  
27 23 03S 153 07 03E (YBBN/AD) to 26 48 52S 152 58 10E  
**VERTICAL LIMITS:** SFC - 4500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D632 AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 26 12 15S 154 55 58E, 25 39 32S 155 54 00E  
26 15 50S 156 30 28E, 26 33 23S 155 46 55E  
27 13 12S 154 44 29E, 27 23 00S 154 28 52E  
26 46 43S 153 53 29E, 26 12 15S 154 55 58E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D635 AMBERLEY  
MILITARY FLYING**

**LATERAL LIMITS:** 29 00 00S 150 40 30E, 28 01 11S 152 01 30E  
then along the minor arc of a circle of 43.00NM radius centred on  
27 38 26S 152 42 43E (YAMB/AD) to 28 18 05S 152 23 37E  
29 06 00S 153 05 40E, 29 15 00S 153 03 30E  
29 20 53S 153 13 04E, 29 36 19S 152 51 04E  
29 00 00S 150 40 30E  
**VERTICAL LIMITS:** SFC - Base of CTA  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D648 AMBERLEY  
FIRING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
27 42 59S 152 44 00E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** D 2030-1300 EXPH  
OT by NOTAM  
**CONTACT:** Army RCO Greenbank

**YBBB/D651 WATTS BRIDGE  
UNMANNED AERIAL VEHICLE (UAV) TESTING**

**LATERAL LIMITS:** 27 06 14S 152 24 05E, 27 02 28S 152 29 19E  
27 05 30S 152 30 11E, 27 07 48S 152 30 18E  
27 08 54S 152 27 55E, 27 08 10S 152 25 30E  
27 06 14S 152 24 05E  
**VERTICAL LIMITS:** SFC - 3000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Insitu Pacific

**YBBB/D652 OAKEY  
HEAT PLUME AVOIDANCE**

**LATERAL LIMITS:** A circle of 0.30NM radius centred on  
27 25 04S 151 40 53E  
**VERTICAL LIMITS:** SFC - 2800  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Power Holding

**YBBB/D656A GOLD COAST  
FLYING TRAINING**

**LATERAL LIMITS:** 28 16 51S 153 27 55E, 28 16 39S 153 27 50E  
then along THE TWEED RIVER to 28 19 18S 153 25 38E  
then along the minor arc of a circle of 10.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 19 32S 153 34 12E  
then along COAST 510 to 28 15 44S 153 35 00E  
then along the minor arc of a circle of 7.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 16 51S 153 27 55E  
**VERTICAL LIMITS:** SFC - 1500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D656B GOLD COAST  
FLYING TRAINING**

**LATERAL LIMITS:** 28 24 08S 153 24 01E, 28 19 18S 153 25 38E  
then along the minor arc of a circle of 10.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 19 32S 153 34 12E  
then along COAST 490 to 28 24 51S 153 33 47E  
then along the minor arc of a circle of 15.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 24 08S 153 24 01E  
**VERTICAL LIMITS:** SFC - 2500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D656C GOLD COAST  
FLYING TRAINING**

**LATERAL LIMITS:** 28 26 30S 153 27 00E, 28 24 08S 153 24 01E  
then along the minor arc of a circle of 15.00NM radius centred on  
28 10 08S 153 30 14E (CG/DME) to 28 24 51S 153 33 47E  
then along COAST 480 to 28 34 44S 153 33 48E  
then along the minor arc of a circle of 25.00NM radius centred on  
28 09 52S 153 30 17E (YBCG/AD) to 28 34 55S 153 31 04E  
28 33 30S 153 30 00E, 28 26 30S 153 27 00E

**VERTICAL LIMITS:** SFC - 4500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D656D GOLD COAST  
 FLYING TRAINING**

**LATERAL LIMITS:** 28 36 09S 153 32 33E, 28 34 55S 153 31 04E  
 then along the minor arc of a circle of 25.00NM radius centred on  
 28 09 52S 153 30 17E (YBCG/AD) to 28 34 44S 153 33 48E  
 then along COAST 380 to 28 40 27S 153 36 55E  
 28 37 59S 153 33 24E, 28 36 09S 153 32 33E  
**VERTICAL LIMITS:** SFC - 4500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D658A AMBERLEY  
 MILITARY FLYING**

**LATERAL LIMITS:** 27 23 00S 154 28 52E, 27 13 12S 154 44 29E  
 27 46 28S 154 44 29E, 27 23 00S 154 28 52E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D658B AMBERLEY  
 MILITARY FLYING**

**LATERAL LIMITS:** 27 13 12S 154 44 29E, 26 33 23S 155 46 55E  
 26 15 50S 156 30 28E, 27 16 34S 157 31 03E  
 28 50 10S 156 37 53E, 27 46 28S 154 44 29E  
 27 13 12S 154 44 29E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D664 KINGARROY  
 FLYING TRAINING**

**LATERAL LIMITS:** 26 26 00S 151 41 00E, 26 22 00S 151 50 00E  
 26 30 00S 152 03 00E, 26 41 00S 152 01 00E  
 26 47 00S 151 46 00E, 26 43 00S 151 40 00E  
 26 26 00S 151 41 00E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D666 ARCHERFIELD  
 FLYING TRAINING**

**LATERAL LIMITS:** 27 33 43S 153 04 46E, 27 32 56S 153 14 50E  
 27 25 52S 153 23 37E,  
 then along the minor arc of a circle of 15.00NM radius centred on  
 27 23 03S 153 07 03E (YBBN/AD) to 27 37 09S 153 01 13E  
 then along the minor arc of a circle of 3.00NM radius centred on  
 27 34 13S 153 00 29E (YBAF/AD) to 27 35 41S 153 03 26E  
 27 33 43S 153 04 46E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D672 ARCHERFIELD  
 TRAINING AREA**

**LATERAL LIMITS:** 27 52 00S 153 10 16E, 27 45 20S 152 58 04E

then along THE RAILWAY 6 to 27 37 09S 153 01 13E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 27 23 03S 153 07 03E (YBBN/AD) to 27 36 48S 153 13 53E  
 27 43 08S 153 12 33E,  
 then along PACIFIC HWY 33 to 27 50 44S 153 18 13E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 27 52 00S 153 10 16E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D673 ARCHERFIELD  
 TRAINING AREA**

**LATERAL LIMITS:** 27 54 15S 152 50 50E, 27 46 40S 152 57 16E  
 then along THE RAILWAY 2 to 27 45 20S 152 58 04E  
 27 52 05S 153 10 25E, 28 10 00S 153 06 00E  
 28 10 00S 152 50 50E, 27 54 15S 152 50 50E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D675 ARCHERFIELD  
 TRAINING AREA**

**LATERAL LIMITS:** 27 43 08S 153 12 33E, 27 36 48S 153 13 53E  
 then along the minor arc of a circle of 15.00NM radius centred on  
 27 23 03S 153 07 03E (YBBN/AD) to 27 25 52S 153 23 37E  
 27 24 19S 153 26 07E,  
 then along COT OF NTH STRADBROKE IS to 27 47 26S 153 26 19E  
 then along the minor arc of a circle of 30.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 27 50 44S 153 18 13E  
 then along PACIFIC HWY 33 to 27 43 08S 153 12 33E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

**YBBB/D679A AMBERLEY  
 MILITARY FLYING**

**LATERAL LIMITS:** 28 52 13S 153 49 39E, 28 29 13S 153 57 39E  
 28 33 47S 154 09 20E, 29 13 21S 155 07 10E  
 30 28 10S 154 25 53E, 30 18 53S 153 29 32E  
 29 39 23S 153 37 34E,  
 then along the minor arc of a circle of 30.00NM radius centred on  
 29 11 51S 153 23 44E to 28 52 13S 153 49 39E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D679B AMBERLEY  
 MILITARY FLYING**

**LATERAL LIMITS:** 30 28 10S 154 25 53E, 29 13 21S 155 07 10E  
 29 48 16S 155 59 22E, 30 38 25S 155 31 25E  
 30 28 10S 154 25 53E

**VERTICAL LIMITS:** SFC - 5000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D688 MARYBOROUGH  
 FLYING TRAINING**

**LATERAL LIMITS:** 25 25 00S 152 39 00E, 25 26 30S 152 57 00E  
 25 40 30S 152 53 30E, 25 43 30S 152 33 30E  
 25 36 00S 152 35 00E, 25 25 00S 152 39 00E

**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D690 AMBERLEY  
 MILITARY FLYING**

**LATERAL LIMITS:** 30 43 33S 153 24 27E, 30 18 53S 153 29 32E  
 30 28 10S 154 25 53E, 30 38 25S 155 31 25E  
 31 01 44S 155 18 14E, 30 43 33S 153 24 27E  
**VERTICAL LIMITS:** SFC - FL125  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN AMBERLEY FLT

**YBBB/D691 BUNDABERG  
 FLYING TRAINING**

**LATERAL LIMITS:** 24 52 17S 152 21 38E, 24 45 33S 152 24 45E  
 then along COAST 34 to 25 11 00S 152 37 30E  
 25 14 30S 152 16 30E, 25 00 00S 151 57 30E  
 24 52 57S 152 16 07E,  
 then along the major arc of a circle of 3.00NM radius centred on  
 24 54 14S 152 19 07E (YBUD/AD) to 24 52 17S 152 21 38E  
**VERTICAL LIMITS:** SFC - 5000  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D706 ROCKHAMPTON  
 FLYING TRAINING**

**LATERAL LIMITS:** 23 37 30S 150 09 30E, 23 29 30S 150 08 00E  
 23 27 20S 150 23 15E, 23 31 00S 150 23 10E  
 23 34 50S 150 23 17E, 23 37 30S 150 09 30E  
**VERTICAL LIMITS:** SFC - 4500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D722 GLADSTONE  
 HEAT PLUME AVOIDANCE**

**LATERAL LIMITS:** A circle of 0.25NM radius centred on  
 23 47 40S 151 09 08E  
**VERTICAL LIMITS:** SFC - 2000  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Cement Australia

**YBBB/D731 ATHERTON  
 FIRING**

**LATERAL LIMITS:** 17 17 12S 145 25 47E, 17 15 49S 145 25 49E  
 17 16 03S 145 27 37E, 17 16 16S 145 28 03E  
 17 16 28S 145 28 03E, 17 16 46S 145 27 37E  
 17 17 12S 145 25 47E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** Army RCO Atherton

**YBBB/D744 TOWNSVILLE  
 MILITARY FLYING TRAINING**

**LATERAL LIMITS:** 18 14 16S 144 56 05E, 18 18 00S 145 12 30E  
 18 31 34S 145 35 03E, 19 16 17S 146 20 43E  
 then along KEELBOTTOM CRK 1 to 19 22 30S 146 21 20E  
 19 24 45S 146 25 00E,

then along HERVEY RANGE DEVELOPEMENT RD to 19 29 41S 146  
 19 58E  
 then along KEELBOTTOM CK to 19 34 33S 146 20 45E  
 19 36 35S 146 24 00E, 19 39 00S 146 38 00E  
 19 52 00S 146 37 00E, 20 11 58S 144 53 36E  
 then along the minor arc of a circle of 120.00NM radius centred on  
 19 14 39S 146 45 30E (TL/DME) to 18 14 16S 144 56 05E

**VERTICAL LIMITS:** SFC - 7000  
**HOURS OF ACTIVITY:** NOTAM  
**CONTACT:** FLTCDR 452SQN TOWNSVILLE FLT

**YBBB/D745 MACKAY  
 FLYING TRAINING**

**LATERAL LIMITS:** 21 08 51S 148 57 21E, 21 08 58S 148 57 30E  
 then along THE RAILWAY 7 to 21 09 35S 149 03 38E  
 21 10 00S 149 03 10E,  
 then along PEAK DOWNS HWY to 21 16 01S 148 58 14E  
 then along ELTON/WALKERSTON RD to 21 13 40S 148 49 02E  
 then along PIONEER RIVER 1 to 21 08 51S 148 57 21E  
**VERTICAL LIMITS:** SFC - 4000  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D762 CAIRNS  
 PARACHUTING ACTIVITY**

**LATERAL LIMITS:** 17 02 54S 145 44 42E, 17 01 02S 145 44 06E  
 then along the minor arc of a circle of 1.00NM radius centred on  
 17 00 44S 145 45 06E (THSM/TSP) to 16 59 45S 145 45 16E  
 16 59 52S 145 45 58E,  
 then along the minor arc of a circle of 1.00NM radius centred on  
 17 00 51S 145 45 48E (HVTG/TSP) to 17 00 55S 145 46 51E  
 17 02 53S 145 46 42E,  
 then along the minor arc of a circle of 1.00NM radius centred on  
 17 02 35S 145 45 42E to 17 02 54S 145 44 42E  
**VERTICAL LIMITS:** SFC - 3500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** Airservices Australia Cairns

**YBBB/D764 TOWNSVILLE  
 FLYING TRAINING**

**LATERAL LIMITS:** 19 08 30S 146 24 42E, 19 04 36S 146 28 12E  
 19 10 12S 146 37 30E, 19 17 06S 146 32 24E  
 19 15 48S 146 25 36E, 19 08 30S 146 24 42E  
**VERTICAL LIMITS:** SFC - 2500  
**HOURS OF ACTIVITY:** HJ  
**CONTACT:** CASA OAR

**YBBB/D765 TOWNSVILLE  
 BLASTING**

**LATERAL LIMITS:** A circle of 1.00NM radius centred on  
 19 16 02S 146 41 29E  
**VERTICAL LIMITS:** SFC - 500  
**HOURS OF ACTIVITY:** H24  
**CONTACT:** Bohle Quarry

**YBBB/D769A CAIRNS  
 FLYING TRAINING**

**LATERAL LIMITS:** 17 00 20S 145 52 33E, 16 56 59S 145 51 42E  
 then along the minor arc of a circle of 7.00NM radius centred on  
 16 53 32S 145 45 20E to 16 54 32S 145 52 34E  
 then along COAST 66 to 16 53 33S 145 56 53E  
 then along the minor arc of a circle of 12.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 00 20S 145 52 33E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D769B CAIRNS

#### FLYING TRAINING

**LATERAL LIMITS:** 17 03 15S 145 53 18E, 17 00 20S 145 52 33E

then along the minor arc of a circle of 12.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 16 53 33S 145 56 53E

then along THE COAST 1 to 16 53 51S 145 57 25E

16 55 55S 146 00 05E, 17 00 53S 146 00 22E

then along the minor arc of a circle of 18.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 06 00S 145 55 07E

then along THE COAST 5 to 17 03 15S 145 53 18E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D770A WANGETTI

#### FIRING

**LATERAL LIMITS:** 16 43 27S 145 33 41E, 16 40 46S 145 33 42E

16 40 45S 145 34 22E, 16 41 41S 145 34 56E

16 43 05S 145 35 09E, 16 43 30S 145 34 45E

16 43 27S 145 33 41E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** MON 0800 - 1600

WED 0800 - 1600

FRI-SUN 0800 - 1600

EXPH

OT by NOTAM

**CONTACT:** Army RCO Wangetti

### YBBB/D770B WANGETTI

#### FIRING

**LATERAL LIMITS:** 16 43 27S 145 33 41E, 16 40 46S 145 33 42E

16 40 45S 145 34 22E, 16 41 41S 145 34 56E

16 43 05S 145 35 09E, 16 43 30S 145 34 45E

16 43 27S 145 33 41E

**VERTICAL LIMITS:** 1500 - 3000

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Army RCO Wangetti

### YBBB/D771A CAIRNS

#### FLYING TRAINING

**LATERAL LIMITS:** 17 02 53S 145 46 42E, 17 00 55S 145 46 51E

then along the minor arc of a circle of 1.00NM radius centred on

17 00 51S 145 45 48E (HVTG/TSP) to 17 00 26S 145 46 45E

then along the minor arc of a circle of 7.00NM radius centred on

16 53 32S 145 45 20E to 16 56 59S 145 51 42E

17 00 20S 145 52 33E,

then along the minor arc of a circle of 12.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 02 53S 145 46 42E

**VERTICAL LIMITS:** SFC - 1500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D771B CAIRNS

#### FLYING TRAINING

**LATERAL LIMITS:** 17 08 40S 145 48 37E, 17 06 02S 145 46 38E

then along BRUCE HWY 1 to 17 03 34S 145 45 56E

then along the minor arc of a circle of 1.00NM radius centred on

17 02 35S 145 45 42E to 17 02 53S 145 46 42E

then along the minor arc of a circle of 12.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 00 20S 145 52 33E

17 03 15S 145 53 18E,

then along THE COAST 5 to 17 06 00S 145 55 07E

then along the minor arc of a circle of 18.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 08 40S 145 48 37E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D771C CAIRNS

#### FLYING TRAINING

**LATERAL LIMITS:** 17 12 04S 145 51 31E, 17 08 40S 145 48 37E

then along the minor arc of a circle of 18.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 00 53S 146 00 22E

17 06 47S 146 00 43E,

then along the minor arc of a circle of 22.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 12 04S 145 51 31E

**VERTICAL LIMITS:** SFC - 3500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D771D CAIRNS

#### FLYING TRAINING

**LATERAL LIMITS:** 17 16 02S 145 54 54E, 17 12 04S 145 51 31E

then along the minor arc of a circle of 22.00NM radius centred on

16 51 01S 145 44 38E (CS/DME) to 17 06 47S 146 00 43E

17 09 29S 146 00 52E, 17 16 02S 146 02 07E

17 16 02S 145 54 54E

**VERTICAL LIMITS:** SFC - 4500

**HOURS OF ACTIVITY:** HJ

**CONTACT:** CASA OAR

### YBBB/D779 CAPE CLEVELAND

#### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 19 18 12S 146 55 28E, 19 11 04S 147 00 54E

then along TL COT V1.0 to 19 22 20S 147 05 40E

then along the minor arc of a circle of 20.00NM radius centred on

19 15 09S 146 45 55E (YBTL/AD) to 19 24 38S 147 04 34E

19 22 06S 147 02 30E, 19 18 12S 146 55 28E

**VERTICAL LIMITS:** SFC - 2500

**HOURS OF ACTIVITY:** D 2000-1400 EXPH

OT by NOTAM

**CONTACT:** Army RCO Cape Cleveland

### YBBB/D812 YAMPI SOUND

#### FIRING

**LATERAL LIMITS:** 16 31 00S 123 30 00E, 16 31 00S 124 51 00E

17 00 00S 124 51 00E, 17 00 00S 123 50 00E

16 40 00S 123 30 00E, 16 31 00S 123 30 00E

**VERTICAL LIMITS:** SFC - NOTAM

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** DOTAM WA

### YBBB/D813 CURTIN

#### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 17 10 15S 123 52 15E, 16 20 06S 123 54 41E

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E

17 48 57S 124 13 06E,

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 10 15S 123 52 15E

**VERTICAL LIMITS:** SFC - 5500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D814 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 17 48 57S 124 13 06E, 18 15 53S 124 57 23E

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E

17 58 28S 123 40 58E,

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 48 57S 124 13 06E

**VERTICAL LIMITS:** SFC - 5500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D815 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 17 58 28S 123 40 58E, 18 44 45S 123 20 36E

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E

17 34 12S 123 24 58E,

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 58 28S 123 40 58E

**VERTICAL LIMITS:** SFC - 5500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D816 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 17 34 12S 123 24 58E, 17 31 38S 122 32 42E

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

17 10 15S 123 52 15E,

then along the minor arc of a circle of 25.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 34 12S 123 24 58E

**VERTICAL LIMITS:** SFC - 5500

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D817 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 16 20 06S 123 54 41E, 15 04 52S 123 58 17E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 55 58S 126 04 13E

18 15 53S 124 57 23E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 16 20 06S 123 54 41E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D818 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 18 15 53S 124 57 23E, 18 55 58S 126 04 13E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 19 54 05S 122 49 43E

18 44 45S 123 20 36E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 15 53S 124 57 23E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D819 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 18 44 45S 123 20 36E, 19 54 05S 122 49 43E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 27 20S 121 14 21E

17 31 38S 122 32 42E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 18 44 45S 123 20 36E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

#### YBBB/D820 CURTIN

##### MILITARY FLYING TRAINING

**LATERAL LIMITS:** 17 31 38S 122 32 42E, 17 27 20S 121 14 21E

then along the minor arc of a circle of 150.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 15 04 52S 123 58 17E

16 20 06S 123 54 41E,

then along the minor arc of a circle of 75.00NM radius centred on

17 35 20S 123 51 07E (CIN/VOR) to 17 31 38S 122 32 42E

**VERTICAL LIMITS:** SFC - FL125

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** FLTCDR 452SQN DARWIN FLT

## SECTION 14 – HF FREQUENCY AREA BOUNDARIES

### YBBB-YMMM/INO-1 MWARA

**LATERAL LIMITS:** 06 00 00S 075 00 00E, 02 00 00S 078 00 00E  
 02 00 00S 092 00 00E, 12 00 00S 107 00 00E  
 12 00 00S 110 00 00E, 12 00 00S 123 20 00E  
 12 23 26S 126 23 03E, 17 37 11S 118 45 34E  
 19 00 00S 115 00 00E, 19 30 36S 113 31 23E  
 21 50 00S 111 30 00E, 31 15 48S 112 56 25E  
 then along the minor arc of a circle of 160.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 34 11 13S 114 13 59E  
 36 25 00S 116 40 00E, 36 43 12S 120 00 00E  
 37 10 38S 125 04 54E, 42 21 00S 141 00 00E  
 43 43 48S 145 51 48E, 43 31 15S 149 21 30E  
 43 51 03S 150 39 53E, 44 33 57S 150 00 00E  
 45 00 00S 150 00 00E, 45 00 00S 163 00 00E  
 90 00 00S 135 00 00E, 06 00 00S 075 00 00E  
 NOTES: 3476, 5634, 8879, 13306, 17961

### YBBB-YMMM/NORTH EASTERN HF

**LATERAL LIMITS:** 09 50 00S 140 00 00E, 15 00 00S 140 00 00E  
 14 56 29S 138 52 36E, 15 08 36S 138 20 42E  
 15 42 12S 137 12 54E, 17 20 18S 137 09 18E  
 19 01 14S 137 40 20E, 20 43 56S 136 14 02E  
 21 29 59S 136 19 44E, 21 51 32S 136 22 25E  
 22 17 51S 136 38 07E, 26 13 31S 138 23 24E  
 29 00 00S 143 30 00E, 29 00 00S 146 32 00E  
 32 05 40S 148 49 51E, 33 25 34S 150 31 41E  
 then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 33 30 06S 151 54 31E  
 32 53 01S 152 26 31E, 30 40 20S 153 31 46E  
 29 49 13S 153 42 58E,  
 then along the minor arc of a circle of 150.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 24 59 04S 154 00 31E  
 23 13 18S 153 14 30E, 22 15 21S 152 02 50E  
 18 40 27S 151 00 35E, 16 09 59S 151 06 21E  
 12 00 00S 148 34 24E, 12 00 00S 144 00 00E  
 11 43 30S 144 04 20E, 11 30 00S 144 01 36E  
 then along the Barrier Reef to 09 56 34S 144 05 21E  
 09 24 00S 144 14 00E, 09 08 00S 143 52 30E  
 09 19 24S 142 48 18E,  
 then along QLD/PNG border to 09 15 42S 142 03 30E  
 09 37 00S 141 01 06E, 09 50 00S 141 00 00E  
 09 50 00S 140 00 00E  
 NOTES: 3452, 6610, 8831

### YBBB-YMMM/NORTH WESTERN HF

**LATERAL LIMITS:** 17 37 11S 118 45 34E, 10 20 53S 129 11 21E  
 then along the minor arc of a circle of 160.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 09 50 00S 131 35 58E  
 09 50 00S 140 00 00E, 15 00 00S 140 00 00E  
 14 56 29S 138 52 36E, 15 08 36S 138 20 42E  
 15 42 12S 137 12 54E, 17 20 18S 137 09 18E  
 19 01 14S 137 40 20E, 20 43 56S 136 14 02E  
 21 29 59S 136 19 44E, 21 12 09S 131 50 24E  
 23 13 13S 128 27 49E, 23 23 49S 126 03 32E  
 21 31 19S 124 33 04E, 20 03 18S 121 40 22E  
 19 00 00S 120 15 00E, 17 37 11S 118 45 34E  
 NOTES: 3452, 6541, 8843

### YBBB/SEA-3 MWARA (1)

**LATERAL LIMITS:** 12 00 00S 123 20 00E, 12 23 26S 126 23 03E

10 20 53S 129 11 21E,  
 then along the minor arc of a circle of 160.00NM radius centred on  
 12 25 24S 130 54 23E (DN/DME) to 09 50 00S 131 35 58E  
 09 50 00S 139 40 00E, 07 00 00S 135 00 00E  
 09 20 00S 126 50 00E, 12 00 00S 123 20 00E  
 NOTES: 3470, 6556, 11396, 13318, 17907

### YBBB/SEA-3 MWARA (2)

**LATERAL LIMITS:** 12 00 00S 148 34 24E, 16 09 59S 151 06 21E  
 18 40 27S 151 00 35E, 22 15 21S 152 02 50E  
 23 13 18S 153 14 30E, 24 49 40S 153 56 22E  
 21 22 50S 163 00 00E, 17 40 00S 163 00 00E  
 14 00 00S 161 15 00E, 14 00 00S 155 00 00E  
 12 00 00S 155 00 00E, 12 00 00S 148 34 24E  
 NOTES: 3470, 6556, 11396, 13318, 17907

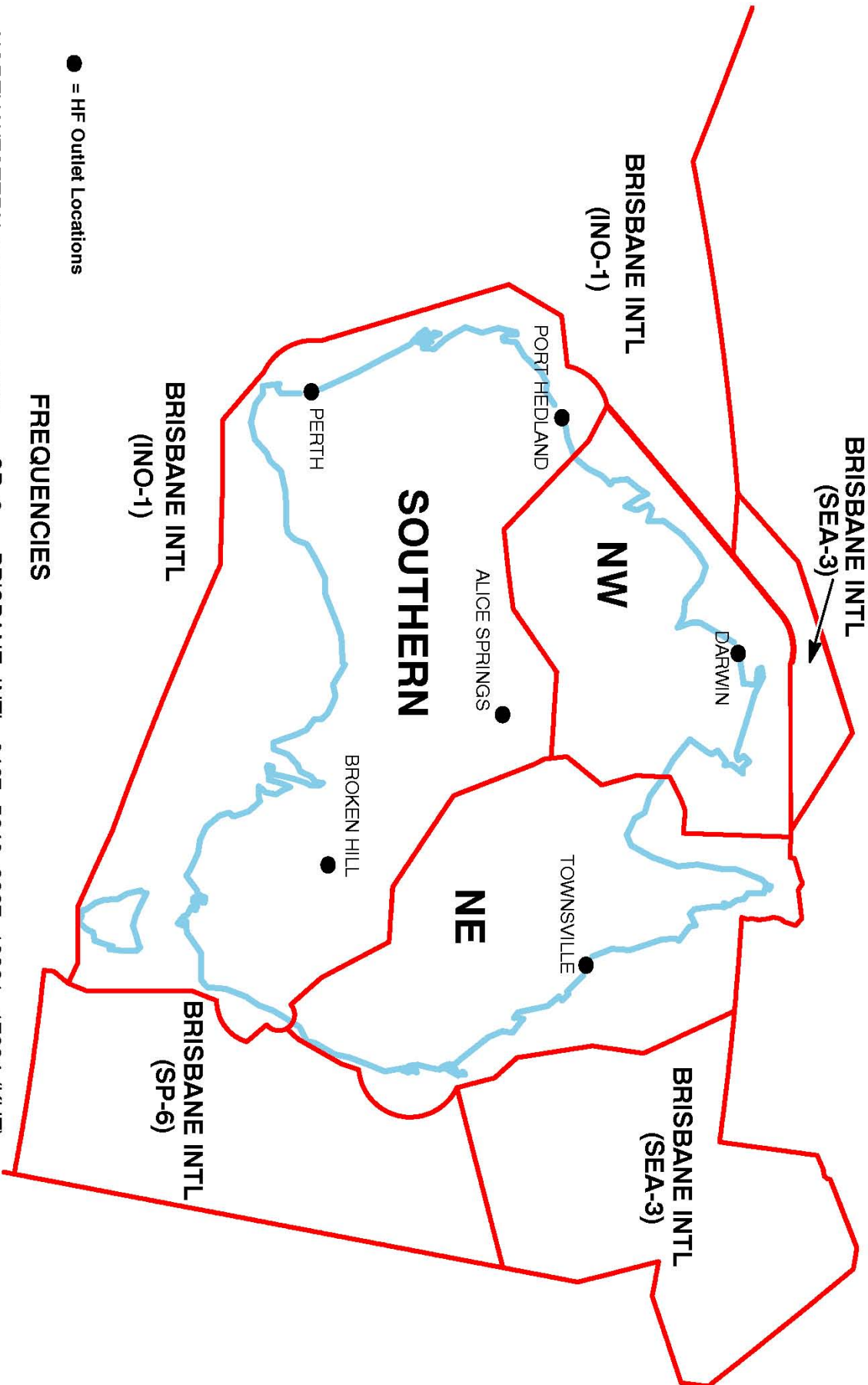
### YBBB-YMMM/SOUTHERN HF

**LATERAL LIMITS:** 21 50 00S 111 30 00E, 19 30 36S 113 31 23E  
 18 47 59S 115 33 44E, 17 37 11S 118 45 34E  
 19 00 00S 120 15 00E, 20 03 18S 121 40 22E  
 21 31 19S 124 33 04E, 23 23 49S 126 03 32E  
 23 13 13S 128 27 49E, 21 12 09S 131 50 24E  
 21 29 59S 136 19 44E, 21 51 32S 136 22 25E  
 22 17 51S 136 38 07E, 26 13 31S 138 23 24E  
 29 00 00S 143 30 00E, 29 00 00S 146 32 00E  
 32 05 40S 148 49 51E, 33 25 34S 150 31 41E  
 then along the major arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
 35 18 59S 152 55 50E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
 38 11 19S 150 19 14E, 43 00 00S 151 00 00E  
 43 51 03S 150 39 53E, 43 31 15S 149 21 30E  
 43 43 48S 145 51 48E, 42 21 00S 141 00 00E  
 40 44 46S 135 00 00E, 38 43 55S 129 00 00E  
 37 10 38S 125 04 54E, 36 43 12S 120 00 00E  
 36 25 00S 116 40 00E, 34 11 13S 114 13 59E  
 then along the minor arc of a circle of 160.00NM radius centred on  
 31 56 42S 115 57 34E (PH/DME) to 31 15 48S 112 56 25E  
 21 50 00S 111 30 00E  
 NOTES: 3461, 6565, 8822

### YBBB-YMMM/SP-6 MWARA

**LATERAL LIMITS:** 44 33 57S 150 00 00E, 45 00 00S 150 00 00E  
 45 00 00S 163 00 00E, 21 22 50S 163 00 00E  
 24 49 40S 153 56 22E, 24 59 04S 154 00 31E  
 then along the minor arc of a circle of 150.00NM radius centred on  
 27 21 57S 153 08 21E (BN/DME) to 29 49 13S 153 42 58E  
 30 40 20S 153 31 46E, 32 53 01S 152 26 31E  
 33 30 06S 151 54 31E,  
 then along the minor arc of a circle of 45.00NM radius centred on  
 33 56 34S 151 10 51E (SY/DME) to 34 28 18S 151 49 23E  
 35 18 59S 152 55 50E,  
 then along the minor arc of a circle of 120.00NM radius centred on  
 34 57 00S 150 32 00E (NWA/TAC) to 36 56 43S 150 45 03E  
 38 11 19S 150 19 14E, 43 00 00S 151 00 00E  
 43 51 03S 150 39 53E, 44 33 57S 150 00 00E  
 NOTES: 3467, 5643, 8867, 13261, 17904

**HF FREQUENCY AREA BOUNDARIES DIAGRAM**



● = HF Outlet Locations

**FREQUENCIES**

NORTH WESTERN	3452	6541	8843	SP-6	BRISBANE INTL	3467	5643	8867	13261	17904	(KHZ)
NORTH EASTERN	3452	6610	8831	SEA-3	BRISBANE INTL	3470	6556	11396	13318	17907	(KHZ)
SOUTHERN	3461	6565	8822	INO-1	BRISBANE INTL	3476	5634	8879	13306	17961	(KHZ)



## SECTION 15 – ARFOR & AREA QNH ZONE BOUNDARIES

No ARFOR associated with Areas 24,87,88. These areas are AREA QNH Zones only.

### YBBB-YMMM/AREA20

**LATERAL LIMITS:** 32 45 00S 148 23 00E, 29 00 00S 150 00 00E  
28 49 49S 153 15 36E, 28 50 00S 155 00 00E  
34 20 00S 152 40 00E, 33 56 46S 151 10 38E  
33 55 28S 150 59 18E, 33 24 34S 149 39 07E  
32 45 00S 148 23 00E

### YBBB-YMMM/AREA21

**LATERAL LIMITS:** 35 10 00S 147 28 00E, 32 45 00S 148 23 00E  
33 24 34S 149 39 07E, 33 55 28S 150 59 18E  
33 56 46S 151 10 38E, 34 20 00S 152 40 00E  
37 30 00S 151 00 00E, 37 30 00S 150 00 00E  
35 10 00S 147 28 00E

### YBBB-YMMM/AREA22

**LATERAL LIMITS:** 29 00 00S 142 00 00E, 29 00 00S 150 00 00E  
32 45 00S 148 23 00E, 35 10 00S 147 28 00E  
34 13 45S 142 05 08E, 29 00 00S 142 00 00E

### YBBB/AREA24

**LATERAL LIMITS:** 34 20 00S 152 40 00E, 28 50 00S 155 00 00E  
28 30 00S 163 00 00E, 31 20 00S 163 00 00E  
34 20 00S 152 40 00E

### YMMM/AREA30

**LATERAL LIMITS:** 33 45 00S 140 45 00E, 34 13 45S 142 05 08E  
35 10 00S 147 28 00E, 37 30 00S 150 00 00E  
37 50 00S 148 00 00E, 39 00 00S 146 20 00E  
38 30 00S 145 00 00E, 37 50 00S 145 00 00E  
38 50 00S 143 30 00E, 38 11 11S 140 45 00E  
33 45 00S 140 45 00E

### YBBB-YMMM/AREA32

**LATERAL LIMITS:** 38 11 11S 140 45 00E, 38 50 00S 143 30 00E  
37 50 00S 145 00 00E, 38 30 00S 145 00 00E  
39 00 00S 146 20 00E, 37 50 00S 148 00 00E  
37 30 00S 150 00 00E, 37 30 00S 151 00 00E  
40 00 00S 150 00 00E, 40 06 00S 147 59 00E  
39 53 00S 143 53 00E, 40 00 00S 143 00 00E  
40 00 00S 140 45 00E, 38 11 11S 140 45 00E

### YBBB/AREA40

**LATERAL LIMITS:** 23 34 00S 148 11 00E, 23 09 22S 152 51 52E  
28 50 00S 155 00 00E, 28 49 49S 153 15 36E  
29 00 00S 150 00 00E, 23 34 00S 148 11 00E

### YBBB-YMMM/AREA41

**LATERAL LIMITS:** 26 00 00S 138 00 00E, 23 26 00S 144 17 00E  
23 34 00S 148 11 00E, 29 00 00S 150 00 00E  
29 00 00S 142 00 00E, 28 05 58S 140 11 49E  
26 00 00S 138 00 00E

### YBBB-YMMM/AREA43

**LATERAL LIMITS:** 18 00 00S 138 00 00E, 18 18 00S 143 32 00E  
23 34 00S 148 11 00E, 23 26 00S 144 17 00E  
26 00 00S 138 00 00E, 18 00 00S 138 00 00E

### YBBB/AREA44

**LATERAL LIMITS:** 18 18 00S 143 32 00E, 18 17 00S 148 00 00E  
23 09 22S 152 51 52E, 23 34 00S 148 11 00E  
18 18 00S 143 32 00E

### YBBB/AREA45

**LATERAL LIMITS:** 14 00 00S 138 00 00E, 10 00 00S 141 00 00E  
09 00 00S 142 00 00E, 09 00 00S 144 00 00E  
13 00 00S 145 00 00E, 15 00 00S 147 00 00E  
18 17 00S 148 00 00E, 18 18 00S 143 32 00E  
18 00 00S 138 00 00E, 14 00 00S 138 00 00E

### YMMM/AREA50

**LATERAL LIMITS:** 35 30 00S 134 30 00E, 32 30 00S 137 43 00E  
33 45 00S 140 45 00E, 40 00 00S 140 45 00E  
35 30 00S 134 30 00E

### YMMM/AREA51

**LATERAL LIMITS:** 30 00 00S 135 00 00E, 29 00 00S 142 00 00E  
34 13 45S 142 05 08E, 33 45 00S 140 45 00E  
32 30 00S 137 43 00E, 30 00 00S 135 00 00E

### YMMM/AREA52

**LATERAL LIMITS:** 27 15 00S 128 30 00E, 27 00 00S 135 00 00E  
26 00 00S 138 00 00E, 28 05 58S 140 11 49E  
29 00 00S 142 00 00E, 30 00 00S 135 00 00E  
30 00 00S 129 00 00E, 27 15 00S 128 30 00E

### YMMM/AREA53

**LATERAL LIMITS:** 30 00 00S 129 00 00E, 30 00 00S 135 00 00E  
32 30 00S 137 43 00E, 35 30 00S 134 30 00E  
32 30 00S 131 00 00E, 33 00 00S 129 00 00E  
30 00 00S 129 00 00E

### YMMM/AREA60

**LATERAL LIMITS:** 27 30 00S 112 30 00E, 27 30 00S 118 00 00E  
32 15 00S 119 00 00E, 33 30 00S 113 30 00E  
27 30 00S 112 30 00E

### YMMM/AREA61

**LATERAL LIMITS:** 32 15 00S 119 00 00E, 27 30 00S 118 00 00E  
27 30 00S 123 30 00E, 30 50 24S 123 37 06E  
32 15 00S 119 00 00E

### YMMM/AREA62

**LATERAL LIMITS:** 30 50 24S 123 37 06E, 30 00 00S 129 00 00E

33 00 00S 129 00 00E, 35 00 00S 123 30 00E  
30 50 24S 123 37 06E

**YMMM/AREA63**

**LATERAL LIMITS:** 33 30 00S 113 30 00E, 32 15 00S 119 00 00E  
30 50 24S 123 37 06E, 35 00 00S 123 30 00E  
36 15 00S 116 00 00E, 33 30 00S 113 30 00E

**YMMM/AREA64**

**LATERAL LIMITS:** 25 00 00S 123 30 00E, 25 00 00S 128 15 00E  
27 15 00S 128 30 00E, 30 00 00S 129 00 00E  
30 50 24S 123 37 06E, 27 30 00S 123 30 00E  
25 00 00S 123 30 00E

**YMMM/AREA65**

**LATERAL LIMITS:** 23 00 00S 112 00 00E, 23 00 00S 115 30 00E  
27 30 00S 118 00 00E, 27 30 00S 112 30 00E  
23 00 00S 112 00 00E

**YBBB-YMMM/AREA66**

**LATERAL LIMITS:** 23 00 00S 115 30 00E, 20 30 00S 123 30 00E  
27 30 00S 123 30 00E, 27 30 00S 118 00 00E  
23 00 00S 115 30 00E

**YBBB-YMMM/AREA68**

**LATERAL LIMITS:** 23 00 00S 112 00 00E, 21 00 00S 113 00 00E  
18 00 00S 117 00 00E, 18 00 00S 120 00 00E  
20 30 00S 123 30 00E, 23 00 00S 115 30 00E  
23 00 00S 112 00 00E

**YBBB-YMMM/AREA69**

**LATERAL LIMITS:** 18 00 00S 117 00 00E, 14 00 00S 124 00 00E  
13 45 06S 126 08 53E, 14 00 00S 127 30 00E  
14 50 00S 128 25 00E, 15 28 00S 128 06 00E  
16 00 00S 129 15 00E, 20 00 00S 129 00 00E  
20 30 00S 123 30 00E, 18 00 00S 120 00 00E  
18 00 00S 117 00 00E

**YMMM/AREA70**

**LATERAL LIMITS:** 40 00 00S 143 00 00E, 39 53 00S 143 53 00E  
40 06 00S 147 59 00E, 40 00 00S 150 00 00E

43 00 00S 149 00 00E, 44 30 00S 147 30 00E  
44 00 00S 145 00 00E, 40 00 00S 143 00 00E

**YBBB/AREA80**

**LATERAL LIMITS:** 15 28 00S 128 06 00E, 14 50 00S 128 25 00E  
10 00 00S 130 00 00E, 10 00 00S 141 00 00E  
14 00 00S 138 00 00E, 18 00 00S 138 00 00E  
16 00 00S 129 15 00E, 15 28 00S 128 06 00E

**YBBB-YMMM/AREA83**

**LATERAL LIMITS:** 20 30 00S 123 30 00E, 20 00 00S 129 00 00E  
22 15 00S 128 45 00E, 25 00 00S 128 15 00E  
25 00 00S 123 30 00E, 20 30 00S 123 30 00E

**YBBB-YMMM/AREA84**

**LATERAL LIMITS:** 22 15 00S 128 45 00E, 20 00 00S 129 00 00E  
16 00 00S 129 15 00E, 18 00 00S 138 00 00E  
22 15 00S 138 00 00E, 22 15 00S 128 45 00E

**YBBB-YMMM/AREA85**

**LATERAL LIMITS:** 25 00 00S 128 15 00E, 22 15 00S 128 45 00E  
22 15 00S 138 00 00E, 26 00 00S 138 00 00E  
27 00 00S 135 00 00E, 27 15 00S 128 30 00E  
25 00 00S 128 15 00E

**YBBB/AREA86**

**LATERAL LIMITS:** 14 00 00S 124 00 00E, 10 00 00S 125 00 00E  
10 00 00S 130 00 00E, 14 50 00S 128 25 00E  
14 00 00S 127 30 00E, 13 45 06S 126 08 53E  
14 00 00S 124 00 00E

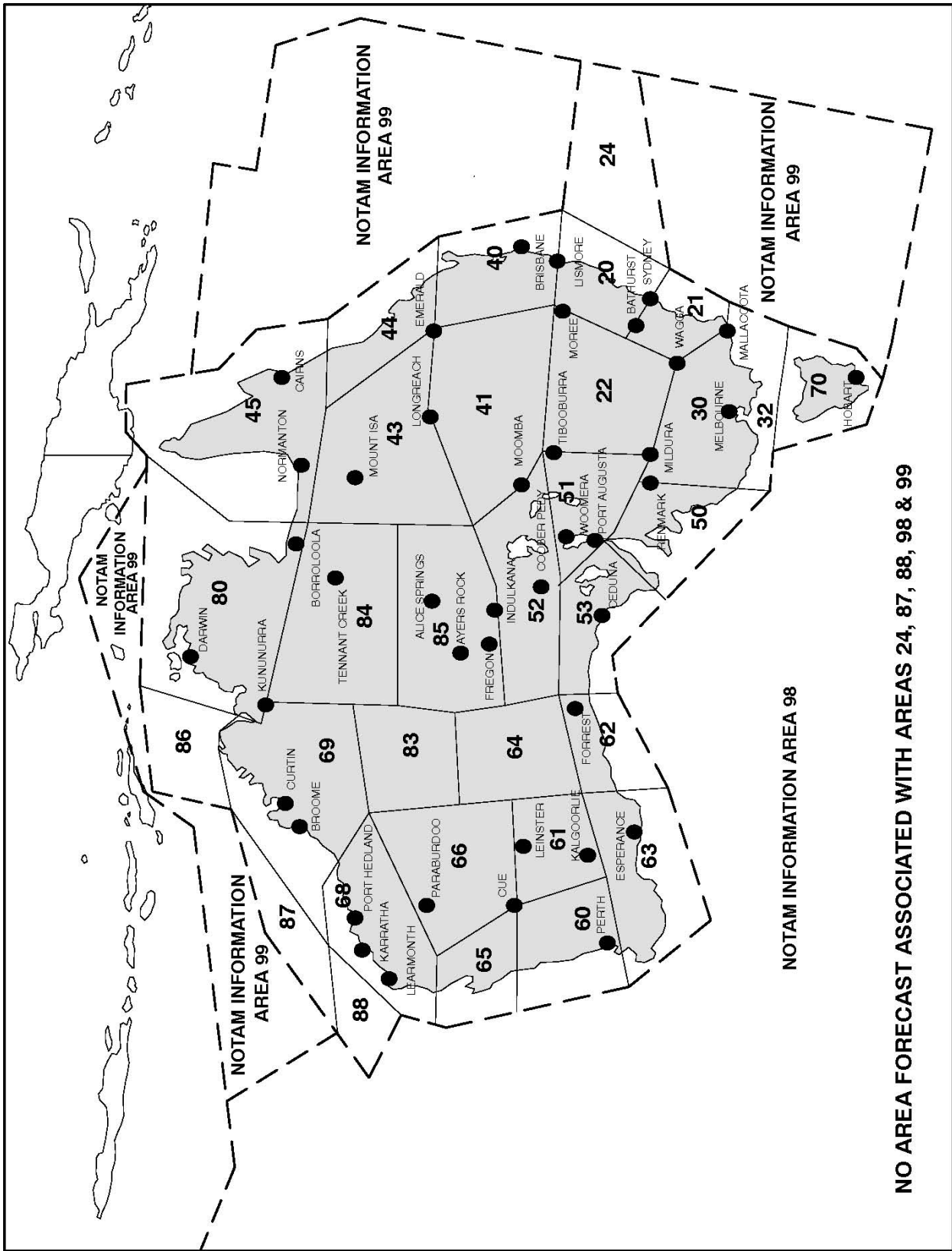
**YBBB-YMMM/AREA87**

**LATERAL LIMITS:** 18 00 00S 112 00 00E, 15 00 00S 118 00 00E  
14 00 00S 124 00 00E, 18 00 00S 117 00 00E  
18 00 00S 112 00 00E

**YMMM/AREA88**

**LATERAL LIMITS:** 19 00 00S 110 00 00E, 18 00 00S 112 00 00E  
18 00 00S 117 00 00E, 21 00 00S 113 00 00E  
19 00 00S 110 00 00E

AREA FORECAST & AQZ BOUNDARIES MAP



**NOTES**

## SECTION 16 - CERTIFIED OR REGISTERED AERODROMES

AERODROME	STATE	IDENT	LOCATION	AERODROME	STATE	IDENT	LOCATION
ADELAIDE	SA	YPAD	34 56 42S 138 31 50E	COEN	QLD	YCOE	13 45 43S 143 07 00E
ALBANY	WA	YABA	34 56 36S 117 48 32E	COFFS HARBOUR	NSW	YCFS	30 19 14S 153 06 59E
ALBURY	NSW	YMAY	36 04 04S 146 57 29E	CONDOBOLIN	NSW	YCDO	33 03 52S 147 12 33E
ALICE SPRINGS	NT	YBAS	23 48 30S 133 54 03E	COOBER PEDY	SA	YCBP	29 02 24S 134 43 15E
ALPHA	QLD	YAPH	23 38 46S 146 35 01E	COOKTOWN	QLD	YCKN	15 26 41S 145 11 04E
AMBERLEY	QLD	YAMB	27 38 26S 152 42 43E	COOLAH	NSW	YCAH	31 46 24S 149 36 34E
ARARAT	VIC	YARA	37 18 34S 142 59 19E	COOMA	NSW	YCOM	36 18 02S 148 58 26E
ARCHERFIELD	QLD	YBAF	27 34 13S 153 00 29E	COONABARABRAN	NSW	YCBB	31 19 57S 149 16 02E
ARGYLE	WA	YARG	16 38 13S 128 27 05E	COONAMBLE	NSW	YCNM	30 59 00S 148 22 32E
ARMIDALE	NSW	YARM	30 31 41S 151 37 02E	COONDEWANNA	WA	YCWA	22 58 00S 118 48 48E
AURUKUN	QLD	YAUR	13 21 14S 141 43 15E	COOTAMUNDRA	NSW	YCTM	34 37 28S 148 02 09E
AVALON	VIC	YMAV	38 02 22S 144 28 10E	COROWA	NSW	YCOR	35 59 25S 146 21 05E
AYERS ROCK	NT	YAYE	25 11 10S 130 58 32E	CORRYONG	VIC	YCRG	36 10 58S 147 53 16E
BAIRNSDALE	VIC	YBNS	37 53 15S 147 34 04E	COWELL	SA	YCWL	33 40 02S 136 53 30E
BALGO HILL	WA	YBGO	20 08 54S 127 58 26E	COWRA	NSW	YCWR	33 50 41S 148 38 56E
BALLARAT	VIC	YBLT	37 30 42S 143 47 28E	CROKER ISLAND	NT	YCKI	11 09 55S 132 29 02E
BALLERA	QLD	YLLE	27 24 30S 141 48 30E	CUNDERDIN	WA	YCUN	31 37 20S 117 13 00E
BALLINA/BYRON GATEWAY				CUNNAMULLA	QLD	YCMU	28 01 48S 145 37 20E
	NSW	YBNA	28 50 02S 153 33 45E	CURTIN	WA	YGIN	17 34 53S 123 49 42E
BALRANALD	NSW	YBRN	34 37 25S 143 34 42E	DARLOT	WA	YDLO	27 52 25S 121 16 18E
BANKSTOWN	NSW	YSBK	33 55 28S 150 59 18E	DARWIN	NT	YPDN	12 24 53S 130 52 36E
BARCALDINE	QLD	YBAR	23 33 55S 145 18 24E	DELAMERE RANGE FACILITY			
BARIMUNYA	WA	YBRY	22 40 26S 119 09 58E		NT	YDWF	15 44 49S 131 55 10E
BARROW ISLAND	WA	YBWX	20 51 57S 115 24 17E	DENILIQUIN	NSW	YDLQ	35 33 34S 144 56 47E
BATHURST	NSW	YBTH	33 24 34S 149 39 07E	DERBY	WA	YDBY	17 22 12S 123 39 38E
BATHURST ISLAND				DEVONPORT	TAS	YDPO	41 10 11S 146 25 49E
	NT	YBTI	11 46 09S 130 37 11E	DIRRANBANDI	QLD	YDBI	28 35 30S 148 13 00E
BEDOURIE	QLD	YBIE	24 20 46S 139 27 37E	DOCHRA	NSW	YDOC	32 39 02S 151 12 29E
BELLEVUE	WA	YBLU	27 36 46S 120 35 38E	DONALD	VIC	YDOD	36 21 37S 143 00 27E
BENALLA	VIC	YBLA	36 33 15S 146 00 33E	DOOMADGEE	QLD	YDMG	17 56 25S 138 49 18E
BENDIGO	VIC	YBDG	36 44 22S 144 19 47E	DUBBO	NSW	YSDU	32 13 00S 148 34 29E
BIRCHIP	VIC	YBIR	35 59 59S 142 55 03E	DYSART	QLD	YDYS	22 37 20S 148 21 50E
BIRDSVILLE	QLD	YBDV	25 53 51S 139 20 51E	EAST SALE	VIC	YMES	38 05 56S 147 08 58E
BLACKALL	QLD	YBCK	24 25 40S 145 25 43E	ECHUCA	VIC	YECH	36 09 26S 144 45 43E
BLACKWATER	QLD	YBTR	23 36 11S 148 48 25E	EDINBURGH	SA	YPED	34 42 09S 138 37 15E
BOOLGEEDA	WA	YBGD	22 32 22S 117 16 29E	ELCHO ISLAND	NT	YELD	12 01 10S 135 34 14E
BOULIA	QLD	YBOU	22 54 48S 139 53 59E	ELROSE	QLD	YESE	20 58 38S 141 00 26E
BOURKE	NSW	YBKE	30 02 21S 145 57 06E	EMERALD	QLD	YEML	23 34 03S 148 10 45E
BOWEN	QLD	YBWN	20 01 04S 148 12 55E	ESPERANCE	WA	YESP	33 41 04S 121 49 22E
BREWARRINA	NSW	YBRW	29 58 26S 146 49 00E	ESSENDON	VIC	YMEN	37 43 41S 144 54 07E
BRISBANE	QLD	YBBN	27 23 03S 153 07 03E	FITZROY CROSSING			
BROCKMAN	WA	YBKM	22 23 17S 117 22 16E		WA	YFTZ	18 10 55S 125 33 31E
BROKEN HILL	NSW	YBHI	32 00 05S 141 28 18E	FLINDERS ISLAND			
BRONZEWING	WA	YBWG	27 21 56S 121 02 09E		TAS	YFLI	40 05 29S 147 59 34E
BROOME	WA	YBRM	17 56 59S 122 13 40E	FORBES	NSW	YFBS	33 21 49S 147 56 06E
BUNDABERG	QLD	YBUD	24 54 14S 152 19 07E	FORREST	WA	YFRT	30 50 17S 128 06 54E
BURKETOWN	QLD	YBKT	17 44 55S 139 32 04E	FORRESTANIA	WA	YFTA	32 34 42S 119 42 24E
BUSSELTON	WA	YBLN	33 41 14S 115 24 01E	FORTESCUE DAVE FORREST			
CAIRNS	QLD	YBCS	16 53 09S 145 45 19E		WA	YFDF	22 17 31S 119 26 14E
CAMDEN	NSW	YSCN	34 02 25S 150 41 14E	GARDEN ISLAND	WA	YGAD	32 14 30S 115 41 02E
CAMOOWEAL	QLD	YCMW	19 54 42S 138 07 30E	GARDEN PT	NT	YGPT	11 23 57S 130 25 31E
CANBERRA	ACT	YSCB	35 18 25S 149 11 42E	GAYNDAH	QLD	YGAY	25 36 55S 151 37 15E
CARNARVON	WA	YCAR	24 52 50S 113 40 20E	GERALDTON	WA	YGEL	28 47 46S 114 42 27E
CEDUNA	SA	YCDU	32 07 50S 133 42 35E	GINGIN	WA	YGIG	31 27 55S 115 51 48E
CENTURY MINE	QLD	YCNM	18 45 12S 138 42 24E	GLADSTONE	QLD	YGLA	23 52 11S 151 13 22E
CHARLEVILLE	QLD	YBCV	26 24 48S 146 15 45E	GLEN INNES	NSW	YGLI	29 40 30S 151 41 22E
CHARTERS TOWERS				GOLD COAST	QLD	YBCG	28 09 52S 153 30 17E
	QLD	YCHT	20 02 35S 146 16 23E	GOLDEN GROVE	WA	YGGE	28 45 54S 116 58 18E
CHILLAGOE	QLD	YCGO	17 08 34S 144 31 44E	GOODOOGA	NSW	YGDA	29 04 24S 147 22 34E
CHINCHILLA	QLD	YCCA	26 46 10S 150 37 00E	GOONDIWINDI	QLD	YGDI	28 31 17S 150 19 13E
CHRISTMAS ISLAND				GOULBURN	NSW	YGLB	34 48 37S 149 43 35E
	OTH	YPMX	10 27 02S 105 41 25E	GOVE	NT	YPGV	12 16 10S 136 49 06E
CLERMONT	QLD	YCMT	22 46 23S 147 37 14E	GRAFTON	NSW	YGFN	29 45 34S 153 01 48E
CLEVE	SA	YCEE	33 42 35S 136 30 17E	GRANNY SMITH	WA	YGRS	28 45 48S 122 26 16E
CLONCURRY	QLD	YCCY	20 40 07S 140 30 16E	GRIFFITH	NSW	YGTH	34 15 03S 146 04 02E
COBAR	NSW	YCBA	31 32 18S 145 47 38E	GROOTE EYLANDT	NT	YGTE	13 58 30S 136 27 36E
COCOS (KEELING) ISLAND				GUNNEDAH	NSW	YGDH	30 57 40S 150 15 02E
	OTH	YPCC	12 11 19S 096 49 50E	HALLS CREEK	WA	YHLC	18 14 02S 127 40 11E

AERODROME	STATE	IDENT	LOCATION		AERODROME	STATE	IDENT	LOCATION	
HAMILTON	VIC	YHML	37 38 56S	142 03 55E	MIDDLEMOUNT	QLD	YMMU	22 48 09S	148 42 17E
HAMILTON ISLAND					MILDURA	VIC	YMIA	34 13 45S	142 05 08E
	QLD	YBHM	20 21 29S	148 57 06E	MILINGIMBI	NT	YMGB	12 05 40S	134 53 37E
HAY	NSW	YHAY	34 31 53S	144 49 47E	MOOMBA	SA	YOOM	28 05 58S	140 11 49E
HERVEY BAY	QLD	YHBA	25 19 08S	152 52 49E	MOORABBIN	VIC	YMMB	37 58 33S	145 06 08E
HOBART	TAS	YMHB	42 50 10S	147 30 37E	MORANBAH	QLD	YMRB	22 03 28S	148 04 39E
HOLSWORTHY	NSW	YSHW	33 59 42S	150 57 09E	MOREE	NSW	YMOR	29 29 56S	149 50 41E
HOOKER CREEK	NT	YHOO	18 20 09S	130 38 36E	MORNINGTON ISLAND				
HOPETOUN	VIC	YHPN	35 42 55S	142 21 35E		QLD	YMTI	16 39 45S	139 10 41E
HORN ISLAND	QLD	YHID	10 35 11S	142 17 24E	MORUYA	NSW	YMRY	35 53 52S	150 08 40E
HORSHAM	VIC	YHSM	36 40 11S	142 10 22E	MOUNT BUNDEY	NT	YMDY	12 53 24S	131 54 26E
HUGHENDEN	QLD	YHUG	20 48 54S	144 13 31E	MOUNT GAMBIE	SA	YMTG	37 44 44S	140 47 07E
INNISFAIL	QLD	YIFL	17 33 31S	146 00 42E	MOUNT GORDON	QLD	YGON	19 46 30S	139 24 24E
INVERELL	NSW	YIVL	29 53 18S	151 08 39E	MOUNT HOTHAM	VIC	YHOT	37 02 51S	147 20 03E
JACINTH AMBROSIA					MOUNT ISA	QLD	YBMA	20 39 50S	139 29 19E
	SA	YJAC	30 54 04S	132 11 01E	MOUNT KEITH	WA	YMNE	27 17 11S	120 33 17E
JANDAKOT	WA	YPJT	32 05 51S	115 52 52E	MOUNT MAGNET	WA	YMOG	28 06 58S	117 50 30E
JERVIS BAY	NSW	YJBY	35 08 50S	150 41 50E	MUDGEY	NSW	YMDG	32 33 45S	149 36 40E
JULIA CREEK	QLD	YJLC	20 40 06S	141 43 21E	MURRAY FIELD	WA	YMLU	32 30 37S	115 50 00E
JUNDEE	WA	YJUN	26 25 16S	120 34 39E	MURRIN MURRIN	WA	YMMI	28 42 19S	121 53 26E
KALBARRI	WA	YKBR	27 41 31S	114 15 34E	NARACOORTE	SA	YNRC	36 59 07S	140 43 30E
KALGOORLIE/BOULDER					NARRABRI	NSW	YNBR	30 19 09S	149 49 38E
	WA	YPKG	30 47 22S	121 27 42E	NARRANDERA	NSW	YNAR	34 42 08S	146 30 44E
KALKGURUNG	NT	YKKG	17 25 55S	130 48 29E	NARROMINE	NSW	YNRM	32 12 52S	148 13 29E
KALUMBURU	WA	YKAL	14 17 17S	126 37 52E	NEWMAN	WA	YNWN	23 25 04S	119 48 10E
KAMBALDA	WA	YKBL	31 11 26S	121 35 54E	NGUKURR	NT	YNGU	14 43 22S	134 44 51E
KARARA	WA	YKAR	29 12 58S	116 41 12E	NHILL	VIC	YNHL	36 18 35S	141 38 27E
KARRATHA	WA	YPKA	20 42 44S	116 46 24E	NIFTY	WA	YCNF	21 40 25S	121 35 41E
KARUMBA	QLD	YKMB	17 27 20S	140 49 54E	NORFOLK ISLAND		YSNF	29 02 33S	167 56 17E
KEMPSEY	NSW	YKMP	31 04 28S	152 46 11E	NORMANTON	QLD	YNTN	17 41 06S	141 04 13E
KERANG	VIC	YKER	35 45 05S	143 56 22E	NORSEMAN	WA	YNSM	32 12 34S	121 45 16E
KIMBA	SA	YIMB	33 05 59S	136 27 35E	NORTHERN PENINSULA				
KING ISLAND	TAS	YKII	39 52 39S	143 52 42E		QLD	YNPE	10 57 03S	142 27 34E
KINGAROY	QLD	YKRY	26 34 51S	151 50 28E	NOWRA	NSW	YSNW	34 56 56S	150 32 13E
KINGSCOTE	SA	YKSC	35 42 50S	137 31 17E	NUMBULWAR	NT	YNUM	14 16 18S	135 43 00E
KOWANYAMA	QLD	YKOW	15 29 08S	141 45 05E	NYNGAN	NSW	YNYN	31 33 04S	147 12 10E
KUNUNURRA	WA	YPKU	15 46 41S	128 42 27E	OAKEY	QLD	YBOK	27 24 41S	151 44 07E
LAKE CARGELLIGO					OENPELLI	NT	YOEN	12 19 31S	133 00 20E
	NSW	YLCG	33 16 42S	146 22 09E	OLYMPIC DAM	SA	YOLD	30 29 06S	136 52 36E
LAKE EVELLA	NT	YLEV	12 29 56S	135 48 21E	ONSLow	WA	YOLW	21 40 06S	115 06 47E
LAKE JOHNSTON	WA	YLJN	32 19 04S	120 33 17E	ORANGE	NSW	YORG	33 22 54S	149 07 59E
LATROBE VALLEY	VIC	YLTV	38 12 26S	146 28 13E	ORBOST	VIC	YORB	37 47 25S	148 36 35E
LAUNCESTON	TAS	YMLT	41 32 43S	147 12 51E	OSBORNE MINE	QLD	YOSB	22 04 54S	140 33 24E
LAVERTON	WA	YLTN	28 36 49S	122 25 26E	PALM ISLAND	QLD	YPAM	18 45 19S	146 34 53E
LAWLERS	WA	YLAW	28 05 23S	120 32 24E	PARABURDOO	WA	YPBO	23 10 16S	117 44 43E
LEARMONTH	WA	YPLM	22 14 08S	114 05 19E	PARAFIELD	SA	YPPF	34 47 36S	138 37 59E
LEIGH CREEK	SA	YLEC	30 35 54S	138 25 33E	PARKES	NSW	YPKS	33 07 53S	148 14 21E
LEINSTER	WA	YLST	27 50 36S	120 42 12E	PEARCE	WA	YPEA	31 40 04S	116 00 54E
LEONGATHA	VIC	YLEG	38 29 44S	145 51 35E	PERTH	WA	YPPH	31 56 25S	115 58 01E
LEONORA	WA	YLEO	28 52 41S	121 18 53E	PLUTONIC	WA	YPLU	25 18 48S	119 25 24E
LIGHTNING RIDGE					POINT COOK	VIC	YMPC	37 55 56S	144 45 12E
	NSW	YLRD	29 27 24S	147 59 04E	POONCARIE	NSW	YPCE	33 22 24S	142 35 00E
LISMORE	NSW	YLIS	28 49 49S	153 15 36E	PORMPURAAW	QLD	YPMP	14 53 48S	141 36 34E
LOCKHART RIVER	QLD	YLHR	12 47 13S	143 18 17E	PORT AUGUSTA	SA	YPAG	32 30 25S	137 43 00E
LONGREACH	QLD	YLRE	23 26 03S	144 16 49E	PORT HEDLAND	WA	YPPD	20 22 40S	118 37 35E
LORD HOWE ISLAND					PORT KEATS	NT	YPKT	14 15 00S	129 31 45E
	NSW	YLHI	31 32 18S	159 04 38E	PORT LINCOLN	SA	YPLC	34 36 19S	135 52 49E
LOXTON	SA	YLOX	34 28 33S	140 39 50E	PORT MACQUARIE	NSW	YPMQ	31 26 09S	152 51 48E
MACKAY	QLD	YBMK	21 10 18S	149 10 47E	PORT PIRIE	SA	YPIR	33 14 20S	137 59 42E
MAITLAND (NSW)	NSW	YMND	32 42 12S	151 29 18E	PORTLAND	VIC	YPOD	38 19 05S	141 28 16E
MALLACOOTA	VIC	YMCO	37 35 56S	149 43 15E	PROMPT HILL	SA	YPMH	29 43 02S	135 31 17E
MANGALORE	VIC	YMNG	36 53 18S	145 11 03E	PROSERPINE / WHITSUNDAY COAST				
MANINGRIDA	NT	YMGD	12 03 22S	134 14 03E		QLD	YBPN	20 29 42S	148 33 08E
MANJIMUP	WA	YMJM	34 15 55S	116 08 25E	PUCKAPUNYAL	VIC	YPKL	36 59 58S	145 03 46E
MAREEBA	QLD	YMBA	17 04 09S	145 25 09E	QUILPIE	QLD	YQLP	26 36 31S	144 15 26E
MARYBOROUGH (QLD)					QUIRINDI	NSW	YQDI	31 29 55S	150 31 05E
	QLD	YMYB	25 30 48S	152 42 54E	RAMINGINING	NT	YRNG	12 21 23S	134 53 51E
MARYBOROUGH (VIC)					RAVENSTHORPE	WA	YNRV	33 47 50S	120 12 29E
	VIC	YMBU	37 01 59S	143 42 32E	RENMARK	SA	YREN	34 11 47S	140 40 26E
MCARTHUR RIVER MINE					RICHMOND (NSW)	NSW	YSRI	33 36 02S	150 46 51E
	NT	YMHU	16 26 42S	136 04 30E	RICHMOND (QLD)	QLD	YRMD	20 42 07S	143 06 53E
MEEKATHARRA	WA	YMEK	26 36 42S	118 32 52E	ROBINVALE	VIC	YROI	34 39 02S	142 46 58E
MELBOURNE	VIC	YMML	37 40 24S	144 50 36E	ROCKHAMPTON	QLD	YBRK	23 22 55S	150 28 31E
MERIMBULA	NSW	YMER	36 54 31S	149 54 05E	ROMA	QLD	YROM	26 32 42S	148 46 29E

AERODROME	STATE	IDENT	LOCATION		AERODROME	STATE	IDENT	LOCATION	
ROTTNEST ISLAND					TOWNSVILLE	QLD	YBTL	19 15 09S	146 45 55E
	WA	YRTI	32 00 24S	115 32 23E	TREPELL	QLD	YTEE	21 50 06S	140 53 17E
SAIBAI ISLAND	QLD	YSII	09 22 42S	142 37 30E	TRUSCOTT- MUNGALALU				
SCHERGER (RAAF)						WA	YTST	14 05 23S	126 22 51E
	QLD	YBSG	12 37 26S	142 05 14E	TUMBY BAY	SA	YTBB	34 21 40S	136 05 42E
SCONE	NSW	YSCO	32 02 14S	150 49 56E	TUMUT	NSW	YTMU	35 15 46S	148 14 27E
SEA LAKE	VIC	YSLK	35 31 54S	142 53 26E	WAGGA WAGGA	NSW	YSWG	35 09 55S	147 27 59E
SHARK BAY	WA	YSHK	25 53 38S	113 34 38E	WAIKERIE	SA	YWKI	34 11 03S	140 01 50E
SHAY GAP	WA	YSHG	20 25 28S	120 08 24E	WALGETT	NSW	YWLG	30 01 58S	148 07 33E
SHEPPARTON	VIC	YSHT	36 25 44S	145 23 33E	WANGARATTA	VIC	YWGT	36 24 57S	146 18 25E
SMITHTON	TAS	YSMI	40 50 06S	145 05 01E	WARRACKNABEAL	VIC	YWKB	36 19 16S	142 25 10E
SNAKE BAY	NT	YSNB	11 25 22S	130 39 13E	WARREN	NSW	YWRN	31 44 00S	147 48 09E
SOUTH GOULBURN ISLAND					WARRNAMBOOL	VIC	YWBL	38 17 43S	142 26 48E
	NT	YGBI	11 39 02S	133 22 55E	WARWICK	QLD	YWCK	28 08 58S	151 56 35E
SOUTHERN CROSS	WA	YSCR	31 14 25S	119 21 35E	WEIPA	QLD	YBWP	12 40 43S	141 55 31E
SOUTHPORT	QLD	YSPT	27 55 18S	153 22 17E	WENTWORTH	NSW	YWTO	34 05 16S	141 53 31E
ST ARNAUD	VIC	YSTA	36 38 12S	143 11 09E	WEST ANGELAS	WA	YANG	23 08 06S	118 42 24E
ST GEORGE	QLD	YSGE	28 02 59S	148 35 43E	WEST SALE	VIC	YWSL	38 05 30S	146 57 55E
ST HELENS	TAS	YSTH	41 20 12S	148 16 55E	WEST WYALONG	NSW	YWWL	33 56 14S	147 11 29E
STAWELL	VIC	YSWL	37 04 18S	142 44 25E	WHYALLA	SA	YWHA	33 03 32S	137 30 52E
STRAHAN	TAS	YSRN	42 09 20S	145 17 29E	WILLIAMSON	QLD	YWIS	22 28 24S	150 10 42E
STREAKY BAY	SA	YKBY	32 50 09S	134 17 34E	WILLIAMTOWN	NSW	YWLM	32 47 42S	151 50 04E
SUNRISE DAM	WA	YSRD	29 05 54S	122 27 19E	WILUNA	WA	YWLU	26 37 45S	120 13 14E
SUNSHINE COAST	QLD	YBSU	26 36 12S	153 05 28E	WINDARLING	WA	YWDG	30 01 54S	119 23 24E
SWAN HILL	VIC	YSWH	35 22 33S	143 31 58E	WINDORAH	QLD	YWDH	25 24 47S	142 40 02E
SYDNEY	NSW	YSSY	33 56 46S	151 10 38E	WINTON	QLD	YWTN	22 21 49S	143 05 08E
TAMWORTH	NSW	YSTW	31 05 02S	150 50 48E	WOLLONGONG	NSW	YWOL	34 33 40S	150 47 19E
TAREE	NSW	YTRE	31 53 19S	152 30 50E	WOODIE WOODIE	WA	YWWI	21 38 43S	121 11 30E
TAROOM	QLD	YTAM	25 48 07S	149 53 58E	WOOMERA	SA	YPWR	31 08 39S	136 49 01E
TELFER	WA	YTEF	21 42 54S	122 13 42E	WUDINNA	SA	YWUD	33 02 36S	135 26 50E
TEMORA	NSW	YTEM	34 25 17S	147 30 42E	WYCHEPROOF	VIC	YWYF	36 03 32S	143 14 36E
TENNANT CREEK	NT	YTNK	19 38 04S	134 11 00E	WYNDHAM	WA	YWYM	15 30 41S	128 09 11E
THANGOOL	QLD	YTNG	24 29 38S	150 34 34E	WYNYARD	TAS	YWYY	40 59 56S	145 43 52E
THARGOMINDAH	QLD	YTGM	27 59 11S	143 48 39E	YARRAM	VIC	YYRM	38 34 03S	146 45 16E
THE GRANITES	NT	YTGT	20 32 54S	130 21 00E	YARRAWONGA	VIC	YYWG	36 01 44S	146 01 43E
THE MONUMENT	QLD	YTMO	21 48 40S	139 55 25E	YORKE ISLAND	QLD	YYKI	09 45 12S	143 24 18E
TIBOOBURRA	NSW	YTIB	29 27 04S	142 03 28E	YOUNG	NSW	YYNG	34 15 20S	148 14 53E
TINDAL	NT	YPTN	14 31 16S	132 22 40E					
TOCUMWAL	NSW	YTOC	35 48 39S	145 36 15E					
TOOWOOMBA	QLD	YTWB	27 32 29S	151 54 45E					

NOTES



## SECTION 17 - CERTIFIED OR REGISTERED AERODROMES THRESHOLD DATA

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
ADELAIDE	50.16	05	S34572765	E138310644	BALRANALD	268.37	26	S34371817	E143345849
ADELAIDE	230.15	23	S34562632	E138323570	BALRANALD	185.55	18	S34371023	E143343991
ADELAIDE	123.49	12	S34562827	E138311886	BALRANALD	5.55	36	S34374853	E143343541
ADELAIDE	303.51	30	S34565787	E138321315	BANKSTOWN	123.86	11C	S33551243	E150590440
ALBANY	44.86	05	S34564966	E117482092	BANKSTOWN	303.9	29C	S33553630	E150594708
ALBANY	224.86	23	S34562444	E117485140	BANKSTOWN	123.9	11L	S33551244	E150591193
ALBANY	134.73	14	S34562496	E117481315	BANKSTOWN	303.89	29R	S33553235	E150594748
ALBANY	314.73	32	S34570607	E117490355	BANKSTOWN	123.9	11R	S33551787	E150590673
ALBURY	81.19	07	S36040507	E146565601	BANKSTOWN	303.89	29L	S33553660	E150594017
ALBURY	261.18	25	S36035562	E146581107	BARCALDINE	16.36	01	S23342204	E145180013
ALICE SPRINGS	120.25	12	S23480371	E133533610	BARCALDINE	196.35	19	S23332896	E145181702
ALICE SPRINGS	300.25	30	S23484363	E133545050	BARCALDINE	139.53	14	S23334030	E145181630
ALICE SPRINGS	178.24	17	S23475020	E133531154	BARCALDINE	319.5	32	S23340750	E145184150
ALICE SPRINGS	358.24	35	S23482694	E133531277	BARIMUNYA	105.09	10	S22402048	E119092723
ALPHA	187.97	18	S23384750	E146350095	BARIMUNYA	285.08	28	S22403638	E119103081
ALPHA	7.97	36	S23393443	E146345382	BARROW ISLAND	26.54	03	S20520837	E115240943
AMBERLEY	54.32	04	S27384060	E152422833	BARROW ISLAND	206.54	21	S20511309	E115243880
AMBERLEY	234.32	22	S27381172	E152431349	BATHURST	90.65	08	S33242411	E149385738
AMBERLEY	158.74	15	S27371817	E152421896	BATHURST	270.64	26	S33242459	E149394825
AMBERLEY	338.74	33	S27385044	E152425927	BATHURST	176.19	17	S33240280	E149390254
ARARAT	54.91	04	S37183951	E142591288	BATHURST	356.19	35	S33245799	E149390692
ARARAT	234.91	22	S37182708	E142593503	BATHURST ISLAND				
ARARAT	126.02	12	S37182938	E142590730	BATHURST ISLAND	149.93	15	S11453238	E130364454
ARARAT	306.01	30	S37185303	E142594803	BATHURST ISLAND	329.93	33	S11461378	E130370887
ARCHERFIELD	51.56	04L	S27341553	E153000670	BEDOURIE	145.98	14	S24201752	E139271578
ARCHERFIELD	231.59	22R	S27335625	E153003399	BEDOURIE	325.98	32	S24210623	E139275167
ARCHERFIELD	51.53	04R	S27341808	E153001572	BELLEVUE	7.09	01	S27371799	E120353542
ARCHERFIELD	231.56	22L	S27335586	E153004714	BELLEVUE	187.09	19	S27361353	E120354442
ARCHERFIELD	107.75	10L	S27341342	E152594998	BENALLA	94.43	08R	S36330704	E146002428
ARCHERFIELD	287.73	28R	S27342748	E153003931	BENALLA	274.43	26L	S36330965	E146010604
ARCHERFIELD	107.46	10R	S27341991	E152595302	BENALLA	175.11	17R	S36325905	E146001664
ARCHERFIELD	287.75	28L	S27343081	E153003123	BENALLA	355.11	35L	S36332226	E146001910
ARGYLE	21.48	01	S16384111	E128264777	BENDIGO	60.76	05	S36442898	E144192608
ARGYLE	201.47	19	S16373156	E128271615	BENDIGO	240.75	23	S36441680	E144195311
ARMIDALE	58.45	05	S30315865	E151363285	BENDIGO	181.92	17	S36435862	E144194525
ARMIDALE	238.45	23	S30312915	E151372835	BENDIGO	1.92	35	S36443544	E144194372
ARMIDALE	96.97	09	S30312668	E151363738	BIRCHIP	51.7	04	S36000153	E142545000
ARMIDALE	276.97	27	S30313107	E151371887	BIRCHIP	231.65	22	S35594180	E142552069
AURUKUN	160.59	16	S13205419	E141430468	BIRCHIP	97.64	09	S36000203	E142545457
AURUKUN	340.59	34	S13213292	E141431862	BIRCHIP	277.64	27	S36000429	E142551531
AVALON	187.59	18	S38013806	E144280993	BIRDSVILLE	39.89	03	S25541393	E139203602
AVALON	7.59	36	S38031604	E144275342	BIRDSVILLE	219.88	21	S25534393	E139210374
AYERS ROCK	129.52	13	S25104114	E130580015	BIRDSVILLE	148.79	14	S25531519	E139203176
AYERS ROCK	309.51	31	S25113483	E130591170	BIRDSVILLE	328.78	32	S25535500	E139205843
BAIRNSDALE	55.09	04	S37532530	E147335151	BLACKALL	67.22	06	S24260613	E145251563
BAIRNSDALE	235.09	22	S37530487	E147342845	BLACKALL	247.21	24	S24254486	E145261094
BAIRNSDALE	144.93	13	S37530029	E147335674	BLACKALL	127.25	12	S24251437	E145251173
BAIRNSDALE	324.93	31	S37532287	E147341674	BLACKALL	307.25	30	S24254597	E145255712
BALGO HILL	40.07	04	S20085122	E127582633	BLACKWATER	186.06	18	S23355833	E148482263
BALGO HILL	220.07	22	S20083492	E127584085	BLACKWATER	6.52	36	S23363589	E148481797
BALGO HILL	146.73	15	S20084966	E127582132	BOULIA	149.15	14	S22542050	E139534660
BALGO HILL	326.73	33	S20093344	E127585174	BOULIA	329.2	32	S22551100	E139541910
BALLARAT	61.79	05	S37304533	E143471128	BOURKE	62.61	05	S30024171	E145561274
BALLARAT	241.79	23	S37302593	E143475668	BOURKE	242.61	23	S30021441	E145571330
BALLARAT	134.61	13	S37301958	E143471464	BOURKE	187.64	18	S30015662	E145572550
BALLARAT	314.61	31	S37303253	E143473112	BOURKE	7.64	36	S30022881	E145572054
BALLARAT	188.77	18	S37302488	E143474176	BOWEN	47.84	04	S20012395	E148123266
BALLARAT	8.77	36	S37310480	E143473403	BOWEN	228.14	22	S20005704	E148130444
BALLERA	39.65	03	S27244298	E141481278	BOWEN	125.57	12	S20005289	E148123787
BALLERA	219.64	21	S27235790	E141485463	BOWEN	304.99	30	S20010971	E148130329
BALLINA/BYRON GATEWAY	73.49	06	S28500870	E153330653	BREWARRINA	35.62	03	S29585119	E146483657
BALLINA/BYRON GATEWAY	253.48	24	S28495117	E153341366	BREWARRINA	215.61	21	S29581463	E146490665
BALRANALD	88.38	08	S34371877	E143343293	BRISBANE	27.05	01	S27241009	E153070558
					BRISBANE	207.04	19	S27222882	E153080350
					BRISBANE	145.53	14	S27212318	E153072828

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
BRISBANE	325.52	32	S27220712	E153080207	COEN	113.07	11	S13453826	E143064315
BROKEN HILL	55.89	05	S32003249	E141273929	COEN	293.07	29	S13455362	E143072005
BROKEN HILL	235.88	23	S31594671	E141285859	COFFS HARBOUR	40.72	03	S30201815	E153062357
BROKEN HILL	142.99	14	S32001379	E141275956	COFFS HARBOUR	220.71	21	S30192695	E153071436
BROKEN HILL	322.99	32	S32003971	E141282249	COFFS HARBOUR	107.09	10	S30185922	E153065074
BROOME	105.54	10	S17564513	E122125929	COFFS HARBOUR	287.08	28	S30190735	E153072123
BROOME	285.53	28	S17570472	E122141292	COOBER PEDY	49.04	04	S29023962	E134425171
BUNDABERG	68.83	07	S24542288	E152184966	COOBER PEDY	229.03	22	S29020920	E134433158
BUNDABERG	248.83	25	S24540964	E152192715	COOBER PEDY	150.15	14	S29021123	E134431556
BUNDABERG	147.73	14	S24535027	E152190211	COOBER PEDY	330.15	32	S29023463	E134433084
BUNDABERG	327.73	32	S24544525	E152194017	COOKTOWN	111.44	11	S15262665	E145103201
BURKETOWN	41.89	03	S17451852	E139315154	COOKTOWN	291.43	29	S15264600	E145112282
BURKETOWN	221.89	21	S17444534	E139322260	COOLAH	90.51	08	S31462566	E149363424
BURKETOWN	131.96	14	S17445825	E139313555	COOLAH	270.51	26	S31462597	E149371491
BURKETOWN	311.96	32	S17451456	E139315448	COOMA	149.98	14	S36181723	E148581028
BUSSELTON	25.58	03	S33414159	E115235193	COOMA	329.98	32	S36183470	E148582275
BUSSELTON	205.57	21	S33404889	E115242210	COOMA	192.7	18	S36172562	E148583070
CAIRNS	125.63	12	S16525042	E145450764	COOMA	12.71	36	S36183273	E148581201
CAIRNS	305.62	30	S16530796	E145453307	COONABARABRAN	29.47	01	S31200587	E149161317
CAIRNS	156.48	15	S16515699	E145443682	COONABARABRAN	209.47	19	S31194755	E149162523
CAIRNS	336.48	33	S16533114	E145451938	COONABARABRAN	122.89	11	S31193760	E149152160
CAMDEN	64.84	06	S34022623	E150405023	COONABARABRAN	302.89	29	S31200441	E149160990
CAMDEN	244.78	24	S34021191	E150412675	COONAMBLE	53.78	05	S30591068	E148220969
CAMDEN	110.96	10	S34022941	E150405425	COONAMBLE	233.77	23	S30584146	E148225599
CAMDEN	290.95	28	S34023780	E150412057	COONAMBLE	128.41	12	S30583653	E148222633
CAMOOWEAL	135.31	13	S19543770	E138071440	COONAMBLE	308.4	30	S30584823	E148224346
CAMOOWEAL	315.42	31	S19550630	E138074420	COONDEWANNA	88.12	08	S22580311	E118481936
CANBERRA	129.87	12	S35180246	E149110655	COONDEWANNA	263.28	26	S22575627	E118492211
CANBERRA	309.86	30	S35183735	E149115752	COOTAMUNDRA	110.48	10	S34372715	E148014345
CANBERRA	180	17	S35172624	E149114001	COOTAMUNDRA	290.47	28	S34373686	E148021491
CANBERRA	0	35	S35185328	E149114001	COOTAMUNDRA	173.33	16	S34370182	E148020828
CARNARVON	43.33	04	S24531207	E113395018	COOTAMUNDRA	353.33	34	S34373817	E148021342
CARNARVON	223.32	22	S24523237	E113403123	COROWA	54.15	05	S36000296	E146204079
CARNARVON	179.27	18	S24524344	E113395876	COROWA	234.14	23	S35592825	E146213990
CARNARVON	359.27	36	S24531997	E113395927	COROWA	144.14	14	S35585915	E146204713
CEDUNA	110.82	11	S32074022	E133415286	COROWA	323.89	32	S35593800	E146212200
CEDUNA	290.81	29	S32080030	E133425494	CORRYONG	72.2	06	S36110726	E147524622
CEDUNA	173.28	17	S32073587	E133424546	CORRYONG	252.19	24	S36105336	E147539662
CEDUNA	353.28	35	S32080853	E133424998	COWELL	45.19	04	S33401757	E136531782
CENTURY MINE	141.67	14	S18451353	E138421832	COWELL	225.18	22	S33395042	E136535050
CENTURY MINE	321.86	32	S18454945	E138424793	COWELL	127.65	12	S33395033	E136531761
CHARLEVILLE	137.01	12	S26242855	E146152735	COWELL	307.65	30	S33401129	E136535010
CHARLEVILLE	317.01	30	S26250477	E146160485	COWELL	176.7	17	S33394115	E136531816
CHARLEVILLE	181.96	18	S26244586	E146154364	COWELL	356.7	35	S33402878	E136532144
CHARLEVILLE	1.96	36	S26252052	E146154232	COWRA	41.13	03	S33504709	E148383615
CHILLAGOE	177.34	17	S17080045	E144314221	COWRA	221.12	21	S33501861	E148390595
CHILLAGOE	357.34	35	S17083232	E144314375	COWRA	161.46	15	S33502116	E148384160
CHINCHILLA	38.92	03	S26461952	E150370657	COWRA	341.46	33	S33511132	E148390176
CHINCHILLA	218.4	21	S26460447	E150371986	CROKER ISLAND	135.58	13	S11092800	E132284014
CHINCHILLA	142.28	14	S26460524	E150365144	CROKER ISLAND	315.58	31	S11100136	E132291325
CHINCHILLA	322.23	32	S26463270	E150371514	CUNNAMULLA	68.07	06	S28015978	E145365192
CHRISTMAS ISLAND					CUNNAMULLA	248.07	24	S28014869	E145372296
CHRISTMAS ISLAND	175.31	18	S10262681	E105412480	CUNNAMULLA	130.16	12	S28013618	E145371094
CHRISTMAS ISLAND					CUNNAMULLA	310.16	30	S28021249	E145375943
CLERMONT	355.31	36	S10273502	E105413045	CURTIN	110.37	11	S17343228	E123485443
CLERMONT	27.44	01	S22462884	E147371557	CURTIN	290.37	29	S17350682	E123503142
CLERMONT	207.43	19	S22455806	E147373280	DARLOT	131.76	14	S27520532	E121155007
CLERMONT	158.64	15	S22460070	E147365940	DARLOT	311.75	32	S27524793	E121164378
CLERMONT	338.64	33	S22464041	E147371615	DARWIN	108.91	11	S12243385	E130515494
CLEVE	90.67	08	S33423689	E136295715	DARWIN	288.91	29	S12250922	E130533999
CLEVE	270.66	26	S33423740	E136304953	DARWIN	179.85	18	S12243183	E130521435
CLEVE	181.6	18	S33422768	E136301532	DARWIN	359.85	36	S12252145	E130521448
CLEVE	1.6	36	S33425669	E136301435	DENILIQUIN	66.18	06	S35333979	E144562506
CLONCURRY	67.99	06	S20401311	E140295476	DENILIQUIN	246.17	24	S35332381	E144570935
CLONCURRY	247.99	24	S20395900	E140303185	DENILIQUIN	141.04	12	S35330927	E144563416
CLONCURRY	127.84	12	S20393675	E140295830	DENILIQUIN	321.07	30	S35334680	E144571126
CLONCURRY	307.83	30	S20401664	E140305287	DERBY	56.16	05	S17222848	E123392985
COBAR	54.99	05	S31322958	E145471400	DERBY	236.16	23	S17220755	E123400236
COBAR	234.99	23	S31320130	E145480114	DERBY	110.42	11	S17220784	E123391241
COBAR	175.2	17	S31320699	E145474041	DERBY	290.41	29	S17222754	E123400753
COBAR	355.2	35	S31324653	E145474429	DEVONPORT	76.12	06	S41101104	E146250892
COCOS (KEELING) ISLAND					DEVONPORT	256.1	24	S41095674	E146262545
COCOS (KEELING) ISLAND	149.22	15	S12105470	E096494063	DEVONPORT	156.11	14	S41095649	E146254286
COCOS (KEELING) ISLAND	329.22	33	S12120295	E096502196	DEVONPORT	336.1	32	S41102257	E146255815
					DONALD	97.58	09	S36213481	E143001663

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
DONALD	277.58	27	S36213980	E143010299	GOLD COAST	184.09	17	S28095168	E153302431
DONALD	187.6	18	S36213893	E143002673	GOLD COAST	4.09	35	S28101054	E153302279
DONALD	7.6	36	S36220505	E143002242	GOODOOA	130.88	12	S29041112	E147225087
DOOMADGEE	0	12	S17555938	E138482754	GOODOOGA	310.87	30	S29043301	E147231966
DOOMADGEE	300.06	30	S17562645	E138491640	GOONDIWINDI	42.1	04	S28313728	E150185598
DUBBO	53.74	05	S32132216	E148340781	GOONDIWINDI	222.09	22	S28310497	E150192903
DUBBO	233.74	23	S32124935	E148350043	GOONDIWINDI	131.49	12	S28311465	E150190427
DUBBO	119.05	11	S32125174	E148342441	GOONDIWINDI	311.49	30	S28313178	E150192620
DUBBO	299.05	29	S32130856	E148350003	GOULBURN	47.62	04	S34484761	E149431814
DYSART	146.08	14	S22370014	E148213249	GOULBURN	227.61	22	S34481958	E149435538
DYSART	326.08	32	S22374204	E148220284	GOULBURN	92	08	S34483487	E149433836
EAST SALE	53.88	04	S38062178	E147081882	GOULBURN	272	26	S34483564	E149440509
EAST SALE	233.86	22	S38053517	E147093962	GOVE	129.92	13	S12154626	E136483520
EAST SALE	98.91	09	S38054445	E147074188	GOVE	309.92	31	S12163237	E136493123
EAST SALE	278.89	27	S38055564	E147091233	GRAFTON	185.25	18	S29444978	E153015535
ECHUCA	58.51	05	S36092857	E144453160	GRAFTON	5.25	36	S29454495	E153014954
ECHUCA	238.5	23	S36091992	E144454901	GRIFFITH	65.79	06	S34152599	E146030656
ECHUCA	178.52	17	S36092813	E144454310	GRIFFITH	245.75	24	S34150330	E146040732
ECHUCA	358.52	35	S36100383	E144454424	GRIFFITH	188.5	18	S34144798	E146040673
EDINBURGH	48.01	04	S34424015	E138365832	GRIFFITH	8.5	36	S34150725	E146040326
EDINBURGH	228.01	22	S34415755	E138375563	GROOTE EYLANDT	99.14	10	S13581575	E136260962
EDINBURGH	188.52	18	S34414032	E138370330	GROOTE EYLANDT	279.13	28	S13582558	E136280223
EDINBURGH	8.52	36	S34430248	E138364840	GUNNEDAH	122.73	11	S30571296	E150142614
ELCHO ISLAND	99.88	10	S12010517	E135340581	GUNNEDAH	302.72	29	S30574187	E150151834
ELCHO ISLAND	279.88	28	S12011321	E135345271	GUNNEDAH	182.7	17	S30571877	E150150344
EMERALD	70.49	06	S23341995	E148101601	GUNNEDAH	2.7	35	S30573795	E150150239
EMERALD	250.48	24	S23335931	E148111918	HALLS CREEK	43.81	04	S18142743	E127394096
EMERALD	151.29	15	S23335346	E148102931	HALLS CREEK	223.81	22	S18135271	E127401582
EMERALD	331.29	33	S23341993	E148104504	HALLS CREEK	85.7	08	S18140816	E127394809
ESPERANCE	28.41	03	S33412113	E121491575	HALLS CREEK	265.69	26	S18140590	E127401950
ESPERANCE	208.41	21	S33404721	E121493770	HAMILTON	113.4	10	S37384556	E142033347
ESPERANCE	111.04	11	S33404535	E121484602	HAMILTON	293.39	28	S37390143	E142041961
ESPERANCE	291.03	29	S33410631	E121495120	HAMILTON	180.08	17	S37382893	E142034287
ESSENDON	88.05	08	S37435301	E144533437	HAMILTON	.08	35	S37391447	E142034279
ESSENDON	268.03	26	S37435088	E144545278	HAMILTON ISLAND				
ESSENDON	177.78	17	S37431353	E144540273					
ESSENDON	357.78	35	S37440226	E144540511	HAMILTON ISLAND	142.89	14	S20210483	E148564818
FITZROY CROSSING									
	17.43	01	S18112106	E125332864	HAY	322.88	32	S20214903	E148572362
FITZROY CROSSING					HAY	43.61	04	S34321467	E144492621
	197.43	19	S18104053	E125334195	HAY	223.6	22	S34314029	E144500578
FLINDERS ISLAND					HAY	154.52	15	S34312591	E144493743
	61.29	05	S40054012	E147593539	HAY	334.52	33	S34315936	E144495669
FLINDERS ISLAND					HERVEY BAY	118.65	11	S25185610	E152521753
	241.23	23	S40052421	E148001313	HERVEY BAY	298.64	29	S25192726	E152532029
FLINDERS ISLAND					HOBART	135.14	12	S42494432	E147300742
	143.66	14	S40045843	E147585809	HOBART	315.13	30	S42503604	E147311736
FLINDERS ISLAND					HOOKER CREEK	100.94	10	S18200082	E130380877
	323.65	32	S40054334	E147594111	HOOKER CREEK	280.93	28	S18201056	E130390155
FORBES	99.09	09	S33214244	E147551636	HOPETOUN	20.18	01	S35431155	E142212996
FORBES	279.08	27	S33214873	E147560324	HOPETOUN	200.18	19	S35423775	E142214519
FORREST	93.77	09	S30501134	E128063468	HOPETOUN	89.82	08	S35425033	E142212738
FORREST	273.76	27	S30501423	E128072561	HOPETOUN	269.82	26	S35425028	E142214673
FORREST	179.64	18	S30495763	E128064615	HORN ISLAND	84.81	08	S10351202	E142165247
FORREST	359.64	36	S30504703	E128064651	HORN ISLAND	264.81	26	S10350793	E142173800
FORRESTANIA	147	15	S32343551	E119421174	HORN ISLAND	139.83	14	S10345159	E142171964
FORRESTANIA	325.33	33	S32351634	E119424509	HORN ISLAND	319.83	32	S10352231	E142174585
GARDEN PT	41.73	04	S11241479	E130251759	HORSHAM	89.71	08	S36400799	E142101471
GARDEN PT	221.73	22	S11234281	E130254650	HORSHAM	269.7	26	S36400777	E142110798
GERALDTON	18.39	03	S28481616	E114421219	HORSHAM	179.7	17	S36400829	E142101925
GERALDTON	198.39	21	S28471509	E114423524	HORSHAM	359.7	35	S36403418	E142101942
GERALDTON	79.54	08	S28471664	E114415831	HUGHENDEN	65.66	06	S20490660	E144130456
GERALDTON	259.53	26	S28471133	E114423094	HUGHENDEN	245.66	24	S20485414	E144133386
GERALDTON	142.67	14	S28471706	E114420166	HUGHENDEN	127.81	12	S20482987	E144130734
GERALDTON	322.67	32	S28473888	E114422055	HUGHENDEN	307.81	30	S20490266	E144135228
GINGIN	75	08	S31275936	E115511343	INNISFAIL	0	03	S17335167	E146003124
GINGIN	254.99	26	S31274399	E115522033	INNISFAIL	215.06	21	S17331589	E146005742
GLADSTONE	110.11	10	S23520090	E151130121	INNISFAIL	0	14	S17331522	E146002548
GLADSTONE	290.11	28	S23521945	E151135630	INNISFAIL	321.08	32	S17334948	E146005432
GLEN INNES	105.87	10	S29402396	E151404836	INVERELL	170.59	16	S29524304	E151083651
GLEN INNES	285.86	28	S29403884	E151414832	INVERELL	350.59	34	S29535074	E151084939
GLEN INNES	154.08	14	S29400141	E151411024	JANDAKOT	54.45	06L	S32055986	E115522846
GLEN INNES	334.07	32	S29404512	E151413457	JANDAKOT	234.44	24R	S32053857	E115530345
GOLD COAST	150.58	14	S28092344	E153300254	JANDAKOT	54.43	06R	S32060311	E115523689
GOLD COAST	330.59	32	S28102125	E153303931	JANDAKOT	234.43	24L	S32054139	E115531257
					JANDAKOT	114.44	12	S32055975	E115522086

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
JANDAKOT	294.43	30	S32061305	E115525525	LEIGH CREEK	120.94	11	S30354439	E138252719
JULIA CREEK	107.15	10	S20395904	E141424316	LEIGH CREEK	300.94	29	S30361294	E138262225
JULIA CREEK	287.14	28	S20401249	E141432949	LEINSTER	100.32	10	S27503369	E120414258
KALGOORLIE/BOULDER					LEINSTER	280.31	28	S27504416	E120424730
	110.45	11	S30471783	E121271661	LEONGATHA	46.42	04	S38295575	E145512672
KALGOORLIE/BOULDER					LEONGATHA	226.41	22	S38293509	E145515434
	290.44	29	S30474052	E121282710	LEONGATHA	187.88	18	S38293611	E145513993
KALGOORLIE/BOULDER					LEONGATHA	7.89	36	S38295773	E145513612
	185.47	18	S30465312	E121274361	LEONORA	36.76	04	S28532083	E121182194
KALGOORLIE/BOULDER					LEONORA	216.76	22	S28522832	E121190651
	5.47	36	S30473190	E121273931	LEONORA	133.22	12	S28523013	E121182988
KALKGURUNG	33.55	03	S17255866	E130482380	LEONORA	313.22	30	S28525593	E121190107
KALKGURUNG	213.55	21	S17252476	E130484722	LIGHTNING RIDGE				
KALKGURUNG	135.24	13	S17260041	E130482708		47.51	04	S29271851	E147585024
KALKGURUNG	315.24	31	S17262179	E130484917	LIGHTNING RIDGE				
KALUMBURU	107.21	10	S14171322	E126374948		227.51	22	S29270242	E147591031
KALUMBURU	287.21	28	S14172241	E126381991	LIGHTNING RIDGE				
KARARA	123.97	12	S29125106	E116404872		109.35	10	S29270203	E147581134
KARARA	296.64	30	S29131321	E116413904	LIGHTNING RIDGE				
KARRATHA	83.66	08	S20425049	E116455296		289.34	28	S29271719	E147590067
KARRATHA	263.65	26	S20424229	E116471130	LISMORE	157.11	15	S28492619	E153151877
KARUMBA	37.69	03	S17272113	E140494892	LISMORE	337.11	33	S28501579	E153154255
KARUMBA	217.69	21	S17264827	E140501537	LOCKHART RIVER	124.89	12	S12470145	E143180213
KEMPSEY	54.38	04	S31043554	E152453039	LOCKHART RIVER	304.89	30	S12472936	E143184291
KEMPSEY	234.37	22	S31040442	E152462085	LONGREACH	46.55	04	S23261676	E144161443
KEMPSEY	170.53	16	S31040775	E152460689	LONGREACH	226.55	22	S23253352	E144170390
KEMPSEY	350.53	34	S31042767	E152461075	LONGREACH	93	09	S23261535	E144161358
KERANG	59	05	S35450977	E143562079	LONGREACH	273	27	S23261688	E144164524
KERANG	239	23	S35445821	E143564439	LORD HOWE ISLAND				
KERANG	148.97	14	S35445234	E143560305		114.36	10	S31321226	E159041815
KERANG	328.96	32	S35452201	E143562495	LORD HOWE ISLAND				
KIMBA	40.24	03	S33055502	E136273901		294.35	28	S31322412	E159044874
KIMBA	220.23	21	S33051584	E136281839	LOXTON	90.38	08	S34283457	E140395199
KIMBA	160.24	15	S33050074	E136273871	LOXTON	270.37	26	S34283482	E140403847
KIMBA	340.24	33	S33054069	E136275576	LOXTON	179.88	17	S34280950	E140394778
KING ISLAND	73.39	06	S39524031	E143524437	LOXTON	359.88	35	S34283721	E140394785
KING ISLAND	253.39	24	S39523289	E143531665	MACKAY	57.97	05	S21103147	E149102881
KING ISLAND	114.51	10	S39522441	E143521376	MACKAY	237.94	23	S21100928	E149110662
KING ISLAND	294.5	28	S39524572	E143531443	MACKAY	147.69	14	S21094749	E149103887
KING ISLAND	184.21	17	S39522212	E143530520	MACKAY	327.69	32	S21104197	E149111560
KING ISLAND	4.21	35	S39525792	E143530178	MAITLAND (NSW)	192.71	18	S32414800	E151293500
KINGAROY	65.22	05	S26350783	E151500947	MAITLAND (NSW)	12.71	36	S32420300	E151293100
KINGAROY	245.21	23	S26345008	E151505222	MALLACOOTA	82.99	07	S37360486	E149425033
KINGAROY	169.07	16	S26342087	E151501709	MALLACOOTA	262.98	25	S37360137	E149432597
KINGAROY	349.07	34	S26351191	E151502805	MALLACOOTA	190.89	18	S37353925	E149432052
KINGSCOTE	21.36	01	S35431624	E137312250	MALLACOOTA	10.89	36	S37361200	E149431260
KINGSCOTE	201.36	19	S35423384	E137314283	MANGALORE	54.05	05	S36533647	E145102272
KINGSCOTE	66.38	06	S35425348	E137310064	MANGALORE	234.04	23	S36525788	E145112896
KINGSCOTE	246.37	24	S35423873	E137314199	MANGALORE	189.08	18	S36525798	E145112400
KINGSCOTE	156.38	15	S35423831	E137310696	MANGALORE	9.09	36	S36534475	E145111469
KINGSCOTE	336.37	33	S35431299	E137312556	MANINGRIDA	148.64	14	S12030943	E134135764
KOWANYAMA	119.94	12	S15285672	E141444903	MANINGRIDA	328.64	32	S12035189	E134142393
KOWANYAMA	299.94	30	S15291913	E141452915	MAREEBA	109.47	10	S17040443	E145250221
KUNUNURRA	119.68	12	S15462584	E128420607	MAREEBA	289.47	28	S17042075	E145255020
KUNUNURRA	299.67	30	S15465530	E128425946	MARYBOROUGH (QLD)				
LAKE EVELLA	85.41	08	S12295410	E135480688		128.58	12	S25304243	E152424214
LAKE EVELLA	265.41	26	S12295154	E135483935	MARYBOROUGH (QLD)				
LATROBE VALLEY	45.14	03	S38125589	E146275419		308.57	30	S25310040	E152430697
LATROBE VALLEY	225.13	21	S38122317	E146283586	MARYBOROUGH (QLD)				
LATROBE VALLEY	97.15	09	S38121840	E146275533		173.53	17	S25302297	E152424577
LATROBE VALLEY	277.14	27	S38122211	E146283283	MARYBOROUGH (QLD)				
LAUNCESTON	148.22	14L	S41322833	E147125166		353.53	35	S25311424	E152425218
LAUNCESTON	328.21	32R	S41324762	E147130757	MARYBOROUGH (VIC)				
LAUNCESTON	147.28	14R	S41321346	E147121483		67.8	06	S37015793	E143423389
LAUNCESTON	327.27	32L	S41330746	E147130102	MARYBOROUGH (VIC)				
LAUNCESTON	196.22	18	S41322162	E147130378		247.8	24	S37015080	E143425568
LAUNCESTON	16.23	36	S41324310	E147125546	MARYBOROUGH (VIC)				
LAVERTON	69.7	07	S28370031	E122251593		173	17	S37014981	E143422455
LAVERTON	249.7	25	S28364003	E122261806	MARYBOROUGH (VIC)				
LAVERTON	157.42	16	S28362298	E122252173		353	35	S37022331	E143422968
LAVERTON	337.42	34	S28365055	E122253472	MCARTHUR RIVER MINE				
LEARMONTH	183.86	18	S22131195	E114052811		69.31	06	S16265557	E136035096
LEARMONTH	3.86	36	S22145078	E114052095	MCARTHUR RIVER MINE				
LEIGH CREEK	30.05	02	S30361349	E138251316		249.3	24	S16262682	E136050983
LEIGH CREEK	210.05	20	S30353922	E138253608	MEEKATHARRA	84.9	09	S26363286	E118320635

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
MEEKATHARRA	264.89	27	S26362655	E118332489	NARRANDERA	53.24	05	S34421331	E146303233
MEEKATHARRA	139	15	S26363069	E118325348	NARRANDERA	233.24	23	S34415326	E146310483
MEEKATHARRA	319	33	S26365987	E118332170	NARRANDERA	143.86	14	S34413605	E146301974
MELBOURNE	94.2	09	S37393872	E144492009	NARRANDERA	323.85	32	S34421828	E146305709
MELBOURNE	274.18	27	S37394414	E144505312	NARROMINE	53.8	04	S32130636	E148131522
MELBOURNE	171.56	16	S37391149	E144500568	NARROMINE	233.79	22	S32124527	E148134911
MELBOURNE	351.56	34	S37410884	E144502758	NARROMINE	121.38	11	S32124435	E148130366
MERIMBULA	34	03	S36544632	E149534772	NARROMINE	301.37	29	S32131005	E148135323
MERIMBULA	213.99	21	S36540327	E149542387	NEWMAN	55.82	05	S23252554	E119474073
MILDURA	101.63	09	S34133511	E142042590	NEWMAN	235.82	23	S23244769	E119484113
MILDURA	281.62	27	S34134708	E142053595	NGUKURR	114.45	11	S14431399	E134442864
MILDURA	185.05	18	S34133300	E142052280	NGUKURR	294.45	29	S14433459	E134451519
MILDURA	5.05	36	S34140983	E142051888	NHILL	102.49	09	S36183525	E141382969
MILINGIMBI	116.22	11	S12053164	E134531437	NHILL	282.49	27	S36184227	E141390885
MILINGIMBI	296.22	29	S12055193	E134535624	NHILL	187.22	18	S36182523	E141383788
MOOMBA	126.77	12	S28053942	E140112627	NHILL	7.22	36	S36190096	E141383229
MOOMBA	306.76	30	S28061282	E140121668	NIFTY	117.58	12	S21401116	E121351645
MOORABBIN	47.37	04	S37584629	E145055337	NIFTY	297.57	30	S21404185	E121361932
MOORABBIN	227.31	22	S37583603	E145060742	NORFOLK ISLAND	49.94	04	S29024766	E167555956
MOORABBIN	141.99	13L	S37582248	E145055511	NORFOLK ISLAND	229.93	22	S29021761	E167564022
MOORABBIN	322	31R	S37584915	E145062145	NORFOLK ISLAND	122.24	11	S29021171	E167554801
MOORABBIN	141.98	13R	S37583261	E145055401	NORFOLK ISLAND	302.23	29	S29024447	E167564712
MOORABBIN	322.09	31L	S37585171	E145061280	NORMANTON	146.52	14	S17405096	E141040292
MOORABBIN	175.92	17L	S37582716	E145055822	NORMANTON	326.52	32	S17413645	E141043431
MOORABBIN	355.95	35R	S37585579	E145060078	NORTHERN PENINSULA				
MOORABBIN	175.93	17R	S37582527	E145054930		137.29	13	S10561822	E142265228
MOORABBIN	355.96	35L	S37585453	E145055191	NORTHERN PENINSULA				
MORANBAH	171.37	16	S22030484	E148043093		317.28	31	S10570207	E142273325
MORANBAH	351.37	34	S22035392	E148043892	NOWRA	44.39	03	S34565587	E150321125
MOREE	17.28	01	S29302262	E149503495	NOWRA	224.38	21	S34560842	E150330765
MOREE	197.28	19	S29293271	E149505270	NOWRA	94.39	08	S34565237	E150313573
MOREE	58.17	05	S29300300	E149501165	NOWRA	274.37	26	S34565756	E150325803
MOREE	238.17	23	S29294624	E149504251	NUMBULWAR	149.54	15	S14155181	E135424179
MORNINGTON ISLAND					NUMBULWAR	329.54	33	S14162888	E135430414
	98.37	09	S16393785	E139094683	NYNGAN	59.31	05	S31331588	E147114398
MORNINGTON ISLAND					NYNGAN	239.3	23	S31324867	E147123751
	278.36	27	S16394503	E139103749	NYNGAN	193.48	18	S31324057	E147120306
MORNINGTON ISLAND					NYNGAN	13.48	36	S31331411	E147115367
	134.62	12	S16392428	E139094154	OAKEY	54.9	05	S27242191	E151435120
MORNINGTON ISLAND					OAKEY	234.89	23	S27240482	E151441844
	314.62	30	S16394284	E139100105	OAKEY	99.58	09	S27243276	E151432902
MORUYA	56.13	05	S35541355	E150082372	OAKEY	279.57	27	S27243816	E151440489
MORUYA	236.12	23	S35535860	E150085109	OAKEY	145.1	14	S27240961	E151441354
MORUYA	191.8	18	S35531981	E150085390	OAKEY	325.1	32	S27245357	E151444790
MORUYA	11.8	36	S35540820	E150084148	OENPELLI	118.72	12	S12192123	E133000541
MOUNT GAMBIER	63.81	06	S37445808	E140464675	OENPELLI	298.71	30	S12194187	E133004373
MOUNT GAMBIER	243.8	24	S37444596	E140471778	OLYMPIC DAM	70.52	06	S30291451	E136520583
MOUNT GAMBIER	120.92	11	S37444550	E140464638	OLYMPIC DAM	250.51	24	S30285728	E136530206
MOUNT GAMBIER	300.91	29	S37450086	E140471868	ONSLOW	22.66	03	S21404059	E115063036
MOUNT GAMBIER	185.79	18	S37442508	E140472291	ONSLOW	202.66	21	S21395259	E115065180
MOUNT GAMBIER	5.79	36	S37451428	E140471663	ONSLOW	112.64	12	S21400187	E115063131
MOUNT ISA	167.73	16	S20391815	E139290917	ONSLOW	292.64	30	S21401433	E115070327
MOUNT ISA	347.73	34	S20403951	E139292797	ORANGE	52.63	04	S33223882	E149072124
MOUNT KEITH	114.04	11	S27170131	E120324479	ORANGE	232.62	22	S33222338	E149074533
MOUNT KEITH	294.03	29	S27172514	E120334459	ORANGE	125.51	11	S33223903	E149072556
MOUNT MAGNET	35.53	04	S28070405	E117500652	ORANGE	305.5	29	S33231063	E149081835
MOUNT MAGNET	215.53	22	S28064026	E117502568	ORBOST	82.9	07	S37472476	E148361855
MOUNT MAGNET	156.88	16	S28063607	E117501733	ORBOST	262.9	25	S37472019	E148370478
MOUNT MAGNET	336.88	34	S28072169	E117503930	OSBORNE MINE	131.8	12	S22043243	E140325997
MUDGEE	52.14	04	S32341109	E149360728	OSBORNE MINE	311.79	30	S22051578	E140335200
MUDGEE	232.13	22	S32333647	E149365986	PALM ISLAND	142.66	14	S18450388	E146344122
MUDGEE	170.89	16	S32331844	E149364093	PALM ISLAND	322.65	32	S18453292	E146350448
MUDGEE	350.89	34	S32335293	E149364746	PARABURDOO	65.19	06	S23103163	E117441492
MURRAY FIELD	46	05	S32303232	E115495490	PARABURDOO	245.18	24	S23100254	E117452297
MURRAY FIELD	225.49	23	S32300627	E115502617	PARAFIELD	28.24	03L	S34481360	E138375032
MURRAY FIELD	0	09	S32303427	E115494817	PARAFIELD	208.24	21R	S34473500	E138381545
MURRAY FIELD	270.08	27	S32303431	E115502279	PARAFIELD	28.23	03R	S34480779	E138380363
NARACOORTE	27.19	02	S36591802	E140432669	PARAFIELD	208.23	21L	S34473121	E138382744
NARACOORTE	207.19	20	S36584524	E140434768	PARAFIELD	84.8	08L	S34473678	E138372915
NARACOORTE	84.07	08	S36585120	E140430221	PARAFIELD	264.8	26R	S34473396	E138380671
NARACOORTE	264.06	26	S36584769	E140434427	PARAFIELD	84.8	08R	S34474412	E138372394
NARRABRI	95.59	09	S30184848	E149492871	PARAFIELD	264.79	26L	S34474120	E138380280
NARRABRI	275.58	27	S30185232	E149501396	PARKES	54.91	04	S33081408	E148135008
NARRABRI	193.12	18	S30185095	E149493945	PARKES	234.9	22	S33074268	E148144319
NARRABRI	13.12	36	S30193910	E149492651	PARKES	124.82	11	S33072930	E148134904

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
PARKES	304.82	29	S33075620	E148143500	ROCKHAMPTON	157.66	15	S23220919	E150281402
PEARCE	44.74	05	S31402035	E116003129	ROCKHAMPTON	337.68	33	S23232645	E150284842
PEARCE	224.73	23	S31394135	E116011647	ROMA	101.64	09	S26323876	E148455885
PEARCE	173.51	18L	S31394468	E116004937	ROMA	281.63	27	S26324401	E148462720
PEARCE	353.51	36R	S31410336	E116005984	ROMA	191.61	18	S26321556	E148463758
PEARCE	173.51	18R	S31400761	E116004800	ROMA	11.61	36	S26330346	E148462664
PEARCE	353.5	36L	S31410380	E116005548	ROTTNEST ISLAND				
PERTH	13.95	03	S31573146	E115573486		90.37	09	S32002255	E115315821
PERTH	193.95	21	S31554294	E115580647	ROTTNEST ISLAND				
PERTH	58.9	06	S31562756	E115573313		270.36	27	S32002278	E115324087
PERTH	238.89	24	S31555127	E115584365	SAIBAI ISLAND	131.6	12	S09223474	E142372136
POINT COOK	48.07	04	S37561101	E144444739	SAIBAI ISLAND	311.6	30	S09225040	E142373912
POINT COOK	228.06	22	S37554640	E144452198	SCONE	0	11	S32020543	E150493334
POINT COOK	175.33	17	S37552708	E144451228	SCONE	301.7	29	S32022931	E150501873
POINT COOK	355.33	35	S37561140	E144451685	SEA LAKE	97.73	09	S35314796	E142530459
POONCARIE	63.73	06	S33223141	E142345290	SEA LAKE	277.72	27	S35315250	E142534555
POONCARIE	243.72	24	S33221629	E142352940	SEA LAKE	180.06	17	S35313218	E145234213
PORMPURA AW	150.58	14	S14532776	E141362193	SEA LAKE	.06	35	S35315500	E142534210
PORMPURA AW	330.57	32	S14540631	E141364429	SHARK BAY	178.15	18	S25531705	E113343709
PORT AUGUSTA	159.24	15	S32295303	E137424110	SHARK BAY	358.15	36	S25541030	E113343899
PORT AUGUSTA	339.23	33	S32304314	E137430352	SHEPPARTON	99.51	09	S36254619	E145232707
PORT HEDLAND	137.43	14	S20222671	E118371776	SHEPPARTON	279.51	27	S36254851	E145234421
PORT HEDLAND	317.43	32	S20232658	E118381608	SHEPPARTON	190.54	18	S36251969	E145233466
PORT HEDLAND	182.41	18	S20221303	E118374546	SHEPPARTON	10.54	36	S36255631	E145232623
PORT HEDLAND	2.41	36	S20224549	E118374401	SMITHTON	69.44	06	S40501893	E145232945
PORT KEATS	160.98	16	S14143741	E129313838	SMITHTON	249.39	24	S40500269	E145052633
PORT KEATS	340.98	34	S14152078	E129315371	SMITHTON	112.97	10	S40495146	E145050459
PORT LINCOLN	16.62	01	S34364539	E135523589	SMITHTON	292.97	28	S40495852	E145052652
PORT LINCOLN	196.62	19	S34355877	E135525272	SNAKE BAY	129.46	13	S11244936	E130383692
PORT LINCOLN	57.55	05	S34362654	E135522989	SNAKE BAY	309.46	31	S11251921	E130391368
PORT LINCOLN	237.54	23	S34360433	E135531213	SOUTH GOULBURN ISLAND				
PORT LINCOLN	153.91	15	S34355669	E135523074		99.52	10	S11385754	E133220793
PORT LINCOLN	333.9	33	S34363896	E135525578	SOUTH GOULBURN ISLAND				
PORT MACQUARIE	29.76	03	S31263154	E152512795		279.52	28	S11390497	E133225289
PORT MACQUARIE	209.76	21	S31254642	E152515804	SOUTHPORT	25.01	01	S27552500	E153221400
PORT MACQUARIE	114.23	10	S31255749	E152515728	SOUTHPORT	205.56	19	S27551200	E153222100
PORT MACQUARIE	294.23	28	S31260677	E152522133	ST ARNAUD	97.21	09	S36383974	E143103813
PORT PIRIE	41.83	03	S33142771	E137595272	ST ARNAUD	277.21	27	S36384192	E143105951
PORT PIRIE	221.83	21	S33141144	E138001005	ST ARNAUD	187.18	18	S36381595	E143110591
PORT PIRIE	90.12	08	S33141720	E137592826	ST ARNAUD	7.22	36	S36384357	E143110159
PORT PIRIE	270.12	26	S33141727	E138000858	ST GEORGE	120.58	11	S28024881	E148351990
PORT PIRIE	180.53	17	S33140633	E137592925	ST GEORGE	300.57	29	S28031398	E148360792
PORT PIRIE	.53	35	S33144105	E137592887	ST HELENS	93.57	08	S41201494	E148164488
PORTLAND	87.16	08	S38191027	E141274587	ST HELENS	273.56	26	S41201710	E148173089
PORTLAND	267.15	26	S38190768	E141285208	STAWELL	114.74	11	S37035626	E142433685
PORTLAND	177.42	17	S38184938	E141275827	STAWELL	294.73	29	S37041528	E142442838
PORTLAND	357.42	35	S38192765	E141280046	STAWELL	185.49	18	S37041680	E142442947
PROSERPINE / WHITSUNDAY COAST					STAWELL	5.49	36	S37044440	E142442616
	114.49	11	S20292576	E148323991	STRAHAN	191.37	18	S42090140	E145172899
PROSERPINE / WHITSUNDAY COAST					STRAHAN	11.37	36	S42094014	E145171852
	294.49	29	S20295371	E148334503	STREAKY BAY	51.8	05	S32504030	E134173734
QUILPIE	94.17	09	S26363192	E144150001	STREAKY BAY	231.8	23	S32502459	E134180099
QUILPIE	274.17	27	S26363546	E144155402	STREAKY BAY	129.66	13	S32495719	E134171382
QUILPIE	194.71	18	S26360556	E144152124	STREAKY BAY	309.65	31	S32502519	E134175383
QUILPIE	14.71	36	S26364292	E144151033	SUNSHINE COAST	128.31	12	S26360197	E153051058
RAMINGINING	92.18	09	S12212460	E134530903	SUNSHINE COAST	308.31	30	S26361508	E153052904
RAMINGINING	272.18	27	S12212631	E134535479	SUNSHINE COAST	194.02	18	S26353973	E153053957
RAVENSTHORPE	58.86	06	S33480660	E120120170	SUNSHINE COAST	14.02	36	S26363642	E153052382
RAVENSTHORPE	238.85	24	S33473840	E120125760	SWAN HILL	49.01	04	S35225517	E143315177
RAVENSTHORPE	138.73	14	S33473630	E120122480	SWAN HILL	229	22	S35223464	E143322061
RAVENSTHORPE	318.72	32	S33480550	E120125550	SWAN HILL	90.95	08	S35222964	E143312954
REMARK	74.08	07	S34120142	E140393435	SWAN HILL	270.94	26	S35223044	E143322871
REMARK	254.07	25	S34114595	E140403962	SWAN HILL	155.5	15	S35223417	E143320595
REMARK	185.08	18	S34114687	E140404322	SWAN HILL	335.5	33	S35225518	E143321764
REMARK	5.08	36	S34121996	E140403968	SYDNEY	74.21	07	S33563751	E151094901
RICHMOND (NSW)	107.11	10	S33360581	E150461649	SYDNEY	254.19	25	S33561604	E151112005
RICHMOND (NSW)	287.1	28	S33362618	E150473559	SYDNEY	167.8	16L	S33570593	E151111983
RICHMOND (NSW)	98.68	09	S20420056	E143062341	SYDNEY	347.79	34R	S33581477	E151113770
RICHMOND (QLD)	278.68	27	S20420804	E143071548	SYDNEY	167.8	16R	S33554840	E151101840
ROBINVALE	29.04	01	S34384860	E142461352	SYDNEY	347.8	34L	S33575140	E151105031
ROBINVALE	209.04	19	S34381625	E142463525	TAMWORTH	73.12	06	S31045945	E150503445
ROBINVALE	134.05	12	S34383267	E142462060	TAMWORTH	253.12	24	S31045153	E150510478
ROBINVALE	314.04	30	S34385919	E142465378	TAMWORTH	132.87	12L	S31041584	E150501310
ROCKHAMPTON	52.45	04	S23225685	E150275540	TAMWORTH	312.86	30R	S31050443	E150511392
ROCKHAMPTON	232.45	22	S23222423	E150284137	TAMWORTH	132.86	12R	S31045276	E150495832

AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
TAMWORTH	312.86	30L	S31051727	E150502901	WANGARATTA	97.91	09	S36250816	E146175862
TAMWORTH	188.26	18	S31043763	E150504777	WANGARATTA	277.9	27	S36251054	E146181983
TAMWORTH	8.26	36	S31051043	E150504224	WANGARATTA	188.23	18	S36242992	E146183482
TAREE	45.04	04	S31533425	E152303572	WANGARATTA	8.24	36	S36252253	E146182540
TAREE	225.04	22	S31525970	E152311627	WARRACKNABEAL	85.98	08	S36191960	E142244664
TAREE	137.81	12	S31530414	E152302988	WARRACKNABEAL	265.97	26	S36191648	E142254148
TAREE	317.8	30	S31531773	E152304432	WARRACKNABEAL	175.57	17	S36190306	E142250575
TAROOM	87.15	08	S25481627	E149534564	WARRACKNABEAL	355.57	35	S36192773	E142250811
TAROOM	267.14	26	S25481451	E149542463	WARREN	41	03	S31442639	E147473301
TAROOM	129.77	12	S25475578	E149533930	WARREN	220.99	21	S31440055	E147475929
TAROOM	309.76	30	S25481862	E149540962	WARREN	99.02	09	S31435982	E147481134
TELFER	121.5	12	S21423769	E122131903	WARREN	279.01	27	S31440587	E147485596
TELFER	301.49	30	S21431166	E122141837	WARRNAMBOOL	47.89	04	S38175548	E142263708
TEMORA	61.89	05	S34253318	E147294282	WARRNAMBOOL	227.89	22	S38173223	E142270972
TEMORA	241.88	23	S34250197	E147305331	WARRNAMBOOL	138.02	13	S38172343	E142262883
TEMORA	98.9	09	S34251857	E147302864	WARRNAMBOOL	318.01	31	S38175650	E142270659
TEMORA	278.9	27	S34252265	E147310009	WEIPA	124.25	12	S12402370	E141545820
TEMORA	188.89	18	S34250272	E147305430	WEIPA	304.25	30	S12405384	E141554328
TEMORA	8.89	36	S34254981	E147304541	WEST SALE	56.3	05	S38054125	E146574273
TENNANT CREEK	74.37	07	S19380916	E134101082	WEST SALE	236.29	23	S38053223	E146575984
TENNANT CREEK	254.37	25	S19375199	E134111559	WEST SALE	99.49	09	S38052295	E146572419
TENNANT CREEK	119.12	11	S19380170	E134103332	WEST SALE	279.48	27	S38053111	E146582597
TENNANT CREEK	299.25	29	S19381850	E134110498	WEST SALE	145.69	14	S38053038	E146575111
THANGOOL	111.48	10	S24293360	E150341872	WEST SALE	325.69	32	S38054913	E146580730
THANGOOL	291.47	28	S24295177	E150350919	WEST WYALONG	41.56	04	S33562291	E147113374
THANGOOL	139.68	14	S24293162	E150343157	WEST WYALONG	221.55	22	S33560400	E147115385
THANGOOL	319.68	32	S24295133	E150344985	WEST WYALONG	98.64	09	S33561689	E147105233
THARGOMINDAH	51.29	04	S27594176	E143482913	WEST WYALONG	278.63	27	S33562461	E147115334
THARGOMINDAH	231.28	22	S27592457	E143485329	WHYALLA	54.32	05	S33033131	E137302571
THARGOMINDAH	140.65	13	S27585308	E143482707	WHYALLA	234.31	23	S33030480	E137310954
THARGOMINDAH	320.64	31	S27592984	E143490103	WHYALLA	174.28	17	S33030406	E137310646
THE GRANITES	116.56	11	S20323852	E130202564	WHYALLA	354.28	35	S33035854	E137311294
THE GRANITES	296.55	29	S20331254	E130213790	WILLIAMTOWN	130.31	12	S32471959	E151492954
THE MONUMENT	145.83	14	S21480757	E139545914	WILLIAMTOWN	310.3	30	S32481077	E151504099
THE MONUMENT	325.83	32	S21485868	E139553629	WILUNA	33.36	03	S26381401	E120125701
TIBOOBURRA	29.92	02	S29272684	E142031492	WILUNA	213.35	21	S26374082	E120132132
TIBOOBURRA	209.91	20	S29265882	E142033334	WILUNA	146.6	15	S26373331	E120130098
TIBOOBURRA	161.13	15	S29263846	E142031390	WILUNA	326.59	33	S26382241	E120133701
TIBOOBURRA	341.13	33	S29272558	E142033230	WINDORAH	50.26	04	S25245203	E142394849
TINDAL	138.91	14	S14304391	E132220789	WINDORAH	230.26	22	S25242348	E142402630
TINDAL	318.9	32	S14315116	E132230810	WINTON	59.25	05	S22215009	E143043887
TOCUMWAL	98.59	09	S35483628	E145354206	WINTON	239.25	23	S22213683	E143050283
TOCUMWAL	278.58	27	S35484211	E145362946	WINTON	148.96	14	S22212547	E143045735
TOCUMWAL	188.52	18	S35481474	E145362134	WINTON	328.95	32	S22220452	E143052262
TOCUMWAL	8.52	36	S35485559	E145361383	WOLLONGONG	94.18	08	S34334423	E150465406
TOOWOOMBA	72.36	06	S27323871	E151544036	WOLLONGONG	274.33	26	S34334732	E150474340
TOOWOOMBA	252.36	24	S27323222	E151550326	WOLLONGONG	169.31	16	S34330537	E150470730
TOOWOOMBA	116.8	11	S27322469	E151544342	WOLLONGONG	349.04	34	S34335803	E150471963
TOOWOOMBA	296.8	29	S27324113	E151551993	WOODIE WOODIE	140.67	14	S21381942	E121110678
TOWNSVILLE	24.16	01	S19152990	E146455300	WOODIE WOODIE	320.67	32	S21390860	E121114988
TOWNSVILLE	204.16	19	S19141753	E146462718	WOOMERA	125.37	12	S31081247	E136485410
TOWNSVILLE	73.98	07	S19152091	E146451996	WOOMERA	305.36	30	S31084281	E136494380
TOWNSVILLE	253.97	25	S19151106	E146455607	WOOMERA	185.82	18	S31080644	E136484993
TREPELL	143.96	14	S21494299	E140525673	WOOMERA	5.82	36	S31092308	E136484085
TREPELL	323.96	32	S21503029	E140533359	WUDINNA	74.45	07	S33023985	E135262259
TRUSCOTT- MUNGALALU					WUDINNA	254.44	25	S33023167	E135265748
	128.32	12	S14045736	E126222496	WUDINNA	144.36	14	S33020401	E135262616
TRUSCOTT- MUNGALALU					WUDINNA	324.36	32	S33024383	E135270006
	308.32	30	S14053360	E126231194	WYCHEPROOF	90.25	08	S36033205	E143140231
TUMBY BAY	160.47	15	S34212485	E136053742	WYCHEPROOF	270.24	26	S36033215	E143143101
TUMBY BAY	340.47	33	S34215840	E136055177	WYCHEPROOF	180.26	17	S36031552	E143143355
TUMUT	181.95	17	S35154839	E148142652	WYCHEPROOF	.26	35	S36034892	E143143336
TUMUT	1.95	35	S35162276	E148142509	WYCHEPROOF	124.24	12	S15301595	E128085559
WAGGA WAGGA	62.16	05	S35100144	E147273649	WYNDHAM	304.24	30	S15304538	E128094019
WAGGA WAGGA	242.12	23	S35093458	E147283832	WYNYARD	64.53	05	S40595301	E145432351
WAGGA WAGGA	125.23	12	S35093812	E147272431	WYNYARD	244.53	23	S40594148	E145435546
WAGGA WAGGA	305.22	30	S35100667	E147281355	WYNYARD	99.25	09	S40594847	E145432628
WAIKERIE	23.28	02	S34110080	E140015155	WYNYARD	279.24	27	S40595707	E145443600
WAIKERIE	203.28	20	S34103594	E140020442	YARRAM	62.34	05	S38341775	E146445371
WAIKERIE	84.96	08	S34111356	E140012547	YARRAM	242.34	23	S38340134	E146453359
WAIKERIE	264.95	26	S34111082	E140020283	YARRAM	99.2	09	S38335834	E146445707
WALGETT	58.13	05	S30021445	E148070595	YARRAM	279.2	27	S38340226	E146443600
WALGETT	238.13	23	S30014659	E148075745	YARRAWONGA	22.44	01	S36021173	E146013136
WALGETT	190.58	18	S30013589	E148073508	YARRAWONGA	202.44	19	S36013798	E146014852
WALGETT	10.58	36	S30021273	E148072717	YORKE ISLAND	122.33	12	S09450235	E143240774

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AD	BRG(T)	RWY	LAT	LONG	AD	BRG(T)	RWY	LAT	LONG
YORKE ISLAND	302	30	S09451734	E143243162					
YOUNG	14.8	01	S34153923	E148144352					
YOUNG	194.79	19	S34150094	E148145570					



## SECTION 18 - CONTROLLED AERODROMES

<b>Aerodrome</b>	<b>State</b>	<b>Code</b>	<b>Latitude</b>	<b>Longitude</b>
ADELAIDE	SA	YPAD	34 56 42S	138 31 50E
ALBURY	NSW	YMAY	36 04 04S	146 57 29E
ALICE SPRINGS	NT	YBAS	23 48 30S	133 54 03E
AMBERLEY	QLD	YAMB	27 38 26S	152 42 43E
ARCHERFIELD	QLD	YBAF	27 34 13S	153 00 29E
AVALON	VIC	YMAV	38 02 22S	144 28 10E
BANKSTOWN	NSW	YSBK	33 55 28S	150 59 18E
BRISBANE	QLD	YBBN	27 23 03S	153 07 03E
BROOME	WA	YBRM	17 56 59S	122 13 40E
CAIRNS	QLD	YBCS	16 53 09S	145 45 19E
CAMDEN	NSW	YSCN	34 02 25S	150 41 14E
CANBERRA	ACT	YSCB	35 18 25S	149 11 42E
COFFS HARBOUR	NSW	YSCH	30 19 14S	153 06 59E
DARWIN	NT	YPDN	12 24 53S	130 52 36E
EAST SALE	VIC	YMES	38 05 56S	147 08 58E
EDINBURGH	SA	YPED	34 42 09S	138 37 15E
ESSENDEN	VIC	YMEN	37 43 41S	144 54 07E
GOLD COAST	QLD	YBCG	28 09 52S	153 30 17E
HAMILTON ISLAND	QLD	YBHM	20 21 29S	148 57 06E
HOBART	TAS	YMHB	42 50 10S	147 30 37E
JANDAKOT	WA	YPJT	32 05 51S	115 52 52E
KARRATHA	WA	YPKA	20 42 44S	116 46 24E
LAUNCESTON	TAS	YMLT	41 32 43S	147 12 51E
MACKAY	QLD	YBMK	21 10 18S	149 10 47E
SUNSHINE COAST	QLD	YBSU	26 36 12S	153 05 28E
MELBOURNE	VIC	YMML	37 40 24S	144 50 36E
MOORABBIN	VIC	YMMB	37 58 33S	145 06 08E
NOWRA	NSW	YSNW	34 56 56S	150 32 13E
OAKEY	QLD	YBOK	27 24 41S	151 44 07E
PARAFIELD	SA	YPPF	34 47 36S	138 37 59E
PEARCE	WA	YPEA	31 40 04S	116 00 54E
PERTH	WA	YPPH	31 56 25S	115 58 01E
RICHMOND	NSW	YSRI	33 36 02S	150 46 51E
ROCKHAMPTON	QLD	YBRK	23 22 55S	150 28 31E
SYDNEY	NSW	YSSY	33 56 46S	151 10 38E
TAMWORTH	NSW	YSTW	31 05 02S	150 50 48E
TINDAL	NT	YPTN	14 31 16S	132 22 40E
TOWNSVILLE	QLD	YBTL	19 15 09S	146 45 55E
WILLIAMTOWN	NSW	YWLM	32 47 42S	151 50 04E
WOOMERA	SA	YPWR	31 08 39S	136 49 01E



## SECTION 19 - UNCERTIFIED OR UNREGISTERED AERODROMES LISTED IN ERSA FAC

NAME	STATE	IDENT	LOCATION	NAME	STATE	IDENT	LOCATION
ADELS GROVE	QLD	YALG	18 42 00S 138 32 00E	COOLOOLA	QLD	YCXA	25 58 30S 153 00 00E
AEROPELICAN	NSW	YPEC	33 03 58S 151 38 53E	COOMINYA	QLD	YBCM	27 23 30S 152 27 42E
ALDINGA	SA	YADG	35 17 20S 138 29 36E	CRANBOURN	TAS	YCRN	41 09 41S 147 00 53E
AMATA	SA	YAMT	26 05 50S 131 12 10E	CROOKWELL	NSW	YCRL	34 30 00S 149 27 00E
ANDAMOOKA	SA	YAMK	30 26 16S 137 08 14E	CROYDON	QLD	YCRY	18 13 03S 142 15 11E
ANNA CREEK	SA	YANK	28 53 50S 136 10 14E	CUE	WA	YCUE	27 26 48S 117 55 07E
ARAMAC	QLD	YAMC	22 58 00S 145 14 30E	CUMMINS TOWN	SA	YCMM	34 15 10S 135 42 48E
ARDROSSAN	SA	YARS	34 26 30S 137 53 00E	DALBY	QLD	YDAY	27 09 19S 151 16 02E
ARKAROOA	SA	YARK	30 24 23S 139 20 48E	DARNLEY ISLAND	QLD	YDNI	09 34 40S 143 46 45E
ARRABURY	QLD	YARY	26 41 26S 141 02 50E	DAVENPORT DOWNS	QLD	YDPD	24 08 44S 141 06 44E
ATHERTON	QLD	YATN	17 15 43S 145 30 52E	DELISSAVILLE	NT	YDLV	12 33 04S 130 41 12E
AUGUSTUS DOWNS	QLD	YAGD	18 30 56S 139 52 43E	DELTA DOWNS	QLD	YDLT	16 59 30S 141 19 00E
AYR	QLD	YAYR	19 35 04S 147 19 45E	DENMARK	WA	YDEK	34 56 45S 117 23 50E
BACCHUS MARSH	VIC	YBSS	37 44 00S 144 25 20E	DOCKER RIVER	NT	YDVR	24 51 30S 129 07 24E
BADU IS	QLD	YBAU	10 09 00S 142 10 27E	DONNINGTON AIRPARK	QLD	YDOP	19 36 45S 146 50 27E
BALCANOONA	SA	YBLC	30 32 04S 139 20 16E	DORUNDA	QLD	YDOR	16 33 14S 141 49 26E
BALLIDU	WA	YBIU	30 35 36S 116 46 48E	DRYSDALE RIVER	WA	YDRD	15 42 47S 126 22 53E
BAMYILI	NT	YBMY	14 31 11S 132 53 00E	DUNBAR	QLD	YDBR	16 03 00S 142 24 00E
BARADINE	NSW	YBAD	30 57 18S 149 05 30E	DUNK IS	QLD	YDKI	17 56 30S 146 08 24E
BARALABA	QLD	YBAB	24 11 12S 149 50 42E	DUNWICH	QLD	YDUN	27 31 00S 153 25 42E
BARWON HEADS/GEELONG	VIC	YBRS	38 15 29S 144 25 39E	DURHAM DOWNS	QLD	YDRH	27 04 30S 141 54 00E
BARYULGIL	NSW	YBYL	29 12 59S 152 36 54E	DURRIE	QLD	YDRI	25 41 05S 140 13 24E
BEAUFORT	VIC	YBFT	37 29 40S 143 25 48E	EIDSVOLD	QLD	YESD	25 21 54S 151 06 30E
BELLBURN	WA	YBEB	17 32 41S 128 18 18E	ELLISTON	SA	YELN	33 38 18S 134 54 00E
BETOOTA	QLD	YBEO	25 41 42S 140 44 12E	EMKAYTEE	NT	YMKT	12 36 36S 131 03 10E
BEVERLEY	SA	YBEE	30 11 12S 139 33 30E	ERNABELLA	SA	YERN	26 15 45S 132 10 54E
BEVERLEY SPRINGS	WA	YBYS	16 44 00S 125 26 00E	EROMANGA	QLD	YEMG	26 42 17S 143 15 43E
BINDA	NSW	YBID	34 18 13S 149 21 37E	ESCOTT	QLD	YESC	17 43 41S 139 24 56E
BOIGU IS	QLD	YBOI	09 14 00S 142 13 00E	EULO	QLD	YEUE	28 10 09S 145 02 30E
BOLLON	QLD	YBLL	28 03 30S 147 29 00E	EVANS HEAD	NSW	YEVD	29 05 36S 153 25 13E
BOMBALA	NSW	YBOM	36 54 18S 149 11 00E	EXMOUTH	WA	YEXM	22 02 29S 114 06 08E
BOULEROO CENTRE	SA	YBOC	32 53 24S 138 22 00E	FEDERATION	NSW	YFDN	35 00 46S 147 22 25E
BOOMI	NSW	YBMI	28 43 44S 149 35 44E	FREGON	SA	YFRG	26 46 33S 132 01 03E
BOONAH	QLD	YBOA	28 01 03S 152 40 36E	GATTON AIRPARK	QLD	YGAS	27 35 24S 152 15 24E
BOORT	VIC	YBBT	36 08 14S 143 43 14E	GAWLER	SA	YGAW	34 35 55S 138 43 17E
BORDERTOWN	SA	YBOR	36 16 18S 140 43 18E	GEELONG	VIC	YGLG	38 13 30S 144 20 00E
BORROLOOLA	NT	YBRL	16 04 31S 136 18 08E	GEORGE TOWN (TAS)	TAS	YGTO	41 04 48S 146 50 24E
BRAMPTON ISLAND	QLD	YBPI	20 48 12S 149 16 12E	GEORGETOWN (QLD)	QLD	YGTN	18 18 12S 143 31 54E
BRIDGEWATER	VIC	YBGR	36 37 00S 143 57 00E	GIBB RIVER	WA	YGIB	16 25 07S 126 26 46E
BUNBURY	WA	YBUN	33 22 41S 115 40 37E	GILES	WA	YGLS	25 03 00S 128 18 00E
CABOOLTURE	QLD	YCAC	27 04 37S 152 59 13E	GILGANDRA	NSW	YGIL	31 41 49S 148 38 10E
CADNEY HS	SA	YCDH	27 54 24S 134 03 21E	GLENORMISTON	QLD	YGLO	22 53 20S 138 49 27E
CAIGUNA	WA	YCAG	32 16 49S 125 28 40E	GOOLWA	SA	YGWA	35 28 55S 138 45 05E
CALOUNDRA	QLD	YCDR	26 48 07S 153 06 19E	GREAT KEPPEL IS	QLD	YGKL	23 11 00S 150 56 30E
CALVIN GROVE	SA	YCVG	34 41 48S 138 34 42E	GREAT LAKES	VIC	YGRL	37 50 33S 148 00 01E
CAMBRIDGE	TAS	YCBG	42 49 36S 147 28 29E	GREGORY DOWNS	QLD	YGDS	18 37 32S 139 14 01E
CAMDEN HAVEN	NSW	YCMH	31 39 54S 152 44 30E	GUNDAROO	NSW	YGDO	35 02 42S 149 15 30E
CAPE LEVEQUE	WA	YCLQ	16 24 02S 122 55 53E	GYMPIE	QLD	YGYM	26 16 58S 152 42 07E
CAPELLA	QLD	YCEL	23 06 00S 148 00 00E	HAASTS BLUFF	NT	YHAA	23 27 02S 131 51 05E
CASINO	NSW	YCAS	28 52 58S 153 04 01E	HAWKER	SA	YHAW	31 51 17S 138 28 06E
CESSNOCK	NSW	YCNK	32 47 15S 151 20 30E	HERBERTVALE CATTLEYARD	QLD	YHCS	18 57 31S 138 03 44E
CLEVEDEN	NSW	YCVD	35 09 46S 148 12 41E	HERMANSBURG	NT	YHMB	23 55 40S 132 48 45E
CLIFTON	QLD	YCFN	27 55 42S 151 50 48E	HILLSTON	NSW	YHLS	33 29 37S 145 31 25E
CLUNY	QLD	YUNY	24 30 41S 139 37 02E	HOLBROOK	NSW	YHBK	35 41 00S 147 19 00E
COBDEN	VIC	YCDE	38 19 36S 143 03 24E	HONEYMOON	SA	YHON	31 45 12S 140 39 54E
COCONUT IS	QLD	YCCT	10 03 00S 143 04 00E	HUNGERFORD	QLD	YHRD	28 59 46S 144 27 11E
COHUNA	VIC	YCOH	35 49 37S 144 12 50E	IFFLEY	QLD	YIFY	18 54 00S 141 13 00E
COLAC	VIC	YOLA	38 17 11S 143 40 47E	ILFRACOMBE	QLD	YILF	23 29 12S 144 30 42E
COLDSTREAM	VIC	YCEM	37 43 42S 145 24 32E	INDULKANA	SA	YIDK	26 57 57S 133 19 30E
COLLARENEBRI	NSW	YCBR	29 31 19S 148 34 56E	INGHAM	QLD	YIGM	18 39 38S 146 09 06E
COLLINSVILLE	QLD	YCSV	20 35 46S 147 51 36E				
COOINDA	NT	YCOO	12 54 10S 132 31 56E				

NAME	STATE	IDENT	LOCATION	NAME	STATE	IDENT	LOCATION
INJUNE	QLD	YINJ 25 51 00S	148 32 00E	MOUNT SANFORD STN	NT	YMSF 16 58 42S	130 33 18E
INKERMAN	QLD	YIKM 16 13 44S	141 25 33E	MOURA	QLD	YMOU 24 36 42S	149 59 47E
INNAMINCKA	SA	YINN 27 42 00S	140 44 00E	MULLEWA	WA	YMWA 28 28 31S	115 31 03E
INNAMINCKA TOWNSHIP	SA	YIMT 27 44 30S	140 44 42E	MUNDUBBERA	QLD	YMDA 25 35 53S	151 19 08E
ISISFORD	QLD	YISF 24 15 33S	144 25 27E	MUNGINDI	NSW	YMGJ 28 58 02S	149 03 13E
IVANHOE	NSW	YIVO 32 53 00S	144 18 36E	MURRAY BRIDGE	SA	YMBD 35 04 00S	139 13 36E
JABIRU	NT	YJAB 12 39 30S	132 53 35E	MURRAY/MER ISLAND	QLD	YMAE 09 54 56S	144 03 19E
JAMESTOWN	SA	YJST 33 11 32S	138 36 57E	MURWILLUMBAH	NSW	YMUR 28 19 52S	153 24 49E
JERILDERIE	NSW	YJER 35 22 12S	145 43 30E	MUTTABURRA	QLD	YMTB 22 35 00S	144 32 00E
JERVOIS	NT	YJVS 22 54 47S	136 07 10E	NAGAMBIE	VIC	YNGB 36 44 09S	145 07 37E
JINDABYNE	NSW	YJIN 36 25 36S	148 36 06E	NAPPA MERRIE	QLD	YNAP 27 33 30S	141 08 00E
JUNDAH	QLD	YJDA 24 49 53S	143 03 56E	NAREMBEEN	WA	YNRB 32 07 00S	118 25 00E
JURIEN BAY	WA	YJNB 30 18 12S	115 03 19E	NARROGIN	WA	YNRG 32 55 48S	117 04 48E
KADINA	SA	YKDI 33 58 12S	137 39 36E	NOOSA	QLD	YNSH 26 25 24S	153 03 48E
KAMILEROI	QLD	YKML 19 22 29S	140 03 22E	NORTHAM	WA	YNTM 31 37 33S	116 41 04E
KATANNING	WA	YKNG 33 42 00S	117 39 12E	NULLAGINE	WA	YNUL 21 54 46S	120 11 55E
KATOOMBA	NSW	YKAT 33 40 06S	150 19 24E	NULLARBOR MOTEL	SA	YNUB 31 26 28S	130 54 08E
KIDMAN SPRINGS	NT	YKDM 16 06 57S	130 57 12E	OAKY CREEK	QLD	YOAY 23 03 35S	148 29 41E
KIDSTON	QLD	YKID 18 52 15S	144 10 24E	OODNADATTA	SA	YOOD 27 33 36S	135 26 42E
KILLARNEY	NT	YKLE 16 15 01S	131 44 49E	ORRORO	SA	YORR 32 47 30S	138 40 00E
KIN KIN RETREAT	WA	YKKN 34 22 45S	116 19 20E	PACIFIC HAVEN	QLD	YPAC 25 14 12S	152 32 36E
KINGS CREEK STN	NT	YKCS 24 25 24S	131 49 12E	PAPUNYA	NT	YPAY 23 14 28S	131 54 25E
KINGSTON SE	SA	YKIG 36 49 12S	139 52 12E	PENFIELD	VIC	YPEF 37 30 48S	144 41 54E
KOORALBYN	QLD	YKBN 28 05 24S	152 50 27E	PETERBOROUGH	SA	YPTB 33 00 18S	138 50 54E
KUBIN	QLD	YKUB 10 13 36S	142 13 25E	PHILLIP ISLAND	VIC	YPID 38 31 23S	145 19 38E
KYNETON	VIC	YKTN 37 13 32S	144 26 49E	PINNAROO	SA	YPNN 35 15 12S	140 56 36E
LAKE KEEPIT	NSW	YKEP 30 53 24S	150 31 36E	POLO FLAT	NSW	YPFT 36 13 45S	149 08 58E
LAKES ENTRANCE	VIC	YLKE 37 51 00S	147 57 00E	POREPUNKAH	VIC	YPOK 36 43 04S	146 53 24E
LAKESIDE AIRPARK	QLD	YLAK 20 41 06S	148 37 30E	PUNGALINA	NT	YPUG 16 43 19S	137 25 16E
LASSIE CREEK STATION	QLD	YLCK 19 23 48S	145 51 00E	QUEENSTOWN	TAS	YQNS 42 04 32S	145 31 51E
LAWN HILL	QLD	YLAH 18 34 35S	138 35 05E	QUORN	SA	YQRN 32 19 12S	138 06 06E
LEGUNE STN	NT	YLGU 15 13 01S	129 26 55E	REDCLIFFE	QLD	YRED 27 12 24S	153 04 04E
LETHBRIDGE AIRPORT	VIC	YLED 37 55 08S	144 06 04E	RIDDELL	VIC	YRID 37 28 48S	144 43 06E
LILYDALE	VIC	YLIL 37 41 31S	145 21 59E	ROBE	SA	YRBE 37 10 35S	139 48 16E
LIZARD ISLAND	QLD	YLZI 14 40 22S	145 27 15E	ROBINHOOD	QLD	YROB 18 50 55S	143 42 40E
LOCKSLEY FIELD	VIC	YLCS 36 48 54S	145 20 54E	ROLLESTON	QLD	YRLL 24 27 39S	148 37 39E
LORRAINE	QLD	YLOR 19 00 23S	139 53 58E	ROMSEY	VIC	YRSY 37 23 30S	144 44 18E
LOUTH	NSW	YLOH 30 31 53S	145 07 43E	ROSEBERTH	QLD	YRSB 25 50 00S	139 39 00E
MABUIAG IS	QLD	YMAA 09 57 06S	142 11 47E	RUTLAND PLAINS	QLD	YRTP 15 38 36S	141 50 36E
MAITLAND (SA)	SA	YMLD 34 23 34S	137 42 26E	SCOTIA SANCTUARY	NSW	YSCA 33 12 18S	141 10 01E
MANSFIELD	VIC	YMFD 37 04 00S	146 07 00E	SERPENTINE	WA	YSEN 32 23 42S	115 52 24E
MARBLE BAR	WA	YMBL 21 09 46S	119 50 02E	SHUTE HARBOUR	QLD	YSHR 20 16 42S	148 45 20E
MARGARET RIVER	WA	YMGJ 33 55 50S	115 06 00E	SINGLETON	NSW	YSGT 32 37 00S	151 12 00E
MARGARET RIVER STN	WA	YMGR 18 37 17S	126 53 02E	SOMERSBY	NSW	YSMB 33 22 04S	151 17 59E
MARLA	SA	YALA 27 20 03S	133 37 35E	SOUTH GALWAY	QLD	YSGW 25 40 29S	142 05 24E
MARREE	SA	YMRE 29 39 46S	138 03 57E	SOUTH GRAFTON	NSW	YSGR 29 42 32S	152 55 42E
MELTON	VIC	YMEL 37 37 18S	144 33 56E	SPRING CREEK	QLD	YSPK 18 37 18S	144 34 06E
MEREENIE	NT	YMEI 23 58 36S	131 33 42E	SPRINGSURE	QLD	YSPI 24 07 54S	148 05 06E
MERREDIN	WA	YMDN 31 31 24S	118 19 14E	STANTHORPE	QLD	YSPE 28 37 13S	151 59 26E
MILES	QLD	YMLS 26 48 22S	150 10 11E	STONEFIELD GLIDING	SA	YSFG 34 20 30S	139 18 30E
MILLICENT	SA	YMCT 37 35 01S	140 21 58E	STONEHENGE	QLD	YSTO 24 21 23S	143 17 29E
MILLMERRAN	QLD	YMMN 27 51 48S	151 16 30E	SWAN BAY	NSW	YSWB 29 02 57S	153 18 04E
MINNIPA	SA	YMPA 32 50 35S	135 08 40E	TAMBO	QLD	YTMB 24 50 20S	146 17 35E
MINTABIE	SA	YMIT 27 19 42S	133 18 18E	TANAMI	NT	YTMN 19 58 00S	129 43 32E
MITCHELL	QLD	YMIT 26 29 00S	147 56 12E	TARA	QLD	YTAA 27 09 24S	150 28 36E
MITTA MITTA	VIC	YITT 36 30 44S	147 21 22E	THE LAKES	NSW	YLKS 31 42 53S	152 43 29E
MITTAGONG	NSW	YMIG 34 26 54S	150 30 12E	THEODORE	QLD	YTDR 24 59 36S	150 05 35E
MONKIRA	QLD	YMNK 24 49 07S	140 33 12E	THYLUNGRA	QLD	YTHY 26 05 36S	143 27 09E
MONTO	QLD	YMTO 24 53 09S	151 06 01E	TILPA	NSW	YTLP 30 55 32S	144 25 12E
MOORABERREE	QLD	YMOO 25 14 38S	140 58 38E	TIMBER CREEK	NT	YTBR 15 37 14S	130 26 44E
MORAWA	WA	YMRW 29 12 05S	116 01 19E	TOORADIN	VIC	YTDN 38 12 56S	145 25 25E
MORNEY	QLD	YMNY 25 21 30S	141 26 00E	TOORAK RESEARCH STN	QLD	YTKS 21 02 30S	141 47 12E
MOUNT BEAUTY	VIC	YMBT 36 44 00S	147 10 00E	TOORAWEEAH	NSW	YTNW 31 26 30S	148 54 00E
MOUNT COOLON	QLD	YMCL 21 23 13S	147 19 56E	TORQUAY	VIC	YTQY 38 18 00S	144 21 54E
MOUNT HOLLAND	WA	YMHL 32 07 06S	119 46 06E	TOTTENHAM	NSW	YTOT 32 14 54S	147 22 09E
MOUNT HOUSE	WA	YMHO 17 03 04S	125 42 48E	TROUGHTON ISLAND	WA	YTTI 13 45 06S	126 08 54E
MOUNT HOWITT	QLD	YMHW 26 30 40S	142 17 00E				

NAME	STATE	IDENT	LOCATION	NAME	STATE	IDENT	LOCATION
TRURO FLAT AIRPARK	SA	YTFA	34 23 54S 139 23 06E	WARRABRI	NT	YWBI	20 59 57S 134 23 47E
TYABB	VIC	YTYA	38 16 00S 145 10 30E	WATERLOO (NT)	NT	YWTL	16 37 51S 129 19 11E
TYAGARAH	NSW	YTYH	28 36 00S 153 33 10E	WATTS BRIDGE	QLD	YWSG	27 05 54S 152 27 36E
UNDARA	QLD	YUDA	18 11 30S 144 36 48E	WAVE HILL	NT	YWAV	17 23 37S 131 07 09E
URANDANGI	QLD	YUDG	21 35 40S 138 21 56E	WEDDERBURN	NSW	YWBN	34 10 48S 150 48 32E
VANROOK STN	QLD	YVRS	16 57 43S 141 57 08E	WELLINGTON	NSW	YWEL	32 27 45S 148 59 26E
VICTORIA RIVER DOWNS	NT	YVRD	16 24 13S 131 00 09E	WHITE CLIFFS	NSW	YWHC	30 51 06S 143 04 19E
WAHRING FIELD	VIC	YWHG	36 40 48S 145 14 36E	WILCANNIA	NSW	YWCA	31 31 35S 143 22 29E
WANAARING	NSW	YWAG	29 42 42S 144 10 16E	WILLIAM CREEK	SA	YWMC	28 54 25S 136 20 28E
WARBURTON	WA	YWBR	26 07 42S 126 35 00E	WONDAI	QLD	YWND	26 17 03S 151 51 41E
WARIALDA	NSW	YWRL	29 32 00S 150 32 00E	WONDOOLA	QLD	YWDL	18 34 30S 140 53 30E
WARKWORTH	NSW	YWKW	32 32 54S 151 01 27E	WROTHAM PARK	QLD	YWMP	16 39 29S 144 00 03E
WARNERVALE	NSW	YWVA	33 15 00S 151 26 00E	WYANDRA	QLD	YWYA	27 16 00S 145 59 24E
WARRABER ISLAND	QLD	YWBS	10 12 24S 142 49 24E	YAM ISLAND	QLD	YYMI	09 53 54S 142 46 18E
				YUENDUMU	NT	YYND	22 15 15S 131 46 56E

### HELICOPTER LANDING SITES LISTED IN ERSA

ENOGERA	QLD	YENO	27 25 31S 152 59 00E	ROYAL NORTH SHORE	NSW	YRNS	33 49 13S 151 11 26E
ERINA HELIPORT	NSW	YEHP	33 26 27S 151 22 07E	ROYAL PRINCE ALFRED HOSPITAL	NSW	YRPA	33 53 27S 151 10 59E
GLENBROOK	NSW	YGNB	33 45 46S 150 38 12E	WESTMEAD HOSPITAL	NSW	YWST	33 48 18S 150 59 00E
NELLY BAY	QLD	YNEY	19 09 43S 146 51 13E	WESTMEAD NETS BASE HOSP	NSW	YWNT	33 48 12S 150 59 24E
NEWCASTLE REGIONAL HELIPORT	NSW	YNRH	32 52 46S 151 43 43E	WOLLONGONG HELIPORT	NSW	YWHP	34 26 22S 150 53 46E
ROBERTSON BARRACKS	NT	YRBK	12 25 30S 130 58 24E	YARRA BANK	VIC	YYBK	37 49 21S 144 57 25E
ROSEHILL HELIPORT	NSW	YRSH	33 49 54S 151 01 30E				

**NOTES**

## SECTION 20 - NAVIGATION AIDS

NAME	TYPE	IDENT	LOCATION	NAME	TYPE	IDENT	LOCATION
ADELAIDE	VOR	AD	34 56 49S 138 31 28E	BOOBY IS	NDB	VND	10 36 18S 141 54 30E
ADELAIDE	DME	AD	34 56 49S 138 31 28E	BORDERTOWN	VOR	BOR	36 23 34S 140 44 31E
ADELAIDE	LOC	IAD	34 57 35S 138 30 55E	BORDERTOWN	NDB	BOR	36 23 25S 140 45 05E
ADELAIDE	ILS	IAD	34 57 35S 138 30 55E	BORROLOOLA	NDB	BRL	16 04 38S 136 18 18E
ADELAIDE	OM	IAD	34 53 55S 138 36 14E	BOULIA	NDB	BOU	22 54 53S 139 54 25E
ADELAIDE	MM	IAD	34 56 05S 138 33 06E	BOURKE	NDB	BKE	30 02 36S 145 56 58E
ADELAIDE	GP	IAD	34 56 37S 138 32 30E	BOWEN	NDB	BWN	20 01 16S 148 12 55E
ALBANY	DME	ABA	34 57 00S 117 48 36E	BREWARRINA	NDB	BRW	29 58 29S 146 48 42E
ALBANY	NDB	ABA	34 57 08S 117 48 38E	BRISBANE	VOR	BN	27 21 58S 153 08 21E
ALBANY	LOC	IAB	34 57 09S 117 49 08E	BRISBANE	DME	BN	27 21 57S 153 08 21E
ALBANY	ILS	IAB	34 57 09S 117 49 08E	BRISBANE	DME	IBS	27 22 40S 153 08 04E
ALBANY	GP	IAB	34 56 28S 117 48 25E	BRISBANE	LOC	IBA	27 22 13S 153 08 13E
ALBURY	VOR	AY	36 04 05S 146 57 58E	BRISBANE	LOC	IBS	27 24 27S 153 06 56E
ALBURY	DME	AY	36 04 05S 146 57 58E	BRISBANE	ILS	IBA	27 22 13S 153 08 12E
ALBURY	NDB	AY	36 04 07S 146 58 11E	BRISBANE	ILS	IBS	27 24 46S 153 06 45E
ALICE SPRINGS	VOR	AS	23 47 34S 133 52 42E	BRISBANE	OM	IBA	27 27 27S 153 05 14E
ALICE SPRINGS	DME	AS	23 47 34S 133 52 42E	BRISBANE	MM	IBA	27 24 36S 153 06 51E
ALICE SPRINGS	NDB	AS	23 46 41S 133 52 25E	BRISBANE	GP	IBA	27 24 03S 153 07 16E
ALICE SPRINGS	LOC	IAS	23 48 56S 133 55 13E	BRISBANE	GP	IBS	27 22 40S 153 08 03E
ALICE SPRINGS	ILS	IAS	23 48 56S 133 55 13E	BROKEN HILL	VOR	BHI	32 00 02S 141 28 48E
ALICE SPRINGS	OM	IAS	23 46 02S 133 49 50E	BROKEN HILL	DME	BHI	32 00 02S 141 28 47E
ALICE SPRINGS	MM	IAS	23 47 44S 133 52 59E	BROKEN HILL	NDB	BHI	31 59 31S 141 28 06E
ALICE SPRINGS	GP	IAS	23 48 14S 133 53 43E	BROMELTON	NDB	BML	27 57 58S 152 54 03E
AMBERLEY	NDB	AMB	27 38 56S 152 43 25E	BROOME	DME	BRM	17 56 49S 122 14 05E
AMBERLEY	TAC	AMB	27 38 30S 152 42 58E	BROOME	NDB	BRM	17 56 47S 122 14 07E
AMBERLEY	LOC	IAM	27 39 00S 152 43 06E	BRYMAROO	NDB	BMR	27 14 06S 161 37 29E
AMBERLEY	ILS	IAM	27 39 00S 152 43 04E	BUNDABERG	NDB	BUD	24 54 24S 152 19 13E
AMBERLEY	OM	IAM	27 32 24S 152 40 06E	BURKETOWN	NDB	BKT	17 45 04S 139 31 54E
AMBERLEY	MM	IAM	27 36 48S 152 42 06E	BUSSELTON	NDB	BLN	33 41 33S 115 23 43E
AMBERLEY	GP	IAM	27 37 24S 152 42 30E	CAIGUNA	VOR	CAG	32 15 48S 125 29 44E
ANDAMOOKA	NDB	AMK	30 27 13S 137 10 00E	CAIGUNA	DME	CAG	32 15 49S 125 29 44E
ARCHERFIELD	NDB	AF	27 34 13S 153 00 58E	CAIRNS	VOR	CS	16 51 00S 145 44 38E
ARDROSSAN	VOR	ARS	34 25 00S 137 53 36E	CAIRNS	DME	CS	16 51 01S 145 44 38E
ARGYLE	VOR	ARG	16 37 54S 128 26 56E	CAIRNS	DME	ICN	16 51 01S 145 44 35E
ARGYLE	DME	ARG	16 38 05S 128 26 51E	CAIRNS	NDB	CS	16 50 49S 145 44 08E
ARMIDALE	DME	ARM	30 31 40S 151 36 55E	CAIRNS	LOC	ICS	16 53 36S 145 45 21E
ARMIDALE	NDB	ARM	30 31 38S 151 36 54E	CAIRNS	LOC	ICN	16 51 53S 145 44 35E
AVALON	VOR	AV	38 02 56S 144 27 32E	CAIRNS	ILS	ICS	16 53 36S 145 45 21E
AVALON	DME	IAV	38 01 50S 144 28 15E	CAIRNS	OM	ICS	16 48 37S 145 43 06E
AVALON	DME	AV	38 02 57S 144 27 33E	CAIRNS	MM	ICS	16 51 29S 145 44 25E
AVALON	LOC	IAV	38 03 34S 144 27 50E	CAIRNS	GP	ICS	16 52 09S 145 44 37E
AVALON	ILS	IAV	38 03 34S 144 27 50E	CALGA	NDB	CAA	33 24 10S 151 12 41E
AVALON	OM	IAV	37 57 44S 144 28 48E	CAMDEN	NDB	CN	34 02 19S 140 41 30E
AVALON	MM	IAV	38 01 04S 144 28 16E	CAMOOWEAL	NDB	CMW	19 54 53S 138 07 01E
AVALON	GP	IAV	38 01 50S 144 28 15E	CANBERRA	VOR	CB	35 16 53S 149 11 45E
AYERS ROCK	DME	AYE	25 10 17S 130 58 29E	CANBERRA	DME	CB	35 16 53S 149 11 45E
AYERS ROCK	NDB	AYE	25 10 22S 130 58 29E	CANBERRA	NDB	CB	35 17 44S 149 12 27E
BAGOT	NDB	BGT	12 24 24S 130 51 25E	CANBERRA	LOC	ICB	35 17 14S 149 11 40E
BAIRNSDALE	NDB	BNS	37 52 52S 147 34 07E	CANBERRA	ILS	ICB	35 17 14S 149 11 40E
BALGO HILL	NDB	BGO	20 08 09S 127 59 20E	CANBERRA	OM	ICB	35 22 44S 149 11 40E
BALLARAT	NDB	BLT	37 30 49S 143 47 26E	CANBERRA	MM	ICB	35 19 46S 149 11 40E
BALLIDU	VOR	BIU	30 35 39S 116 46 47E	CANBERRA	GP	ICB	35 18 43S 149 11 47E
BALLIDU	NDB	BIU	30 35 30S 116 46 10E	CARNARVON	VOR	CAR	24 52 55S 113 40 22E
BALLINA	NDB	BNA	28 50 04S 153 33 45E	CARNARVON	DME	CAR	24 52 55S 113 40 23E
BANKSTOWN	NDB	BK	33 55 42S 150 59 19E	CARNARVON	NDB	CAR	24 53 12S 113 40 09E
BARCALDINE	NDB	BAR	23 33 30S 145 17 53E	CAVERSHAM	NDB	CVM	31 52 42S 115 58 53E
BARROW ISLAND	NDB	BWX	20 51 23S 115 24 22E	CEDUNA	NDB	CDU	32 07 36S 133 43 37E
BATHURST	NDB	BTH	33 24 51S 149 39 25E	CENTURY MINE	NDB	CNY	18 45 14S 138 42 11E
BEERMULLAH	TAC	REM	31 16 25S 115 49 45E	CHARLEVILLE	VOR	CV	26 25 16S 146 15 58E
BENDIGO	NDB	BDG	36 44 34S 144 19 34E	CHARLEVILLE	NDB	CV	26 25 12S 146 14 56E
BIBOOHRA	VOR	BIB	16 55 01S 145 24 43E	CHRISTMAS IS	VOR	XXM	10 25 49S 105 41 22E
BINDOOK	VOR	BIK	34 10 43S 150 06 24E	CHRISTMAS IS	DME	XXM	10 25 49S 105 41 24E
BINDOOK	DME	BIK	34 10 44S 150 06 25E	CHURCH CREEK	NDB	CCK	35 27 51S 149 11 41E
BINDOOK	NDB	BIK	34 10 43S 150 06 41E	CLACKLINE	NDB	CKL	31 41 03S 116 33 42E
BIRDSVILLE	NDB	BDV	25 53 47S 139 21 12E	CLERMONT	NDB	CMT	22 46 23S 147 37 30E
BLACKALL	NDB	BCK	24 25 34S 145 26 09E	CLIFF HEAD OIL FIELD	NDB	CLI	29 27 01S 114 32 24E
BOLINDA	NDB	BOL	37 27 44S 144 47 54E				

NAME	TYPE	IDENT	LOCATION		NAME	TYPE	IDENT	LOCATION	
CLONCURRY	NDB	CCY	20 39 56S	140 30 04E	ESSENDON	NDB	EN	37 43 36S	144 54 41E
COBAR	NDB	CBA	31 32 24S	145 47 55E	ESSENDON	LOC	IEN	37 43 53S	144 53 29E
COCOS (KEELING) IS					ESSENDON	ILS	IEN	37 43 53S	144 53 29E
	VOR	CC	12 12 02S	096 50 27E	ESSENDON	OM	IEN	37 43 53S	144 59 46E
COCOS (KEELING) IS					ESSENDON	MM	IEN	37 43 49S	144 55 36E
	DME	CC	12 12 02S	096 50 28E	ESSENDON	GP	IEN	37 43 47S	144 54 38E
COCOS (KEELING) IS					FITZROY CROSSING				
COCOS (KEELING) ISLAND	NDB	CC	12 08 42S	096 49 11E		NDB	FTZ	18 11 05S	125 33 25E
	NDB	CIL	12 10 15S	096 49 16E	FLINDERS ISLAND				
COEN	NDB	COE	13 45 58S	143 07 02E		NDB	FLI	40 05 44S	148 00 53E
COFFS HARBOUR	VOR	CFS	30 19 10S	153 07 15E	FORBES	NDB	FBS	33 21 51S	147 55 40E
COFFS HARBOUR	DME	CFS	30 19 10S	153 07 16E	FORREST	NDB	FRT	30 51 18S	128 05 58E
COFFS HARBOUR	NDB	CFS	30 18 44S	153 07 02E	GAYNDAH	NDB	GAY	25 35 42S	151 40 23E
COLLINSVILLE	VOR	CSV	20 35 29S	147 47 06E	GEORGETOWN	NDB	GTN	18 17 40S	143 32 57E
CONDOBOLIN	NDB	CDO	33 04 13S	147 12 57E	GERALDTON	VOR	GEL	28 47 25S	114 42 22E
COOBER PEDY	NDB	CBP	29 01 55S	134 43 26E	GERALDTON	DME	GEL	28 47 25S	114 42 22E
COOKTOWN	DME	CKN	15 26 55S	145 11 13E	GERALDTON	NDB	GEL	28 47 54S	114 42 06E
COOKTOWN	NDB	CKN	15 26 55S	145 11 14E	GIBB RIVER	NDB	GIB	16 25 46S	126 25 53E
COOMA	DME	COM	36 21 16S	148 57 28E	GIBRALTAR	NDB	GBA	29 35 48S	152 10 41E
COOMA	NDB	COM	36 21 14S	148 57 27E	GILES	NDB	GLS	25 02 19S	128 17 46E
COONABARABRAN	NDB	CBB	31 19 48S	149 16 14E	GINGIN	NDB	GIG	31 27 35S	155 51 56E
COONAMBLE	NDB	CNM	30 58 28S	148 22 49E	GLADSTONE	VOR	GLA	23 51 55S	151 12 16E
COOTAMUNDRA	NDB	CTM	34 37 39S	148 01 50E	GLEN INNES	NDB	GLI	29 40 20S	151 41 42E
COROWA	NDB	COR	35 59 15S	146 21 26E	GLENFIELD	NDB	GLF	33 59 12S	150 58 35E
CORRYONG	NDB	CRG	36 08 54S	147 51 43E	GOLD COAST	VOR	CG	28 10 08S	153 30 15E
COWES	VOR	CWS	38 30 28S	145 12 49E	GOLD COAST	DME	CG	28 10 08S	153 30 14E
COWES	NDB	CWS	38 31 01S	145 13 15E	GOLD COAST	NDB	CG	28 09 53S	153 30 04E
COWRA	VOR	CWR	33 50 52S	148 38 44E	GOONDIWINDI	NDB	GDI	28 31 21S	150 19 35E
COWRA	NDB	CWR	33 50 42S	148 39 12E	GOULBURN	NDB	GLB	34 48 26S	149 44 14E
CUNDERDIN	NDB	CUN	31 37 30S	117 13 27E	GOVE	VOR	GV	12 15 54S	136 48 59E
CUNNAMULLA	VOR	CMU	28 02 20S	145 37 25E	GOVE	DME	GV	12 15 54S	136 48 59E
CUNNAMULLA	NDB	CMU	28 02 05S	145 37 26E	GOVE	NDB	GV	12 16 13S	136 49 28E
CURTIN	VOR	CIN	17 35 20S	123 51 07E	GRAFTON	NDB	GFN	29 45 35S	153 01 39E
CURTIN	DME	CIN	17 35 20S	123 51 07E	GRIFFITH	VOR	GTH	34 14 58S	146 03 55E
CURTIN	NDB	CIN	17 34 27S	123 49 52E	GRIFFITH	DME	GTH	34 14 59S	146 03 55E
CURTIN	TAC	CTN	17 34 41S	123 49 45E	GRIFFITH	NDB	GTH	34 16 38S	146 03 24E
DARWIN	VOR	DN	12 25 24S	130 54 23E	GROOTE EYLANDT	DME	GTE	13 58 31S	136 27 18E
DARWIN	DME	DN	12 25 24S	130 54 23E	GROOTE EYLANDT	NDB	GTE	13 58 30S	136 27 20E
DARWIN	NDB	DN	12 25 53S	130 57 41E	GUNNEDAH	NDB	GDH	30 57 15S	150 14 54E
DARWIN	TAC	DAR	12 24 49S	130 53 00E	HALLS CREEK	NDB	HLC	18 13 59S	127 40 21E
DARWIN	LOC	IDN	12 24 31S	130 51 46E	HAMILTON	NDB	HML	37 38 57S	142 03 28E
DARWIN	ILS	IDN	12 24 31S	130 51 46E	HAMILTON ISLAND				
DARWIN	OM	IDN	12 26 24S	130 57 17E		VOR	HM	20 21 04S	148 57 21E
DARWIN	MM	IDN	12 25 20S	130 54 13E	HAMILTON ISLAND				
DARWIN	GP	IDN	12 25 01S	130 53 32E		DME	HM	20 21 04S	148 57 21E
DENILIQUIN	NDB	DLQ	35 33 07S	144 57 06E	HAMILTON ISLAND				
DERBY	NDB	DBY	17 21 25S	123 40 01E		NDB	HM	20 21 25S	148 56 57E
DEVONPORT	VOR	DPO	41 10 12S	146 26 03E	HAY	NDB	HAY	34 32 32S	144 49 58E
DEVONPORT	DME	DPO	41 10 13S	146 26 03E	HOBART	VOR	HB	42 50 50S	147 31 36E
DEVONPORT	NDB	DPO	41 10 26S	146 25 43E	HOBART	DME	HB	42 50 50S	147 31 36E
DUBBO	VOR	DU	32 13 10S	148 34 40E	HOBART	NDB	HB	42 48 44S	147 28 46E
DUBBO	DME	DU	32 13 11S	148 34 40E	HOBART	LOC	IHB	42 50 45S	147 31 30E
DUBBO	NDB	DU	32 13 03S	148 33 33E	HOBART	ILS	IHB	42 50 46S	147 31 31E
DYSART	NDB	DYS	22 35 51S	148 21 04E	HOBART	OM	IHB	42 47 10S	147 26 13E
EAST SALE	DME	IES	38 05 45S	147 09 33E	HOBART	MM	IHB	42 48 45S	147 28 43E
EAST SALE	NDB	ESL	38 06 41S	147 09 34E	HOBART	GP	IHB	42 49 49S	147 30 21E
EAST SALE	TAC	ESL	38 06 08S	147 09 16E	HOLBROOK	NDB	HBK	35 37 30S	147 28 02E
EAST SALE	LOC	IES	38 06 29S	147 08 06E	HOOKER CREEK	NDB	HOO	18 19 51S	130 38 14E
EAST SALE	ILS	IES	38 06 29S	147 08 06E	HORN ISLAND	NDB	HID	10 35 31S	142 17 33E
EAST SALE	GP	IES	38 05 45S	147 09 33E	HORSHAM	NDB	HSM	36 40 19S	142 10 05E
ECHUCA	NDB	ECH	36 09 55S	144 45 53E	HOWARD SPRINGS	NDB	HWS	12 28 08S	131 02 35E
EDINBURGH	NDB	EDN	34 42 25S	138 37 54E	HUGHENDEN	VOR	HUG	20 48 51S	144 13 23E
EDINBURGH	TAC	EDN	34 42 17S	138 36 45E	HUGHENDEN	NDB	HUG	20 49 14S	144 13 45E
EDINBURGH	LOC	IED	34 43 12S	138 36 48E	INNISFAIL	NDB	IFL	17 33 42S	146 00 55E
EDINBURGH	ILS	IED	34 43 10S	138 36 47E	INVERELL	NDB	IVL	29 53 05S	151 08 24E
EDINBURGH	OM	IED	34 37 30S	138 37 48E	JACOBS WELL	VOR	JCW	27 45 41S	153 20 04E
EDINBURGH	MM	IED	34 41 06S	138 37 12E	JANDAKOT	NDB	JT	32 06 10S	115 53 12E
EDINBURGH	GP	IED	34 41 48S	138 36 54E	JERVOIS	NDB	JVS	22 56 57S	136 08 42E
EILDON WEIR	VOR	ELW	37 12 23S	145 50 06E	JULIA CREEK	NDB	JLC	20 39 54S	141 43 27E
EMERALD	NDB	EML	23 34 03S	148 10 16E	JURIEN BAY	VOR	JNB	30 18 48S	115 03 14E
EPPING	NDB	EPP	37 40 18S	145 01 35E	KALGOORLIE	VOR	KG	30 47 23S	121 27 10E
ESPERANCE	VOR	ESP	33 40 50S	121 49 26E	KALGOORLIE	DME	KG	30 47 23S	121 27 11E
ESPERANCE	DME	ESP	33 40 43S	121 49 18E	KALGOORLIE	NDB	KG	30 47 43S	121 27 48E
ESPERANCE	NDB	ESP	33 41 13S	121 49 38E	KARRATHA	VOR	KA	20 42 54S	116 46 26E
					KARRATHA	DME	KA	20 42 54S	116 46 26E



NAME	TYPE	IDENT	LOCATION	NAME	TYPE	IDENT	LOCATION
KARRATHA	NDB	KA	20 42 22S 116 47 02E	MILDURA	NDB	MIA	34 14 52S 142 04 26E
KATOOMBA	NDB	KAT	33 42 39S 150 17 59E	MINNIPA	NDB	MPA	32 50 36S 135 08 53E
KEMPSEY	NDB	KMP	31 03 30S 152 47 24E	MODBURY	NDB	MBY	34 49 56S 138 41 56E
KILCOY	NDB	KCY	26 55 08S 152 34 22E	MOOMBA	DME	OOM	28 06 15S 140 11 59E
KING ISLAND	NDB	KII	39 53 21S 143 52 31E	MOOMBA	NDB	OOM	28 06 16S 140 11 57E
KINGAROY	NDB	KRY	26 34 43S 151 50 40E	MOORABBIN	NDB	MB	37 58 35S 145 05 25E
KINGSCOTE	NDB	KSC	35 42 33S 137 30 51E	MORANBAH	NDB	MRB	22 03 45S 148 04 31E
KOWANYAMA	NDB	KOW	15 28 47S 141 44 54E	MORAWA	NDB	MRW	29 12 32S 116 01 25E
KUNUNURRA	VOR	KU	15 46 32S 128 42 31E	MOREE	NDB	MOR	29 29 50S 149 51 06E
KUNUNURRA	DME	KU	15 46 32S 128 42 32E	MORNINGTON ISLAND			
KUNUNURRA	NDB	KU	15 47 02S 128 42 14E		NDB	MTI	16 39 33S 139 10 13E
LAKE ALBERT	NDB	LRT	35 41 17S 139 20 53E	MORUYA	NDB	MRY	35 53 54S 150 08 34E
LARAVALE	VOR	LAV	28 05 23S 152 55 29E	MOUNT GAMBIE	VOR	MTG	37 45 05S 140 47 07E
LATROBE VALLEY	NDB	LTV	38 12 49S 146 28 30E	MOUNT GAMBIE	NDB	MTG	37 45 09S 140 46 44E
LAUNCESTON	VOR	LT	41 32 38S 147 12 48E	MOUNT HOPE	VOR	MTP	34 08 06S 135 20 23E
LAUNCESTON	DME	LT	41 32 38S 147 12 47E	MOUNT HOPE	DME	MTP	34 08 06S 135 20 23E
LAUNCESTON	NDB	LT	41 33 40S 147 13 30E	MOUNT HOPE	NDB	MTP	34 07 32S 135 20 29E
LAUNCESTON	LOC	ILT	41 32 03S 147 12 06E	MOUNT ISA	VOR	MA	20 39 53S 139 29 08E
LAUNCESTON	ILS	ILT	41 32 04S 147 12 07E	MOUNT ISA	DME	MA	20 39 53S 139 29 09E
LAUNCESTON	OM	ILT	41 36 21S 147 15 45E	MOUNT ISA	NDB	MA	20 40 31S 139 29 12E
LAUNCESTON	MM	ILT	41 33 38S 147 13 30E	MOUNT KEITH	NDB	MNE	27 17 13S 120 32 55E
LAUNCESTON	GP	ILT	41 32 56S 147 12 59E	MOUNT LIVINGSTONE			
LAVERTON	NDB	LTN	28 36 44S 122 25 21E		VOR	LVG	37 08 28S 147 33 08E
LEARMONTH	VOR	LM	22 14 05S 114 05 39E	MOUNT LIVINGSTONE			
LEARMONTH	DME	LM	22 14 05S 114 05 39E		NDB	LVG	37 08 41S 147 32 55E
LEARMONTH	NDB	LM	22 14 29S 114 05 45E	MOUNT MAGNET	NDB	MOG	28 03 51S 117 50 37E
LEARMONTH	TAC	LMO	22 13 28S 114 05 33E	MOUNT MCQUOID	NDB	MQD	33 06 44S 151 08 21E
LEIGH CREEK	VOR	LEC	30 35 47S 138 25 44E	MOUNT SANDON	NDB	MSO	31 23 11S 151 24 45E
LEIGH CREEK	NDB	LEC	30 35 55S 138 26 32E	MUDGE	VOR	MDG	32 33 39S 149 35 37E
LEINSTER	NDB	LST	27 50 26S 120 42 01E	MUDGE	NDB	MDG	32 33 55S 149 36 59E
LEONORA	NDB	LEO	28 52 44S 121 19 13E	NARACOORTE	NDB	NRC	36 58 41S 140 43 28E
LISMORE	NDB	LIS	28 49 23S 153 15 27E	NAREMBEEN	NDB	NRB	32 04 18S 118 23 42E
LOCKHART RIVER	NDB	LHR	12 47 19S 143 18 14E	NARRABRI	NDB	NBR	30 19 15S 149 49 52E
LONGREACH	VOR	LRE	23 25 28S 144 16 56E	NARRANDERA	VOR	NAR	34 42 07S 146 31 01E
LONGREACH	NDB	LRE	23 25 42S 144 17 21E	NARRANDERA	DME	NAR	34 42 08S 146 31 01E
LORD HOWE ISLAND				NARRANDERA	NDB	NAR	34 42 25S 146 30 46E
	DME	LHI	31 31 44S 159 04 21E	NARROMINE	NDB	NRM	32 13 23S 148 13 45E
LORD HOWE ISLAND				NEWMAN	VOR	NWN	23 25 16S 119 48 11E
	NDB	LHI	31 31 44S 159 04 23E	NEWMAN	DME	NWN	23 25 16S 119 48 11E
MACKAY	VOR	MK	21 10 23S 149 11 14E	NEWMAN	NDB	NWN	23 25 05S 119 47 51E
MACKAY	DME	MK	21 10 23S 149 11 15E	NGUKURR	NDB	NGU	14 43 30S 134 44 19E
MACKAY	NDB	MK	21 09 44S 149 11 11E	NHILL	VOR	NHL	36 18 57S 141 38 44E
MALENY	VOR	MLY	26 44 41S 152 45 41E	NHILL	NDB	NHL	36 17 23S 141 38 38E
MALLACOOTA	VOR	MCO	37 35 46S 149 43 06E	NILE	NDB	NIE	41 39 10S 147 18 12E
MALLACOOTA	DME	MCO	37 35 57S 149 43 26E	NORFOLK IS	VOR	NF	29 02 50S 167 55 56E
MALLACOOTA	NDB	MCO	37 35 48S 149 43 45E	NORFOLK IS	DME	NF	29 02 51S 167 55 53E
MANGALORE	VOR	MNG	36 53 09S 145 11 39E	NORFOLK IS	NDB	NF	29 00 26S 167 55 15E
MANGALORE	NDB	MNG	36 53 50S 145 10 52E	NORMANTON	NDB	NTN	17 41 45S 141 04 23E
MANINGRIDA	NDB	MGD	12 03 46S 134 13 54E	NORSEMAN	NDB	NSM	32 11 40S 121 47 57E
MANJIMUP	NDB	MJM	34 15 29S 116 07 17E	NORTH RANKIN A PLATFORM			
MANSFIELD	NDB	MFD	37 02 50S 146 08 23E		NDB	RKA	19 35 08S 116 08 12E
MARYBOROUGH (QLD)				NOWRA	DME	INA	34 56 15S 150 32 53E
	NDB	MYB	25 31 11S 152 42 36E	NOWRA	NDB	NWA	34 57 04S 150 31 47E
MCARTHUR RIVER MINE				NOWRA	TAC	NWA	34 57 00S 150 32 00E
	NDB	MHU	16 26 46S 136 04 41E	NOWRA	LOC	INA	34 57 06S 150 31 59E
MEEKATHARRA	VOR	MEK	26 36 25S 118 31 57E	NOWRA	ILS	INA	34 57 06S 150 31 59E
MEEKATHARRA	DME	MEK	26 36 25S 118 31 56E	NOWRA	OM	INA	34 51 55S 150 38 09E
MEEKATHARRA	NDB	MEK	26 36 56S 118 32 25E	NOWRA	GP	INA	34 56 15S 150 32 53E
MELBOURNE	VOR	ML	37 39 36S 144 50 31E	NYNGAN	NDB	NYN	31 33 08S 147 11 41E
MELBOURNE	DME	ML	37 39 36S 144 50 32E	OAKEY	VOR	OK	27 23 59S 151 44 16E
MELBOURNE	DME	IMS	37 39 24S 144 50 01E	OAKEY	DME	OK	27 23 59S 151 44 17E
MELBOURNE	LOC	IMS	37 41 19S 144 50 30E	OAKEY	NDB	OK	27 25 17S 151 44 14E
MELBOURNE	LOC	IMW	37 39 36S 144 48 36E	OAKEY	LOC	IOK	27 24 59S 151 44 53E
MELBOURNE	ILS	IMW	37 39 36S 144 48 36E	OAKEY	ILS	IOK	27 24 59S 151 44 53E
MELBOURNE	ILS	IMS	37 41 19S 144 50 30E	OAKEY	OM	IOK	27 21 00S 151 41 48E
MELBOURNE	OM	IMW	37 40 01S 144 55 38E	OAKEY	MM	IOK	27 23 42S 151 43 54E
MELBOURNE	OM	IMS	37 35 27S 144 49 24E	OAKEY	GP	IOK	27 24 12S 151 44 24E
MELBOURNE	MM	IMW	37 39 46S 144 51 37E	ODNADATTA	NDB	OOD	27 33 17S 135 26 30E
MELBOURNE	MM	IMS	37 38 40S 144 50 00E	ORANGE	NDB	ORG	33 22 59S 149 07 28E
MELBOURNE	GP	IMW	37 39 38S 144 50 40E	OSPREY OIL PLATFORM			
MELBOURNE	GP	IMS	37 39 24S 144 50 02E		NDB	OSP	19 54 30S 115 07 52E
MERIMBULA	DME	MER	36 54 52S 149 53 57E	PARABURDOO	VOR	PBO	23 10 21S 117 44 13E
MERIMBULA	NDB	MER	36 54 51S 149 53 58E	PARABURDOO	DME	PBO	23 10 22S 117 44 13E
MILDURA	VOR	MIA	34 13 36S 142 05 09E	PARABURDOO	NDB	PBO	23 10 44S 117 44 33E
MILDURA	DME	MIA	34 13 36S 142 05 09E	PARAFIELD	NDB	PF	34 47 47S 138 37 52E

NAME	TYPE	IDENT	LOCATION	NAME	TYPE	IDENT	LOCATION
PARKERVILLE	NDB	PRL	31 51 34S 116 07 03E	STRAHAN	NDB	SRN	42 09 10S 145 17 41E
PARKES	VOR	PKS	33 07 53S 148 14 14E	STRATHBOGIE	NDB	SBG	36 51 10S 145 44 19E
PARKES	DME	PKS	33 07 53S 148 14 15E	SUNSHINE COAST	VOR	SU	26 35 52S 153 05 25E
PARKES	NDB	PKS	33 08 43S 148 15 09E	SUNSHINE COAST	DME	SU	26 35 52S 153 05 25E
PEARCE	NDB	PEA	31 39 16S 116 01 08E	SUNSHINE COAST	NDB	SU	26 35 32S 153 05 30E
PEARCE	TAC	PEA	31 40 26S 116 01 03E	SWAN HILL	NDB	SWH	35 22 50S 143 32 25E
PEARCE	LOC	IPC	31 39 36S 116 00 48E	SYDNEY	VOR	SY	33 56 34S 151 10 50E
PEARCE	LOC	IFE	31 41 10S 116 01 01E	SYDNEY	DME	SY	33 56 34S 151 10 51E
PEARCE	ILS	IPC	31 39 37S 116 00 48E	SYDNEY	DME	ISW	33 56 23S 151 11 10E
PEARCE	ILS	IFE	31 41 10S 116 01 01E	SYDNEY	DME	ISY	33 56 39S 151 10 03E
PEARCE	OM	IPC	31 46 24S 116 01 42E	SYDNEY	DME	ISS	33 57 15S 151 11 27E
PEARCE	OM	IFE	31 34 42S 116 00 06E	SYDNEY	DME	IKN	33 58 06S 151 11 29E
PEARCE	MM	IPC	31 41 36S 116 01 00E	SYDNEY	LOC	ISN	33 55 39S 151 10 16E
PEARCE	MM	IFE	31 39 12S 116 00 42E	SYDNEY	LOC	ISS	33 58 24S 151 11 40E
PEARCE	GP	IPC	31 40 54S 116 01 00E	SYDNEY	LOC	ISW	33 56 39S 151 09 43E
PEARCE	GP	IFE	31 39 54S 116 00 46E	SYDNEY	LOC	IKS	33 58 01S 151 10 53E
PERTH	VOR	PH	31 56 42S 115 57 33E	SYDNEY	LOC	ISY	33 56 13S 151 11 31E
PERTH	DME	PH	31 56 42S 115 57 34E	SYDNEY	LOC	IKN	33 56 51S 151 11 16E
PERTH	DME	IPN	31 57 22S 115 57 43E	SYDNEY	ILS	IKS	33 58 01S 151 10 53E
PERTH	LOC	IPH	31 56 32S 115 57 25E	SYDNEY	ILS	ISY	33 56 13S 151 11 31E
PERTH	LOC	IPN	31 55 34S 115 58 09E	SYDNEY	ILS	ISN	33 55 39S 151 10 16E
PERTH	LOC	IGD	31 57 43S 115 57 32E	SYDNEY	ILS	IKN	33 56 51S 151 11 16E
PERTH	ILS	IGD	31 57 42S 115 57 32E	SYDNEY	ILS	ISW	33 56 39S 151 09 43E
PERTH	ILS	IPH	31 56 32S 115 57 25E	SYDNEY	ILS	ISS	33 58 24S 151 11 40E
PERTH	ILS	IPN	31 55 34S 115 58 09E	SYDNEY	OM	IKS	33 51 58S 151 09 19E
PERTH	OM	IPH	31 53 46S 116 02 46E	SYDNEY	OM	ISY	33 57 41S 151 05 18E
PERTH	OM	IGD	31 51 29S 115 59 21E	SYDNEY	OM	ISN	34 01 34S 151 11 49E
PERTH	MM	IPH	31 55 36S 115 59 13E	SYDNEY	MM	ISY	33 56 46S 151 09 12E
PERTH	MM	IGD	31 55 15S 115 58 15E	SYDNEY	MM	IKS	33 54 55S 151 10 03E
PERTH	GP	IGD	31 55 53S 115 58 10E	SYDNEY	GP	ISN	33 57 41S 151 10 53E
PERTH	GP	IPH	31 56 01S 115 58 37E	SYDNEY	GP	ISW	33 56 23S 151 11 09E
PERTH	GP	IPN	31 57 22S 115 57 42E	SYDNEY	GP	ISS	33 57 15S 151 11 27E
PINGELLY	NDB	PIY	32 32 21S 117 04 28E	SYDNEY	GP	IKN	33 58 06S 151 11 29E
PLENTY	NDB	PLE	37 43 13S 145 06 41E	SYDNEY	GP	ISY	33 56 38S 151 10 03E
POINT COOK	NDB	PCK	37 55 37S 144 45 23E	SYDNEY	GP	IKS	33 55 58S 151 10 16E
POINT LOOKOUT	VOR	PLO	30 29 33S 152 21 33E	TAILEM BEND	VOR	TBD	35 14 36S 139 30 37E
POINT LOOKOUT	NDB	PLO	30 28 55S 152 23 50E	TAILEM BEND	NDB	TBD	35 15 12S 139 28 00E
PORT AUGUSTA	NDB	PAG	32 31 35S 137 42 04E	TAMWORTH	VOR	TW	31 03 58S 150 49 49E
PORT HEDLAND	VOR	PD	20 22 43S 118 37 22E	TAMWORTH	DME	TW	31 03 58S 150 49 48E
PORT HEDLAND	DME	PD	20 22 43S 118 37 22E	TAMWORTH	NDB	TW	31 04 16S 150 49 52E
PORT HEDLAND	NDB	PD	20 23 16S 118 38 38E	TAMWORTH	LOC	ITW	31 04 12S 150 50 09E
PORT LINCOLN	NDB	PLC	34 36 16S 135 52 24E	TAMWORTH	ILS	ITW	31 04 12S 150 50 09E
PORT MACQUARIE	NDB	PMQ	31 26 08S 152 52 00E	TAMWORTH	OM	ITW	31 08 45S 150 55 50E
PORTLAND	NDB	POD	38 18 52S 141 28 24E	TAMWORTH	MM	ITW	31 05 28S 150 51 43E
PROSERPINE	VOR	PN	20 29 49S 148 33 11E	TAMWORTH	GP	ITW	31 04 53S 150 51 08E
PROSERPINE	DME	PN	20 29 49S 148 33 10E	TAREE	NDB	TRE	31 53 22S 152 30 34E
PROSERPINE	NDB	PN	20 29 21S 148 33 34E	TAROOM	VOR	TAM	25 48 10S 149 53 47E
QUIRINDI	NDB	QDI	31 29 34S 150 31 26E	TAROOM	NDB	TAM	25 48 07S 149 53 31E
RENMARK	NDB	REN	34 11 32S 140 40 33E	TEA TREE	NDB	TTR	42 41 32S 147 18 50E
RICHMOND	LOC	IRI	33 36 02S 150 46 02E	TELFER	NDB	TEF	21 42 41S 122 12 48E
RICHMOND	ILS	IRI	33 36 02S 150 46 02E	TEMPLE BAR	NDB	TPB	23 44 42S 133 47 20E
RICHMOND	OM	IRI	33 37 54S 150 53 06E	TENNANT CREEK	VOR	TNK	19 38 05S 134 10 55E
RICHMOND	MM	IRI	33 36 35S 150 48 08E	TENNANT CREEK	DME	TNK	19 38 05S 134 10 54E
RICHMOND	GP	IRI	33 36 27S 150 47 23E	TENNANT CREEK	NDB	TNK	19 38 39S 134 10 31E
RICHMOND (NSW)	NDB	RIC	33 35 49S 150 46 35E	THANGOOL	DME	TNG	24 29 38S 150 34 10E
RICHMOND (NSW)	TAC	RIC	33 36 27S 150 47 56E	THANGOOL	NDB	TNG	24 29 39S 150 34 12E
RICHMOND (QLD)	NDB	RMD	20 41 52S 143 06 36E	THARGOMINDAH	NDB	TGM	27 59 36S 143 48 54E
ROCKDALE	NDB	ROC	37 35 28S 144 49 22E	THE GRANITES	NDB	TGT	20 33 10S 130 19 58E
ROCKHAMPTON	VOR	RK	23 22 58S 150 28 17E	THE MONUMENT	NDB	TMO	21 48 35S 139 55 27E
ROCKHAMPTON	DME	RK	23 22 58S 150 28 18E	TIBOOBURRA	NDB	TIB	29 26 47S 142 03 29E
ROCKHAMPTON	NDB	RK	23 22 15S 150 28 31E	TINDAL	VOR	TN	14 31 09S 132 22 16E
ROMA	NDB	ROM	26 32 35S 148 46 54E	TINDAL	NDB	TN	14 30 57S 132 21 37E
ROTTNEST ISLAND	NDB	RTI	32 00 15S 115 32 41E	TINDAL	TAC	TDL	14 31 24S 132 22 23E
RUGBY	NDB	RUG	34 23 12S 148 58 32E	TINDAL	LOC	ITN	14 32 00S 132 23 18E
SAINT HELENS	NDB	STH	41 20 07S 148 16 54E	TINDAL	ILS	ITN	14 32 00S 132 23 18E
SCHERGER	TAC	SGR	12 37 10S 142 05 20E	TINDAL	OM	ITN	14 27 48S 132 19 30E
SCONE	NDB	SCO	32 02 05S 150 49 52E	TINDAL	MM	ITN	14 30 18S 132 21 42E
SHEPPARTON	NDB	SHT	36 25 42S 145 23 46E	TINDAL	GP	ITN	14 30 54S 132 22 12E
SIMPSONS GAP	NDB	SPG	23 43 20S 133 44 45E	TOOWOOMBA	NDB	TWB	27 32 31S 151 54 43E
SINGLETON	NDB	SGT	32 33 08S 151 15 27E	TOWNSVILLE	VOR	TL	19 14 39S 146 45 29E
SMITHTON	NDB	SMI	40 49 59S 145 04 54E	TOWNSVILLE	DME	TL	19 14 39S 146 45 30E
SOUTHERN CROSS	NDB	SCR	31 13 57S 119 21 21E	TOWNSVILLE	NDB	TVL	19 14 49S 146 45 44E
ST GEORGE	NDB	SGE	28 02 50S 148 35 50E	TOWNSVILLE	TAC	TVL	19 16 44S 146 44 33E
STONEFIELD	NDB	SFL	34 23 32S 139 20 59E	TOWNSVILLE	LOC	ITL	19 14 07S 146 46 32E
				TOWNSVILLE	ILS	ITL	19 14 07S 146 46 32E

NAME	TYPE	IDENT	LOCATION	NAME	TYPE	IDENT	LOCATION
TOWNSVILLE	OM	ITL	19 19 51S 146 43 50E	WEST MAITLAND	VOR	WMD	32 45 18S 151 31 55E
TOWNSVILLE	MM	ITL	19 16 15S 146 45 31E	WEST MAITLAND	NDB	WMD	32 45 18S 151 31 58E
TOWNSVILLE	GP	ITL	19 15 19S 146 45 53E	WEST WYALONG	NDB	WWL	33 56 08S 147 11 24E
TROUGHTON ISLAND				WHYALLA	NDB	WHA	33 03 29S 137 31 27E
	NDB	TTX	13 45 17S 126 08 55E	WILLIAMSDALE	VOR	WLE	35 33 51S 149 10 39E
TRUSCOTT-MUNGALALU				WILLIAMSDALE	NDB	WLE	35 33 42S 149 10 41E
	NDB	TST	14 05 23S 126 23 12E	WILLIAMTOWN	NDB	WLM	32 48 12S 151 49 44E
VICTORIA RIVER DOWNS				WILLIAMTOWN	TAC	WLM	32 47 49S 151 50 00E
	NDB	VRD	16 24 17S 131 00 24E	WILLIAMTOWN	LOC	IWM	32 48 17S 151 50 49E
WAGGA WAGGA	VOR	WG	35 09 57S 147 28 09E	WILLIAMTOWN	ILS	IWM	32 48 17S 151 50 49E
WAGGA WAGGA	DME	WG	35 09 57S 147 28 08E	WILLIAMTOWN	OM	IWM	32 43 54S 151 44 42E
WAGGA WAGGA	DME	IWG	35 09 43S 147 28 31E	WILLIAMTOWN	MM	IWM	32 47 00S 151 49 00E
WAGGA WAGGA	NDB	WG	35 09 47S 147 27 20E	WILLIAMTOWN	GP	IWM	32 47 29S 151 49 35E
WAGGA WAGGA	LOC	IWG	35 10 04S 147 27 30E	WILUNA	NDB	WLU	26 37 29S 120 13 12E
WAGGA WAGGA	ILS	IWG	35 10 04S 147 27 30E	WINDORAH	NDB	WDH	25 24 39S 142 39 48E
WAGGA WAGGA	GP	IWG	35 09 42S 147 28 31E	WINTON	NDB	WTN	22 21 55S 143 05 02E
WALGETT	VOR	WLG	30 01 43S 148 07 42E	WOLLONGONG	NDB	WOL	34 33 29S 150 47 28E
WALGETT	NDB	WLG	30 01 38S 148 07 26E	WONTHAGGI	VOR	WON	38 28 16S 145 37 24E
WALLABY	NDB	WAY	23 52 27S 134 01 47E	WONTHAGGI	NDB	WON	38 28 21S 145 37 28E
WANGARATTA	NDB	WGT	36 25 17S 146 18 16E	WOOMERA	NDB	WR	31 08 36S 136 48 30E
WARBURTON	NDB	WBR	26 07 41S 126 34 47E	WYNDHAM	NDB	WYM	15 30 35S 128 09 05E
WARRACKNABEAL	NDB	WKB	36 19 10S 142 24 41E	WYNYARD	VOR	WYY	40 59 57S 145 43 35E
WARRNAMBOOL	NDB	WBL	38 17 15S 142 27 13E	WYNYARD	NDB	WYY	40 59 53S 145 42 30E
WEE JASPER	VOR	WJS	35 15 38S 148 40 03E	YARROWEE	VOR	YWE	37 44 18S 143 45 18E
WEE JASPER	NDB	WJS	35 15 26S 148 39 37E	YARROWEE	NDB	YWE	37 44 32S 143 45 24E
WEIPA	VOR	WP	12 40 25S 141 55 21E	YASS	NDB	YAS	34 49 42S 149 02 32E
WEIPA	DME	WP	12 40 25S 141 55 21E	YOUNG	NDB	YNG	34 15 00S 148 14 46E
WEIPA	NDB	WP	12 39 42S 141 53 56E				

**NOTES**

## SECTION 21 - IFR WAYPOINTS

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
ABARB	S 32 51 06.41 E 154 56 04.89	ANDYS	S 37 36 30.00 E 145 15 24.00	ATERA	S 10 49 42.00 E 140 57 28.34
ABASS	S 34 35 00.19 E 150 56 36.35	ANGAS	S 25 07 58.45 E 132 26 22.18	ATHEL	S 34 56 00.00 E 138 44 54.00
ABAWA	S 34 51 01.96 E 117 33 24.36	ANGUS	S 12 17 08.55 E 130 14 21.43	ATILA	S 41 48 19.65 E 146 25 09.03
ABAWB	S 34 45 21.95 E 117 34 33.13	ANITA	S 32 38 23.63 E 135 44 38.74	ATMAL	S 12 00 00.00 E 107 35 30.00
ABAWC	S 34 44 18.73 E 117 41 23.68	ANJJO	S 12 56 11.29 E 125 37 32.65	ATMAP	S 12 00 00.00 E 118 15 18.00
ABAWF	S 34 52 22.77 E 117 43 13.37	ANKEL	S 27 59 01.13 E 118 27 12.46	ATNNA	S 17 07 05.01 E 145 21 59.92
ABAWH	S 34 58 28.39 E 117 49 25.19	ANNIE	S 27 27 27.23 E 153 05 14.22	ATNNC	S 17 03 02.12 E 145 24 17.18
ABAWI	S 34 48 52.36 E 117 38 53.16	ANNKY	S 12 19 32.71 E 131 34 47.59	ATNND	S 17 03 43.02 E 145 29 01.40
ABAWM	S 34 55 53.18 E 117 47 33.77	ANPAT	S 26 22 46.38 E 116 46 33.09	ATNNF	S 17 10 13.48 E 145 28 00.73
ABBEY	S 34 24 10.66 E 151 05 41.24	ANSET	S 12 24 41.76 E 131 35 13.89	ATNNH	S 17 16 57.80 E 145 31 30.56
ABDIG	S 37 39 16.02 E 144 42 53.86	ANSON	S 26 40 05.00 E 153 48 26.00	ATNNI	S 17 06 37.81 E 145 26 08.91
ABLOK	S 12 43 04.44 E 143 26 24.39	ANTLA	S 40 00 00.10 E 147 11 16.00	ATNNM	S 17 14 16.08 E 145 30 06.59
ABTOD	S 32 59 42.00 E 135 08 00.00	ANVAC	S 35 09 20.70 E 138 27 12.83	AUDRA	S 40 00 00.00 E 145 09 42.00
ACKER	S 12 01 16.14 E 132 12 18.22	ANZAC	S 22 44 46.68 E 135 49 25.67	AURSA	S 13 31 19.57 E 141 51 56.81
ACOO	S 30 00 00.00 E 110 00 00.00	APAGI	S 28 50 55.99 E 152 35 07.08	AURSB	S 13 36 00.77 E 141 48 31.34
ACTIN	S 33 30 13.33 E 138 01 33.25	APISO	S 12 00 00.00 E 147 36 23.82	AURSC	S 13 34 27.96 E 141 42 50.96
ADMAR	S 30 19 22.00 E 151 54 42.72	APOMA	S 29 53 52.66 E 142 40 53.53	AURSF	S 13 26 32.45 E 141 45 06.48
AGAGO	S 28 13 12.72 E 136 45 38.72	APOVO	S 29 25 30.00 E 139 16 24.00	AURSH	S 13 18 57.75 E 141 42 22.78
AGREK	S 27 01 20.13 E 121 19 21.50	APOVU	S 02 00 00.00 E 082 00 00.00	AURSI	S 13 31 16.62 E 141 46 48.87
AGSEL	S 19 55 28.47 E 109 41 00.90	APPLE	S 36 55 39.06 E 144 23 10.78	AURSM	S 13 21 48.27 E 141 43 24.15
AGTIK	S 28 40 16.90 E 124 06 10.22	APUKA	S 12 00 00.01 E 144 57 39.63	AUSGA	S 15 02 32.09 E 115 11 25.95
AGUST	S 13 37 43.21 E 131 12 15.02	APUSS	S 19 33 07.43 E 143 01 07.58	AVKAN	S 29 22 12.00 E 116 46 42.00
AIDEN	S 23 55 58.46 E 133 51 19.50	ARANA	S 30 13 06.00 E 139 41 18.00	AVMON	S 25 30 03.75 E 132 24 05.25
AIMEE	S 12 26 07.33 E 130 56 34.12	ARBEY	S 37 10 06.00 E 144 43 54.00	AVOCA	S 37 03 06.00 E 143 20 54.00
AIRMA	S 29 54 43.11 E 115 00 00.00	ARENI	S 26 55 50.23 E 132 35 56.98	AVVND	S 37 51 18.04 E 144 37 40.95
AKDAV	S 33 01 46.54 E 136 12 12.85	AREST	S 32 11 04.34 E 145 51 47.22	AVVNE	S 37 47 14.73 E 144 30 34.90
AKDIP	S 14 29 15.10 E 108 26 33.30	ARGND	S 16 23 20.53 E 128 27 47.96	AVVNF	S 37 55 23.02 E 144 29 12.99
AKESA	S 15 49 56.86 E 111 45 42.13	ARGNE	S 16 21 59.73 E 128 33 36.00	AVVNH	S 38 03 37.18 E 144 27 49.85
AKKER	S 19 55 38.05 E 146 25 24.76	ARGNF	S 16 31 20.40 E 128 29 47.51	AVVNI	S 37 52 42.22 E 144 29 40.02
AKLET	S 27 09 09.60 E 145 42 52.04	ARGNG	S 16 26 47.75 E 128 36 53.83	AVVNM	S 38 01 38.10 E 144 28 09.92
AKUKO	S 09 00 27.14 E 102 21 07.51	ARGNH	S 16 38 24.41 E 128 27 36.29	AVVSA	S 38 11 09.83 E 144 22 20.91
ALACO	S 12 28 38.51 E 131 04 02.11	ARGNI	S 16 26 40.07 E 128 31 41.78	AVVSB	S 38 13 05.48 E 144 26 13.84
ALBAK	S 37 44 36.00 E 144 42 36.00	ARGNM	S 16 36 00.74 E 128 27 53.19	AVVSC	S 38 12 02.03 E 144 30 37.15
ALBEE	S 19 22 41.81 E 146 08 22.30	ARGON	S 14 25 06.50 E 137 57 16.63	AVVSF	S 38 07 14.22 E 144 27 13.24
ALEGO	S 10 38 25.90 E 125 08 00.75	ARGSA	S 16 53 36.11 E 128 29 45.84	AVVSH	S 38 01 16.98 E 144 28 13.47
ALEXA	S 09 17 58.48 E 126 57 24.49	ARGSB	S 16 56 21.14 E 128 24 30.45	AVVSI	S 38 09 48.91 E 144 26 47.08
ALEXI	S 35 39 00.37 E 139 04 23.10	ARGSC	S 16 52 32.18 E 128 20 01.60	AVVSM	S 38 03 16.06 E 144 27 53.41
ALICE	S 12 21 16.20 E 130 38 06.00	ARGSF	S 16 46 22.53 E 128 25 41.10	AYEEA	S 25 15 35.03 E 131 12 41.45
ALIDL	S 26 44 33.53 E 139 17 54.09	ARGSH	S 16 33 22.31 E 128 32 01.46	AYEEB	S 25 21 18.94 E 131 12 12.04
ALIRA	S 18 03 45.64 E 123 48 45.91	ARGSI	S 16 51 21.84 E 128 25 05.79	AYEEC	S 25 22 51.45 E 131 06 05.69
ALISN	S 20 10 16.27 E 147 54 34.33	ARGSM	S 16 39 23.50 E 128 26 30.48	AYEEF	S 25 14 56.55 E 131 03 40.78
ALLEE	S 13 01 50.00 E 131 29 34.00	ARMAD	S 32 09 48.00 E 116 03 00.00	AYEEH	S 25 09 50.28 E 130 56 52.41
ALLOC	S 33 54 36.29 E 152 42 12.60	ARMEA	S 30 21 10.22 E 151 46 24.48	AYEEI	S 25 18 07.81 E 131 07 56.30
ALLOT	S 12 20 39.85 E 130 40 21.00	ARMEB	S 30 23 26.41 E 151 52 30.10	AYEEM	S 25 11 45.17 E 130 59 25.48
ALONE	S 27 06 00.00 E 149 53 30.00	ARMEC	S 30 29 10.90 E 151 52 07.71	AYEWD	S 25 06 39.90 E 130 44 31.58
ALORA	S 28 05 36.00 E 151 57 00.00	ARMEF	S 30 28 42.83 E 151 42 39.70	AYEWE	S 25 00 55.79 E 130 45 02.04
ALPAL	S 39 16 06.44 E 144 16 39.61	ARMEH	S 30 33 40.17 E 151 35 36.50	AYEWF	S 25 07 19.26 E 130 53 31.38
ALTIR	S 32 39 36.00 E 140 30 12.00	ARMEI	S 30 26 04.72 E 151 47 35.03	AYEWG	S 24 59 24.02 E 130 51 07.24
ALTRO	S 33 09 58.05 E 140 20 35.41	ARMEM	S 30 31 20.69 E 151 37 44.26	AYEWH	S 25 12 25.68 E 131 00 19.49
ALULU	S 21 14 26.73 E 117 20 50.91	ARMOK	S 21 10 03.76 E 116 32 35.41	AYEWI	S 25 04 07.58 E 130 49 16.60
ALWYN	S 31 51 21.97 E 116 07 30.76	ARMWD	S 30 42 16.02 E 151 27 33.89	AYEWM	S 25 10 30.81 E 130 57 46.38
AMANA	S 31 45 27.79 E 116 37 42.95	ARMWE	S 30 39 58.27 E 151 21 27.54	BAABA	S 27 26 28.55 E 153 13 22.63
AMBLE	S 27 17 36.00 E 153 05 42.00	ARMWF	S 30 34 44.38 E 151 31 20.68	BABEL	S 41 42 38.23 E 146 40 12.77
AMELI	S 37 54 21.26 E 147 14 04.07	ARMWG	S 30 34 14.34 E 151 21 52.10	BADGR	S 37 43 06.00 E 145 28 00.00
AMITY	S 27 25 41.80 E 153 30 25.84	ARMWH	S 30 29 22.73 E 151 39 25.24	BAFEA	S 27 33 06.90 E 153 13 19.27
AMKEA	S 30 16 57.19 E 137 19 56.82	ARMWI	S 30 37 21.42 E 151 26 24.24	BAFEB	S 27 38 36.39 E 153 15 14.43
AMKEB	S 30 21 23.92 E 137 25 13.06	ARMWM	S 30 32 07.15 E 151 36 16.86	BAFEC	S 27 42 05.43 E 153 10 06.01
AMKEC	S 30 26 54.19 E 137 23 18.17	ARNTU	S 24 29 41.75 E 132 25 31.74	BAFEF	S 27 35 51.58 E 153 05 35.34
AMKEF	S 30 24 31.57 E 137 14 14.01	AROLI	S 29 07 02.77 E 146 37 02.63	BAFEH	S 27 33 24.93 E 152 57 00.86
AMKEH	S 30 19 28.00 E 137 11 03.37	ARPOO	S 19 00 33.58 E 146 17 29.30	BAFEI	S 27 37 04.84 E 153 09 52.68
AMKEI	S 30 22 57.86 E 137 19 43.62	ARRAN	S 35 50 15.24 E 147 38 21.78	BAFEM	S 27 34 38.32 E 153 01 18.05
AMKEM	S 30 26 05.05 E 137 08 44.22	ARTHA	S 37 35 51.14 E 145 15 07.91	BAISH	S 23 54 21.48 E 134 24 35.06
AMOCO	S 24 00 00.00 E 152 12 30.00	ARTON	S 24 38 36.00 E 147 27 24.00	BAKEL	S 27 51 58.93 E 152 35 29.19
ANBEL	S 37 24 31.45 E 145 07 03.39	ASHAR	S 12 17 12.03 E 126 31 21.42	BAKER	S 37 33 42.00 E 144 49 12.00
ANCOR	S 31 49 53.86 E 115 43 23.61	ASTON	S 37 40 06.42 E 144 57 19.37	BALAT	S 33 34 27.81 E 137 47 26.50
ANDEE	S 16 10 58.32 E 143 14 07.72	ASUKI	S 37 35 28.10 E 144 49 24.04	BALLS	S 29 47 33.58 E 147 06 18.95
ANDIO	S 30 00 00.00 E 140 41 03.26	ASWAN	S 35 31 06.00 E 143 20 24.00	BAMBI	S 26 46 54.00 E 148 06 48.00

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
BAMIL	S 32 05 32.07 E 116 12 44.21	BBNWB	S 27 10 38.14 E 152 59 13.16	BDGNM	S 36 43 42.41 E 144 19 45.92
BAMND	S 10 50 44.46 E 142 15 10.73	BBNWC	S 27 09 02.14 E 153 04 22.68	BDVNA	S 25 45 24.89 E 139 09 12.16
BAMNE	S 10 45 06.65 E 142 16 25.36	BBNWF	S 27 17 15.15 E 153 04 17.66	BDVNC	S 25 40 08.98 E 139 11 46.24
BAMNF	S 10 52 29.73 E 142 23 18.82	BBNWH	S 27 23 51.96 E 153 09 22.76	BDVND	S 25 40 31.89 E 139 18 06.11
BAMNG	S 10 44 20.38 E 142 22 11.88	BBNWI	S 27 13 07.04 E 153 01 07.28	BDVNF	S 25 48 43.91 E 139 17 30.17
BAMNH	S 10 58 24.05 E 142 28 49.84	BBNWM	S 27 21 23.18 E 153 07 28.28	BDVNH	S 25 55 35.69 E 139 22 05.92
BAMNI	S 10 48 48.21 E 142 19 52.04	BCGNE	S 27 54 22.53 E 153 24 33.68	BDVNI	S 25 44 26.48 E 139 14 38.10
BAMNM	S 10 56 11.19 E 142 26 45.68	BCGNF	S 28 03 56.72 E 153 27 56.04	BDVNM	S 25 53 01.29 E 139 20 22.45
BAMSA	S 11 02 41.11 E 142 39 20.60	BCGNI	S 28 11 26.26 E 153 31 07.68	BDVSE	S 26 01 44.83 E 139 32 19.69
BAMSB	S 11 08 18.96 E 142 38 06.39	BCGNI	S 27 59 09.63 E 153 26 14.78	BDVSE	S 25 58 26.21 E 139 24 00.27
BAMSC	S 11 09 05.58 E 142 32 19.49	BCGNJ	S 27 58 15.70 E 153 29 28.80	BDVSG	S 26 07 00.64 E 139 29 45.95
BAMSF	S 11 00 56.32 E 142 31 12.19	BCGNM	S 28 08 43.78 E 153 29 37.45	BDVSH	S 25 51 34.49 E 139 19 24.32
BAMSH	S 10 55 02.05 E 142 25 41.08	BCGSA	S 28 18 29.84 E 153 41 57.51	BDVSI	S 26 02 43.46 E 139 26 53.00
BAMSI	S 11 04 37.67 E 142 34 39.25	BCGSB	S 28 23 41.25 E 153 39 09.50	BDVSI	S 26 06 37.97 E 139 23 24.24
BAMSM	S 10 57 14.92 E 142 27 45.22	BCGSC	S 28 23 53.56 E 153 31 56.87	BDVSM	S 25 54 08.90 E 139 21 07.74
BANAM	S 31 13 09.38 E 135 44 15.56	BCGSF	S 28 14 57.39 E 153 33 35.21	BEADS	S 31 36 14.04 E 153 59 36.30
BANCA	S 30 50 00.00 E 141 44 36.00	BCGSH	S 28 03 34.66 E 153 31 09.87	BEANI	S 27 29 37.80 E 152 44 55.80
BANDA	S 30 47 59.29 E 152 34 23.35	BCGSI	S 28 19 19.35 E 153 36 22.24	BEATO	S 37 32 06.00 E 144 38 42.00
BANKS	S 25 01 12.00 E 116 46 30.00	BCGSM	S 28 10 35.37 E 153 30 48.40	BEBAK	S 27 29 24.25 E 150 19 59.08
BARFF	S 31 51 48.68 E 115 41 51.86	BCKEA	S 24 18 31.29 E 145 34 19.00	BEBIM	S 10 38 39.96 E 093 50 07.54
BARGY	S 16 38 10.27 E 145 51 54.08	BCKEB	S 24 20 58.25 E 145 38 34.28	BEERN	S 27 25 18.00 E 153 01 54.00
BARIA	S 17 12 48.02 E 146 21 47.98	BCKEC	S 24 25 28.33 E 145 37 30.90	BEETI	S 28 03 12.00 E 147 05 18.00
BARIL	S 42 45 25.15 E 147 27 18.39	BCKEF	S 24 24 05.24 E 145 30 29.72	BEGMI	S 09 50 00.00 E 140 24 36.00
BARKA	S 35 04 43.67 E 138 55 50.79	BCKEH	S 24 26 48.51 E 145 23 25.37	BEJAY	S 35 07 30.00 E 148 56 54.00
BARKO	S 30 49 00.00 E 118 46 54.00	BCKEI	S 24 22 31.80 E 145 34 32.05	BEKAM	S 32 30 36.00 E 150 58 00.00
BARNY	S 12 50 02.10 E 130 22 01.57	BCKEM	S 24 25 38.57 E 145 26 27.31	BEKKA	S 37 48 05.56 E 144 30 26.43
BARON	S 16 14 54.00 E 134 15 36.00	BCKWD	S 24 33 19.16 E 145 17 06.57	BELEL	S 26 28 03.85 E 117 59 28.86
BARSA	S 23 44 44.08 E 145 18 58.26	BCKWE	S 24 30 51.60 E 145 12 51.34	BELKI	S 11 41 12.49 E 128 28 00.43
BARSB	S 23 46 12.50 E 145 14 13.95	BCKWF	S 24 27 45.60 E 145 20 56.72	BELOP	S 19 00 00.00 E 125 00 00.00
BARSC	S 23 42 36.74 E 145 11 06.57	BCKWG	S 24 26 21.74 E 145 13 55.64	BENBU	S 33 11 48.00 E 149 58 54.00
BARSF	S 23 38 30.37 E 145 16 41.12	BCKWH	S 24 25 02.45 E 145 28 01.17	BENDA	S 12 37 34.59 E 130 44 41.56
BARSH	S 23 31 46.00 E 145 18 49.76	BCKWI	S 24 29 18.65 E 145 16 54.08	BENJI	S 16 46 06.00 E 145 45 12.00
BARSI	S 23 42 21.43 E 145 15 27.55	BCKWM	S 24 26 12.42 E 145 24 59.26	BENKI	S 14 00 00.00 E 147 00 24.00
BARSM	S 23 34 39.30 E 145 17 54.66	BCSNA	S 16 40 37.88 E 145 35 09.07	BENTA	S 14 35 18.00 E 144 37 06.00
BARTA	S 27 44 28.00 E 150 07 18.00	BCSNC	S 16 34 19.84 E 145 38 32.91	BENZO	S 40 00 00.69 E 145 53 00.13
BARTN	S 35 03 35.11 E 149 03 53.56	BCSND	S 16 36 03.43 E 145 44 14.70	BERNI	S 28 50 18.08 E 153 27 54.78
BASEA	S 23 49 47.61 E 134 11 04.72	BCSNF	S 16 43 54.25 E 145 41 41.39	BEROW	S 33 36 47.78 E 151 06 58.44
BASEB	S 23 56 48.41 E 134 09 55.51	BCSNH	S 16 49 04.67 E 145 46 17.95	BERRY	S 35 00 12.52 E 138 51 21.47
BASEC	S 24 01 11.71 E 134 03 50.73	BCSNI	S 16 39 07.08 E 145 40 07.04	BERTI	S 27 46 54.00 E 153 11 12.00
BASEF	S 23 51 45.61 E 134 00 29.62	BCSNM	S 16 49 38.94 E 145 43 34.40	BEVLY	S 32 10 49.99 E 116 54 00.19
BASEH	S 23 40 12.00 E 133 50 00.00	BCVED	S 26 30 38.68 E 146 29 01.30	BEWDD	S 37 45 39.73 E 144 43 45.02
BASEI	S 23 54 17.09 E 134 05 12.47	BCVEE	S 26 36 16.52 E 146 27 42.03	BEYNO	S 14 08 10.23 E 133 09 10.02
BASEM	S 23 49 13.99 E 133 55 46.95	BCVEF	S 26 28 56.64 E 146 20 05.14	BEZZA	S 30 51 30.00 E 131 48 30.00
BASET	S 23 47 12.59 E 133 52 00.94	BCVEG	S 26 37 04.90 E 146 21 21.71	BGOSA	S 20 16 58.35 E 128 10 00.09
BASIL	S 17 04 30.00 E 146 05 24.00	BCVEH	S 26 21 36.15 E 146 12 28.98	BGOSB	S 20 22 19.37 E 128 07 44.87
BASWD	S 23 43 30.49 E 133 36 48.04	BCVEI	S 26 32 36.63 E 146 23 53.46	BGOSC	S 20 22 09.16 E 128 01 38.73
BASWE	S 23 39 57.51 E 133 38 32.68	BCVEM	S 26 25 16.66 E 146 16 17.16	BGOSF	S 20 13 56.05 E 128 01 54.34
BASWF	S 23 45 01.55 E 133 47 57.13	BCVWA	S 26 17 54.79 E 146 03 06.48	BGOSH	S 20 07 13.26 E 127 57 14.36
BASWG	S 23 35 34.96 E 133 44 36.26	BCVWB	S 26 12 24.78 E 146 04 59.02	BGOSI	S 20 18 07.73 E 128 04 49.53
BASWH	S 23 49 19.54 E 133 55 57.32	BCVWC	S 26 12 07.08 E 146 11 21.27	BGOSM	S 20 09 44.32 E 127 58 59.30
BASWI	S 23 42 29.60 E 133 43 14.72	BCVWF	S 26 20 19.52 E 146 11 49.54	BHIEA	S 31 49 08.56 E 141 37 32.06
BASWM	S 23 47 48.53 E 133 53 07.78	BCVWH	S 26 26 39.03 E 146 17 18.56	BHIEB	S 31 51 11.38 E 141 43 49.56
BATOP	S 23 23 46.35 E 125 41 49.71	BCVWI	S 26 16 22.19 E 146 08 24.17	BHIEC	S 31 56 56.22 E 141 43 43.67
BATTS	S 13 05 32.22 E 130 55 22.77	BCVWM	S 26 24 16.66 E 146 15 15.04	BHIEF	S 31 56 48.86 E 141 34 06.24
BAXMN	S 25 34 46.42 E 118 34 27.74	BDBNA	S 24 46 24.82 E 152 07 48.09	BHIEH	S 32 01 18.75 E 141 26 19.08
BAYEE	S 12 23 45.02 E 130 49 29.92	BDBNC	S 24 41 06.57 E 152 10 14.60	BHIEI	S 31 54 00.12 E 141 38 57.97
BAYLI	S 17 13 35.51 E 145 57 16.09	BDBND	S 24 41 23.29 E 152 16 32.02	BHIEM	S 31 59 37.60 E 141 29 14.35
BAZIL	S 12 35 08.14 E 130 55 56.77	BDBNF	S 24 49 35.76 E 152 16 06.07	BHIWD	S 32 11 10.13 E 141 19 04.99
BAZZA	S 28 44 58.05 E 146 41 26.25	BDBNH	S 24 56 22.94 E 152 20 47.83	BHIWE	S 32 09 07.08 E 141 12 46.23
BBNEF	S 27 26 28.50 E 153 11 23.18	BDBNI	S 24 45 21.20 E 152 13 10.24	BHIWF	S 32 03 30.09 E 141 22 31.23
BBNEH	S 27 19 51.68 E 153 06 17.96	BDBNM	S 24 53 50.27 E 152 19 02.11	BHIWG	S 32 03 22.26 E 141 12 52.82
BBNEI	S 27 29 02.11 E 153 16 13.17	BDBSE	S 25 02 09.79 E 152 30 55.65	BHIWH	S 31 59 00.40 E 141 30 18.74
BBNEM	S 27 22 20.51 E 153 08 12.35	BDBSF	S 24 58 59.68 E 152 22 36.45	BHIWI	S 32 06 18.58 E 141 17 38.81
BBNNE	S 27 08 19.58 E 153 16 08.23	BDBSG	S 25 07 28.36 E 152 28 29.61	BHIWM	S 32 00 41.59 E 141 27 23.51
BBNNF	S 27 18 22.27 E 153 10 24.37	BDBSH	S 24 52 12.56 E 152 17 54.50	BHMNA	S 20 13 56.30 E 148 43 28.71
BBNNH	S 27 25 09.60 E 153 06 31.59	BDBSI	S 25 03 14.06 E 152 25 32.93	BHMNC	S 20 08 19.66 E 148 44 50.72
BBNNI	S 27 15 41.45 E 153 11 56.13	BDBSJ	S 25 07 12.16 E 152 22 10.84	BHMND	S 20 07 37.16 E 148 50 53.67
BBNNM	S 27 22 28.82 E 153 08 03.53	BDBSM	S 24 54 45.25 E 152 19 40.17	BHMNF	S 20 15 46.68 E 148 51 58.16
BBNSD	S 27 38 33.79 E 153 04 29.31	BDGNA	S 36 31 49.68 E 144 14 25.49	BHMNH	S 20 23 13.58 E 148 59 06.49
BBNSF	S 27 27 27.23 E 153 05 14.22	BDGNC	S 36 28 41.70 E 144 20 23.26	BHMNI	S 20 12 03.21 E 148 48 24.35
BBNSH	S 27 21 54.97 E 153 08 22.91	BDGND	S 36 32 08.54 E 144 26 04.70	BHMNM	S 20 19 29.96 E 148 55 32.03
BBNSI	S 27 31 01.49 E 153 03 10.08	BDGNF	S 36 38 42.18 E 144 19 58.38	BHMSE	S 20 28 15.01 E 149 11 27.94
BBNSM	S 27 24 35.74 E 153 06 50.94	BDGNH	S 36 46 37.97 E 144 20 36.64	BHMSF	S 20 27 07.98 E 149 02 49.46
BBNWA	S 27 14 22.15 E 152 55 41.39	BDGNI	S 36 33 41.94 E 144 20 10.83	BHMSG	S 20 33 57.16 E 149 10 38.28

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
BHMSH	S 20 20 18.18 E 148 55 01.10	BLNNH	S 33 43 16.91 E 115 22 57.33	BNAWE	S 28 55 35.18 E 153 17 05.22
BHMSI	S 20 30 32.63 E 149 06 43.78	BLNNI	S 33 31 31.98 E 115 29 40.41	BNAWF	S 28 52 17.36 E 153 26 37.90
BHMSJ	S 20 35 10.12 E 149 04 39.84	BLNNM	S 33 40 34.26 E 115 24 30.48	BNAWG	S 28 48 29.95 E 153 17 06.57
BHMSM	S 20 23 43.34 E 148 58 55.43	BLNSA	S 33 54 32.92 E 115 22 44.97	BNAWH	S 28 49 20.94 E 153 35 06.44
BIBRA	S 32 06 33.20 E 115 48 34.28	BLNSB	S 33 55 29.41 E 115 15 57.03	BNAWI	S 28 53 45.36 E 153 22 23.45
BICKL	S 26 39 27.31 E 153 15 50.13	BLNSF	S 33 46 27.29 E 115 21 08.18	BNAWM	S 28 50 27.16 E 153 31 55.79
BIDAG	S 18 19 03.48 E 143 15 46.76	BLNSH	S 33 39 13.55 E 115 25 16.64	BNSEA	S 37 40 48.87 E 147 44 11.43
BIDAP	S 24 24 04.55 E 123 14 44.32	BLNSI	S 33 50 58.35 E 115 18 32.67	BNSEB	S 37 43 10.72 E 147 52 20.20
BIDGI	S 35 31 48.00 E 149 08 42.00	BLNSM	S 33 41 56.22 E 115 23 43.55	BNSEC	S 37 50 04.17 E 147 52 19.98
BIENA	S 24 12 56.43 E 139 15 39.01	BLTND	S 37 18 12.09 E 143 40 27.51	BNSEF	S 37 50 03.59 E 147 39 55.77
BIENC	S 24 07 33.97 E 139 17 54.03	BLTNE	S 37 14 25.38 E 143 45 51.94	BNSEH	S 37 57 50.27 E 147 33 31.30
BIEND	S 24 07 39.90 E 139 24 09.98	BLTNF	S 37 24 22.30 E 143 47 13.31	BNSEI	S 37 46 37.16 E 147 46 08.13
BIENF	S 24 15 53.04 E 139 24 00.92	BLTNG	S 37 17 11.09 E 143 52 09.62	BNSEM	S 37 52 55.59 E 147 34 45.23
BIENH	S 24 22 32.11 E 139 28 55.01	BLTNH	S 37 32 18.83 E 143 47 19.69	BOATS	S 27 12 26.00 E 153 17 22.00
BIENI	S 24 11 43.53 E 139 20 57.38	BLTNI	S 37 19 23.81 E 143 46 32.57	BOBBO	S 27 20 49.77 E 151 51 58.68
BIENM	S 24 20 02.48 E 139 27 04.67	BLTNM	S 37 29 20.79 E 143 47 54.17	BOBET	S 29 00 46.14 E 124 42 09.00
BIESE	S 24 28 25.27 E 139 39 28.80	BLTSA	S 37 43 34.74 E 143 51 27.55	BOBIK	S 14 18 06.00 E 134 04 24.00
BIESE	S 24 25 29.07 E 139 31 05.59	BLTSB	S 37 44 25.20 E 143 45 20.88	BOCKY	S 34 55 01.49 E 138 21 32.32
BIESG	S 24 33 47.60 E 139 37 14.18	BLTSC	S 37 42 20.92 E 143 39 43.42	BODDI	S 30 28 12.72 E 115 00 00.00
BIESH	S 24 18 50.05 E 139 26 11.30	BLTSE	S 37 36 18.50 E 143 46 41.66	BODEG	S 20 07 37.09 E 163 00 00.00
BIESI	S 24 29 38.37 E 139 34 09.79	BLTSH	S 37 28 22.21 E 143 48 00.45	BOFOR	S 14 14 00.00 E 133 07 30.00
BIESJ	S 24 33 41.93 E 139 30 56.55	BLTSI	S 37 41 16.18 E 143 45 52.30	BOGAL	S 33 35 53.00 E 137 43 37.42
BIESM	S 24 21 19.70 E 139 28 01.60	BLTSM	S 37 31 20.82 E 143 47 30.93	BOGGY	S 38 26 09.18 E 147 09 42.07
BIGAK	S 29 39 12.00 E 113 08 30.00	BLUNA	S 27 23 43.29 E 120 32 09.78	BOING	S 22 14 24.00 E 127 15 02.00
BIGAL	S 34 45 40.11 E 138 11 16.94	BLUND	S 27 21 01.78 E 120 37 51.41	BOKEE	S 27 15 16.82 E 151 50 58.68
BIGUP	S 18 55 31.55 E 123 19 46.72	BLUNF	S 27 24 52.95 E 120 42 38.47	BOKEF	S 27 21 27.68 E 151 48 28.75
BIKER	S 20 43 55.59 E 136 14 02.20	BLUNH	S 27 30 58.88 E 120 36 28.32	BOKEG	S 27 16 50.48 E 151 55 49.33
BILBY	S 30 42 30.54 E 154 52 33.98	BLUNH	S 27 31 36.72 E 120 30 28.67	BOKEH	S 27 21 18.45 E 151 42 51.97
BILIN	S 29 53 42.00 E 136 12 12.00	BLUNI	S 27 26 00.33 E 120 37 09.89	BOKEI	S 27 19 09.13 E 151 52 09.12
BILLY	S 28 52 24.00 E 136 12 36.00	BLUNM	S 27 35 57.42 E 120 35 46.68	BOKEJ	S 27 21 26.57 E 151 55 50.35
BIMBY	S 29 46 50.63 E 118 14 27.14	BLUSE	S 27 49 32.00 E 120 39 13.14	BOKEM	S 27 23 46.14 E 151 44 48.23
BINTH	S 24 38 42.98 E 114 44 06.59	BLUSF	S 27 42 16.63 E 120 34 53.71	BOKNA	S 27 18 23.20 E 151 34 34.54
BIRDY	S 12 55 49.32 E 130 27 37.99	BLUSG	S 27 52 13.57 E 120 33 30.08	BOKNC	S 27 14 03.88 E 151 36 21.03
BISON	S 37 43 12.00 E 144 36 12.00	BLUSH	S 27 38 54.00 E 120 25 02.75	BOKND	S 27 14 04.48 E 151 41 29.75
BITAN	S 19 22 04.31 E 108 40 17.25	BLUSI	S 27 47 15.05 E 120 34 11.02	BOKNF	S 27 20 38.87 E 151 41 28.94
BITES	S 12 22 35.09 E 131 01 53.10	BLUSJ	S 27 48 22.09 E 120 28 42.15	BOKNH	S 27 20 08.27 E 151 50 40.02
BKEED	S 29 52 31.58 E 146 06 58.72	BLUSM	S 27 37 17.99 E 120 35 35.42	BOKNI	S 27 17 21.40 E 151 38 54.91
BKEEE	S 29 55 10.95 E 146 12 49.40	BMAND	S 20 26 35.72 E 139 24 34.69	BOKNM	S 27 23 56.29 E 151 44 03.13
BKEEF	S 29 59 48.47 E 146 02 36.62	BMANE	S 20 23 31.37 E 139 29 44.55	BOKSF	S 27 28 24.25 E 151 47 32.69
BKEEG	S 30 00 53.32 E 146 11 57.47	BMANF	S 20 33 32.91 E 139 29 14.13	BOKSH	S 27 22 38.84 E 151 43 02.62
BKEEH	S 30 03 29.92 E 145 54 25.71	BMANG	S 20 27 02.68 E 139 34 34.42	BOKSI	S 27 31 41.56 E 151 50 07.23
BKEEI	S 29 57 29.81 E 146 07 43.13	BMANH	S 20 41 28.11 E 139 29 48.81	BOKSK	S 27 30 40.61 E 151 54 28.08
BKEEM	S 30 02 06.94 E 145 57 29.87	BMANI	S 20 28 32.14 E 139 29 29.34	BOKSL	S 27 34 58.82 E 151 52 41.92
BKEWA	S 30 12 23.65 E 145 46 26.36	BMANM	S 20 38 33.67 E 139 28 58.89	BOKSM	S 27 25 06.89 E 151 44 58.31
BKEWB	S 30 09 43.26 E 145 40 34.33	BMASA	S 20 50 29.21 E 139 39 01.06	BOKSN	S 27 34 59.44 E 151 47 31.92
BKEWC	S 30 04 01.76 E 145 41 27.41	BMASB	S 20 55 19.79 E 139 35 42.60	BOLTY	S 37 49 30.51 E 144 56 35.52
BKEWF	S 30 05 07.41 E 145 50 49.13	BMASC	S 20 54 03.70 E 139 29 43.92	BONDO	S 35 35 15.80 E 140 10 53.25
BKEWH	S 30 01 26.15 E 145 59 00.28	BMASF	S 20 46 02.62 E 139 31 39.57	BONES	S 16 10 43.37 E 132 37 41.05
BKEWI	S 30 07 25.43 E 145 45 41.85	BMASH	S 20 38 36.80 E 139 28 25.51	BONEY	S 27 48 30.00 E 155 54 30.00
BKEWM	S 30 02 49.18 E 145 55 56.17	BMASI	S 20 50 41.22 E 139 33 41.02	BONGO	S 28 05 00.00 E 150 20 00.00
BK TSA	S 17 57 24.58 E 139 27 08.37	BMASM	S 20 41 23.99 E 139 29 38.25	BONGS	S 28 00 00.00 E 110 00 00.00
BK TSB	S 17 56 42.97 E 139 21 09.85	BMKNA	S 21 02 08.78 E 148 59 33.70	BONNI	S 30 21 12.00 E 150 22 54.00
BK TSC	S 17 51 06.55 E 139 19 48.28	BMKNC	S 20 56 50.32 E 149 01 55.96	BOOEY	S 30 18 44.48 E 140 16 09.30
BK TSE	S 17 49 14.81 E 139 28 10.23	BMKNF	S 21 05 19.42 E 149 07 38.28	BOOGI	S 34 01 21.39 E 151 00 16.34
BK TSH	S 17 43 16.09 E 139 33 46.13	BMKNH	S 21 12 06.45 E 149 12 12.58	BOOKA	S 32 01 14.71 E 116 39 32.57
BK TSI	S 17 52 58.92 E 139 24 40.11	BMKNI	S 21 01 04.90 E 149 04 47.04	BOOMA	S 20 00 00.00 E 150 41 12.00
BK TSM	S 17 45 30.63 E 139 31 40.21	BMKNK	S 20 58 40.17 E 149 08 51.00	BOOTH	S 35 52 12.00 E 139 42 00.00
BLACK	S 34 46 35.73 E 139 24 43.87	BMKNM	S 21 09 33.75 E 149 10 29.61	BORAH	S 21 57 13.32 E 119 13 30.89
BLAED	S 36 29 23.08 E 146 16 22.53	BMKSE	S 21 18 19.80 E 149 22 21.98	BORAT	S 20 36 55.25 E 116 04 38.54
BLAEE	S 36 34 19.01 E 146 20 00.07	BMKSF	S 21 15 09.96 E 149 14 16.42	BORDA	S 26 45 35.81 E 153 02 44.29
BLAEF	S 36 33 33.92 E 146 07 37.36	BMKSG	S 21 23 38.50 E 149 20 00.21	BOREE	S 33 14 14.23 E 151 02 38.38
BLAEG	S 36 38 45.99 E 146 15 28.77	BMKSH	S 21 05 02.86 E 149 14 54.03	BOSLI	S 31 16 07.64 E 117 31 40.65
BLAEH	S 36 32 47.56 E 145 55 14.89	BMKSI	S 21 19 24.26 E 149 17 08.23	BOSUN	S 32 31 37.01 E 150 43 05.53
BLAEI	S 36 33 56.63 E 146 13 48.68	BMKSJ	S 21 23 22.55 E 149 13 51.93	BOUND	S 22 46 27.86 E 139 42 54.57
BLAEM	S 36 33 10.90 E 146 01 26.09	BMKSM	S 21 10 55.71 E 149 11 24.86	BOUNE	S 22 41 13.86 E 139 45 29.88
BLAFF	S 32 37 35.45 E 151 35 56.88	BMKST	S 21 07 32.80 E 149 09 08.10	BOUNF	S 22 49 53.34 E 139 50 58.01
BLAIR	S 11 34 53.23 E 131 57 52.12	BN01R	S 27 22 17.47 E 153 08 10.08	BOUNG	S 22 41 41.64 E 139 51 40.67
BLAKA	S 28 12 00.00 E 153 13 18.00	BNAEA	S 28 42 06.58 E 153 43 49.17	BOUNH	S 22 56 48.77 E 139 55 21.02
BLIGH	S 28 02 12.00 E 116 04 00.00	BNAEB	S 28 46 20.55 E 153 47 37.00	BOUNI	S 22 45 33.62 E 139 48 13.86
BLITZ	S 26 52 52.00 E 153 35 44.00	BNAEC	S 28 51 43.30 E 153 47 03.36	BOUNM	S 22 54 13.00 E 139 53 42.34
BLNND	S 33 27 57.27 E 115 25 29.38	BNAEF	S 28 48 20.86 E 153 39 58.85	BOUSA	S 23 03 01.56 E 140 05 11.94
BLNNE	S 33 27 00.84 E 115 32 15.18	BNAEH	S 28 50 37.87 E 153 31 14.78	BOUSB	S 23 08 15.49 E 140 02 36.89
BLNNF	S 33 36 03.12 E 115 27 05.51	BNAEI	S 28 46 54.95 E 153 45 26.19	BOUSC	S 23 07 47.89 E 139 56 24.55
BLNNG	S 33 32 01.02 E 115 35 37.60	BNAEM	S 28 49 46.55 E 153 34 31.35	BOUSF	S 22 59 36.43 E 139 57 07.30

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
BOUSH	S 22 52 41.03 E 139 52 44.12	BRUKA	S 35 00 18.47 E 138 55 26.26	BTLWF	S 19 17 22.97 E 146 37 51.85
BOUSI	S 23 03 55.99 E 139 59 52.01	BRWNA	S 29 45 44.08 E 146 52 44.53	BTLWH	S 19 08 03.69 E 146 44 31.33
BOUSM	S 22 55 16.82 E 139 54 22.76	BRWNC	S 29 45 47.59 E 146 59 19.63	BTLWI	S 19 18 45.84 E 146 32 46.91
BOWLY	S 20 43 12.00 E 145 53 18.00	BRWND	S 29 51 13.11 E 147 01 31.47	BTLWM	S 19 15 43.35 E 146 43 57.67
BOXER	S 22 06 18.51 E 146 18 49.51	BRWNF	S 29 53 56.90 E 146 52 38.49	BTRSA	S 23 48 00.22 E 148 41 43.86
BOYDI	S 18 47 44.30 E 132 31 18.45	BRWNH	S 30 00 28.10 E 146 47 16.79	BTRSB	S 23 51 49.22 E 148 46 24.78
BOYSE	S 37 18 09.23 E 145 40 10.05	BRWNI	S 29 49 52.29 E 146 55 59.20	BTRSC	S 23 49 04.54 E 148 51 54.70
BOYSY	S 33 24 04.61 E 150 32 59.62	BRWNM	S 29 58 01.43 E 146 49 17.51	BTRSF	S 23 41 51.15 E 148 47 39.13
BPNEA	S 20 30 41.36 E 148 47 41.99	BRYED	S 22 39 10.75 E 119 24 22.35	BTRSH	S 23 33 52.68 E 148 48 38.56
BPNEB	S 20 36 20.87 E 148 48 49.45	BRYEE	S 22 44 35.22 E 119 26 29.75	BTRSI	S 23 46 50.19 E 148 47 01.98
BPNEC	S 20 39 16.64 E 148 43 33.60	BRYEF	S 22 41 59.30 E 119 16 02.89	BTRSM	S 23 36 52.11 E 148 48 16.29
BPNEF	S 20 32 11.85 E 148 39 07.23	BRYEG	S 22 48 17.23 E 119 21 44.52	BUDGI	S 23 46 15.83 E 150 30 16.85
BPNEH	S 20 28 52.26 E 148 31 21.88	BRYEH	S 22 48 59.01 E 119 09 14.16	BUDNA	S 24 46 08.45 E 152 07 36.66
BPNEI	S 20 34 16.43 E 148 43 58.28	BRYEI	S 22 43 17.34 E 119 21 16.27	BUDNC	S 24 40 50.22 E 152 10 03.07
BPNEM	S 20 30 07.19 E 148 34 16.44	BRYEM	S 22 40 41.08 E 119 10 49.61	BUDND	S 24 41 06.86 E 152 16 20.53
BPNWE	S 20 19 31.84 E 148 19 36.96	BRYWA	S 22 41 44.83 E 118 55 35.43	BUDNF	S 24 49 19.35 E 152 15 54.64
BPNWF	S 20 25 55.29 E 148 27 49.43	BRYWB	S 22 36 19.95 E 118 53 29.29	BUDNH	S 24 57 48.24 E 152 21 46.99
BPNWG	S 20 17 59.86 E 148 25 29.86	BRYWC	S 22 32 38.77 E 118 58 14.86	BUDNI	S 24 45 04.81 E 152 12 58.75
BPNWH	S 20 31 40.08 E 148 33 13.28	BRYWF	S 22 38 57.34 E 119 03 55.29	BUDNM	S 24 53 33.82 E 152 18 50.72
BPNWI	S 20 22 43.59 E 148 23 43.08	BRYWH	S 22 31 57.85 E 119 10 43.80	BUGBA	S 43 48 56.19 E 163 00 00.00
BPNWM	S 20 29 06.88 E 148 31 55.94	BRYWI	S 22 37 38.73 E 118 58 42.24	BUIYA	S 26 00 00.00 E 110 00 00.00
BRADD	S 31 14 10.03 E 151 02 38.72	BRYWM	S 22 40 15.78 E 119 09 08.44	BULGA	S 32 47 16.97 E 150 57 49.52
BRAKI	S 34 57 24.76 E 138 56 46.51	BSMSA	S 19 58 38.01 E 150 19 50.76	BULGI	S 29 00 03.23 E 119 40 14.59
BREAM	S 27 00 03.05 E 155 54 46.04	BSMSB	S 19 59 25.15 E 150 12 23.07	BULLA	S 37 04 40.09 E 146 20 49.62
BRIAN	S 21 00 16.18 E 120 16 13.71	BSMSC	S 19 52 21.89 E 150 11 33.40	BULOK	S 17 35 49.74 E 144 22 36.89
BRIDE	S 23 11 24.00 E 142 08 30.00	BSMSF	S 19 51 34.78 E 150 19 00.77	BUNDY	S 13 19 25.28 E 131 55 00.06
BRIGG	S 31 44 57.24 E 114 54 28.49	BSMSH	S 19 47 57.91 E 150 25 27.00	BUNEA	S 33 12 58.71 E 115 51 10.10
BRKNA	S 23 12 34.22 E 150 18 27.96	BSMSI	S 19 55 30.00 E 150 15 42.00	BUNEB	S 33 15 41.51 E 115 57 11.92
BRKNC	S 23 07 43.85 E 150 21 49.71	BSMSM	S 19 43 57.00 E 150 25 27.00	BUNEC	S 33 21 22.93 E 115 56 13.73
BRKND	S 23 08 59.63 E 150 27 53.82	BSUNA	S 26 22 21.94 E 153 07 35.90	BUNEF	S 33 20 12.73 E 115 46 32.86
BRKNF	S 23 17 00.55 E 150 25 56.81	BSUNC	S 26 21 45.37 E 153 13 57.06	BUNEH	S 33 26 01.60 E 115 46 30.73
BRKNH	S 23 24 25.79 E 150 29 14.83	BSUND	S 26 26 55.41 E 153 16 45.84	BUNEI	S 33 17 57.33 E 115 51 52.52
BRKNI	S 23 12 22.21 E 150 23 53.20	BSUNF	S 26 30 32.31 E 153 08 33.73	BUNEM	S 33 22 27.91 E 115 41 13.09
BRKNM	S 23 21 38.74 E 150 28 00.50	BSUNH	S 26 40 46.93 E 153 11 13.14	BUNET	S 33 23 48.96 E 115 38 01.00
BRKSE	S 23 32 45.48 E 150 38 29.14	BSUNI	S 26 26 08.87 E 153 11 15.50	BUNGL	S 30 20 17.29 E 119 31 39.42
BRKSF	S 23 28 19.65 E 150 30 58.98	BSUNM	S 26 34 55.58 E 153 05 51.83	BUNGO	S 34 53 31.11 E 149 51 20.13
BRKSG	S 23 37 36.20 E 150 35 07.24	BTHNA	S 33 12 22.85 E 149 32 30.40	BUNGY	S 37 29 06.00 E 138 19 48.00
BRKSH	S 23 19 02.75 E 150 26 51.12	BTHNC	S 33 11 45.35 E 149 43 40.84	BUNKY	S 37 20 00.00 E 144 46 00.00
BRKSI	S 23 32 57.93 E 150 33 03.04	BTHND	S 33 08 46.89 E 149 37 50.08	BUNNY	S 27 32 48.56 E 127 12 12.95
BRKSJ	S 23 36 20.58 E 150 29 01.75	BTHNF	S 33 18 46.71 E 149 38 37.49	BURBN	S 16 21 18.12 E 144 16 07.93
BRKSM	S 23 23 41.48 E 150 28 55.11	BTHNH	S 33 26 46.55 E 149 39 15.55	BURCH	S 29 02 30.00 E 149 02 42.00
BRLND	S 15 51 14.21 E 136 19 46.68	BTHNI	S 33 13 46.80 E 149 38 13.76	BURGU	S 32 58 11.48 E 118 39 19.71
BRLNE	S 15 50 29.83 E 136 25 40.63	BTHNM	S 33 23 46.61 E 149 39 01.26	BURKE	S 27 02 00.00 E 115 41 24.00
BRLNF	S 15 59 23.74 E 136 20 52.11	BTHSE	S 33 36 21.43 E 149 45 39.59	BURLA	S 21 42 44.31 E 137 58 49.21
BRLNG	S 15 55 36.73 E 136 28 25.01	BTHSF	S 33 29 58.20 E 149 39 30.60	BURLI	S 28 11 32.89 E 153 36 02.10
BRLNH	S 16 06 30.78 E 136 17 00.99	BTHSG	S 33 39 57.60 E 149 40 18.60	BURNS	S 37 45 30.52 E 144 43 00.91
BRLNI	S 15 54 56.80 E 136 23 16.43	BTHSH	S 33 21 58.05 E 149 38 52.65	BURPA	S 27 04 23.04 E 152 57 32.69
BRLNM	S 16 03 50.65 E 136 18 27.69	BTHSI	S 33 34 57.60 E 149 39 54.60	BURRA	S 37 00 31.04 E 143 03 11.15
BRLSA	S 16 15 15.08 E 136 17 46.37	BTHSJ	S 33 36 58.80 E 149 34 25.80	BURTO	S 23 07 12.00 E 146 36 54.00
BRLSB	S 16 16 14.30 E 136 13 06.76	BTHSM	S 33 24 57.99 E 149 39 06.92	BUTON	S 21 24 48.00 E 118 05 06.00
BRLSC	S 16 12 20.79 E 136 10 33.66	BTINA	S 11 37 29.33 E 130 26 28.94	BUTPA	S 08 32 48.00 E 129 39 54.00
BRLSF	S 16 08 49.47 E 136 16 18.82	BTINC	S 11 32 15.82 E 130 28 56.86	BWGEA	S 27 16 52.23 E 121 15 59.19
BRLSH	S 16 02 20.19 E 136 19 06.68	BTIND	S 11 32 45.55 E 130 34 46.06	BWGEB	S 27 21 28.70 E 121 19 50.46
BRLSI	S 16 12 31.89 E 136 14 42.82	BTINF	S 11 40 57.50 E 130 34 03.05	BWGEC	S 27 26 17.37 E 121 16 19.88
BRLSM	S 16 05 07.03 E 136 17 54.76	BTINH	S 11 47 54.77 E 130 38 08.23	BWGEF	S 27 21 47.18 E 121 08 36.89
BRMEA	S 17 55 44.36 E 122 27 36.22	BTINI	S 11 36 36.67 E 130 31 29.92	BWGEG	S 27 22 04.54 E 120 57 56.97
BRMEB	S 18 01 10.06 E 122 29 36.72	BTINM	S 11 45 18.30 E 130 36 36.26	BWGEI	S 27 21 37.94 E 121 14 13.68
BRMEC	S 18 04 49.78 E 122 24 57.97	BTISE	S 11 54 34.94 E 130 47 35.90	BWGEM	S 27 21 56.42 E 121 03 00.10
BRMEF	S 17 58 28.97 E 122 19 30.11	BTISF	S 11 51 06.94 E 130 40 01.22	BWNED	S 19 49 43.52 E 148 21 30.41
BRMEH	S 17 56 20.03 E 122 11 24.96	BTISG	S 11 59 48.42 E 130 45 08.09	BWNEE	S 19 51 47.88 E 148 27 11.01
BRMEI	S 17 59 49.51 E 122 24 33.40	BTISH	S 11 44 09.69 E 130 35 55.96	BWNEF	S 19 57 23.72 E 148 18 22.43
BRMEM	S 17 57 08.42 E 122 14 26.87	BTISI	S 11 55 27.69 E 130 42 34.61	BWNEG	S 19 57 33.27 E 148 27 04.10
BRMWD	S 17 58 05.73 E 121 59 38.57	BTISJ	S 11 59 18.77 E 130 39 18.16	BWNEH	S 20 01 19.49 E 148 10 26.83
BRMWE	S 17 52 39.93 E 121 57 38.38	BTISM	S 11 46 46.17 E 130 37 27.91	BWNEI	S 19 54 35.85 E 148 22 46.89
BRMWF	S 17 55 21.34 E 122 07 44.57	BTLND	S 19 00 20.25 E 146 49 57.84	BWNEM	S 20 00 11.44 E 148 13 57.90
BRMWG	S 17 49 00.36 E 122 02 16.95	BTLNE	S 19 00 08.91 E 146 56 00.85	BWNESA	S 20 12 55.90 E 148 06 22.64
BRMWH	S 17 57 30.41 E 122 15 49.64	BTLNF	S 19 08 33.38 E 146 50 14.74	BWNSE	S 20 11 36.90 E 148 00 26.42
BRMWI	S 17 54 00.64 E 122 02 41.46	BTLNG	S 19 05 29.45 E 146 58 16.38	BWNSS	S 20 05 53.86 E 147 59 43.36
BRMWM	S 17 56 42.05 E 122 12 47.71	BTLNH	S 19 13 26.10 E 146 38 19.63	BWNST	S 20 04 55.60 E 148 08 21.91
BROAD	S 42 31 54.00 E 146 28 48.00	BTLNI	S 19 04 21.17 E 146 53 07.86	BWNSH	S 20 05 19.15 E 148 15 51.97
BRONS	S 38 09 12.00 E 146 06 06.00	BTLNM	S 19 13 35.98 E 146 46 46.79	BWNST	S 20 08 16.29 E 148 04 24.25
BRONY	S 37 56 21.60 E 147 12 01.20	BTLWA	S 19 23 46.24 E 146 32 24.54	BWNST	S 20 01 34.81 E 148 12 19.40
BROOK	S 32 12 49.01 E 116 27 19.54	BTLWB	S 19 20 08.56 E 146 27 41.88	BWPEA	S 12 43 45.97 E 142 08 33.65
BRUCE	S 23 05 54.00 E 115 02 00.00	BTLWC	S 19 14 15.05 E 146 30 28.13	BWPEB	S 12 49 31.48 E 142 08 38.45



WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
BWPEC	S 12 51 34.10 E 142 03 08.93	CBAED	S 31 21 16.21 E 145 56 20.29	CEEEC	S 33 47 27.53 E 136 45 27.42
BWPEF	S 12 43 52.56 E 142 00 10.71	CBAEE	S 31 23 13.66 E 146 02 37.80	CEEEF	S 33 42 41.10 E 136 37 27.96
BWPEH	S 12 39 55.16 E 141 54 15.51	CBAEF	S 31 28 59.39 E 145 53 04.00	CEEEH	S 33 42 35.63 E 136 27 52.60
BWPEI	S 12 46 42.05 E 142 04 24.53	CBAEG	S 31 28 58.91 E 146 02 38.48	CEEEI	S 33 42 44.15 E 136 43 27.57
BWPEM	S 12 41 03.00 E 141 55 56.98	CBAEH	S 31 33 35.45 E 145 45 24.11	CEEEEM	S 33 42 37.77 E 136 31 28.36
BWPWD	S 12 37 06.44 E 141 41 31.33	CBAEI	S 31 26 06.61 E 145 57 51.05	CELIA	S 24 22 16.70 E 127 19 26.35
BWPWE	S 12 31 20.65 E 141 41 26.93	CBAEM	S 31 31 51.98 E 145 48 16.66	CESCI	S 19 22 16.26 E 124 51 37.75
BWPWF	S 12 37 00.14 E 141 49 53.86	CBAWA	S 31 43 13.85 E 145 38 53.85	CFSNA	S 30 05 47.12 E 153 13 44.73
BWPWG	S 12 29 18.37 E 141 46 55.86	CBAWB	S 31 41 15.49 E 145 32 34.49	CFSNC	S 30 06 23.22 E 153 20 19.36
BWPWH	S 12 41 31.53 E 141 56 39.68	CBAWC	S 31 35 30.96 E 145 32 35.04	CFSND	S 30 11 57.99 E 153 21 55.76
BWPWI	S 12 34 10.43 E 141 45 40.35	CBAWF	S 31 35 31.27 E 145 42 10.77	CFSNF	S 30 14 42.64 E 153 11 59.59
BWPWM	S 12 39 49.78 E 141 54 07.47	CBAWH	S 31 30 55.37 E 145 49 50.95	CFSNH	S 30 27 10.24 E 153 14 31.61
BWXND	S 20 38 21.16 E 115 25 52.47	CBAWI	S 31 38 23.47 E 145 37 22.78	CFSNI	S 30 10 10.25 E 153 16 32.41
BWXNE	S 20 37 30.34 E 115 31 55.40	CBAWM	S 31 32 38.89 E 145 46 58.47	CFSNM	S 30 19 14.64 E 153 07 26.57
BWXNF	S 20 46 29.14 E 115 27 09.55	CBBEA	S 31 22 37.85 E 149 30 54.11	CFSSE	S 30 33 59.57 E 152 59 57.71
BWXNG	S 20 42 33.93 E 115 34 50.44	CBBEB	S 31 28 22.12 E 149 31 09.53	CFSSF	S 30 25 04.06 E 153 01 39.67
BWXNH	S 20 53 40.16 E 115 23 20.64	CBBEC	S 31 30 32.43 E 149 24 56.40	CFSSG	S 30 33 24.98 E 152 53 20.73
BWXNI	S 20 41 59.74 E 115 29 32.51	CBBEF	S 31 22 56.38 E 149 21 20.08	CFSSH	S 30 19 53.47 E 153 18 56.03
BWXNM	S 20 50 58.54 E 115 24 46.52	CBBEH	S 31 16 17.52 E 149 24 44.14	CFSSI	S 30 29 37.35 E 152 57 07.70
BWXSA	S 21 05 00.12 E 115 22 55.88	CBBEI	S 31 25 39.35 E 149 26 14.66	CFSSJ	S 30 27 50.91 E 153 14 33.00
BWXSB	S 21 05 50.96 E 115 16 51.86	CBBEM	S 31 20 13.23 E 149 16 25.78	CFSSM	S 30 20 30.60 E 153 06 11.22
BWXSC	S 21 00 47.25 E 115 13 56.64	CBPNA	S 28 50 43.13 E 134 50 19.16	CHAPL	S 27 27 09.24 E 150 00 00.00
BWXSF	S 20 56 52.26 E 115 21 38.49	CBPNC	S 28 52 06.32 E 134 56 39.53	CHARD	S 20 37 24.00 E 147 23 54.00
BWXSH	S 20 54 21.04 E 115 31 05.84	CBPND	S 28 57 49.42 E 134 57 21.05	CHARL	S 27 52 38.73 E 117 32 04.38
BWXSI	S 21 01 21.61 E 115 19 15.21	CBPNF	S 28 58 41.28 E 134 48 03.81	CHERY	S 12 32 00.00 E 140 00 00.00
BWXSM	S 20 52 22.91 E 115 24 01.70	CBPNH	S 28 55 50.80 E 134 39 03.95	CHEWY	S 28 58 05.32 E 155 18 53.74
BYLLA	S 27 00 00.00 E 110 00 00.00	CBPNI	S 28 55 23.87 E 134 52 21.81	CHICO	S 27 03 50.68 E 151 26 44.10
CABIG	S 33 50 59.88 E 145 28 15.25	CBPNM	S 29 01 58.56 E 134 43 45.54	CHIDL	S 31 52 46.28 E 116 15 54.11
CALAR	S 29 00 00.00 E 136 49 51.05	CBPSE	S 29 14 05.31 E 134 36 02.53	CHIMU	S 37 33 56.78 E 144 47 50.41
CALDA	S 37 40 18.00 E 144 41 42.00	CBPSF	S 29 06 07.37 E 134 38 19.14	CHIPS	S 27 26 30.00 E 153 03 30.00
CALIG	S 31 01 59.88 E 116 26 41.01	CBPSG	S 29 12 41.14 E 134 29 41.09	CHITT	S 36 16 18.00 E 143 41 18.00
CALTX	S 16 59 59.99 E 149 39 13.74	CBPSH	S 29 00 51.95 E 134 45 12.80	CHOMP	S 38 45 54.00 E 148 41 30.00
CALUM	S 34 57 18.22 E 144 09 23.76	CBPSI	S 29 09 24.33 E 134 34 00.25	CHOOK	S 28 17 00.00 E 143 41 38.00
CAMBS	S 25 00 00.00 E 110 00 00.00	CBPSJ	S 29 06 57.92 E 134 29 01.01	CHRIS	S 34 46 34.80 E 150 45 07.20
CAMEL	S 29 12 03.87 E 118 31 36.37	CBPSM	S 29 02 50.27 E 134 42 37.76	CHUBA	S 16 09 28.36 E 120 58 09.44
CAMUS	S 40 00 00.10 E 145 30 45.58	CBULA	S 30 16 00.00 E 153 37 00.00	CINDA	S 22 47 36.47 E 133 57 05.76
CANAC	S 32 13 27.54 E 115 35 41.81	CCYND	S 20 35 57.45 E 140 16 48.98	CINDY	S 15 42 12.00 E 137 12 54.00
CANDY	S 36 25 30.00 E 135 00 00.00	CCYNE	S 20 30 12.26 E 140 17 07.44	CINEA	S 17 34 52.23 E 124 03 59.54
CANNU	S 16 49 38.90 E 145 43 34.40	CCYNF	S 20 36 21.84 E 140 25 32.25	CINEB	S 17 40 26.45 E 124 05 30.99
CANRI	S 32 22 25.25 E 116 27 17.54	CCYNG	S 20 28 30.55 E 140 22 57.53	CINEC	S 17 43 43.12 E 124 00 34.59
CANTY	S 36 48 24.00 E 144 39 06.00	CCYNH	S 20 41 17.57 E 140 32 16.29	CINEF	S 17 36 57.27 E 123 55 41.78
CAPER	S 33 22 45.10 E 150 56 18.90	CCYNI	S 20 33 17.20 E 140 21 19.68	CINEH	S 17 34 09.57 E 123 47 50.68
CAPET	S 31 40 46.12 E 139 21 17.66	CCYNM	S 20 39 26.78 E 140 29 44.66	CINEI	S 17 38 41.92 E 124 00 36.34
CAPRI	S 22 16 00.00 E 150 11 24.00	CCYSA	S 20 43 55.41 E 140 44 03.17	CINEM	S 17 35 12.49 E 123 50 47.32
CARBA	S 16 28 26.83 E 144 58 06.93	CCYSB	S 20 49 40.19 E 140 43 45.35	CINWD	S 17 34 45.85 E 123 35 26.32
CARBN	S 29 07 21.84 E 146 58 07.33	CCYSC	S 20 51 22.39 E 140 37 54.14	CINWE	S 17 29 11.40 E 123 33 55.84
CARBY	S 19 50 22.73 E 145 17 50.61	CCYSF	S 20 43 31.24 E 140 35 19.29	CINWF	S 17 32 41.67 E 123 43 44.21
CARDO	S 13 00 48.00 E 137 56 54.00	CCYSH	S 20 38 17.31 E 140 28 09.68	CINWG	S 17 25 55.39 E 123 38 52.33
CARMI	S 26 13 03.60 E 115 00 00.00	CCYSI	S 20 46 35.77 E 140 39 32.24	CINWH	S 17 35 29.53 E 123 51 35.18
CARMN	S 18 51 57.30 E 146 15 55.12	CCYSM	S 20 40 26.61 E 140 31 06.52	CINWI	S 17 30 56.60 E 123 38 49.98
CARNA	S 24 40 33.66 E 113 45 47.55	CDOSA	S 33 17 19.90 E 147 11 39.88	CINWM	S 17 34 26.62 E 123 48 38.54
CARNC	S 24 41 23.30 E 113 52 01.48	CDOSB	S 33 18 22.13 E 147 04 56.03	CITEE	S 27 28 12.05 E 153 04 45.70
CARND	S 24 47 01.29 E 113 53 18.53	CDOSC	S 33 13 24.59 E 147 01 28.64	CKNED	S 15 25 36.51 E 145 25 21.52
CARNF	S 24 48 41.56 E 113 44 29.68	CDOSF	S 33 09 15.60 E 147 09 53.91	CKNEE	S 15 31 02.04 E 145 27 21.24
CARNH	S 24 54 31.90 E 113 38 27.61	CDOSH	S 33 01 58.22 E 147 13 51.48	CKNEF	S 15 28 22.14 E 145 17 22.14
CARNI	S 24 45 02.48 E 113 48 15.69	CDOSI	S 33 13 48.89 E 147 07 25.10	CKNEG	S 15 34 42.44 E 145 22 46.63
CARNM	S 24 52 20.55 E 113 40 43.46	CDOSM	S 33 04 42.25 E 147 12 22.47	CKNEH	S 15 25 57.87 E 145 08 23.20
CARON	S 22 21 30.00 E 149 51 54.00	CDUEA	S 32 07 51.80 E 133 58 04.51	CKNEI	S 15 29 42.14 E 145 22 21.65
CARSE	S 25 05 10.55 E 113 34 32.76	CDUEB	S 32 13 26.07 E 133 59 44.20	CKNEM	S 15 26 46.00 E 145 11 22.82
CARSF	S 24 57 02.76 E 113 35 51.45	CDUEC	S 32 16 39.99 E 133 54 08.63	CKNWA	S 15 26 09.81 E 144 56 30.42
CARSG	S 25 04 20.19 E 113 28 17.75	CDUEF	S 32 09 52.73 E 133 48 43.14	CKNWB	S 15 20 33.75 E 144 55 07.28
CARSH	S 24 51 12.53 E 113 41 53.76	CDUEH	S 32 07 01.94 E 133 39 54.65	CKNWC	S 15 17 22.98 E 145 00 04.21
CARSI	S 25 00 41.52 E 113 32 04.71	CDUEI	S 32 11 39.40 E 133 54 13.62	CKNWF	S 15 24 14.44 E 145 04 45.14
CARSJ	S 24 58 42.00 E 113 27 01.66	CDUEM	S 32 08 06.06 E 133 43 12.77	CKNWH	S 15 28 48.23 E 145 12 53.23
CARSL	S 27 21 06.00 E 153 03 06.00	CDUWD	S 32 07 53.18 E 133 27 01.47	CKNWI	S 15 22 24.15 E 144 59 56.17
CARSM	S 24 53 23.90 E 113 39 37.96	CDUWE	S 32 02 18.63 E 133 25 23.17	CKNWM	S 15 26 04.63 E 145 09 34.19
CARTS	S 29 41 16.09 E 136 14 21.34	CDUWF	S 32 05 53.26 E 133 36 22.75	CLAMP	S 26 05 24.00 E 152 44 00.00
CASHN	S 42 52 43.65 E 147 34 10.14	CDUWG	S 31 59 05.47 E 133 30 58.49	CLAMY	S 35 51 12.00 E 131 30 00.00
CATAN	S 28 42 55.33 E 150 45 29.19	CDUWH	S 32 08 44.28 E 133 45 11.03	CLARK	S 42 28 24.00 E 147 00 42.00
CATCH	S 12 11 08.08 E 130 59 19.72	CDUWI	S 32 04 06.06 E 133 30 52.86	CLARY	S 35 05 58.97 E 138 36 21.06
CATEY	S 19 28 24.85 E 146 03 29.48	CDUWM	S 32 07 40.22 E 133 41 52.86	CLAYS	S 29 57 19.59 E 118 55 51.43
CATHY	S 33 46 43.21 E 151 07 57.32	CEDAR	S 19 30 00.00 E 115 07 12.21	CLEOS	S 27 58 21.82 E 152 17 33.88
CAULI	S 26 27 30.00 E 132 11 48.00	CEEEA	S 33 38 02.71 E 136 45 33.71	CLERY	S 37 57 47.41 E 147 00 51.12
CAWLY	S 34 19 34.38 E 151 57 28.35	CEEEB	S 33 42 46.90 E 136 49 27.19	CLESE	S 12 26 48.94 E 130 47 06.61

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
CLIFF	S 34 13 36.00 E 151 00 00.00	CNYSJ	S 18 58 09.70 E 138 46 48.40	CRAIG	S 12 41 30.42 E 131 42 47.87
CLIFT	S 20 36 16.95 E 148 27 27.18	CNYSM	S 18 46 02.20 E 138 42 58.60	CRANE	S 28 12 23.38 E 150 33 16.68
CLOVA	S 25 00 47.64 E 120 00 23.00	COBEL	S 35 10 06.00 E 128 00 00.00	CRAVN	S 32 07 36.00 E 151 46 00.00
CLOZA	S 26 59 27.00 E 139 44 26.80	COBES	S 23 16 53.88 E 149 49 48.15	CRAWS	S 27 42 00.00 E 153 25 18.00
CLUGO	S 32 04 06.00 E 115 42 12.00	COBHI	S 31 47 54.00 E 143 31 00.00	CREDY	S 25 48 24.00 E 153 15 12.00
CLYDE	S 28 29 57.20 E 135 50 05.46	COBRA	S 24 06 36.56 E 116 47 49.93	CREEK	S 16 47 57.69 E 145 44 29.69
CMTNA	S 22 36 31.90 E 147 27 32.60	COBUN	S 17 10 12.00 E 142 51 13.12	CRENA	S 37 16 24.00 E 140 04 54.00
CMTNC	S 22 31 44.47 E 147 30 58.70	COCKA	S 23 02 30.65 E 149 38 29.48	CRGNA	S 35 55 39.43 E 148 03 12.52
CMTND	S 22 33 05.86 E 147 36 59.99	CODIE	S 16 32 42.00 E 145 35 54.00	CRGNC	S 35 58 21.09 E 148 14 00.92
CMTNF	S 22 41 05.20 E 147 34 54.84	COEWA	S 13 44 48.70 E 142 52 25.86	CRGND	S 36 07 31.77 E 148 14 36.56
CMTNH	S 22 48 33.76 E 147 38 03.98	COEWB	S 13 39 10.44 E 142 51 13.12	CRGNF	S 36 06 21.40 E 148 01 22.44
CMTNI	S 22 36 24.84 E 147 32 56.74	COEWC	S 13 36 07.88 E 142 56 13.23	CRGNH	S 36 11 49.32 E 147 51 07.97
CMTNM	S 22 45 45.56 E 147 36 53.01	COEWF	S 13 43 06.98 E 143 00 39.98	CRGNI	S 36 03 16.82 E 148 06 14.47
CMUED	S 28 05 33.21 E 145 49 03.73	COEWH	S 13 40 03.97 E 143 05 13.17	CRGNM	S 36 10 39.47 E 147 54 32.97
CMUEE	S 28 10 08.25 E 145 48 36.17	COEWF	S 13 41 08.75 E 142 55 56.51	CRICK	S 34 29 30.00 E 125 00 00.00
CMUEF	S 28 04 58.14 E 145 41 40.84	COEWM	S 13 45 05.11 E 143 05 23.53	CRIMP	S 16 50 48.00 E 143 08 12.00
CMUEG	S 28 11 19.26 E 145 43 35.04	COFEE	S 15 08 59.26 E 131 13 26.51	CRISO	S 19 34 19.88 E 138 34 45.66
CMUEH	S 28 00 26.49 E 145 35 37.92	COKES	S 16 01 09.67 E 143 17 22.22	CRIST	S 27 28 31.21 E 144 27 13.02
CMUEI	S 28 07 33.24 E 145 45 08.42	COLDS	S 37 42 39.53 E 145 20 58.18	CROKO	S 19 03 45.54 E 146 27 44.68
CMUEM	S 28 02 22.97 E 145 38 13.42	COLET	S 25 37 41.78 E 152 54 29.27	CROWE	S 10 06 14.57 E 087 21 40.09
CMUWA	S 27 58 14.53 E 145 26 07.45	COLLA	S 12 20 41.49 E 134 24 44.26	CTMNA	S 34 24 58.84 E 147 54 43.65
CMUWB	S 27 53 39.59 E 145 26 35.88	COLLY	S 27 29 22.24 E 147 36 22.25	CTMNC	S 34 21 09.91 E 147 59 54.64
CMUWC	S 27 52 29.18 E 145 31 36.34	COLOP	S 21 29 06.00 E 141 11 12.00	CTMNF	S 34 31 06.92 E 148 01 18.36
CMUWF	S 27 58 50.41 E 145 33 29.76	COLPY	S 35 02 10.57 E 138 24 13.90	CTMNH	S 34 39 34.35 E 148 02 29.78
CMUWH	S 28 03 56.38 E 145 30 41.20	COMAC	S 33 33 08.39 E 137 51 03.54	CTMNI	S 34 26 08.42 E 148 00 36.46
CMUWI	S 27 56 15.04 E 145 30 02.74	COMLY	S 35 09 47.01 E 139 06 56.39	CTMNM	S 34 36 05.41 E 148 02 00.34
CMUWM	S 28 01 25.70 E 145 36 56.95	COMND	S 36 01 36.26 E 149 00 37.04	CTMSE	S 34 49 09.55 E 148 09 35.72
CNFED	S 21 41 59.89 E 121 49 52.92	COMNE	S 36 00 43.41 E 149 09 01.88	CTMSF	S 34 43 01.79 E 148 02 59.03
CNFEE	S 21 47 42.37 E 121 50 40.64	COMNF	S 36 10 28.86 E 149 02 44.20	CTMSG	S 34 52 58.73 E 148 04 23.46
CNFEF	S 21 43 03.59 E 121 41 09.32	COMNG	S 36 06 42.52 E 149 11 42.93	CTMSH	S 34 35 04.22 E 148 01 51.73
CNFEG	S 21 50 21.32 E 121 45 12.28	COMNH	S 36 19 20.90 E 148 56 59.49	CTMSI	S 34 48 00.27 E 148 03 41.20
CNFEH	S 21 39 20.39 E 121 33 32.59	COMNI	S 36 06 02.75 E 149 05 36.08	CTMSJ	S 34 50 14.89 E 147 58 15.44
CNFEI	S 21 45 22.91 E 121 45 54.98	COMNM	S 36 16 41.31 E 148 58 43.04	CTMSM	S 34 38 03.31 E 148 02 16.94
CNFEM	S 21 40 44.13 E 121 36 23.82	COMSA	S 36 32 34.51 E 149 00 15.49	CUAWA	S 33 19 16.50 E 148 30 48.83
CNFWA	S 21 38 47.04 E 121 21 32.24	COMSB	S 36 34 45.14 E 148 53 40.25	CUAWB	S 33 14 04.44 E 148 27 52.96
CNFWB	S 21 33 04.52 E 121 20 44.91	COMSC	S 36 30 37.58 E 148 47 39.29	CUAWC	S 33 09 59.51 E 148 32 40.85
CNFWC	S 21 30 25.70 E 121 26 12.70	COMSF	S 36 24 59.15 E 148 56 24.23	CUAWF	S 33 15 45.53 E 148 39 38.22
CNFWF	S 21 37 43.85 E 121 30 15.27	COMSH	S 36 17 10.25 E 148 58 34.98	CUAWH	S 33 22 03.45 E 148 45 11.92
CNFWH	S 21 41 27.14 E 121 37 51.87	COMSI	S 36 29 52.19 E 148 55 02.31	CUAWI	S 33 14 55.12 E 148 33 45.53
CNFWI	S 21 35 24.12 E 121 25 30.09	COMSM	S 36 20 06.09 E 148 57 46.00	CUAWM	S 33 16 35.66 E 148 45 31.01
CNFWM	S 21 40 03.45 E 121 35 00.60	CONNI	S 31 29 03.39 E 116 24 40.08	CUBBY	S 31 33 16.80 E 116 07 27.60
CNMED	S 30 47 47.41 E 148 30 56.29	CONOR	S 19 05 50.59 E 143 39 38.51	CUDGN	S 28 14 20.61 E 153 32 39.32
CNMEE	S 30 49 38.01 E 148 37 14.41	COOBI	S 23 35 17.31 E 120 17 25.38	CULAB	S 27 42 08.43 E 116 07 35.22
CNMEF	S 30 55 34.08 E 148 27 52.55	COODA	S 27 10 58.48 E 153 39 42.11	CULIN	S 34 44 24.00 E 149 23 24.00
CNMEG	S 30 55 23.19 E 148 37 23.53	COOKY	S 34 48 13.01 E 138 46 25.25	CUNNA	S 31 25 12.05 E 117 19 46.16
CNMEH	S 31 00 18.44 E 148 20 22.23	COOLA	S 25 18 00.03 E 150 22 04.68	CUNNC	S 31 31 57.33 E 117 27 25.57
CNMEI	S 30 52 36.13 E 148 32 33.62	COOPA	S 31 47 51.17 E 151 31 54.63	CUNND	S 31 26 16.95 E 117 26 21.32
CNMEM	S 30 58 31.86 E 148 23 11.19	COOPS	S 41 27 54.31 E 157 50 00.54	CUNNF	S 31 33 15.80 E 117 17 57.80
CNMWA	S 31 10 03.94 E 148 14 08.44	COORS	S 29 00 00.00 E 145 33 07.84	CUNNH	S 31 32 36.66 E 117 09 34.18
CNMWB	S 31 08 12.49 E 148 07 48.48	COPDI	S 29 33 19.66 E 117 56 29.49	CUNNI	S 31 29 46.45 E 117 22 09.71
CNMWC	S 31 02 27.98 E 148 07 40.52	COPPA	S 35 46 54.00 E 147 34 54.00	CUNNM	S 31 36 45.01 E 117 13 45.57
CNMWF	S 31 02 17.85 E 148 17 12.78	CORAL	S 26 32 52.36 E 153 19 10.31	CUNNP	S 31 39 02.81 E 117 11 01.65
CNMWH	S 30 57 33.64 E 148 24 43.38	CORDO	S 34 19 49.91 E 150 47 08.30	CURLY	S 11 14 35.00 E 128 39 21.00
CNMWI	S 31 05 15.25 E 148 12 30.77	CORKY	S 32 29 54.73 E 150 54 44.94	CURON	S 35 38 27.68 E 138 53 45.06
CNMWM	S 30 59 20.27 E 148 21 54.49	CORND	S 35 48 37.34 E 146 30 13.79	CURTN	S 35 20 58.26 E 149 11 40.01
CNSNA	S 16 40 44.70 E 145 34 13.10	CORNE	S 35 50 29.86 E 146 36 53.26	CUSNA	S 34 00 12.58 E 135 32 25.11
CNSNC	S 16 35 50.13 E 145 37 20.51	CORNF	S 35 56 22.66 E 146 26 55.51	CUSNC	S 33 56 54.96 E 135 38 04.20
CNSND	S 16 36 59.04 E 145 43 11.70	CORNG	S 35 56 14.88 E 146 37 00.33	CUSND	S 34 00 12.58 E 135 43 43.30
CNSNF	S 16 45 02.66 E 145 41 29.69	CORNH	S 36 01 04.30 E 146 18 56.25	CUSNF	S 34 06 56.04 E 135 38 04.20
CNSNH	S 16 49 14.78 E 145 50 20.25	CORNI	S 35 53 26.36 E 146 31 54.57	CUSNH	S 34 14 56.89 E 135 38 04.20
CNSNI	S 16 40 26.41 E 145 39 25.05	CORNM	S 35 59 18.75 E 146 21 56.08	CUSNI	S 34 01 55.50 E 135 38 04.20
CNSNM	S 16 49 38.09 E 145 43 34.42	CORNS	S 35 03 27.45 E 138 22 21.42	CUSNM	S 34 11 56.57 E 135 38 04.20
CNYNA	S 18 38 45.90 E 138 30 33.90	CORRS	S 37 55 32.03 E 145 36 49.81	CWAED	S 22 50 51.60 E 119 01 56.10
CNYNC	S 18 33 14.74 E 138 32 16.56	CORSA	S 36 10 52.93 E 146 12 05.66	CWAEE	S 22 56 00.41 E 119 06 54.32
CNYND	S 18 32 53.30 E 138 38 18.00	CORSB	S 36 08 59.34 E 146 05 23.82	CWAEF	S 22 57 18.81 E 118 55 04.30
CNYNF	S 18 41 05.60 E 138 38 50.20	CORSC	S 36 03 15.16 E 146 05 18.28	CWAEG	S 23 02 05.69 E 119 03 23.01
CNYNH	S 18 48 56.20 E 138 45 24.50	CORSF	S 36 03 08.30 E 146 15 24.72	CWAEH	S 22 58 15.27 E 118 46 27.77
CNYNI	S 18 37 10.20 E 138 35 33.30	CORSH	S 35 58 26.86 E 146 23 24.37	CWAEI	S 22 56 43.28 E 119 00 27.07
CNYNM	S 18 45 00.90 E 138 42 07.30	CORSI	S 36 06 03.93 E 146 10 24.46	CWAEM	S 22 57 54.15 E 118 49 41.48
CNYSE	S 18 52 16.50 E 138 54 32.90	CORSM	S 36 00 12.46 E 146 20 24.61	CWAWA	S 23 05 06.69 E 118 35 44.01
CNYSF	S 18 49 57.30 E 138 46 15.80	COTON	S 27 37 07.92 E 153 12 59.55	CWAWB	S 22 59 56.91 E 118 30 46.63
CNYSG	S 18 57 47.90 E 138 52 50.70	COTTS	S 31 58 36.13 E 115 40 41.85	CWAWC	S 22 53 52.35 E 118 34 19.35
CNYSH	S 18 42 06.80 E 138 39 41.50	COWIE	S 27 40 26.00 E 152 52 06.00	CWAWF	S 22 58 40.32 E 118 42 37.12
CNYSI	S 18 53 52.70 E 138 49 33.20	COWLY	S 35 06 18.90 E 138 45 37.52	CWAWH	S 22 57 44.07 E 118 51 13.70

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
CWAWI	S 22 59 15.24 E 118 37 14.20	DIGLA	S 21 18 17.20 E 133 11 27.28	DOUGY	S 29 10 54.64 E 151 11 13.99
CWAWM	S 22 58 05.22 E 118 47 59.99	DIMOC	S 37 41 29.95 E 145 12 49.47	DOVOM	S 28 40 22.77 E 163 00 00.00
CWRNA	S 33 40 12.61 E 148 28 41.32	DINGO	S 23 52 48.43 E 133 51 51.85	DOXIE	S 31 08 17.70 E 148 06 06.06
CWRNC	S 33 35 35.40 E 148 32 46.70	DINOS	S 25 58 31.11 E 147 23 26.46	DPOEA	S 40 59 58.55 E 146 37 57.10
CWRND	S 33 37 13.09 E 148 39 21.66	DIPLO	S 40 00 00.02 E 145 40 59.95	DPOEB	S 41 02 29.34 E 146 44 45.05
CWRNF	S 33 45 05.43 E 148 36 34.84	DIPPA	S 33 57 29.46 E 151 19 25.97	DPOEC	S 41 08 12.35 E 146 43 57.55
CWRNH	S 33 52 41.35 E 148 39 37.96	DIPSO	S 33 54 23.26 E 152 04 19.02	DPOEF	S 41 07 20.60 E 146 33 11.26
CWRNI	S 33 40 20.43 E 148 34 40.66	DISHA	S 35 04 09.85 E 139 04 20.84	DPOEH	S 41 07 53.99 E 146 18 09.96
CWRNM	S 33 49 50.39 E 148 38 29.23	DISPT	S 25 55 56.58 E 153 11 24.18	DPOEI	S 41 04 55.12 E 146 38 58.37
CWRSE	S 34 01 04.04 E 148 48 58.27	DIVER	S 34 47 08.39 E 138 35 52.13	DPOEM	S 41 09 45.80 E 146 27 23.73
CWRSF	S 33 56 11.64 E 148 41 02.60	DIVNA	S 23 03 52.24 E 115 16 20.45	DRADO	S 12 39 51.60 E 130 52 01.20
CWRSG	S 34 05 41.39 E 148 44 52.55	DLOEA	S 27 57 05.57 E 121 30 07.66	DRAFF	S 16 45 55.33 E 141 14 01.13
CWRSH	S 33 48 35.74 E 148 37 59.26	DLOEB	S 28 02 48.33 E 121 29 22.62	DRAIN	S 27 09 54.54 E 153 05 03.74
CWRSI	S 34 00 56.53 E 148 42 57.47	DLOEC	S 28 04 07.84 E 121 23 04.09	DREWS	S 16 06 58.55 E 145 19 37.66
CWRSJ	S 34 04 03.69 E 148 38 15.01	DLOEF	S 27 56 08.20 E 121 20 56.47	DRINA	S 35 25 13.41 E 139 14 05.81
CWRSM	S 33 51 26.71 E 148 39 07.95	DLOEH	S 27 50 47.72 E 121 14 12.30	DUBAG	S 15 32 47.91 E 085 00 00.00
DADAN	S 27 29 48.52 E 153 08 58.74	DLOEI	S 27 59 28.33 E 121 25 09.42	DUBEV	S 27 33 02.47 E 163 27 17.41
DADAR	S 02 00 00.00 E 079 27 06.00	DLOEM	S 27 52 47.93 E 121 16 43.78	DUBIS	S 23 16 15.64 E 127 48 51.78
DADVA	S 31 00 44.48 E 137 20 49.96	DLOWD	S 27 47 46.30 E 121 02 27.38	DUBYA	S 35 16 53.20 E 149 11 39.99
DAGUK	S 23 19 15.73 E 127 08 18.78	DLOWE	S 27 42 03.68 E 121 03 13.72	DUCEK	S 27 58 23.84 E 141 32 14.82
DAISY	S 19 35 07.68 E 146 48 06.33	DLOWF	S 27 48 44.91 E 121 11 37.70	DUDOK	S 34 04 48.17 E 151 04 38.35
DAKUN	S 22 40 06.00 E 141 22 54.00	DLOWG	S 27 40 45.07 E 121 09 31.22	DUFFY	S 35 06 21.80 E 138 10 03.66
DALAS	S 30 20 38.78 E 150 18 32.76	DLOWH	S 27 54 05.51 E 121 18 21.62	DUGGI	S 36 35 44.67 E 146 26 49.97
DALGI	S 13 01 26.23 E 131 13 10.07	DLOWI	S 27 45 24.36 E 121 07 25.58	DUKES	S 36 04 50.00 E 140 15 02.51
DALLY	S 29 00 00.00 E 145 46 41.42	DLOWM	S 27 52 05.32 E 121 15 50.07	DUKUB	S 12 00 00.01 E 149 19 33.97
DALWU	S 30 14 40.63 E 116 46 43.59	DLQEA	S 35 24 14.19 E 145 08 15.13	DUMAV	S 13 56 26.99 E 135 35 44.60
DAMIN	S 26 56 24.00 E 150 07 00.00	DLQEB	S 35 27 11.95 E 145 14 15.25	DUMPA	S 13 26 52.89 E 134 30 48.95
DANAL	S 27 50 40.43 E 138 42 52.38	DLQEC	S 35 32 50.67 E 145 12 54.20	DUNDA	S 32 42 54.00 E 121 52 00.00
DANKS	S 36 25 56.86 E 142 52 05.23	DLQEF	S 35 31 15.75 E 145 03 03.70	DUNES	S 34 01 36.00 E 151 10 30.00
DANVA	S 33 21 21.50 E 131 30 00.00	DLQEH	S 35 34 30.04 E 144 54 05.66	DUNKN	S 27 39 08.82 E 152 27 42.67
DAOVO	S 02 52 18.00 E 088 35 42.00	DLQEI	S 35 29 13.98 E 145 08 39.62	DUNNE	S 37 54 59.04 E 146 07 14.58
DAPPA	S 25 35 24.00 E 141 30 30.00	DLQEM	S 35 33 17.26 E 144 57 27.51	DUNNI	S 27 28 49.00 E 153 23 21.55
DARLY	S 37 44 13.82 E 144 37 46.06	DLQWD	S 35 42 48.28 E 144 45 18.10	DUTAK	S 29 30 11.62 E 117 32 56.07
DARTS	S 36 40 21.30 E 147 49 57.40	DLQWE	S 35 39 49.19 E 144 39 16.47	DUUKE	S 32 58 58.14 E 150 47 53.18
DAVEY	S 20 24 32.55 E 145 44 58.77	DLQWF	S 35 35 47.55 E 144 50 30.37	DYMON	S 21 32 12.00 E 141 48 24.00
DAVOS	S 36 42 48.21 E 147 54 00.68	DLQWG	S 35 34 11.64 E 144 40 38.94	DYSNA	S 22 28 37.21 E 148 10 18.57
DAYBO	S 27 07 15.34 E 152 53 05.63	DLQWH	S 35 32 33.49 E 144 59 28.68	DYSNC	S 22 23 23.32 E 148 12 53.49
DAYLR	S 32 16 06.16 E 116 33 17.21	DLQWI	S 35 37 48.50 E 144 44 53.56	DYSND	S 22 23 51.13 E 148 19 03.65
DAZZA	S 21 29 54.00 E 121 59 18.00	DLQWM	S 35 33 46.34 E 144 56 06.90	DYSNF	S 22 32 02.74 E 148 18 21.09
DBYEA	S 17 19 46.48 E 123 53 41.89	DMGEA	S 17 58 14.39 E 139 02 22.48	DYSNH	S 22 30 33.38 E 148 27 02.55
DBYEB	S 17 24 55.42 E 123 56 23.05	DMGEB	S 18 03 58.58 E 139 02 54.01	DYSNI	S 22 27 43.06 E 148 15 37.20
DBYEF	S 17 23 27.42 E 123 46 02.31	DMGEC	S 18 06 24.58 E 138 57 26.58	DYSNM	S 22 36 22.38 E 148 21 05.14
DBYEH	S 17 22 16.95 E 123 37 45.79	DMGEF	S 17 58 57.27 E 138 53 48.81	DYTES	S 37 42 30.71 E 145 09 34.94
DBYEI	S 17 24 11.42 E 123 51 12.67	DMGEH	S 17 54 55.91 E 138 46 33.02	EAGLE	S 25 44 40.12 E 151 29 29.53
DBYEM	S 17 22 43.42 E 123 40 51.97	DMGEI	S 18 01 27.98 E 138 58 21.34	EAZEE	S 16 33 23.07 E 145 41 06.07
DBYWD	S 17 22 21.18 E 123 25 45.36	DMGEM	S 17 56 26.45 E 138 49 16.40	EBARR	S 31 00 00.00 E 110 00 00.00
DBYWE	S 17 16 46.74 E 123 24 14.91	DMGWD	S 17 54 10.50 E 138 35 21.76	EBONY	S 36 10 56.52 E 147 04 14.27
DBYWF	S 17 20 17.02 E 123 34 02.61	DMGWE	S 17 48 26.23 E 138 34 51.15	ECATT	S 19 41 24.40 E 140 55 33.09
DBYWG	S 17 13 30.68 E 123 29 11.02	DMGWF	S 17 53 28.44 E 138 43 55.28	ECHND	S 35 57 35.78 E 144 39 33.07
DBYWH	S 17 23 05.19 E 123 41 52.93	DMGWG	S 17 46 00.86 E 138 40 18.34	ECHNE	S 35 54 11.09 E 144 45 13.86
DBYWI	S 17 18 31.88 E 123 29 08.74	DMGWH	S 17 57 29.90 E 138 51 10.96	ECHNF	S 36 04 11.62 E 144 45 33.02
DBYWM	S 17 22 02.16 E 123 38 56.53	DMGWI	S 17 50 57.39 E 138 39 23.15	ECHNG	S 35 57 21.18 E 144 51 07.16
DEBAY	S 27 12 48.66 E 153 10 22.80	DMGWM	S 17 55 59.38 E 138 48 27.54	ECHNH	S 36 12 12.09 E 144 45 48.38
DEBAZ	S 19 17 35.68 E 140 27 40.19	DOCKS	S 37 54 22.71 E 144 51 23.66	ECHNI	S 35 59 11.31 E 144 45 23.44
DEBEE	S 28 05 33.85 E 152 20 50.00	DOGAR	S 02 00 00.00 E 087 50 18.00	ECHNM	S 36 09 11.92 E 144 45 42.60
DEBOS	S 34 11 35.79 E 151 10 36.64	DOLIB	S 20 33 26.81 E 144 25 00.97	ECHSA	S 36 21 55.90 E 144 51 56.12
DECEM	S 16 46 05.40 E 112 12 08.76	DOMOM	S 16 26 12.83 E 115 07 58.21	ECHSB	S 36 25 20.84 E 144 46 13.53
DEENA	S 34 06 24.00 E 151 12 06.00	DONDI	S 19 48 59.14 E 121 20 52.96	ECHSC	S 36 22 10.46 E 144 40 18.40
DEENO	S 21 35 08.54 E 131 12 53.61	DONIC	S 33 22 46.85 E 151 54 28.22	ECHSF	S 36 15 20.34 E 144 45 54.35
DEERS	S 37 48 30.00 E 144 44 36.00	DONNA	S 33 49 21.29 E 155 10 55.56	ECHSH	S 36 07 19.87 E 144 45 38.99
DEJAY	S 28 50 28.52 E 150 53 43.93	DONNO	S 27 39 04.80 E 152 32 51.00	ECHSI	S 36 20 20.63 E 144 46 03.94
DELAK	S 31 51 40.64 E 116 22 52.86	DONOT	S 29 48 06.33 E 137 51 37.84	ECHSM	S 36 10 20.05 E 144 45 44.76
DELRU	S 32 03 36.00 E 116 04 30.00	DONYA	S 11 30 51.62 E 129 54 24.66	ECKHO	S 39 39 28.23 E 150 31 03.90
DENIS	S 27 33 22.55 E 153 08 05.28	DOORA	S 31 54 24.00 E 149 05 19.00	ECKKS	S 35 16 47.56 E 149 11 44.70
DERAK	S 21 21 52.16 E 134 03 23.71	DOPUK	S 18 14 33.52 E 127 25 08.77	EDMON	S 40 00 00.00 E 145 16 42.00
DERAL	S 23 25 23.87 E 134 53 18.65	DOREN	S 37 36 36.01 E 145 08 03.94	EEMUE	S 35 21 18.07 E 137 59 14.47
DERRY	S 33 43 17.08 E 148 02 33.43	DORIC	S 22 33 00.47 E 136 44 41.59	EFFEY	S 20 09 21.25 E 146 40 30.75
DERWY	S 34 58 46.91 E 138 07 15.29	DORIS	S 31 54 03.24 E 116 42 55.34	EGARO	S 29 30 00.00 E 114 00 00.00
DESET	S 24 50 42.00 E 134 46 12.00	DOSAM	S 16 54 10.25 E 133 12 00.30	EGATU	S 12 00 00.00 E 116 05 36.00
DEWEY	S 28 00 00.00 E 154 30 00.00	DOSEL	S 37 09 54.44 E 145 23 43.09	EGAVI	S 18 29 24.00 E 109 02 24.00
DICKI	S 28 16 35.11 E 153 36 01.65	DOTAP	S 20 09 16.84 E 136 43 25.69	EGORE	S 15 21 49.87 E 136 40 06.51
DICKO	S 16 18 09.59 E 130 18 22.89	DOTOD	S 15 14 24.17 E 149 04 11.46	EGZEN	S 27 22 57.59 E 153 00 43.47
DIGER	S 30 03 31.79 E 121 01 38.64	DOTOP	S 32 06 18.00 E 119 04 48.00	EKIDA	S 31 58 36.13 E 156 46 48.63
DIGGA	S 27 52 56.62 E 151 54 34.48	DOTTE	S 18 41 54.00 E 144 52 42.00	EKKAS	S 38 04 42.00 E 145 11 24.00

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
EKKEY	S 32 27 45.55 E 145 17 00.21	EVIEC	S 30 21 20.15 E 141 19 22.41	FOLEY	S 21 53 05.21 E 130 43 19.20
EKOKU	S 16 18 00.00 E 146 53 54.00	EVOKE	S 28 43 00.92 E 142 56 58.49	FONLO	S 43 28 52.06 E 157 46 28.26
EKULA	S 19 32 34.52 E 114 41 04.37	EVONN	S 34 11 42.71 E 152 01 52.30	FORMA	S 20 04 39.06 E 145 25 54.98
ELATI	S 02 00 00.00 E 089 57 42.00	EXETA	S 34 38 25.78 E 150 16 30.69	FORTT	S 24 50 12.00 E 150 20 00.00
ELBIS	S 09 05 18.00 E 127 43 42.00	EXROM	S 39 24 21.27 E 146 05 23.36	FOXLO	S 35 33 08.68 E 149 18 46.70
ELDEA	S 11 58 37.75 E 135 47 44.81	EXXON	S 25 46 36.00 E 143 39 06.00	FOYLE	S 21 41 30.00 E 145 19 30.00
ELDEB	S 12 03 50.70 E 135 50 14.15	EYELA	S 27 15 34.51 E 150 20 06.33	FOZZI	S 14 59 08.90 E 129 38 25.84
ELDEC	S 12 07 55.87 E 135 46 06.48	EYSAW	S 19 23 01.90 E 145 10 43.83	FRANK	S 34 06 01.31 E 151 12 04.16
ELDEF	S 12 02 07.66 E 135 40 10.72	EZDON	S 25 00 00.00 E 120 29 53.73	FRANZ	S 35 48 52.48 E 143 52 32.98
ELDEH	S 12 00 44.97 E 135 32 07.98	FADEN	S 35 27 55.13 E 149 11 39.80	FRAZA	S 33 26 05.21 E 135 52 27.38
ELDEI	S 12 02 59.23 E 135 45 12.46	FAGIN	S 33 53 06.00 E 131 30 00.00	FREDD	S 27 04 12.00 E 145 15 42.00
ELDEM	S 12 01 16.00 E 135 35 09.00	FALEE	S 34 45 49.42 E 138 11 09.31	FREDO	S 33 02 50.40 E 151 50 45.60
ELDWD	S 12 03 34.95 E 135 20 44.11	FALLS	S 35 28 35.27 E 148 53 27.23	FREDY	S 19 23 42.00 E 146 34 06.00
ELDWE	S 11 58 21.71 E 135 18 15.34	FARMA	S 17 48 54.69 E 143 35 12.39	FRILL	S 32 35 36.00 E 120 36 36.00
ELDWF	S 12 00 05.56 E 135 28 18.52	FARRA	S 37 47 41.85 E 146 05 27.61	FRTEA	S 30 46 18.73 E 128 21 39.64
ELDWG	S 11 54 16.94 E 135 22 23.31	FASIE	S 17 19 52.30 E 143 10 52.00	FRTEB	S 30 51 13.23 E 128 25 07.73
ELDWH	S 12 01 28.36 E 135 36 21.22	FAUKS	S 28 24 34.87 E 153 51 36.38	FRTEC	S 30 55 42.70 E 128 20 58.06
ELDWI	S 11 59 13.68 E 135 23 16.88	FBSEB	S 33 24 26.08 E 148 10 57.76	FRTEF	S 30 50 34.87 E 128 13 32.13
ELDWM	S 12 00 57.35 E 135 33 20.20	FBSEC	S 33 27 34.35 E 148 06 56.84	FRTEH	S 30 50 03.43 E 128 04 15.77
ELENI	S 27 42 33.29 E 152 29 44.16	FBSEF	S 33 22 46.14 E 148 01 36.98	FRTEI	S 30 50 54.18 E 128 19 19.91
ELIZA	S 34 43 36.19 E 138 41 47.27	FBSEH	S 33 21 30.72 E 147 54 36.63	FRTEM	S 30 50 15.30 E 128 07 44.39
ELLAS	S 29 00 30.43 E 156 41 39.04	FBSEI	S 33 23 36.20 E 148 06 17.32	FRTND	S 30 37 58.84 E 128 01 14.16
ELLIS	S 29 02 14.33 E 120 00 00.00	FBSEM	S 33 21 55.90 E 147 56 56.72	FRTNE	S 30 34 39.33 E 128 06 39.48
ELLOW	S 24 57 09.54 E 134 36 27.07	FBSWD	S 33 16 27.45 E 147 44 37.31	FRTNF	S 30 44 40.71 E 128 06 43.85
ELONG	S 32 04 06.00 E 148 56 36.00	FBSWE	S 33 19 45.14 E 147 40 48.73	FRTNG	S 30 37 55.29 E 128 12 07.67
EMLED	S 23 25 31.60 E 148 21 53.90	FBSWF	S 33 21 01.81 E 147 50 14.35	FRTNH	S 30 52 41.81 E 128 06 47.35
EMLEE	S 23 28 51.94 E 148 26 58.73	FBSWG	S 33 23 53.66 E 147 43 12.14	FRTNI	S 30 39 40.02 E 128 06 41.66
EMLEF	S 23 32 13.24 E 148 16 43.52	FBSWH	S 33 21 58.85 E 147 57 18.74	FRTNM	S 30 49 41.40 E 128 06 46.04
EMLEG	S 23 34 24.75 E 148 25 18.95	FBSWI	S 33 20 23.56 E 147 45 31.50	FTAND	S 32 27 36.48 E 119 29 45.39
EMLEH	S 23 34 54.22 E 148 08 31.14	FBSWM	S 33 21 39.88 E 147 54 57.26	FTANE	S 32 22 13.34 E 119 32 07.35
EMLEI	S 23 30 32.59 E 148 21 51.16	FDFEA	S 22 20 31.46 E 119 40 09.45	FTANF	S 32 30 28.22 E 119 38 49.97
EMLEM	S 23 33 53.89 E 148 11 35.82	FDFEB	S 22 26 16.77 E 119 40 14.89	FTANG	S 32 22 15.73 E 119 38 53.69
EMLWA	S 23 42 47.43 E 147 59 40.84	FDFEC	S 22 28 19.52 E 119 34 27.62	FTANH	S 32 37 03.85 E 119 44 12.96
EMLWB	S 23 39 26.96 E 147 54 35.58	FDFEF	S 22 20 38.61 E 119 31 19.20	FTANI	S 32 26 20.82 E 119 35 28.51
EMLWC	S 23 33 54.24 E 147 56 15.74	FDFEH	S 22 16 08.18 E 119 24 10.85	FTANM	S 32 34 35.51 E 119 42 11.74
EMLWF	S 23 36 05.94 E 148 04 51.46	FDFEI	S 22 23 27.67 E 119 35 47.02	FTASA	S 32 42 14.08 E 119 55 13.52
EMLWH	S 23 33 25.06 E 148 13 03.95	FDFEM	S 22 17 49.61 E 119 26 51.44	FTASB	S 32 47 37.64 E 119 52 52.41
EMLWI	S 23 37 46.45 E 147 59 43.55	PDFWD	S 22 14 25.86 E 119 12 27.78	FTASC	S 32 47 36.01 E 119 46 04.16
EMLWM	S 23 34 25.43 E 148 09 59.30	PDFWE	S 22 08 40.57 E 119 12 22.33	FTASF	S 32 39 23.54 E 119 46 07.23
EMPR	S 35 00 19.86 E 138 26 55.40	PDFWF	S 22 14 18.57 E 119 21 17.38	FTASH	S 32 32 47.99 E 119 40 43.96
EMUZE	S 37 31 36.11 E 144 48 37.92	PDFWG	S 22 06 37.59 E 119 18 08.71	FTASI	S 32 43 30.64 E 119 49 29.66
EMVAS	S 11 28 12.00 E 100 29 42.00	PDFWH	S 22 18 49.05 E 119 28 25.61	FTASM	S 32 35 16.34 E 119 42 45.09
ENAI	S 27 22 56.49 E 153 37 32.26	PDFWI	S 22 11 29.54 E 119 16 49.83	FTZND	S 17 57 47.18 E 125 32 45.71
ENDOR	S 35 17 11.81 E 149 20 48.73	PDFWM	S 22 17 07.64 E 119 25 44.98	FTZNE	S 17 56 02.89 E 125 38 29.87
ENNGG	S 34 49 06.00 E 138 49 54.00	FECTI	S 18 28 03.31 E 116 54 13.18	FTZNF	S 18 05 37.64 E 125 35 21.36
ENPIT	S 23 21 58.96 E 126 29 18.33	FEEGS	S 12 30 15.96 E 131 08 52.31	FTZNG	S 18 00 36.67 E 125 42 10.11
ENTAL	S 28 28 41.93 E 119 06 33.40	FELLS	S 12 14 33.89 E 131 05 52.36	FTZNH	S 18 13 17.42 E 125 32 50.41
ENTRA	S 33 34 59.28 E 151 41 48.51	FERGI	S 14 12 49.00 E 132 19 19.00	FTZNI	S 18 00 50.27 E 125 36 55.63
ENTRE	S 31 32 02.82 E 130 56 56.76	FIKUL	S 28 23 42.00 E 153 39 12.00	FTZNM	S 18 10 25.01 E 125 33 47.04
EPGUP	S 10 39 01.97 E 099 33 05.58	FILET	S 33 32 54.00 E 128 00 00.00	FTZSA	S 18 24 14.27 E 125 34 25.20
ERINA	S 30 56 46.06 E 134 45 00.00	FILIP	S 37 52 02.54 E 144 52 30.15	FTZSB	S 18 25 58.62 E 125 28 40.15
ERITH	S 34 11 55.21 E 138 26 38.48	FILLY	S 13 57 50.06 E 131 13 27.26	FTZSC	S 18 21 24.72 E 125 24 59.56
ERNIE	S 12 39 50.14 E 130 16 13.85	FINNS	S 34 58 08.31 E 138 18 10.35	FTZSF	S 18 16 23.92 E 125 31 49.12
ESKAY	S 28 17 58.96 E 153 37 17.07	FIONA	S 27 21 11.09 E 152 59 51.58	FTZSH	S 18 08 44.15 E 125 34 20.15
ESKEL	S 36 31 24.71 E 163 00 00.00	FISHA	S 33 54 36.00 E 151 22 36.00	FTZSI	S 18 21 11.27 E 125 30 14.66
ESPED	S 33 40 54.43 E 122 04 58.34	FISHY	S 17 41 05.08 E 145 48 09.81	FTZSM	S 18 11 36.57 E 125 33 23.54
ESPEE	S 33 46 28.00 E 122 06 38.95	FLAKE	S 33 10 54.00 E 125 00 00.00	FULTN	S 24 03 00.41 E 133 54 09.82
ESPEF	S 33 42 54.06 E 121 55 26.89	FLANO	S 12 21 11.84 E 131 34 58.29	FYSTI	S 27 22 36.00 E 153 15 48.00
ESPEG	S 33 49 42.07 E 122 00 56.96	FLATS	S 18 58 06.00 E 140 49 48.00	GAANY	S 30 26 20.20 E 137 17 56.31
ESPEH	S 33 40 01.54 E 121 46 29.91	FLATY	S 25 24 49.56 E 154 53 10.56	GAFER	S 22 17 50.53 E 136 38 07.44
ESPEI	S 33 44 41.56 E 122 01 02.80	FLEET	S 31 54 33.39 E 115 25 20.27	GALAH	S 35 04 54.00 E 142 06 42.00
ESPEM	S 33 41 06.31 E 121 49 51.20	FLEMO	S 20 06 04.98 E 146 52 18.69	GALLI	S 31 50 52.47 E 115 51 05.26
ESPWA	S 33 40 54.59 E 121 33 32.10	FLIKI	S 40 00 00.00 E 146 23 36.00	GALON	S 30 38 04.72 E 154 32 00.37
ESPWB	S 33 35 19.56 E 121 31 52.59	FLIPA	S 11 50 24.83 E 129 03 33.54	GAMBL	S 28 52 28.48 E 153 02 52.69
ESPWC	S 33 32 07.15 E 121 37 33.69	FLIWA	S 40 14 48.34 E 147 47 11.26	GANEE	S 28 54 30.00 E 152 37 30.00
ESPWF	S 33 38 55.51 E 121 43 03.10	FLIWB	S 40 11 43.60 E 147 40 51.24	GARTH	S 26 59 53.60 E 152 45 29.54
ESPWH	S 33 41 47.55 E 121 52 00.19	FLIWC	S 40 06 07.78 E 147 42 27.52	GASSO	S 20 00 00.00 E 151 20 24.00
ESPWI	S 33 37 07.66 E 121 37 27.73	FLIWF	S 40 07 53.01 E 147 52 53.86	GATER	S 28 26 55.37 E 155 41 04.03
ESPWM	S 33 40 43.11 E 121 48 38.71	FLIWH	S 40 10 04.43 E 147 56 27.06	GATOR	S 12 27 43.00 E 131 45 25.00
ESTER	S 27 41 52.33 E 153 34 24.71	FLIWI	S 40 09 48.46 E 147 46 52.72	GAULI	S 27 29 24.00 E 153 04 06.00
ETHER	S 24 45 24.54 E 144 33 01.47	FLIWM	S 40 05 57.25 E 147 58 54.66	GAVAS	S 32 20 00.00 E 146 59 36.00
EURAD	S 27 37 33.76 E 114 35 32.24	FLORA	S 28 47 12.00 E 138 18 42.00	GAYED	S 25 27 02.67 E 151 48 32.52
EVANS	S 19 30 21.74 E 146 48 58.39	FLYNN	S 27 31 09.23 E 152 56 28.16	GAYEE	S 25 29 56.44 E 151 54 01.12
EVFRS	S 16 54 58.00 E 145 46 55.00	FOKER	S 31 09 54.60 E 115 55 41.40	GAYEF	S 25 34 08.51 E 151 43 58.76

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
GAYEG	S 25 35 36.18 E 151 52 53.69	GLBNI	S 34 41 34.10 E 149 52 52.84	GTEWA	S 14 01 00.45 E 136 14 03.76
GAYEH	S 25 37 29.66 E 151 35 56.36	GLBNM	S 34 48 19.58 E 149 43 55.38	GTEWB	S 13 55 49.18 E 136 11 29.48
GAYEI	S 25 32 02.56 E 151 49 00.03	GLBSA	S 35 00 02.93 E 149 35 40.80	GTEWC	S 13 51 41.37 E 136 15 35.88
GAYEM	S 25 36 14.28 E 151 38 57.31	GLBSB	S 34 58 29.68 E 149 28 57.08	GTEWF	S 13 57 25.28 E 136 21 38.57
GAYLA	S 26 55 38.59 E 152 52 11.72	GLBSC	S 34 52 46.33 E 149 28 25.82	GTEWH	S 13 58 41.85 E 136 29 45.95
GAZEL	S 33 14 47.62 E 150 40 18.81	GLBSF	S 34 52 09.11 E 149 38 21.80	GTEWI	S 13 56 37.28 E 136 16 34.01
GDHWA	S 30 54 24.86 E 149 59 17.87	GLBSH	S 34 52 54.37 E 149 45 04.36	GTEWM	S 13 58 13.17 E 136 26 43.17
GDHWB	S 30 48 39.82 E 149 59 02.61	GLBSI	S 34 55 19.49 E 149 33 39.62	GTHEA	S 34 07 16.80 E 146 17 14.02
GDHWC	S 30 46 29.56 E 150 05 12.12	GLBSM	S 34 48 58.55 E 149 43 03.61	GTHEB	S 34 11 01.24 E 146 22 28.90
GDHWF	S 30 54 05.71 E 150 08 48.44	GLENN	S 27 34 30.00 E 153 01 12.00	GTHEC	S 34 16 24.00 E 146 20 02.95
GDHWH	S 31 04 15.45 E 150 08 24.66	GLINA	S 29 30 03.35 E 151 30 58.20	GTHEF	S 34 13 30.44 E 146 10 47.97
GDHWI	S 30 51 22.86 E 150 03 55.38	GLINC	S 29 25 17.63 E 151 34 39.46	GTHEH	S 34 15 29.01 E 146 01 26.68
GDHWM	S 30 56 48.38 E 150 13 41.77	GLIND	S 29 26 41.56 E 151 41 01.58	GTHEI	S 34 12 15.97 E 146 16 38.57
GDINA	S 28 19 00.46 E 150 24 38.30	GLINF	S 29 34 39.59 E 151 38 44.62	GTHEM	S 34 14 44.63 E 146 04 57.21
GDINC	S 28 19 42.83 E 150 31 05.00	GLINH	S 29 42 09.06 E 151 42 01.29	GTHWD	S 34 24 36.17 E 145 52 21.26
GDIND	S 28 25 19.33 E 150 32 32.65	GLINI	S 29 29 58.63 E 151 29 18.95	GTHWE	S 34 21 39.12 E 145 46 24.41
GDINF	S 28 27 09.66 E 150 23 29.51	GLINM	S 29 39 20.52 E 151 40 47.48	GTHWF	S 34 17 33.31 E 145 57 25.62
GDINH	S 28 33 06.82 E 150 17 24.34	GLOBE	S 34 47 48.42 E 138 33 54.85	GTHWG	S 34 16 00.61 E 145 47 43.03
GDINI	S 28 23 26.30 E 150 27 17.39	GLTED	S 23 51 55.59 E 151 27 41.81	GTHWH	S 34 14 15.92 E 146 06 13.91
GDINM	S 28 30 52.92 E 150 19 41.36	GLTEE	S 23 57 29.12 E 151 29 18.95	GTHWI	S 34 19 36.36 E 145 51 55.10
GEDEN	S 37 43 12.00 E 145 00 54.00	GLTEF	S 23 54 02.85 E 151 19 03.72	GTHWM	S 34 15 30.02 E 146 02 55.88
GEESE	S 24 03 34.33 E 151 00 23.11	GLTEG	S 24 00 47.05 E 151 24 11.04	GUDUG	S 07 04 36.00 E 075 00 00.00
GEKKO	S 21 12 09.32 E 131 50 23.55	GLTEH	S 23 55 26.69 E 151 06 08.37	GUGAB	S 29 41 06.83 E 139 49 59.24
GELNA	S 28 34 21.35 E 114 42 03.95	GLTEI	S 23 55 46.07 E 151 24 11.27	GUGUK	S 14 56 28.54 E 138 52 36.03
GELNC	S 28 32 48.37 E 114 48 20.32	GLTEM	S 23 52 19.45 E 151 13 56.30	GUKON	S 22 56 21.33 E 121 30 54.42
GELND	S 28 37 28.68 E 114 52 08.28	GLTWA	S 23 48 34.06 E 150 55 59.30	GULFF	S 14 22 00.00 E 140 00 00.00
GELNF	S 28 42 15.94 E 114 44 34.32	GLTWB	S 23 42 49.97 E 150 55 28.11	GULFS	S 34 51 11.14 E 138 08 08.25
GELNH	S 28 49 49.91 E 114 41 33.03	GLTWC	S 23 40 25.22 E 151 01 08.52	GULLY	S 34 47 26.48 E 138 45 38.76
GELNI	S 28 37 32.17 E 114 46 27.40	GLTWF	S 23 47 52.79 E 151 04 53.35	GULOP	S 15 49 12.40 E 141 55 22.40
GELNM	S 28 46 59.68 E 114 42 41.06	GLTWH	S 23 53 10.13 E 151 14 47.64	GULUM	S 23 13 12.64 E 128 27 48.80
GELSE	S 29 01 09.20 E 114 42 58.63	GLTWI	S 23 45 21.45 E 151 00 10.64	GUNAM	S 14 42 02.45 E 125 12 12.66
GELSF	S 28 53 16.98 E 114 40 18.54	GLTWM	S 23 51 39.52 E 151 11 57.76	GUNGN	S 31 58 12.68 E 116 07 58.97
GELSG	S 29 02 47.70 E 114 36 42.38	GLYDE	S 12 18 32.09 E 131 10 22.39	GUNTA	S 33 12 12.06 E 151 28 18.77
GELSH	S 28 45 40.32 E 114 43 11.00	GOANA	S 32 26 29.78 E 154 09 23.46	GUPOX	S 16 44 53.70 E 080 00 00.00
GELSI	S 28 58 02.36 E 114 38 30.54	GODIP	S 12 00 12.00 E 144 07 42.00	GURAK	S 30 51 53.74 E 115 38 55.20
GELSJ	S 28 58 10.52 E 114 32 48.64	GOKEN	S 30 11 51.05 E 140 57 58.80	GUTEV	S 08 04 23.76 E 131 19 35.76
GELSM	S 28 48 31.58 E 114 42 06.38	GOLDY	S 19 50 40.08 E 146 42 13.04	GUTTA	S 27 10 43.78 E 153 07 43.37
GEMAC	S 38 13 25.78 E 150 19 30.49	GOLOM	S 32 44 33.60 E 152 07 21.00	GUVNA	S 23 02 00.13 E 118 41 24.85
GEORG	S 35 03 39.89 E 149 30 11.57	GOMAP	S 22 42 29.04 E 129 20 28.46	GUXIB	S 23 38 08.57 E 159 30 48.08
GEPEC	S 27 46 11.59 E 152 32 28.89	GOOFY	S 28 52 12.87 E 153 49 39.44	HAAKE	S 34 54 45.02 E 138 20 12.54
GERBL	S 27 34 29.59 E 152 25 38.35	GOOMA	S 33 09 38.50 E 155 02 58.17	HACHI	S 28 13 17.50 E 149 23 14.95
GEROS	S 35 01 05.49 E 154 59 54.63	GOONY	S 35 03 52.65 E 149 12 24.74	HAIGH	S 31 47 59.91 E 116 00 21.02
GETON	S 35 03 58.17 E 138 44 37.63	GOOTA	S 22 01 37.96 E 118 19 18.72	HAKIT	S 16 46 34.10 E 145 46 04.00
GFNNA	S 29 32 26.42 E 152 57 48.48	GORDO	S 18 21 45.05 E 121 56 57.50	HALAS	S 33 50 52.52 E 151 15 44.45
GFNNC	S 29 29 35.13 E 153 03 30.93	GORDO	S 32 32 44.85 E 154 55 03.23	HALEM	S 26 07 53.98 E 117 32 23.37
GFNND	S 29 33 17.74 E 153 08 32.22	GORGN	S 20 43 35.40 E 116 38 41.42	HALIT	S 32 37 42.00 E 118 47 48.00
GFNNF	S 29 39 34.12 E 153 02 28.39	GORKA	S 26 12 42.20 E 132 52 07.65	HALON	S 24 00 00.00 E 152 52 18.00
GFNNH	S 29 52 07.55 E 152 59 50.24	GORTN	S 35 09 19.45 E 149 12 21.42	HAMEL	S 26 50 28.36 E 114 10 47.94
GFNNI	S 29 34 34.63 E 153 02 59.68	GOSAM	S 19 35 56.80 E 146 42 55.60	HAMER	S 24 09 18.00 E 143 28 12.00
GFNNM	S 29 44 33.61 E 153 01 57.04	GOSNL	S 32 04 20.91 E 116 05 10.21	HAMTN	S 32 21 50.00 E 117 39 22.20
GIBBO	S 36 40 00.00 E 147 51 00.00	GOVER	S 33 54 35.55 E 152 38 36.33	HANCH	S 34 42 22.00 E 138 20 30.00
GIBIL	S 35 33 50.57 E 149 12 42.60	GPTSA	S 11 36 19.38 E 130 20 47.05	HANKY	S 15 08 36.00 E 138 20 42.00
GIBLI	S 21 15 39.57 E 136 34 07.44	GPTSB	S 11 35 38.75 E 130 14 58.78	HANNA	S 12 54 10.81 E 129 37 58.34
GIDDY	S 37 49 22.70 E 144 51 05.89	GPTSC	S 11 30 02.17 E 130 13 38.48	HAPPI	S 34 57 49.45 E 148 01 34.66
GILES	S 35 00 17.67 E 137 47 52.06	GPTSF	S 11 28 09.01 E 130 21 45.80	HARDD	S 27 46 11.76 E 152 48 21.74
GILLY	S 40 22 40.84 E 156 46 44.97	GPTSH	S 11 22 09.13 E 130 27 11.17	HARMN	S 32 10 12.00 E 115 53 54.00
GILUM	S 11 36 36.00 E 139 00 48.00	GPTSI	S 11 31 53.98 E 130 18 22.34	HARPO	S 21 00 25.94 E 148 46 42.68
GINGA	S 35 35 42.98 E 148 43 08.01	GPTSM	S 11 24 24.10 E 130 25 09.18	HARRO	S 37 46 58.05 E 145 16 46.71
GIPPS	S 37 42 36.00 E 148 05 06.00	GRABL	S 32 20 13.61 E 118 36 21.32	HARVS	S 25 42 59.94 E 156 04 00.54
GITSM	S 20 41 26.55 E 116 54 28.65	GRACY	S 37 20 50.16 E 141 34 43.26	HAWKE	S 26 28 48.93 E 151 55 41.64
GIVEN	S 12 25 25.52 E 130 38 43.19	GRAEM	S 27 18 55.96 E 153 10 05.13	HAWKY	S 34 34 27.74 E 137 51 11.00
GIZMO	S 32 17 09.96 E 149 04 12.46	GRAZE	S 20 08 05.50 E 118 03 11.40	HAYCO	S 32 08 24.00 E 115 42 06.00
GLAWA	S 23 47 54.36 E 150 57 57.93	GREAV	S 28 19 00.13 E 153 38 11.03	HAYES	S 37 33 06.00 E 145 14 12.00
GLAWB	S 23 44 23.15 E 150 59 35.31	GREGA	S 17 00 20.19 E 132 45 27.99	HAYND	S 34 20 59.31 E 144 59 50.44
GLAWC	S 23 41 32.81 E 151 02 22.27	GRENE	S 31 53 26.74 E 116 56 10.47	HAYNE	S 34 23 16.68 E 145 06 11.69
GLAWF	S 23 47 37.37 E 151 05 06.18	GROVA	S 28 17 06.00 E 153 55 00.00	HAYNF	S 34 28 30.70 E 144 55 53.33
GLAWH	S 23 54 52.52 E 151 19 28.49	GRUNT	S 28 17 05.07 E 153 45 17.54	HAYNG	S 34 29 00.71 E 145 05 46.66
GLAWI	S 23 45 27.88 E 151 01 25.59	GTEED	S 13 55 40.38 E 136 40 58.17	HAYNH	S 34 32 41.30 E 144 47 37.67
GLAWM	S 23 51 40.24 E 151 11 59.91	GTEEE	S 14 00 51.13 E 136 43 32.71	HAYNI	S 34 25 53.78 E 145 01 02.71
GLBND	S 34 36 56.39 E 149 50 33.91	GTEEF	S 13 59 15.92 E 136 33 23.32	HAYNM	S 34 31 07.39 E 144 50 43.63
GLBNE	S 34 38 11.11 E 149 57 21.02	GTEEG	S 14 04 59.47 E 136 39 26.20	HAYSA	S 34 44 10.52 E 144 43 32.29
GLBNF	S 34 44 56.93 E 149 48 24.30	GTEEH	S 13 57 59.45 E 136 25 15.91	HAYSB	S 34 43 18.31 E 144 36 39.70
GLBNG	S 34 43 52.88 E 149 58 15.62	GTEEI	S 14 00 03.58 E 136 38 28.00	HAYSC	S 34 37 40.38 E 144 35 18.27
GLBNH	S 34 50 21.10 E 149 41 13.86	GTEEM	S 13 58 28.16 E 136 28 18.68	HAYSF	S 34 36 03.89 E 144 45 02.03

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
HAYSH	S 34 30 59.38 E 144 50 52.85	HISWI	S 10 36 06.35 E 142 06 45.71	HSMEF	S 36 40 05.94 E 142 17 41.11
HAYSI	S 34 39 41.21 E 144 40 51.02	HISWM	S 10 35 12.02 E 142 16 52.47	HSMEH	S 36 40 08.59 E 142 07 44.32
HAYSM	S 34 32 26.42 E 144 49 12.69	HITCH	S 33 42 36.00 E 125 00 00.00	HSMEI	S 36 40 03.87 E 142 23 54.08
HAZOS	S 30 23 46.77 E 137 40 43.40	HLCNA	S 18 01 24.14 E 127 45 56.59	HSMEM	S 36 40 07.69 E 142 11 28.12
HBAEA	S 25 21 04.19 E 153 07 26.17	HLCNC	S 18 02 16.90 E 127 51 53.34	HSMWD	S 36 44 53.06 E 141 55 21.84
HBAEB	S 25 26 47.30 E 153 08 08.82	HLCND	S 18 07 55.96 E 127 53 03.72	HSMWE	S 36 40 11.11 E 141 51 15.63
HBAEC	S 25 29 21.00 E 153 02 28.26	HLCNF	S 18 09 31.86 E 127 44 37.57	HSMWF	S 36 40 09.41 E 142 03 41.57
HBAEF	S 25 21 59.31 E 152 58 26.76	HLCNH	S 18 15 19.63 E 127 38 48.52	HSMWG	S 36 35 28.39 E 141 55 20.15
HBAEH	S 25 16 41.74 E 152 47 47.31	HLCNI	S 18 05 54.42 E 127 48 15.53	HSMWH	S 36 33 20.25 E 142 11 21.16
HBAEI	S 25 24 23.41 E 153 03 17.73	HLCNM	S 18 13 09.24 E 127 40 59.46	HSMWI	S 36 40 10.42 E 141 57 28.55
HBAEM	S 25 19 35.05 E 152 53 35.99	HLCSE	S 18 26 23.94 E 127 34 31.67	HSMWM	S 36 40 08.07 E 142 09 54.57
HBAWD	S 25 17 25.71 E 152 38 28.08	HLCSF	S 18 18 16.46 E 127 35 50.88	HUGEA	S 20 52 40.89 E 144 27 03.30
HBAWE	S 25 11 42.54 E 152 37 46.76	HLCSG	S 18 25 30.84 E 127 28 33.82	HUGEB	S 20 58 25.90 E 144 26 45.78
HBAWF	S 25 16 31.74 E 152 47 27.09	HLCSH	S 18 12 28.76 E 127 41 40.09	HUGEC	S 21 00 08.33 E 144 20 54.54
HBAWG	S 25 09 09.76 E 152 43 28.95	HLCSI	S 18 21 53.69 E 127 32 12.42	HUGEFE	S 20 52 17.16 E 144 18 19.05
HBAWH	S 25 20 22.64 E 152 55 11.90	HLCSJ	S 18 19 52.02 E 127 27 23.90	HUGEH	S 20 47 21.86 E 144 11 34.17
HBAWI	S 25 14 07.22 E 152 42 36.83	HLCSM	S 18 14 39.17 E 127 39 29.18	HUGEI	S 20 55 21.58 E 144 22 32.33
HBAWM	S 25 18 56.10 E 152 52 17.53	HMLNA	S 37 26 28.73 E 141 57 50.16	HUGEM	S 20 49 12.63 E 144 14 05.95
HCBQA	S 18 02 07.68 E 152 53 12.78	HMLNC	S 37 23 11.64 E 142 03 44.49	HUMES	S 37 34 04.72 E 144 56 07.44
HCQNC	S 18 03 00.36 E 127 51 09.73	HMLND	S 37 26 29.52 E 142 09 38.12	HUMOK	S 31 19 12.00 E 147 28 00.00
HCQND	S 18 08 39.24 E 127 52 20.21	HMLNF	S 37 33 12.36 E 142 03 43.43	HURTT	S 12 15 54.31 E 130 41 58.70
HCQNF	S 18 10 15.33 E 127 43 53.94	HMLNH	S 37 41 12.92 E 142 03 42.58	HUSKY	S 34 29 42.00 E 131 30 00.00
HCQNH	S 18 16 03.10 E 127 38 04.87	HMLNI	S 37 28 12.00 E 142 03 43.96	HYDRA	S 34 46 18.00 E 135 00 00.00
HCQNI	S 18 06 37.88 E 127 47 31.91	HMLNM	S 37 38 12.71 E 142 03 42.90	IBABI	S 33 37 51.13 E 141 00 51.22
HCQNM	S 18 13 52.71 E 127 40 15.82	HMLSE	S 37 51 14.35 E 142 09 37.47	IBUNA	S 27 03 27.77 E 152 28 31.83
HCQSE	S 18 26 12.28 E 127 34 43.27	HMLSF	S 37 44 31.04 E 142 03 42.23	IDANU	S 26 40 57.70 E 135 43 46.23
HCQSF	S 18 18 04.72 E 127 36 02.66	HMLSG	S 37 54 31.72 E 142 03 41.17	IDELU	S 11 35 45.39 E 136 21 48.06
HCQSG	S 18 25 19.10 E 127 28 45.61	HMLSH	S 37 36 30.48 E 142 03 43.08	IDEVI	S 06 13 00.00 E 083 18 54.00
HCQSH	S 18 12 17.02 E 127 41 51.87	HMLSI	S 37 49 31.38 E 142 03 41.70	IDODA	S 29 26 46.37 E 145 02 14.81
HCQSI	S 18 21 41.94 E 127 32 24.21	HMLSJ	S 37 51 13.56 E 141 57 45.57	IDOKU	S 18 15 32.73 E 111 06 50.75
HCQSJ	S 18 19 40.09 E 127 27 35.78	HMLSM	S 37 39 30.69 E 142 03 42.76	IDOTO	S 11 31 05.96 E 126 38 48.41
HCQSM	S 18 14 27.43 E 127 39 40.96	HOBAY	S 37 59 36.00 E 144 51 42.00	IDUNA	S 21 38 11.00 E 149 46 22.00
HEALE	S 13 08 48.00 E 140 00 00.00	HOBBO	S 12 00 00.01 E 153 09 32.68	IDUSO	S 29 01 11.19 E 137 18 42.29
HECTO	S 33 00 18.00 E 120 30 54.00	HOBBS	S 33 48 18.49 E 139 42 09.19	IFFEY	S 31 57 33.59 E 154 21 30.65
HELEN	S 12 38 17.59 E 131 33 06.28	HODDA	S 13 16 04.39 E 131 57 55.61	IFLEA	S 17 41 05.89 E 146 13 21.83
HELIX	S 40 00 00.10 E 146 51 36.52	HOGAN	S 33 53 22.12 E 149 34 52.05	IFLEB	S 17 46 38.00 E 146 11 42.33
HELLI	S 13 14 34.55 E 129 49 37.00	HOGES	S 16 41 18.62 E 145 39 48.57	IFLEC	S 17 47 01.87 E 146 05 42.53
HELNA	S 31 56 45.96 E 116 23 41.06	HOKOR	S 13 37 18.00 E 138 00 00.00	IFLEF	S 17 38 49.58 E 146 05 07.12
HENDO	S 17 13 14.84 E 145 54 15.99	HOLIS	S 26 51 12.47 E 153 10 38.18	IFLEH	S 17 25 12.20 E 146 03 10.48
HERMA	S 24 00 45.69 E 132 48 48.45	HOLIT	S 34 27 56.88 E 138 21 22.68	IFLEI	S 17 42 43.82 E 146 08 24.65
HERNE	S 31 49 48.51 E 116 03 41.84	HOLLA	S 34 07 00.00 E 128 00 00.00	IFLEM	S 17 34 55.28 E 146 01 49.72
HERON	S 16 32 48.00 E 144 26 36.00	HONEY	S 35 35 55.29 E 149 03 45.11	IFULP	S 37 49 09.21 E 144 48 09.30
HEWEY	S 27 20 00.01 E 154 00 00.00	HONGI	S 21 29 57.25 E 131 21 23.66	IGMEA	S 18 29 54.41 E 146 15 24.55
HEWIT	S 42 30 00.58 E 150 55 28.63	HOODY	S 34 24 54.00 E 119 34 36.00	IGMEB	S 18 31 28.08 E 146 22 40.09
HICKY	S 12 36 45.62 E 130 56 03.09	HOOKM	S 28 05 13.11 E 153 32 24.70	IGMEC	S 18 37 13.20 E 146 22 23.12
HIDWA	S 10 40 23.25 E 142 04 54.08	HOOKS	S 34 21 01.18 E 151 07 58.04	IGMEF	S 18 36 49.88 E 146 13 46.17
HIDWB	S 10 35 47.62 E 142 01 22.89	HOOLI	S 21 56 51.73 E 118 07 43.91	IGMEH	S 18 42 23.62 E 146 10 13.76
HIDWC	S 10 30 57.26 E 142 04 32.29	HOORN	S 20 50 51.58 E 116 32 50.27	IGMEI	S 18 34 09.03 E 146 18 13.20
HIDWF	S 10 35 24.95 E 142 11 31.69	HOOWA	S 18 22 20.68 E 130 24 47.10	IGMEM	S 18 39 30.62 E 146 09 19.00
HIDWI	S 10 35 36.33 E 142 06 27.29	HOOWB	S 18 17 05.00 E 130 22 20.04	IGOPO	S 11 56 39.77 E 134 07 05.82
HIDWM	S 10 35 13.49 E 142 16 36.09	HOOWC	S 18 13 05.04 E 130 26 40.21	IKASA	S 19 59 59.99 E 103 29 09.59
HIDWT	S 10 35 06.58 E 142 19 38.72	HOOWF	S 18 18 59.89 E 130 32 39.10	IKODA	S 16 37 24.00 E 157 26 54.00
HIINE	S 28 49 56.08 E 134 22 23.94	HOOWH	S 18 20 31.39 E 130 40 54.51	IKONO	S 30 49 41.28 E 137 39 15.31
HILAR	S 31 38 42.84 E 148 29 09.50	HOOWI	S 18 18 02.52 E 130 27 29.54	IKUMA	S 10 25 48.00 E 127 08 06.00
HILLS	S 37 43 21.50 E 145 15 09.15	HOOWM	S 18 19 57.12 E 130 37 48.71	IMATI	S 27 29 19.74 E 152 23 34.47
HILRY	S 31 49 33.14 E 115 46 57.62	HOPLA	S 37 39 11.81 E 144 41 43.17	IMBND	S 32 53 15.86 E 136 33 01.71
HILSA	S 27 49 22.49 E 127 34 08.16	HORSE	S 23 12 48.75 E 115 29 12.80	IMBNE	S 32 53 46.86 E 136 39 48.77
HIMOD	S 34 48 20.67 E 138 40 59.91	HORSH	S 37 43 35.71 E 144 50 55.22	IMBNF	S 33 01 26.30 E 136 32 08.85
HINDS	S 30 47 41.61 E 116 32 16.49	HORUS	S 37 26 41.75 E 145 09 44.55	IMBNG	S 32 59 20.12 E 136 41 33.80
HINDY	S 36 10 00.44 E 142 05 06.95	HOTEA	S 37 06 32.01 E 147 37 39.02	IMBNH	S 33 07 33.51 E 136 25 59.96
HIPPO	S 35 27 54.86 E 149 23 06.80	HOTEB	S 37 12 16.00 E 147 37 51.09	IMBNI	S 32 57 36.64 E 136 35 58.98
HIRST	S 34 54 37.72 E 138 56 52.38	HOTEC	S 37 14 22.87 E 147 31 09.87	IMBNM	S 33 05 15.84 E 136 28 18.39
HISED	S 10 29 21.84 E 142 29 02.40	HOTEF	S 37 06 45.37 E 147 27 24.40	IMBSA	S 33 17 54.77 E 136 22 54.28
HISEE	S 10 33 45.80 E 142 32 48.04	HOTEH	S 37 12 43.74 E 147 21 30.51	IMBSB	S 33 17 22.85 E 136 16 05.46
HISEF	S 10 34 40.64 E 142 22 41.36	HOTEI	S 37 09 30.80 E 147 32 37.55	IMBSC	S 33 11 49.26 E 136 14 21.69
HISEG	S 10 38 45.90 E 142 29 54.53	HOTEM	S 37 03 59.71 E 147 22 11.62	IMBSF	S 33 09 44.42 E 136 23 48.16
HISEH	S 10 35 24.28 E 142 14 35.98	HOTTA	S 22 29 36.00 E 142 58 12.00	IMBSH	S 33 03 37.33 E 136 29 57.36
HISEI	S 10 34 13.26 E 142 27 44.71	HOUND	S 16 03 48.00 E 131 42 12.00	IMBSI	S 33 13 33.69 E 136 19 56.98
HISEM	S 10 35 07.93 E 142 17 38.00	HOVEA	S 31 52 42.05 E 116 04 54.23	IMBSM	S 33 05 55.02 E 136 27 39.01
HISWA	S 10 40 57.67 E 142 05 27.64	HOWID	S 35 01 37.56 E 138 14 33.51	INCON	S 12 35 03.03 E 131 01 03.09
HISWB	S 10 36 33.40 E 142 01 42.30	HOWLY	S 34 46 00.00 E 147 36 36.00	INDEE	S 28 04 43.00 E 153 30 58.00
HISWC	S 10 31 33.55 E 142 04 36.24	HSMEA	S 36 35 20.75 E 142 25 58.91	INGMA	S 36 06 02.91 E 160 01 46.37
HISWF	S 10 35 39.23 E 142 11 49.10	HSMEB	S 36 40 01.47 E 142 30 06.94	INOKE	S 32 02 00.44 E 151 19 29.16
HISWH	S 10 34 55.66 E 142 19 54.49	HSMEC	S 36 44 45.34 E 142 26 04.35	IRONS	S 41 46 24.00 E 146 27 42.00

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
IRWIN	S 29 21 18.95 E 115 06 45.63	JIRRA	S 23 43 14.51 E 134 08 36.00	KEBAB	S 33 16 20.95 E 154 29 33.62
ISAAK	S 22 22 54.00 E 148 40 30.00	JLCED	S 20 39 14.41 E 141 57 10.80	KEDDY	S 34 34 33.51 E 149 27 34.04
ISKIM	S 29 30 56.72 E 151 39 46.96	JLCEE	S 20 44 42.82 E 141 59 03.62	KEEFO	S 34 58 00.92 E 138 16 49.86
ISLAV	S 32 51 37.67 E 132 20 47.56	JLCEF	S 20 41 45.94 E 141 48 51.77	KEELA	S 37 44 30.00 E 144 47 18.00
ISMOR	S 28 30 10.70 E 131 11 48.77	JLCEG	S 20 48 15.18 E 141 54 13.62	KEELS	S 31 28 36.66 E 113 22 44.27
ISNIB	S 26 27 24.57 E 115 40 33.87	JLCEH	S 20 39 24.01 E 141 40 42.58	KEEWI	S 16 45 48.00 E 145 56 00.00
ISPID	S 14 10 51.40 E 151 10 40.29	JLCEI	S 20 43 14.46 E 141 53 57.65	KEGAN	S 28 01 09.93 E 153 35 17.38
ISRAN	S 11 43 02.42 E 106 33 07.77	JLCEM	S 20 40 17.28 E 141 43 46.00	KELAN	S 37 57 03.00 E 147 24 24.00
ISTEM	S 24 35 51.18 E 160 23 00.08	JLCWA	S 20 40 56.40 E 141 29 02.24	KELLA	S 31 32 55.07 E 117 39 21.93
ITCHY	S 15 06 45.21 E 122 32 49.26	JLCWB	S 20 35 27.28 E 141 27 09.98	KELLY	S 35 41 49.48 E 148 51 15.15
ITIDE	S 26 44 06.52 E 153 29 23.68	JLCWC	S 20 31 55.69 E 141 31 59.52	KELPI	S 22 34 10.23 E 151 35 11.61
ITORT	S 19 18 06.56 E 146 07 36.09	JLCWF	S 20 38 25.41 E 141 37 20.99	KELTA	S 34 59 42.83 E 138 19 49.38
ITSMA	S 17 49 25.12 E 132 16 05.68	JLCWH	S 20 40 47.48 E 141 45 30.09	KELVN	S 13 09 24.00 E 136 37 42.00
ITTSA	S 12 36 32.52 E 131 11 58.71	JLCWI	S 20 36 56.42 E 141 32 15.44	KENDL	S 30 45 19.14 E 134 06 36.72
IVLSA	S 30 05 09.89 E 151 16 56.70	JLCWM	S 20 39 54.25 E 141 42 26.65	KENET	S 31 55 22.73 E 115 28 12.96
IVLSB	S 30 09 19.87 E 151 12 23.37	JODEX	S 31 47 13.72 E 150 16 13.57	KEPPA	S 36 47 47.70 E 143 58 32.95
IVLSC	S 30 07 01.77 E 151 06 19.57	JOKER	S 31 25 00.00 E 151 51 48.00	KERIN	S 16 12 36.00 E 141 17 42.00
IVLSF	S 29 59 30.36 E 151 10 06.30	JOLLY	S 23 00 00.00 E 110 00 00.00	KERMI	S 19 37 47.53 E 147 14 16.98
IVLSH	S 29 51 38.72 E 151 08 16.96	JOOVI	S 30 39 48.00 E 150 17 18.00	KERRI	S 28 09 10.62 E 153 37 17.99
IVLSI	S 30 04 25.12 E 151 11 14.78	JORDN	S 29 38 47.67 E 140 01 25.09	KERRS	S 36 47 18.06 E 138 52 51.58
IVLSM	S 29 54 35.59 E 151 08 57.93	JORDY	S 32 23 32.92 E 154 41 12.44	KETCH	S 31 49 27.17 E 115 39 54.66
IVPEM	S 32 31 36.00 E 128 00 00.00	JOSBU	S 33 08 12.60 E 116 40 24.20	KETEN	S 25 04 17.32 E 152 01 27.99
JAAPI	S 28 18 32.23 E 153 35 53.35	JOSHU	S 13 45 43.11 E 130 56 22.39	KEVIN	S 34 08 11.50 E 151 22 16.80
JABAL	S 21 56 29.10 E 115 34 30.69	JOSSO	S 38 15 54.00 E 147 06 30.00	KEXIM	S 22 24 48.90 E 129 50 21.41
JABBA	S 12 09 10.91 E 130 31 31.01	JUBOB	S 12 31 05.40 E 131 06 56.40	KIIEA	S 39 53 27.33 E 144 09 56.01
JABEA	S 12 35 47.55 E 133 06 39.99	JUDIE	S 15 00 06.00 E 140 00 00.00	KIIEB	S 39 59 05.87 E 144 11 18.28
JABEB	S 12 40 45.81 E 133 09 37.76	JUGGL	S 20 55 02.63 E 125 39 28.24	KIIEC	S 40 02 01.02 E 144 04 52.63
JABEC	S 12 45 11.86 E 133 05 53.14	JULES	S 15 09 30.76 E 130 46 33.46	KIIEF	S 39 54 57.23 E 143 59 28.11
JABEF	S 12 39 56.82 E 132 59 26.17	JULIA	S 34 14 56.99 E 151 19 31.44	KIIEH	S 39 51 37.45 E 143 50 01.00
JABEH	S 12 39 17.35 E 132 51 16.93	JULIE	S 11 47 45.71 E 129 42 13.21	KIIEI	S 39 57 01.70 E 144 05 23.01
JABEI	S 12 40 21.37 E 133 04 31.99	JULIM	S 31 24 58.60 E 116 17 38.36	KIIEM	S 39 52 52.46 E 143 53 33.56
JABEM	S 12 39 32.17 E 132 54 20.39	JULUP	S 13 33 12.83 E 130 10 25.54	KIKEM	S 09 52 54.00 E 126 07 24.00
JABWD	S 12 43 07.00 E 132 40 08.18	JUMPA	S 35 05 58.32 E 159 11 41.15	KILEL	S 23 09 30.00 E 116 46 24.00
JABWE	S 12 38 08.50 E 132 37 11.02	JUNWA	S 26 31 29.71 E 120 21 25.59	KIMMI	S 14 38 49.66 E 144 30 08.86
JABWF	S 12 38 58.32 E 132 47 22.32	JUNWB	S 26 27 12.33 E 120 17 09.42	KINGS	S 12 38 06.84 E 130 46 09.46
JABWG	S 12 33 42.92 E 132 40 55.94	JUNWC	S 26 22 08.34 E 120 20 10.10	KINTO	S 30 36 49.00 E 120 54 31.91
JABWH	S 12 34 24.22 E 132 52 53.11	JUNWF	S 26 26 00.75 E 120 28 13.14	KIPPA	S 20 04 40.87 E 143 13 41.65
JABWI	S 12 38 33.45 E 132 42 16.62	JUNWH	S 26 24 51.94 E 120 38 43.46	KIRAN	S 19 28 30.00 E 146 48 06.00
JABWM	S 12 39 23.10 E 132 52 28.06	JUNWI	S 26 26 36.65 E 120 22 41.31	KIRST	S 30 47 49.20 E 140 36 39.05
JACKA	S 38 46 12.00 E 145 15 48.00	JUNWM	S 26 25 24.63 E 120 33 44.91	KITTY	S 12 29 44.98 E 130 51 33.26
JACKI	S 12 08 45.07 E 129 34 25.87	JUSTY	S 37 56 02.02 E 144 34 22.06	KLAVA	S 34 11 45.05 E 138 30 26.33
JACKO	S 30 52 11.76 E 130 00 00.00	KABEK	S 33 23 18.61 E 139 24 39.55	KMPND	S 30 53 14.61 E 152 54 29.23
JACKS	S 32 40 21.64 E 143 51 39.43	KABTA	S 05 54 30.00 E 079 00 00.00	KMPNE	S 30 55 08.57 E 153 00 46.89
JADEL	S 37 33 48.00 E 144 57 06.00	KACEY	S 35 26 37.19 E 146 53 32.05	KMPNF	S 31 00 59.66 E 152 51 20.07
JAFFA	S 31 22 30.00 E 151 41 36.00	KADAP	S 02 00 00.00 E 084 09 36.00	KMPNG	S 31 00 53.51 E 153 00 52.12
JAKLN	S 34 08 49.02 E 151 22 24.13	KADEM	S 17 48 54.00 E 075 00 00.00	KMPNH	S 31 09 56.50 E 152 50 15.94
JAKNA	S 27 26 44.23 E 142 17 50.92	KADUN	S 22 21 00.40 E 121 51 06.48	KMPNI	S 30 58 04.18 E 152 56 03.66
JAKNC	S 27 23 01.83 E 142 22 46.67	KADUV	S 32 01 35.57 E 145 19 05.06	KMPNM	S 31 03 54.97 E 152 46 36.20
JAKND	S 27 25 53.53 E 142 28 22.06	KALAM	S 31 57 42.00 E 116 09 12.00	KNGEA	S 33 32 33.20 E 117 50 32.76
JAKNF	S 27 33 01.08 E 142 23 47.08	KALBI	S 08 52 18.00 E 075 00 00.00	KNGEB	S 33 35 27.76 E 117 56 27.94
JAKNH	S 27 41 00.47 E 142 24 35.54	KALSA	S 23 26 38.89 E 119 08 42.74	KNGEC	S 33 41 06.89 E 117 55 13.57
JAKNI	S 27 28 01.46 E 142 23 16.85	KALUG	S 25 54 00.00 E 136 43 30.00	KNGEF	S 33 39 37.62 E 117 45 34.40
JAKNM	S 27 38 00.70 E 142 24 17.35	KAMBA	S 33 29 41.19 E 151 25 57.28	KNGEH	S 33 42 56.81 E 117 36 50.81
JAMBO	S 32 51 35.63 E 124 00 00.00	KAMPI	S 34 09 42.00 E 151 13 12.00	KNGEI	S 33 37 32.81 E 117 51 01.30
JAMMO	S 37 16 39.29 E 150 47 16.49	KAMUN	S 03 30 18.00 E 080 53 30.00	KNGEM	S 33 41 42.19 E 117 40 07.24
JAMOR	S 35 33 54.65 E 142 47 16.51	KANBU	S 23 10 48.00 E 149 29 00.00	KNOBL	S 34 55 46.84 E 138 33 33.13
JANDO	S 32 05 30.37 E 115 55 15.07	KANGA	S 31 31 34.16 E 156 43 30.14	KNOPL	S 28 35 10.21 E 123 57 16.92
JANNA	S 27 44 30.51 E 116 26 01.04	KANGI	S 31 44 43.09 E 117 10 17.47	KOALA	S 31 30 02.03 E 154 59 16.70
JANUS	S 12 51 06.28 E 132 11 53.99	KANGO	S 37 41 48.00 E 145 15 30.00	KONDA	S 16 37 51.39 E 144 54 21.70
JARJA	S 32 56 39.70 E 151 30 23.71	KAPSO	S 12 00 00.00 E 146 43 00.00	KONDO	S 33 09 48.00 E 140 27 06.00
JATAR	S 16 26 39.40 E 125 28 21.44	KARAB	S 31 33 18.57 E 116 52 42.29	KONIL	S 29 59 34.09 E 118 12 33.60
JAYBE	S 27 12 26.41 E 117 30 50.10	KARAG	S 29 00 00.00 E 144 35 41.86	KOOKA	S 15 42 49.77 E 143 25 34.07
JAYBI	S 37 38 27.70 E 144 32 02.88	KAREN	S 42 05 15.14 E 147 39 52.58	KOOLI	S 12 24 11.36 E 131 06 39.04
JAYDE	S 29 04 28.09 E 153 14 55.44	KARKA	S 13 05 26.71 E 130 51 02.84	KORIT	S 37 40 34.51 E 144 37 59.01
JEANI	S 30 47 18.00 E 147 54 30.00	KARRA	S 12 35 06.09 E 132 15 33.62	KOSSY	S 25 50 51.00 E 122 40 54.00
JEDDA	S 27 09 25.61 E 151 57 10.26	KARSI	S 13 57 17.98 E 132 50 12.20	KOTIN	S 29 34 51.73 E 146 57 05.46
JELLI	S 33 53 37.82 E 151 22 42.83	KASPA	S 25 48 46.70 E 152 32 09.55	KOUPA	S 27 20 02.00 E 153 14 21.00
JEMMA	S 19 49 10.56 E 147 11 30.37	KATAR	S 26 23 39.30 E 129 04 24.78	KOUTA	S 37 27 54.00 E 145 10 54.00
JENIF	S 37 38 42.00 E 145 15 36.00	KATCM	S 31 09 17.74 E 117 27 09.50	KOWED	S 15 31 13.58 E 141 58 40.05
JENTL	S 33 48 39.89 E 151 09 17.56	KATEB	S 27 16 00.51 E 153 47 30.33	KOWEE	S 15 36 57.80 E 141 59 11.91
JESSE	S 12 13 44.43 E 130 15 15.13	KATHI	S 32 59 26.14 E 119 34 10.43	KOWEF	S 15 31 57.52 E 141 50 12.99
JEWEL	S 37 56 34.20 E 147 05 28.80	KATIA	S 35 29 48.29 E 149 11 40.92	KOWEG	S 15 39 24.49 E 141 53 48.98
JEZZA	S 27 22 06.00 E 153 06 28.00	KAYTU	S 38 54 04.08 E 143 00 00.03	KOWEH	S 15 28 19.72 E 141 42 50.79
JILGO	S 25 00 00.00 E 119 10 55.57	KEATS	S 35 32 36.28 E 148 52 47.23	KOWEI	S 15 34 27.71 E 141 54 42.40

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
KOWEM	S 15 29 27.25 E 141 45 43.69	LEEAM	S 23 52 34.40 E 154 15 02.35	LISSK	S 29 03 00.41 E 153 24 14.92
KOWWA	S 15 27 01.45 E 141 31 38.42	LEEFL	S 25 45 43.00 E 153 09 09.00	LISSL	S 29 02 40.80 E 153 19 01.53
KOWWB	S 15 21 17.16 E 141 31 07.34	LEESA	S 22 08 01.49 E 130 18 29.63	LISSM	S 28 50 57.70 E 153 16 02.65
KOWWC	S 15 18 51.02 E 141 36 30.06	LELED	S 11 16 36.00 E 075 00 00.00	LISZT	S 23 39 58.35 E 133 38 34.69
KOWWF	S 15 26 18.22 E 141 40 05.34	LEMIB	S 26 00 47.70 E 161 49 40.65	LITEL	S 18 34 30.00 E 138 00 30.00
KOWWH	S 15 30 18.80 E 141 47 16.04	LENIS	S 27 15 28.34 E 126 49 28.67	LITER	S 22 34 18.00 E 152 18 50.00
KOWWI	S 15 23 47.74 E 141 35 36.28	LENNY	S 32 00 24.26 E 115 47 47.51	LIZZI	S 37 27 02.22 E 145 38 16.81
KOWWM	S 15 28 48.61 E 141 44 34.50	LEONA	S 28 40 01.76 E 121 22 58.84	LLAMA	S 31 17 36.00 E 147 50 06.00
KROPP	S 33 44 52.75 E 151 08 09.98	LEONC	S 28 40 12.08 E 121 29 29.96	LLEND	S 27 10 45.26 E 141 54 18.61
KROWS	S 36 49 54.00 E 137 15 42.00	LEOND	S 28 45 39.58 E 121 31 32.97	LLENE	S 27 11 12.98 E 142 00 43.00
KRYNA	S 26 22 43.27 E 151 42 27.91	LEONF	S 28 48 14.32 E 121 22 41.95	LLENF	S 27 18 56.69 E 141 53 34.00
KRYNC	S 26 18 35.46 E 151 46 54.58	LEONH	S 28 54 39.87 E 121 17 14.80	LLENG	S 27 16 45.90 E 142 02 25.74
KRYND	S 26 20 56.27 E 151 52 44.30	LEONI	S 28 44 13.25 E 121 26 06.08	LLENH	S 27 26 17.09 E 141 53 36.13
KRYNF	S 26 28 26.36 E 151 49 01.04	LEONM	S 28 52 15.31 E 121 19 17.55	LLENI	S 27 15 04.88 E 141 57 08.63
KRYNH	S 26 36 19.04 E 151 50 42.47	LEPAR	S 39 14 12.44 E 159 27 37.35	LLENM	S 27 22 48.40 E 141 49 59.13
KRYNI	S 26 23 30.91 E 151 47 57.77	LESON	S 35 03 12.00 E 131 30 00.00	LLESA	S 27 37 20.66 E 141 43 20.24
KRYNM	S 26 33 21.79 E 151 50 04.41	LEWIS	S 34 45 23.92 E 136 42 59.77	LLESB	S 27 36 52.51 E 141 36 53.83
KSCNA	S 35 29 40.56 E 137 31 40.46	LEYOX	S 34 15 18.11 E 144 05 17.75	LLESC	S 27 31 19.86 E 141 35 11.77
KSCNC	S 35 28 18.57 E 137 38 29.76	LHIED	S 31 32 56.80 E 159 19 34.14	LLESF	S 27 29 09.60 E 141 44 05.03
KSCND	S 35 33 04.94 E 137 42 24.36	LHIEE	S 31 38 35.71 E 159 20 48.87	LLESH	S 27 27 50.71 E 141 52 15.56
KSCNF	S 35 37 38.71 E 137 34 03.55	LHIEF	S 31 34 27.98 E 159 10 08.66	LLESI	S 27 33 01.10 E 141 40 29.56
KSCNH	S 35 45 06.70 E 137 30 29.83	LHIEG	S 31 41 31.63 E 159 15 02.02	LLESM	S 27 25 18.00 E 141 47 40.26
KSCNI	S 35 32 58.66 E 137 36 16.78	LHIEH	S 31 30 44.86 E 159 00 32.96	LLOYD	S 37 46 34.41 E 144 30 41.62
KSCNM	S 35 42 18.72 E 137 31 50.05	LHIEI	S 31 36 31.85 E 159 15 28.71	LOAFA	S 25 02 04.70 E 152 06 38.56
KUNDA	S 38 33 38.85 E 145 29 48.06	LHIEM	S 31 32 24.12 E 159 04 48.74	LOCKA	S 16 01 24.80 E 145 36 28.63
KURLA	S 34 20 39.30 E 140 15 15.94	LHIWA	S 31 37 49.71 E 158 46 38.29	LODEN	S 22 06 12.00 E 144 15 12.00
KURRT	S 38 54 18.00 E 150 24 56.00	LHIWB	S 31 29 19.77 E 158 45 55.23	LODGE	S 34 39 00.00 E 128 00 00.00
KVALM	S 19 20 25.90 E 146 43 16.26	LHIWC	S 31 22 24.80 E 158 50 00.47	LOFFA	S 27 49 00.00 E 150 11 18.00
KYEMA	S 32 08 41.66 E 116 37 30.00	LHIWF	S 31 30 58.23 E 158 57 27.95	LOGAN	S 27 36 00.00 E 153 07 00.00
LABOR	S 28 28 14.46 E 142 28 36.06	LHIWH	S 31 31 29.68 E 159 06 43.88	LOGOL	S 21 10 25.44 E 116 44 04.88
LACEY	S 37 33 04.94 E 145 30 13.28	LHIWI	S 31 30 09.00 E 158 51 41.76	LOKYA	S 27 24 03.50 E 153 13 32.20
LAGIT	S 14 38 54.00 E 118 23 00.00	LHIWM	S 31 31 47.46 E 159 03 14.19	LOLLS	S 36 14 04.34 E 141 00 00.00
LAKED	S 16 13 46.23 E 145 09 43.47	LHREA	S 12 51 06.76 E 143 32 25.58	LOLLY	S 40 08 42.81 E 150 35 06.17
LAKES	S 35 34 47.67 E 139 01 04.08	LHREB	S 12 56 52.20 E 143 32 26.57	LONER	S 24 42 48.00 E 150 23 12.00
LAKMO	S 29 49 14.79 E 117 38 18.22	LHREC	S 12 58 51.34 E 143 26 55.95	LONLY	S 35 11 12.00 E 135 00 00.00
LAMAX	S 37 27 06.00 E 145 24 42.00	LHREF	S 12 51 08.08 E 143 24 02.71	LOOKY	S 13 57 57.36 E 133 29 51.53
LAMEK	S 18 09 16.63 E 150 02 35.46	LHREH	S 12 45 58.14 E 143 17 29.99	LORNE	S 25 32 30.00 E 147 09 48.00
LAMOB	S 12 00 00.00 E 108 53 00.00	LHREI	S 12 54 00.20 E 143 28 14.63	LOUEY	S 29 05 00.00 E 154 00 00.00
LAMSI	S 28 26 28.00 E 154 11 37.55	LHREM	S 12 48 15.87 E 143 19 50.88	LOUIE	S 13 57 33.43 E 130 46 39.27
LANGU	S 36 40 54.00 E 142 28 54.00	LHRWD	S 12 43 00.69 E 143 03 46.79	LOVEY	S 36 58 30.00 E 144 32 12.00
LANOL	S 33 36 33.48 E 151 11 59.48	LHRWE	S 12 37 15.01 E 143 03 46.44	LOVMA	S 04 49 09.69 E 075 53 22.82
LANOP	S 27 18 53.32 E 126 53 56.34	LHRWF	S 12 43 00.07 E 143 12 09.66	LOWDI	S 33 31 24.00 E 149 36 48.00
LANYO	S 35 30 17.04 E 149 01 12.35	LHRWG	S 12 35 16.40 E 143 09 17.03	LOWEP	S 33 04 07.62 E 151 13 46.64
LARAB	S 12 04 03.63 E 129 11 33.39	LHRWH	S 12 48 44.86 E 143 20 33.25	LRENC	S 23 16 10.10 E 144 21 51.62
LARDO	S 12 30 45.72 E 131 10 26.98	LHRWI	S 12 40 07.58 E 143 07 58.00	LREND	S 23 17 05.41 E 144 26 44.58
LAROO	S 31 16 42.00 E 139 52 42.00	LHRWM	S 12 47 01.45 E 143 18 02.13	LRENE	S 23 21 38.64 E 144 27 28.63
LAROS	S 29 28 51.09 E 154 39 41.72	LIDIT	S 09 18 00.00 E 142 20 00.00	LRENF	S 23 22 36.72 E 144 20 26.07
LATEP	S 06 10 18.00 E 075 00 00.00	LIFFY	S 41 39 00.00 E 146 44 18.00	LRENH	S 23 27 26.52 E 144 14 54.55
LATOM	S 23 14 47.19 E 137 02 55.57	LILEE	S 27 36 55.57 E 153 06 41.83	LRENI	S 23 19 51.03 E 144 23 35.32
LATOX	S 13 26 55.62 E 109 23 15.96	LILLY	S 15 20 03.50 E 116 21 53.12	LRENM	S 23 25 22.35 E 144 17 16.68
LATTA	S 38 07 36.00 E 145 04 18.00	LILNA	S 37 29 47.70 E 145 17 48.90	LRESA	S 23 27 14.02 E 144 03 06.96
LATUV	S 20 03 18.11 E 121 40 22.09	LILNC	S 37 25 58.60 E 145 23 11.70	LRESF	S 23 28 53.65 E 144 11 55.90
LAVER	S 37 49 11.78 E 144 43 41.99	LILNF	S 37 35 55.20 E 145 24 39.90	LRESH	S 23 25 13.81 E 144 18 25.61
LAWNN	S 27 17 24.00 E 152 58 24.00	LILNH	S 37 44 27.00 E 145 14 33.20	LRESI	S 23 30 59.23 E 144 08 13.12
LAWRA	S 28 16 43.45 E 115 00 00.00	LILNI	S 37 30 56.90 E 145 23 55.80	LRESM	S 23 26 48.07 E 144 15 38.62
LAWRY	S 27 00 39.99 E 150 21 50.05	LILNM	S 37 40 31.00 E 145 22 10.60	LSTEA	S 27 48 14.32 E 120 57 01.70
LAWSO	S 18 59 36.00 E 132 23 58.00	LILNT	S 37 46 02.00 E 145 19 11.10	LSTEB	S 27 53 27.56 E 120 59 44.62
LAXAR	S 14 47 42.46 E 116 19 13.17	LINBO	S 19 15 06.00 E 147 27 18.00	LSTEC	S 27 57 30.73 E 120 55 08.96
LAYUP	S 30 39 41.10 E 147 44 41.16	LINDO	S 28 24 13.84 E 124 09 35.53	LSTEF	S 27 51 40.79 E 120 48 38.31
LEAKY	S 27 16 03.00 E 153 20 22.00	LIPPS	S 26 29 35.08 E 138 51 28.29	LSTEH	S 27 50 14.73 E 120 39 45.52
LECEA	S 30 39 14.75 E 138 41 25.75	LIRRI	S 27 19 38.85 E 120 00 59.79	LSTEI	S 27 52 34.29 E 120 54 11.42
LECEB	S 30 44 59.63 E 138 41 33.45	LISHA	S 34 10 12.99 E 151 14 45.33	LSTEM	S 27 50 47.07 E 120 43 05.28
LECEC	S 30 47 03.69 E 138 35 20.73	LISND	S 28 40 11.57 E 153 05 05.49	LSTWD	S 27 53 01.96 E 120 27 27.54
LECEF	S 30 39 24.08 E 138 31 55.90	LISNE	S 28 35 19.49 E 153 08 33.89	LSTWE	S 27 47 48.09 E 120 24 46.18
LECEH	S 30 32 41.97 E 138 26 04.50	LISNF	S 28 44 33.99 E 153 12 58.82	LSTWF	S 27 49 36.78 E 120 35 51.70
LECEI	S 30 42 11.86 E 138 36 44.60	LISNG	S 28 36 32.07 E 153 14 56.16	LSTWG	S 27 43 45.92 E 120 29 22.56
LECEM	S 30 36 36.30 E 138 27 07.33	LISNH	S 28 45 56.80 E 153 20 43.41	LSTWH	S 27 51 03.08 E 120 44 44.39
LECWD	S 30 28 44.66 E 138 09 45.68	LISNI	S 28 39 56.72 E 153 10 46.24	LSTWI	S 27 48 42.54 E 120 30 18.89
LECWF	S 30 23 06.02 E 138 11 01.52	LISNM	S 28 49 11.22 E 153 15 11.60	LSTWM	S 27 50 30.79 E 120 41 24.61
LECWF	S 30 30 18.35 E 138 19 04.04	LISSA	S 27 32 49.94 E 153 09 27.49	LTNEA	S 28 28 04.42 E 122 37 11.99
LECWG	S 30 22 11.76 E 138 17 34.42	LISSF	S 28 56 07.50 E 153 19 33.39	LTNEB	S 28 31 20.30 E 122 42 33.55
LECWH	S 30 37 30.64 E 138 27 07.18	LISSH	S 28 43 28.18 E 153 24 58.57	LTNEC	S 28 36 54.26 E 122 40 55.20
LECWI	S 30 26 42.19 E 138 15 02.71	LISSI	S 28 59 33.97 E 153 21 54.08	LTNEF	S 28 34 49.91 E 122 31 54.91
LECWM	S 30 35 21.01 E 138 24 42.12	LISSJ	S 28 58 48.21 E 153 26 22.85	LTNEH	S 28 37 36.99 E 122 23 23.49



WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
LTNEI	S 28 33 05.31 E 122 37 14.32	MASHA	S 15 45 30.60 E 143 24 11.71	MEMIG	S 14 22 18.06 E 145 20 20.45
LTNEM	S 28 36 34.40 E 122 26 35.33	MASON	S 13 07 38.34 E 133 21 44.44	MEMOS	S 14 59 03.03 E 144 00 32.17
LTVED	S 37 57 21.46 E 146 35 53.60	MASTS	S 31 45 38.42 E 114 54 18.69	MEMUP	S 33 45 11.61 E 120 52 30.24
LTVEE	S 37 58 46.23 E 146 45 53.40	MATTI	S 26 45 27.19 E 153 08 40.60	MENEA	S 37 37 47.94 E 145 09 02.09
LTVEF	S 38 07 57.37 E 146 34 13.82	MAVER	S 13 11 02.81 E 131 26 03.41	MENEB	S 37 43 19.82 E 145 13 00.58
LTVEG	S 38 06 41.32 E 146 47 38.68	MAXAL	S 37 26 53.57 E 145 25 01.68	MENEC	S 37 48 09.21 E 145 09 05.04
LTVEH	S 38 14 18.82 E 146 26 08.50	MAXEM	S 34 38 05.94 E 142 33 20.56	MENEF	S 37 43 40.41 E 145 01 10.72
LTVEI	S 38 03 43.01 E 146 39 36.90	MAXXI	S 12 30 26.51 E 126 13 27.11	MENEH	S 37 48 18.74 E 144 59 46.02
LTVEM	S 38 12 11.73 E 146 28 50.43	MAYEA	S 35 56 04.23 E 147 13 33.29	MENEM	S 37 43 50.89 E 144 54 52.79
LTVWA	S 38 25 01.09 E 146 20 17.16	MAYEB	S 35 59 51.00 E 147 18 52.54	MENNE	S 37 31 03.55 E 144 59 22.49
LTVWB	S 38 23 42.57 E 146 14 08.78	MAYEC	S 36 05 12.46 E 147 16 19.55	MENNF	S 37 37 57.19 E 144 53 47.61
LTVWC	S 38 18 03.10 E 146 12 54.28	MAYEF	S 36 02 14.84 E 147 06 54.43	MENNG	S 37 27 56.90 E 144 53 19.00
LTVWF	S 38 16 39.08 E 146 23 09.56	MAYEH	S 36 05 08.36 E 146 55 08.40	MENNH	S 37 45 17.00 E 144 56 25.34
LTVWH	S 38 11 00.20 E 146 30 21.45	MAYEI	S 36 01 02.92 E 147 12 53.53	MENNI	S 37 32 57.05 E 144 53 33.29
LTVWI	S 38 20 10.83 E 146 18 39.28	MAYEM	S 36 03 55.61 E 146 58 31.56	MENNM	S 37 42 57.33 E 144 54 01.96
LTVWM	S 38 13 07.33 E 146 27 39.62	MAYOP	S 34 16 09.58 E 154 09 56.81	MENZI	S 35 31 48.58 E 149 11 39.92
LUCAS	S 26 41 28.02 E 153 41 22.15	MAYSO	S 27 41 29.00 E 152 57 37.00	MEPAB	S 21 22 49.73 E 163 00 00.00
LUCRE	S 34 13 18.00 E 125 00 00.00	MBAWA	S 17 04 30.59 E 145 11 36.81	MERIB	S 30 04 00.00 E 112 45 06.00
LUKEY	S 27 35 00.93 E 151 39 36.71	MBAWB	S 16 58 57.63 E 145 10 00.76	MERME	S 21 17 44.49 E 112 15 20.42
LUMIJ	S 37 47 21.94 E 144 51 02.62	MBAWC	S 16 55 36.88 E 145 14 53.00	MERNA	S 36 41 08.73 E 149 59 43.32
LUNAR	S 32 47 49.20 E 151 49 59.40	MBAWF	S 17 02 18.55 E 145 19 51.06	MERNC	S 36 41 32.43 E 150 06 49.77
LUNGA	S 35 08 35.09 E 138 26 16.20	MBAWH	S 17 04 59.24 E 145 27 43.44	MERND	S 36 47 03.85 E 150 08 48.61
LUVLY	S 28 08 45.07 E 153 29 39.12	MBAWI	S 17 00 38.09 E 145 14 55.89	MERNF	S 36 49 19.92 E 149 59 00.77
LYNCH	S 37 29 41.17 E 144 52 14.37	MBAWM	S 17 03 59.01 E 145 24 46.27	MERNH	S 36 56 00.00 E 150 00 00.00
LYNDN	S 23 30 00.00 E 115 10 57.53	MCLOY	S 20 55 31.77 E 116 40 08.84	MERNI	S 36 45 26.24 E 150 02 55.47
LYNSO	S 24 48 54.89 E 115 00 00.00	MCNAB	S 20 52 44.38 E 116 41 32.34	MERNM	S 36 53 13.46 E 149 55 05.68
LYSMO	S 33 10 07.82 E 145 45 26.64	MCONA	S 37 22 59.07 E 149 40 23.67	MERSE	S 37 09 03.95 E 149 49 12.24
MACEL	S 42 59 15.82 E 147 43 13.03	MCONC	S 37 20 38.42 E 149 46 57.61	MERSF	S 37 00 52.38 E 149 48 50.83
MACKA	S 30 34 54.00 E 151 45 36.00	MCOND	S 37 24 45.68 E 149 51 58.50	MERSG	S 37 09 15.77 E 149 42 01.57
MACLA	S 30 10 21.43 E 143 07 25.23	MCONF	S 37 30 28.37 E 149 44 35.61	MERSH	S 36 52 28.59 E 149 55 38.59
MADDY	S 13 52 04.32 E 120 04 46.21	MCONH	S 37 33 05.18 E 149 49 52.73	MERSI	S 37 05 04.13 E 149 45 26.39
MADOG	S 23 49 35.03 E 116 22 43.68	MCONI	S 37 25 33.40 E 149 45 46.69	MERSJ	S 37 03 56.42 E 149 39 21.16
MAFWA	S 36 58 33.74 E 145 50 44.51	MCONM	S 37 35 23.32 E 149 43 24.37	MERSM	S 36 54 59.77 E 149 53 36.42
MAFWB	S 36 55 06.89 E 145 50 53.86	MCOSE	S 37 48 51.86 E 149 46 10.64	MESEE	S 38 03 07.64 E 147 25 07.28
MAFWC	S 36 54 03.26 E 145 54 58.52	MCOSF	S 37 41 22.86 E 149 41 57.33	MESEF	S 38 06 44.39 E 147 15 48.16
MAFWF	S 36 59 56.67 E 145 58 51.65	MCOSG	S 37 51 12.68 E 149 39 34.02	MESEG	S 38 08 16.87 E 147 28 19.47
MAFWI	S 36 56 55.62 E 145 53 52.91	MCOSH	S 37 37 25.43 E 149 49 21.81	MESEH	S 38 05 39.56 E 147 07 02.41
MAFWM	S 37 02 21.36 E 146 02 50.93	MCOSI	S 37 46 17.78 E 149 40 45.76	MESEI	S 38 07 30.63 E 147 22 03.78
MAGDA	S 34 22 30.47 E 155 09 50.08	MCOSJ	S 37 47 05.16 E 149 34 32.09	MESEJ	S 38 12 25.32 E 147 23 17.12
MAGGS	S 40 52 03.10 E 146 34 02.92	MCOSM	S 37 36 27.93 E 149 43 08.75	MESEM	S 38 05 58.15 E 147 09 32.60
MAGGY	S 19 11 19.78 E 146 55 44.22	MDGEA	S 32 20 37.66 E 149 43 54.90	MESER	S 33 44 04.78 E 137 27 15.34
MAGOO	S 34 19 48.75 E 140 10 56.12	MDGEB	S 32 21 25.96 E 149 50 37.15	MESNA	S 37 54 42.65 E 147 18 24.02
MAGPI	S 25 08 52.42 E 151 53 15.72	MDGEC	S 32 27 03.29 E 149 52 01.56	MESNC	S 37 56 33.95 E 147 25 15.67
MAGRA	S 22 25 35.46 E 149 22 27.84	MDGEF	S 32 28 45.25 E 149 42 33.22	MESND	S 38 02 18.40 E 147 25 24.70
MAIDS	S 28 08 31.38 E 153 33 36.89	MDGEH	S 32 30 20.14 E 149 29 31.25	MESNF	S 38 02 28.39 E 147 15 02.89
MAITE	S 37 38 50.13 E 145 15 42.74	MDGEI	S 32 25 05.67 E 149 46 35.35	MESNH	S 38 07 11.83 E 147 06 51.97
MAJAR	S 33 49 38.45 E 151 17 22.96	MDGEM	S 32 33 08.57 E 149 37 42.23	MESNI	S 37 59 31.17 E 147 20 09.38
MAJOR	S 35 13 14.34 E 148 55 59.47	MEAND	S 27 24 38.44 E 153 06 48.77	MESNM	S 38 05 25.61 E 147 09 56.19
MAKEE	S 33 00 43.54 E 136 50 42.64	MEBAH	S 30 13 24.00 E 135 33 00.00	MESWF	S 38 04 55.10 E 147 01 06.25
MAKKA	S 34 25 51.06 E 149 20 05.47	MECKI	S 31 39 58.79 E 117 05 11.09	MESWH	S 38 06 09.77 E 147 11 06.90
MAKOM	S 29 00 00.00 E 144 03 51.65	MEDOW	S 35 09 23.09 E 138 45 18.34	MESWI	S 38 04 07.92 E 146 54 51.04
MAKRL	S 38 29 52.18 E 148 25 27.99	MEECE	S 33 37 36.00 E 139 38 06.00	MESWM	S 38 05 41.95 E 147 07 21.60
MALBI	S 14 29 59.18 E 108 27 03.81	MEEGA	S 33 43 58.14 E 149 33 10.08	MESWO	S 38 08 31.57 E 146 51 49.00
MALLY	S 31 46 52.70 E 125 00 00.00	MEENA	S 28 15 44.33 E 119 28 13.12	MESWP	S 38 03 20.41 E 146 48 35.96
MAMAL	S 09 37 46.49 E 126 26 59.52	MEETA	S 28 07 09.93 E 153 32 31.79	MESWQ	S 37 59 13.03 E 146 53 39.09
MANDA	S 35 17 34.66 E 148 35 06.44	MEHAN	S 31 56 30.00 E 151 09 48.00	METAB	S 15 01 28.02 E 111 23 05.08
MANDO	S 23 28 12.00 E 149 25 42.00	MEKAD	S 13 23 50.15 E 152 42 01.77	METHL	S 19 58 55.00 E 135 52 00.00
MANDU	S 32 31 24.42 E 115 46 30.17	MEKEA	S 26 30 40.13 E 118 46 15.01	METUM	S 14 08 13.28 E 115 08 31.78
MANFA	S 34 02 34.11 E 151 20 45.74	MEKEB	S 26 35 03.67 E 118 50 22.84	MGBEA	S 12 06 56.56 E 135 07 01.95
MANIG	S 30 51 16.07 E 117 09 55.87	MEKEC	S 26 40 03.26 E 118 47 12.14	MGBEB	S 12 12 38.25 E 135 07 55.85
MANLI	S 27 27 48.00 E 153 11 55.00	MEKEF	S 26 35 58.18 E 118 39 16.25	MGBEC	S 12 15 24.94 E 135 02 47.90
MANNA	S 32 27 18.00 E 143 56 36.00	MEKEH	S 26 36 41.16 E 118 30 22.86	MGBEF	S 12 08 12.25 E 134 58 45.95
MANTL	S 32 01 00.00 E 115 44 48.00	MEKEI	S 26 35 31.03 E 118 44 49.57	MGBEH	S 12 04 39.22 E 134 51 26.19
MARGO	S 34 24 50.01 E 138 02 19.19	MEKEM	S 26 36 25.11 E 118 33 42.90	MGBEI	S 12 10 25.31 E 135 03 20.90
MARIE	S 29 15 01.77 E 143 25 22.03	MEKWD	S 26 42 18.01 E 118 19 14.87	MGBEM	S 12 05 59.14 E 134 54 11.07
MARIT	S 26 00 50.30 E 128 27 34.73	MEKWE	S 26 37 53.57 E 118 15 07.98	MGBWD	S 12 04 26.34 E 134 40 08.80
MARLI	S 28 06 33.42 E 152 42 36.82	MEKWF	S 26 37 00.95 E 118 26 14.94	MGBWE	S 11 58 44.56 E 134 39 15.52
MARLN	S 34 02 04.97 E 152 04 02.10	MEKWG	S 26 32 54.70 E 118 18 20.01	MGBWF	S 12 03 11.22 E 134 48 24.77
MARON	S 19 34 42.41 E 146 13 47.46	MEKWH	S 26 36 18.22 E 118 35 08.38	MGBWG	S 11 55 58.31 E 134 44 23.40
MARSH	S 37 42 18.00 E 144 14 36.00	MEKWI	S 26 37 27.37 E 118 20 41.48	MGBWH	S 12 06 44.34 E 134 55 44.45
MARSO	S 33 19 12.98 E 151 44 29.62	MEKWM	S 26 36 34.31 E 118 31 48.35	MGBWI	S 12 00 57.91 E 134 43 50.06
MARTY	S 12 58 36.84 E 131 17 22.96	MELBO	S 17 58 12.56 E 117 52 17.12	MGBWM	S 12 05 24.45 E 134 52 59.54
MARUB	S 33 55 54.00 E 151 28 54.00	MELOW	S 27 19 42.17 E 153 10 34.45	MGDND	S 11 55 19.89 E 134 03 30.33
MASER	S 19 44 33.41 E 132 46 18.27	MELSO	S 37 42 06.91 E 144 33 59.26	MGDNE	S 11 50 03.26 E 134 05 51.33

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
MGDNF	S 11 58 38.11 E 134 11 09.71	MICEY	S 14 50 23.56 E 132 48 25.62	MMLNF	S 37 33 42.81 E 144 49 04.43
MGDNG	S 11 50 25.31 E 134 11 41.57	MICHM	S 37 50 42.00 E 145 11 30.00	MMLNH	S 37 42 09.74 E 144 50 38.95
MGDNH	S 12 05 29.97 E 134 15 24.69	MICKI	S 27 29 36.00 E 153 06 42.00	MMLNI	S 37 31 43.97 E 144 48 42.32
MGDNI	S 11 54 20.66 E 134 08 30.46	MICKS	S 28 15 01.00 E 153 38 48.00	MMLNM	S 37 39 11.49 E 144 50 05.68
MGDNM	S 12 02 55.53 E 134 13 49.04	MICRO	S 35 57 37.52 E 139 52 47.83	MMLSA	S 37 49 30.51 E 144 56 35.52
MGDSA	S 12 11 41.04 E 134 24 51.91	MIDAT	S 40 21 58.05 E 163 00 00.00	MMLSB	S 37 55 00.63 E 144 53 03.63
MGDSB	S 12 16 57.84 E 134 22 31.06	MIDDY	S 26 55 20.69 E 115 00 00.00	MMLSC	S 37 50 39.05 E 144 47 08.13
MGDSC	S 12 16 35.98 E 134 16 40.22	MIDEL	S 22 24 00.00 E 141 25 36.00	MMLSD	S 37 49 11.78 E 144 43 41.99
MGDSF	S 12 08 23.18 E 134 17 11.98	MIDLA	S 31 51 53.88 E 115 59 13.12	MMLSF	S 37 45 06.52 E 144 51 11.98
MGDSH	S 12 01 31.34 E 134 12 56.92	MIGAX	S 16 01 43.51 E 134 26 44.88	MMLSH	S 37 38 10.58 E 144 49 54.32
MGDSI	S 12 12 40.55 E 134 19 51.50	MIKAL	S 27 20 46.26 E 153 16 26.31	MMLSI	S 37 50 03.58 E 144 52 07.78
MGDSM	S 12 04 05.78 E 134 14 32.55	MIKEL	S 38 35 44.79 E 157 32 04.65	MMLSM	S 37 41 08.84 E 144 50 27.58
MGTNA	S 33 42 45.52 E 115 04 06.21	MILIV	S 16 33 06.26 E 133 54 04.72	MMLWA	S 37 45 50.29 E 144 40 38.59
MGTNC	S 33 40 42.34 E 115 10 31.46	MILLA	S 38 12 56.06 E 145 53 37.25	MMLWB	S 37 42 06.91 E 144 33 59.26
MGTNF	S 33 50 25.47 E 115 07 36.72	MILNA	S 19 12 00.00 E 126 48 24.00	MMLWC	S 37 50 58.31 E 144 41 04.11
MGTNH	S 33 58 11.81 E 115 05 16.44	MILTN	S 18 47 06.73 E 146 58 16.10	MMLWD	S 37 43 01.52 E 144 38 34.25
MGTNI	S 33 45 33.91 E 115 09 04.18	MILTY	S 24 26 36.00 E 151 02 24.00	MMLWF	S 37 39 19.84 E 144 43 58.34
MGTNM	S 33 55 16.85 E 115 06 09.13	MIMMI	S 26 42 25.29 E 149 35 25.80	MMLWG	S 37 35 02.30 E 144 39 19.63
MHBEA	S 42 56 31.29 E 147 48 22.09	MINGA	S 26 23 42.00 E 117 48 18.00	MMLWH	S 37 50 50.71 E 144 52 45.84
MHBEB	S 43 02 10.36 E 147 47 01.14	MINIM	S 23 50 20.28 E 133 57 50.40	MMLWI	S 37 39 01.91 E 144 38 56.96
MHBEC	S 43 03 10.18 E 147 39 18.96	MINNI	S 23 04 33.60 E 149 37 32.21	MMLWM	S 37 39 37.56 E 144 48 59.76
MHBEB	S 42 55 05.96 E 147 37 23.21	MINNY	S 24 02 18.00 E 115 42 30.00	MNDWA	S 32 49 15.30 E 151 21 11.22
MHBEH	S 42 48 58.12 E 147 30 31.35	MINTY	S 32 02 48.00 E 115 58 54.00	MNDWB	S 32 43 38.01 E 151 18 59.27
MHBEI	S 42 58 38.26 E 147 42 11.90	MISCH	S 37 45 50.29 E 144 40 38.59	MNDWF	S 32 44 51.49 E 151 23 48.45
MHBEM	S 42 51 33.45 E 147 32 35.07	MISIT	S 32 35 50.05 E 149 38 04.06	MNDWH	S 32 45 48.44 E 151 27 08.36
MHBWD	S 42 43 54.06 E 147 11 29.11	MISLY	S 30 49 41.41 E 155 53 31.48	MNDWI	S 32 46 16.83 E 151 20 40.41
MHBWE	S 42 37 50.35 E 147 14 06.74	MITCH	S 28 56 18.15 E 150 58 55.09	MNDWM	S 32 42 57.57 E 151 27 59.01
MHBWF	S 42 44 56.73 E 147 23 39.34	MITSA	S 34 01 54.90 E 150 47 00.70	MNEEA	S 27 17 59.78 E 120 48 10.42
MHBWG	S 42 36 52.22 E 147 21 46.20	MITTS	S 24 38 59.68 E 137 40 19.05	MNEEB	S 27 23 38.47 E 120 49 24.71
MHBWH	S 42 51 19.77 E 147 32 16.55	MITTY	S 12 48 05.40 E 132 12 51.04	MNEEC	S 27 26 36.55 E 120 43 53.44
MHBWI	S 42 41 23.64 E 147 18 52.77	MJMEA	S 34 16 42.51 E 116 24 31.75	MNEEF	S 27 19 34.19 E 120 39 08.85
MHBWM	S 42 49 12.16 E 147 29 23.95	MJMEB	S 34 22 20.69 E 116 25 52.42	MNEEH	S 27 16 18.22 E 120 30 56.70
MHUEA	S 16 17 52.56 E 136 14 49.91	MJMEC	S 34 25 19.13 E 116 19 56.58	MNEEI	S 27 21 36.42 E 120 44 16.68
MHUEB	S 16 21 07.26 E 136 19 45.57	MJMEF	S 34 18 17.65 E 116 14 49.73	MNEEM	S 27 17 31.76 E 120 34 01.20
MHUEC	S 16 26 42.15 E 136 18 17.23	MJMEH	S 34 15 02.49 E 116 06 00.35	MNGEA	S 36 42 06.54 E 145 20 07.50
MHUEF	S 16 24 40.30 E 136 10 01.78	MJMEI	S 34 20 19.29 E 116 20 20.94	MNGEB	S 36 43 58.87 E 145 26 52.17
MHUEH	S 16 27 30.67 E 136 02 14.61	MJMEM	S 34 16 15.75 E 116 09 18.79	MNGEC	S 36 49 43.42 E 145 26 59.71
MHUEI	S 16 22 53.78 E 136 14 53.70	MJURA	S 35 12 24.90 E 149 11 35.83	MNGEF	S 36 49 51.87 E 145 16 47.78
MHUEM	S 16 26 26.82 E 136 05 09.83	MLTND	S 41 24 55.25 E 146 58 34.31	MNGEH	S 37 00 39.61 E 145 09 47.63
MHUWD	S 16 35 29.53 E 135 54 10.53	MLTNE	S 41 19 36.42 E 147 01 26.95	MNGEI	S 36 46 55.37 E 145 21 50.07
MHUWE	S 16 32 14.69 E 135 49 14.61	MLTNF	S 41 28 00.88 E 147 08 39.13	MNGEM	S 36 52 48.36 E 145 11 45.30
MHUWF	S 16 28 41.94 E 135 58 58.89	MLTNG	S 41 18 08.39 E 147 10 42.06	MOBIL	S 17 00 00.00 E 150 17 54.00
MHUWG	S 16 26 39.87 E 135 50 43.26	MLTNH	S 41 39 10.06 E 147 18 11.71	MOCHO	S 18 43 42.51 E 125 33 58.08
MHUWH	S 16 25 51.69 E 136 06 46.15	MLTNI	S 41 23 48.17 E 147 05 03.89	MOCKE	S 11 54 56.00 E 130 27 45.00
MHUWI	S 16 30 28.31 E 135 54 06.77	MLTNM	S 41 32 13.46 E 147 12 14.83	MOCUR	S 32 13 06.52 E 116 07 16.27
MHUWM	S 16 26 55.57 E 136 03 50.96	MLTSA	S 41 42 02.11 E 147 29 37.37	MOGNA	S 27 57 15.64 E 117 40 01.89
MIAEA	S 34 11 35.17 E 142 20 53.72	MLTSC	S 41 47 34.49 E 147 25 26.18	MOGNC	S 27 52 22.82 E 117 43 27.44
MIAEB	S 34 16 51.51 E 142 23 38.73	MLTSD	S 41 47 21.41 E 147 17 46.43	MOGND	S 27 53 34.02 E 117 49 47.45
MIAEC	S 34 20 48.43 E 142 18 36.92	MLTSF	S 41 39 10.05 E 147 18 11.82	MOGNF	S 28 01 36.28 E 117 47 53.09
MIAEF	S 34 14 50.73 E 142 11 49.56	MLTSH	S 41 30 35.95 E 147 10 51.49	MOGNH	S 28 08 58.94 E 117 51 26.16
MIAEH	S 34 13 13.98 E 142 02 22.47	MLTSI	S 41 43 22.33 E 147 21 48.76	MOGNI	S 27 56 59.57 E 117 45 40.17
MIAEI	S 34 15 51.12 E 142 17 44.11	MLTSM	S 41 33 07.46 E 147 13 01.02	MOGNM	S 28 06 12.96 E 117 50 06.20
MIAEM	S 34 13 50.35 E 142 05 55.09	MMBNF	S 37 52 48.62 E 145 05 28.76	MOGSE	S 28 17 00.01 E 118 01 05.69
MIANF	S 34 08 17.51 E 142 05 56.44	MMBNG	S 37 46 25.79 E 144 58 59.02	MOGSF	S 28 12 40.14 E 117 53 12.83
MIANH	S 34 16 16.57 E 142 05 05.37	MMBNH	S 38 00 48.02 E 145 06 10.64	MOGSG	S 28 21 53.26 E 117 57 40.15
MIANI	S 34 03 18.15 E 142 06 28.32	MMBNI	S 37 47 48.99 E 145 05 02.66	MOGSH	S 28 05 17.53 E 117 49 39.52
MIANM	S 34 13 16.86 E 142 05 24.53	MMBNM	S 37 57 48.25 E 145 05 54.91	MOGSI	S 28 17 16.72 E 117 55 26.40
MIANN	S 34 01 10.73 E 142 01 01.37	MMBSA	S 38 11 18.66 E 145 01 07.53	MOGSJ	S 28 20 42.42 E 117 51 18.39
MIANO	S 33 58 18.79 E 142 07 00.14	MMBSB	S 38 14 16.44 E 145 07 21.61	MOGSM	S 28 08 03.52 E 117 50 59.45
MIANP	S 34 02 00.53 E 142 12 17.10	MMBSC	S 38 10 39.67 E 145 13 00.91	MOLGA	S 34 02 18.00 E 120 00 54.00
MIASD	S 34 26 31.99 E 142 09 41.78	MMBSF	S 38 04 17.23 E 145 06 28.96	MOMAN	S 12 09 46.80 E 130 53 57.60
MIASE	S 34 29 24.15 E 142 03 41.04	MMBSH	S 38 01 53.39 E 145 12 48.31	MOMSY	S 37 32 42.00 E 150 32 42.00
MIASF	S 34 19 25.30 E 142 04 45.18	MMBSI	S 38 09 16.84 E 145 06 55.26	MONDO	S 32 56 36.17 E 151 14 11.11
MIASG	S 34 25 42.02 E 141 58 22.61	MMBSM	S 37 59 17.62 E 145 06 02.73	MONIC	S 17 00 44.57 E 132 03 31.71
MIASH	S 34 11 26.30 E 142 05 36.33	MMISA	S 28 55 16.30 E 121 49 34.16	MONTY	S 37 43 30.92 E 145 06 42.71
MIASI	S 34 24 24.73 E 142 04 13.14	MMISB	S 28 55 14.93 E 121 43 01.73	MOOLO	S 26 49 32.25 E 153 21 45.30
MIASM	S 34 14 26.02 E 142 05 17.16	MMISC	S 28 49 50.38 E 121 40 49.44	MOOVI	S 27 54 48.68 E 153 17 41.73
MIAWF	S 34 12 31.12 E 141 58 12.47	MMISF	S 28 47 03.70 E 121 49 36.12	MOPET	S 23 22 54.80 E 118 51 57.77
MIAWH	S 34 14 08.14 E 142 07 39.42	MMISH	S 28 39 26.59 E 121 55 42.02	MOREL	S 19 46 30.00 E 136 00 06.00
MIAWI	S 34 11 30.10 E 141 52 18.31	MMISI	S 28 51 09.35 E 121 46 19.06	MORGA	S 18 16 50.65 E 145 38 36.25
MIAWJ	S 34 15 45.94 E 141 49 08.49	MMISM	S 28 42 57.96 E 121 52 52.93	MORGN	S 26 43 27.75 E 153 12 41.95
MIAWK	S 34 10 28.81 E 141 46 24.30	MMLEF	S 37 40 00.57 E 144 55 37.64	MORGZ	S 38 09 01.12 E 147 34 36.21
MIAWL	S 34 06 32.77 E 141 51 25.72	MMLEH	S 37 39 30.93 E 144 47 07.06	MORIS	S 25 49 36.00 E 145 30 06.00
MIAWM	S 34 13 31.84 E 142 04 06.77	MMLEM	S 37 39 44.14 E 144 50 53.12	MORMU	S 36 50 12.00 E 144 46 36.00

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
MORNA	S 29 16 40.56 E 149 49 49.16	MTGSH	S 37 42 31.13 E 140 47 37.44	NARSC	S 34 54 45.97 E 146 34 55.49
MORNC	S 29 14 55.57 E 149 56 03.82	MTGSI	S 37 55 28.03 E 140 45 58.10	NARSF	S 34 46 33.97 E 146 34 43.51
MORND	S 29 19 28.42 E 150 00 04.92	MTGSM	S 37 45 30.42 E 140 47 14.57	NARSH	S 34 40 05.77 E 146 28 59.95
MORNF	S 29 24 30.02 E 149 52 40.24	MTIWA	S 16 42 31.47 E 138 56 35.33	NARSI	S 34 50 36.46 E 146 38 18.69
MORNH	S 29 31 12.07 E 149 50 17.35	MTIWB	S 16 37 22.27 E 138 53 54.76	NARSM	S 34 42 31.38 E 146 31 08.68
MORNI	S 29 19 42.81 E 149 54 22.11	MTIWC	S 16 33 11.37 E 138 58 00.86	NASHO	S 34 11 42.75 E 151 06 25.71
MORNM	S 29 29 17.20 E 149 50 58.21	MTIWF	S 16 38 50.45 E 139 04 12.95	NASTI	S 22 25 07.00 E 125 42 55.00
MOROK	S 31 05 33.12 E 116 34 27.31	MTIWH	S 16 40 00.61 E 139 12 27.61	NASUX	S 12 21 28.80 E 130 42 45.94
MORRO	S 26 51 53.58 E 150 23 38.48	MTIWI	S 16 38 06.42 E 138 59 03.84	NATAL	S 11 27 06.68 E 129 58 11.24
MORTN	S 27 17 39.26 E 153 10 48.91	MTIWM	S 16 39 34.34 E 139 09 22.10	NATLI	S 31 00 31.12 E 157 23 48.47
MOSSI	S 26 26 20.00 E 153 37 58.00	MUCHY	S 31 34 41.35 E 115 58 58.29	NATTY	S 31 33 24.00 E 137 08 30.00
MOTGO	S 27 44 41.05 E 116 27 23.88	MUDDL	S 27 22 16.00 E 153 20 47.00	NATYA	S 34 58 08.17 E 143 13 57.54
MOUSE	S 28 23 38.60 E 150 33 58.23	MUDIV	S 30 52 25.77 E 137 13 22.63	NAVEY	S 32 01 40.82 E 115 56 22.12
MOZZA	S 38 04 54.00 E 146 05 54.00	MUDOX	S 23 36 05.89 E 136 17 24.75	NAYAR	S 10 37 02.61 E 130 19 25.91
MPAND	S 32 38 22.29 E 135 01 57.70	MULDM	S 29 47 07.84 E 120 28 37.43	NBRSA	S 30 32 24.81 E 149 51 35.51
MPANE	S 32 34 42.69 E 135 07 11.83	MULEA	S 32 18 18.86 E 115 56 40.29	NBRSB	S 30 34 33.39 E 149 45 25.52
MPANF	S 32 44 41.98 E 135 08 08.62	MULEB	S 32 19 21.52 E 116 03 19.63	NBRSC	S 30 30 16.45 E 149 40 59.80
MPANG	S 32 37 37.17 E 135 13 03.23	MULEC	S 32 25 01.58 E 116 04 27.16	NBRSF	S 30 24 47.75 E 149 48 03.48
MPANH	S 32 52 41.39 E 135 08 54.19	MULEF	S 32 26 23.11 E 115 54 54.47	NBRSH	S 30 16 59.20 E 149 50 09.47
MPANI	S 32 39 42.34 E 135 07 40.20	MULEH	S 32 31 59.97 E 115 48 09.41	NBRSI	S 30 29 40.58 E 149 46 44.57
MPANM	S 32 49 41.62 E 135 08 37.09	MULEI	S 32 22 52.38 E 115 59 07.21	NBRSM	S 30 19 54.91 E 149 49 22.26
MPASA	S 33 02 33.24 E 135 15 27.12	MULEM	S 32 29 53.69 E 115 50 41.40	NECTA	S 15 11 06.32 E 143 48 04.77
MPASB	S 33 06 13.17 E 135 10 11.69	MULET	S 26 25 54.32 E 155 43 57.08	NEEKY	S 27 37 47.36 E 115 00 00.00
MPASC	S 33 03 18.57 E 135 04 18.50	MULOO	S 27 38 09.00 E 152 26 04.20	NEFER	S 37 26 30.00 E 144 56 36.00
MPASF	S 32 56 13.93 E 135 09 14.44	MUMBA	S 12 09 39.26 E 130 51 13.82	NEILO	S 12 29 47.40 E 131 07 28.20
MPASH	S 32 48 14.52 E 135 08 28.81	MUNDE	S 33 32 33.37 E 137 52 51.59	NEILS	S 37 49 36.00 E 144 51 00.00
MPASI	S 33 01 13.55 E 135 09 43.04	MUNEL	S 14 28 18.00 E 144 55 12.00	NELLT	S 12 14 50.79 E 131 06 39.12
MPASM	S 32 51 14.30 E 135 08 45.90	MUNGA	S 17 06 42.00 E 144 23 24.00	NELLY	S 19 00 00.00 E 146 49 00.00
MRBNA	S 21 51 54.02 E 147 57 35.30	MUNNI	S 21 12 33.83 E 116 51 57.94	NELSN	S 32 43 34.84 E 152 19 12.60
MRBNC	S 21 47 55.80 E 148 02 03.13	MUNRO	S 14 24 34.95 E 130 36 05.85	NERIG	S 35 10 41.37 E 150 02 02.08
MRBND	S 21 50 29.15 E 148 07 34.54	MURAY	S 20 46 25.15 E 116 37 33.12	NERTI	S 13 27 02.42 E 133 14 32.16
MRBNF	S 21 57 51.11 E 148 03 39.89	MURCH	S 26 45 39.09 E 118 58 46.10	NETTY	S 28 43 50.35 E 155 30 34.41
MRBNH	S 22 05 47.35 E 148 04 57.39	MURES	S 31 48 19.85 E 116 31 16.62	NEVIS	S 37 11 48.00 E 143 16 17.78
MRBNI	S 21 52 53.46 E 148 02 51.50	MURJO	S 27 17 03.00 E 153 06 09.00	NEWAY	S 12 25 04.57 E 131 10 40.52
MRBNM	S 22 02 48.76 E 148 04 28.31	MURPH	S 22 28 48.00 E 149 35 00.00	NEWMO	S 32 01 28.20 E 143 31 00.00
MRWSA	S 29 20 50.74 E 116 13 32.10	MURRY	S 35 03 35.60 E 139 12 48.19	NGUEA	S 14 44 27.41 E 134 58 58.58
MRWSB	S 29 26 05.94 E 116 10 51.89	MUSEY	S 17 12 51.62 E 144 57 40.46	NGUEB	S 14 50 07.22 E 135 00 03.92
MRWSC	S 29 25 41.67 E 116 04 18.74	MUSOP	S 35 31 06.00 E 147 54 12.00	NGUEC	S 14 53 03.17 E 134 54 58.03
MRWSF	S 29 17 30.17 E 116 04 58.54	MUSTA	S 33 53 47.12 E 149 45 18.33	NGUEF	S 14 45 58.14 E 134 50 39.79
MRWSH	S 29 10 37.37 E 116 00 16.58	MUTHA	S 34 06 12.40 E 137 01 19.67	NGUEH	S 14 42 38.58 E 134 43 08.68
MRWSI	S 29 21 48.09 E 116 07 55.09	MUTMI	S 04 08 00.00 E 092 58 42.00	NGUEI	S 14 48 02.74 E 134 55 21.85
MRWSM	S 29 13 12.19 E 116 02 02.24	MYALL	S 19 06 00.00 E 139 30 36.00	NGUEM	S 14 43 53.44 E 134 45 57.82
MRYNA	S 35 40 37.29 E 150 06 15.64	MYBND	S 25 18 58.03 E 152 36 07.15	NGUWD	S 14 42 32.50 E 134 31 12.79
MRYNC	S 35 38 21.56 E 150 12 43.69	MYBNE	S 25 15 09.52 E 152 40 51.81	NGUWE	S 14 36 52.56 E 134 30 08.21
MRYND	S 35 42 32.67 E 150 17 33.22	MYBNF	S 25 25 07.70 E 152 42 06.39	NGUWF	S 14 41 02.44 E 134 39 31.57
MRYNF	S 35 48 09.83 E 150 10 13.37	MYBNG	S 25 17 54.33 E 152 46 25.52	NGUWG	S 14 33 57.13 E 134 35 14.04
MRYNH	S 35 56 54.37 E 150 14 29.39	MYBNH	S 25 33 06.29 E 152 43 06.19	NGUWH	S 14 44 22.08 E 134 47 02.58
MRYNI	S 35 43 15.70 E 150 11 28.61	MYBNI	S 25 20 08.57 E 152 41 29.07	NGUWI	S 14 38 57.53 E 134 34 49.81
MRYNM	S 35 53 03.93 E 150 08 57.98	MYBNM	S 25 30 06.82 E 152 42 43.75	NGUWM	S 14 43 07.25 E 134 44 13.42
MRZNA	S 29 16 56.18 E 149 49 43.55	MYBSA	S 25 42 38.87 E 152 49 32.11	NHLEA	S 36 14 03.06 E 141 54 29.68
MRZNC	S 29 15 11.08 E 149 55 58.33	MYBSB	S 25 46 27.64 E 152 44 46.63	NHLEB	S 36 18 43.42 E 141 58 37.20
MRZND	S 29 19 43.78 E 149 59 59.43	MYBSC	S 25 43 42.76 E 152 39 11.64	NHLEC	S 36 23 27.64 E 141 54 36.26
MRZNF	S 29 24 45.53 E 149 52 34.74	MYBSF	S 25 36 29.51 E 152 43 31.63	NHLEF	S 36 18 49.19 E 141 46 14.83
MRZNH	S 29 32 25.01 E 149 49 51.40	MYBSH	S 25 28 30.92 E 152 42 31.77	NHLEH	S 36 18 53.66 E 141 36 20.93
MRZNI	S 29 19 58.32 E 149 54 16.61	MYBSI	S 25 41 28.61 E 152 44 09.11	NHLEI	S 36 18 46.31 E 141 52 26.02
MRZNM	S 29 29 32.71 E 149 50 52.70	MYBSM	S 25 31 30.39 E 152 42 54.20	NHLEM	S 36 18 52.08 E 141 40 03.64
MRZSE	S 29 42 59.12 E 149 51 44.36	MYLAW	S 35 05 03.50 E 138 47 07.34	NICAY	S 34 57 41.57 E 139 07 52.51
MRZSF	S 29 35 09.77 E 149 48 52.73	NABBA	S 36 42 19.20 E 147 02 31.39	NICKY	S 34 19 27.24 E 149 19 18.76
MRZSG	S 29 44 44.01 E 149 45 27.80	NAILA	S 13 12 54.95 E 128 07 14.04	NICLA	S 32 03 04.96 E 152 00 15.72
MRZSH	S 29 27 30.31 E 149 51 36.21	NALAR	S 31 18 34.38 E 120 27 18.58	NICOL	S 13 07 48.16 E 132 03 54.17
MRZSI	S 29 39 56.90 E 149 47 10.34	NALLY	S 28 17 07.12 E 118 54 10.75	NICON	S 34 53 35.51 E 138 14 50.38
MRZSJ	S 29 40 10.89 E 149 41 26.36	NAMBA	S 32 31 10.48 E 151 27 51.94	NIFTI	S 39 53 54.00 E 147 39 06.00
MRZSM	S 29 30 22.62 E 149 50 34.95	NAMIT	S 23 39 58.40 E 133 58 08.71	NIKIL	S 26 18 00.00 E 144 11 42.00
MTGND	S 37 32 57.39 E 140 54 46.76	NANDY	S 30 47 13.56 E 149 07 40.75	NIKKI	S 28 05 58.53 E 153 34 20.04
MTGNE	S 37 29 12.46 E 140 49 18.99	NAOMI	S 37 39 20.57 E 144 37 54.66	NIKKY	S 19 02 59.00 E 146 55 26.50
MTGNF	S 37 39 10.12 E 140 48 03.06	NARND	S 34 34 05.38 E 146 16 39.47	NIKOM	S 15 44 15.12 E 124 43 22.94
MTGNG	S 37 32 00.49 E 140 43 01.45	NARNE	S 34 28 39.03 E 146 18 54.74	NINEP	S 34 00 06.82 E 137 52 49.86
MTGNH	S 37 47 08.23 E 140 47 02.08	NARNF	S 34 36 44.79 E 146 26 02.45	NINOB	S 26 00 00.01 E 106 29 05.75
MTGNI	S 37 34 11.29 E 140 48 41.06	NARNG	S 34 28 32.36 E 146 25 50.58	NIPEM	S 26 32 20.03 E 117 05 14.17
MTGNM	S 37 44 08.94 E 140 47 24.97	NARNH	S 34 43 13.09 E 146 31 45.62	NITTA	S 21 42 38.66 E 149 04 00.76
MTGSA	S 37 56 41.61 E 140 39 50.45	NARNI	S 34 32 41.96 E 146 22 28.42	NIVED	S 18 33 08.75 E 138 03 31.62
MTGSB	S 38 00 26.83 E 140 45 19.73	NARNM	S 34 40 47.51 E 146 29 36.83	NOBAR	S 33 47 10.72 E 151 44 24.35
MTGSC	S 37 57 38.55 E 140 51 39.66	NARSA	S 34 49 12.74 E 146 44 08.69	NODAB	S 13 21 35.18 E 106 38 20.92
MTGSF	S 37 50 29.23 E 140 46 36.38	NARSB	S 34 54 38.83 E 146 41 54.22	NODDY	S 28 33 16.53 E 152 26 59.84

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
NODOK	S 12 11 12.00 E 155 00 00.00	NUTTA	S 15 00 31.91 E 130 58 15.85	ONOXA	S 12 00 00.01 E 120 52 44.55
NOGRA	S 27 25 24.00 E 152 59 34.00	NWNEA	S 23 14 08.36 E 119 56 35.23	ONSLO	S 21 39 59.38 E 115 06 43.35
NOLAN	S 40 39 27.40 E 147 11 54.21	NWNEB	S 23 16 11.02 E 120 02 24.56	OODEA	S 27 39 54.05 E 135 39 45.19
NOLES	S 25 04 01.95 E 137 06 20.55	NWNEC	S 23 21 56.29 E 120 02 19.41	OODEB	S 27 45 29.64 E 135 38 14.83
NOMAD	S 11 56 16.32 E 130 26 14.15	NWNEF	S 23 21 49.38 E 119 53 25.41	OODEC	S 27 46 08.67 E 135 31 49.38
NONAX	S 23 31 17.01 E 123 52 08.82	NWNEH	S 23 26 20.01 E 119 46 13.78	OODEF	S 27 37 59.06 E 135 30 46.91
NONET	S 25 20 25.19 E 141 08 53.07	NWNEI	S 23 19 00.20 E 119 57 55.03	OODEH	S 27 31 58.54 E 135 24 49.00
NONIR	S 15 40 32.43 E 148 11 09.91	NWNEM	S 23 24 38.56 E 119 48 55.70	OODEI	S 27 41 44.35 E 135 34 30.81
NONIX	S 37 04 34.30 E 145 14 49.58	NWNWD	S 23 35 24.53 E 119 38 00.08	OODEM	S 27 34 13.76 E 135 27 03.14
NONOG	S 25 17 27.91 E 112 27 38.37	NWNWE	S 23 32 43.29 E 119 32 28.84	OODWD	S 27 27 37.38 E 135 13 27.30
NONUP	S 35 25 50.09 E 148 17 55.84	NWNWF	S 23 28 08.48 E 119 42 09.64	OODWE	S 27 22 01.88 E 135 14 57.90
NOODL	S 32 49 25.96 E 151 21 16.98	NWNWG	S 23 27 01.23 E 119 33 20.00	OODWF	S 27 29 32.71 E 135 22 24.46
NOONA	S 12 33 41.97 E 131 03 21.60	NWNWH	S 23 24 28.61 E 119 49 54.03	OODWG	S 27 21 22.92 E 135 21 21.96
NOPAG	S 10 51 56.69 E 135 52 29.10	NWNWI	S 23 30 25.89 E 119 37 19.29	OODWH	S 27 35 33.32 E 135 28 22.13
NOPEP	S 26 36 31.15 E 119 20 12.33	NWNWM	S 23 25 51.11 E 119 46 59.93	OODWI	S 27 25 47.29 E 135 18 41.11
NORIC	S 30 40 53.29 E 116 54 28.44	NYNED	S 31 22 37.58 E 147 21 51.97	OODWM	S 27 33 18.12 E 135 26 07.92
NORIS	S 16 11 53.49 E 144 20 11.45	NYNEE	S 31 24 59.05 E 147 27 58.20	OOMWA	S 28 01 51.35 E 139 56 50.89
NORMA	S 17 39 46.23 E 145 32 17.04	NYNEF	S 31 30 06.80 E 147 17 55.55	OOMWB	S 27 56 06.14 E 139 57 03.39
NOVEM	S 13 31 47.10 E 131 40 31.88	NYNEG	S 31 30 43.38 E 147 27 28.57	OOMWC	S 27 54 18.55 E 140 03 12.16
NOVIN	S 35 07 18.42 E 120 00 00.00	NYNEH	S 31 34 12.43 E 147 09 52.64	OOMWF	S 28 02 06.87 E 140 06 05.79
NRCEA	S 36 52 51.57 E 140 57 59.05	NYNEI	S 31 27 33.02 E 147 22 57.01	OOMWH	S 27 59 23.57 E 140 14 45.30
NRCEB	S 36 57 11.21 E 141 02 41.21	NYNEM	S 31 32 40.38 E 147 12 53.81	OOMWI	S 27 59 06.58 E 140 01 34.46
NRCEC	S 37 02 12.93 E 140 59 13.69	NYNWA	S 31 43 26.08 E 147 02 28.50	OOMWM	S 28 05 07.01 E 140 10 37.36
NRCEF	S 36 58 14.74 E 140 50 16.75	NYNWB	S 31 41 03.61 E 146 56 20.63	OPABA	S 08 51 30.00 E 138 04 00.00
NRCEH	S 36 59 04.63 E 140 40 20.93	NYNWC	S 31 35 20.11 E 146 56 51.51	OPALL	S 26 34 43.04 E 118 27 08.16
NRCEI	S 36 57 43.14 E 140 56 29.02	NYNWF	S 31 35 57.52 E 147 06 25.61	OPTIC	S 34 24 04.14 E 151 53 19.79
NRCEM	S 36 58 46.02 E 140 44 04.38	NYNWH	S 31 31 52.07 E 147 14 28.79	ORBEA	S 37 40 10.51 E 148 51 54.46
NRMWA	S 32 10 29.97 E 147 58 08.03	NYNWI	S 31 38 30.66 E 147 01 23.26	ORBEB	S 37 45 17.03 E 148 57 43.73
NRMWB	S 32 04 45.37 E 147 57 43.03	NYNWM	S 31 33 24.17 E 147 11 27.68	ORBEC	S 37 50 29.17 E 148 53 05.82
NRMWC	S 32 02 27.70 E 148 03 53.84	OCKLY	S 32 48 52.14 E 117 09 16.03	ORBEB	S 37 46 39.16 E 148 43 57.83
NRMWF	S 32 09 59.26 E 148 07 45.63	OCTAN	S 31 44 00.00 E 160 14 30.00	ORBEH	S 37 47 38.70 E 148 33 56.98
NRMWH	S 32 20 09.67 E 148 10 26.86	OCTAV	S 23 47 19.90 E 133 52 14.45	ORBEI	S 37 46 01.84 E 148 50 13.27
NRMWI	S 32 07 22.42 E 148 02 44.19	OCTOB	S 11 08 49.17 E 130 29 37.72	ORBEM	S 37 47 16.47 E 148 37 42.33
NRMWM	S 32 12 35.90 E 148 12 47.36	ODALE	S 34 05 21.18 E 150 31 03.93	ORBUN	S 34 11 45.05 E 138 43 16.22
NRMWT	S 32 14 09.79 E 148 15 48.54	OILER	S 18 09 18.00 E 150 42 06.00	ORBWD	S 37 53 35.09 E 148 21 45.06
NRVEA	S 33 37 23.86 E 120 22 19.70	OJJAY	S 32 28 40.08 E 137 18 13.87	ORBWE	S 37 49 26.63 E 148 15 38.81
NRVEB	S 33 39 42.65 E 120 28 37.06	OKAPI	S 31 51 52.35 E 148 39 13.61	ORBWF	S 37 48 05.40 E 148 29 25.37
NRVEC	S 33 45 26.71 E 120 28 10.36	OKIBU	S 18 10 14.17 E 117 21 38.61	ORBWG	S 37 43 21.44 E 148 19 43.01
NRVEF	S 33 44 54.44 E 120 18 22.15	OKMEL	S 37 33 42.67 E 144 49 04.41	ORBWH	S 37 47 06.14 E 148 39 26.31
NRVEH	S 33 49 03.25 E 120 10 09.34	OLDEA	S 30 27 12.72 E 137 09 59.74	ORBWI	S 37 48 42.34 E 148 23 09.69
NRVEI	S 33 42 18.65 E 120 23 29.76	OLDEF	S 30 27 11.43 E 136 58 46.93	ORBWM	S 37 47 28.46 E 148 35 40.99
NRVEM	S 33 47 30.01 E 120 13 14.24	OLDEH	S 30 32 43.83 E 136 57 22.67	ORCHY	S 31 59 40.76 E 115 40 52.12
NRVWD	S 33 50 16.31 E 119 56 48.07	OLDEI	S 30 25 30.77 E 137 04 13.95	ORGED	S 33 26 18.55 E 149 23 13.55
NRVWE	S 33 56 00.24 E 119 56 19.20	OLDEM	S 30 28 51.86 E 136 53 19.73	ORGEE	S 33 32 02.93 E 149 23 10.53
NRVWF	S 33 50 50.29 E 120 06 36.75	OLDER	S 21 11 12.00 E 147 13 42.00	ORGEF	S 33 26 14.54 E 149 13 25.92
NRVWG	S 33 58 20.35 E 120 02 37.21	OLLEE	S 31 47 32.79 E 136 18 07.55	ORGEG	S 33 33 58.43 E 149 16 42.04
NRVWH	S 33 46 41.72 E 120 14 49.91	OLLIE	S 25 05 07.58 E 147 30 18.95	ORGEH	S 33 19 45.65 E 149 04 19.69
NRVWI	S 33 53 25.37 E 120 01 28.13	OLREL	S 35 39 02.70 E 163 00 00.00	ORGEI	S 33 29 08.83 E 149 18 18.06
NRVWM	S 33 48 15.00 E 120 11 45.07	OLWND	S 21 46 54.82 E 115 07 11.24	ORGEM	S 33 23 20.06 E 149 08 34.10
NSMNA	S 31 59 23.84 E 121 41 24.11	OLWNE	S 21 25 41.04 E 115 13 11.63	ORGWA	S 33 16 03.70 E 148 53 14.62
NSMNC	S 31 56 34.49 E 121 47 16.53	OLWNF	S 21 34 56.74 E 115 09 03.80	ORGWB	S 33 10 31.23 E 148 55 03.38
NSMND	S 32 00 18.64 E 121 52 23.99	OLWNG	S 21 30 32.77 E 115 16 29.13	ORGWC	S 33 10 03.19 E 149 01 52.01
NSMNF	S 32 06 32.91 E 121 46 08.11	OLWNH	S 21 42 21.27 E 115 05 45.32	ORGWF	S 33 18 13.94 E 149 02 40.04
NSMNH	S 32 14 21.00 E 121 44 19.29	OLWNI	S 21 30 18.89 E 115 11 07.75	ORGWH	S 33 25 09.92 E 149 09 32.19
NSMNI	S 32 01 33.70 E 121 46 42.32	OLWNM	S 21 39 34.58 E 115 06 59.79	ORGWI	S 33 14 22.65 E 148 58 51.54
NSMNM	S 32 11 32.12 E 121 45 33.84	OLWSA	S 21 53 38.17 E 115 06 11.07	ORGWM	S 33 22 05.09 E 149 06 28.88
NTNND	S 17 33 25.01 E 140 53 01.81	OLWSB	S 21 54 52.00 E 115 00 09.54	ORTOS	S 28 04 30.00 E 141 32 18.00
NTNNE	S 17 28 03.53 E 140 55 14.16	OLWSC	S 21 50 00.13 E 114 56 51.74	ORWEL	S 27 57 10.73 E 152 38 47.39
NTNNF	S 17 36 26.15 E 141 01 00.29	OLWSF	S 21 45 36.39 E 115 04 18.09	OSBED	S 22 09 34.25 E 140 46 38.74
NTNNG	S 17 28 12.77 E 141 01 13.93	OLWSH	S 21 38 11.88 E 115 07 36.71	OSBEE	S 22 15 17.24 E 140 45 55.38
NTNNH	S 17 43 08.11 E 141 05 37.58	OLWSI	S 21 50 14.20 E 115 02 13.85	OSBEF	S 22 08 36.37 E 140 37 52.94
NTNNI	S 17 32 14.86 E 140 58 07.16	OLWSM	S 21 40 58.58 E 115 06 22.27	OSBEG	S 22 16 36.48 E 140 39 54.25
NTNNM	S 17 40 37.39 E 141 03 53.56	OMKIN	S 42 24 51.76 E 163 00 00.00	OSBEH	S 22 03 15.39 E 140 31 27.53
NTNSA	S 17 49 02.06 E 141 15 36.45	OMOSA	S 37 15 32.68 E 147 37 54.40	OSBEI	S 22 11 56.85 E 140 41 54.07
NTNSB	S 17 54 23.46 E 141 13 24.37	OMOSF	S 37 10 50.79 E 147 40 03.70	OSBEM	S 22 05 15.78 E 140 33 52.00
NTNSC	S 17 54 14.40 E 141 07 23.46	OMOSI	S 37 13 21.88 E 147 42 06.53	OSBWA	S 22 00 12.90 E 140 20 14.10
NTNSF	S 17 46 01.21 E 141 07 37.10	OMOSM	S 37 07 29.29 E 147 37 20.13	OSBWB	S 21 54 30.02 E 140 20 58.42
NTNSH	S 17 39 19.28 E 141 02 59.67	OMUBI	S 23 38 15.40 E 146 04 05.84	OSBWC	S 21 53 11.47 E 140 26 58.80
NTNSI	S 17 50 12.36 E 141 10 30.67	ONALA	S 15 11 10.49 E 117 01 44.66	OSBWF	S 22 01 11.73 E 140 28 59.27
NTNSM	S 17 41 50.02 E 141 04 43.67	ONDRA	S 28 10 37.02 E 152 25 19.37	OSBWH	S 22 06 32.81 E 140 35 24.49
NUFFA	S 34 14 42.31 E 151 18 55.62	ONELU	S 22 51 53.09 E 144 46 20.58	OSBWI	S 21 57 50.92 E 140 24 58.75
NUGET	S 12 36 47.99 E 131 33 37.66	ONGAR	S 29 12 00.28 E 114 47 54.99	OSBWM	S 22 04 32.43 E 140 32 59.97
NUMSA	S 39 25 11.09 E 163 00 00.00	ONGLO	S 35 27 30.00 E 149 17 06.00	OSOTO	S 18 07 15.44 E 116 35 53.88
NUNLA	S 25 45 11.25 E 111 00 52.67	ONIVI	S 28 59 03.25 E 147 13 49.87	OSTIN	S 38 37 11.76 E 160 21 07.15

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
OSVOL	S 20 15 03.65 E 122 02 55.59	PCCNF	S 12 06 35.80 E 096 47 03.91	PGVWB	S 12 06 21.01 E 136 37 01.55
OVENS	S 24 59 12.00 E 149 15 18.00	PCCNG	S 11 58 23.43 E 096 47 40.87	PGVWC	S 12 04 49.50 E 136 42 40.17
OVILS	S 33 42 05.94 E 151 08 01.17	PCCNH	S 12 13 30.04 E 096 51 14.71	PGVWF	S 12 12 45.61 E 136 44 53.18
OWENS	S 37 14 46.00 E 144 29 27.00	PCCNI	S 12 02 16.86 E 096 44 27.27	PGVWH	S 12 17 53.13 E 136 51 10.76
PADDY	S 26 52 44.23 E 158 25 15.05	PCCNM	S 12 10 54.70 E 096 49 40.63	PGVWI	S 12 09 33.34 E 136 40 57.32
PADNA	S 34 47 26.48 E 138 45 38.76	PCCSA	S 12 19 44.15 E 097 00 36.77	PGVWM	S 12 15 38.43 E 136 48 25.69
PADNF	S 34 51 18.08 E 138 40 03.58	PCCSB	S 12 24 59.50 E 096 58 12.71	PHONE	S 27 28 58.70 E 140 37 53.26
PADNH	S 34 59 38.79 E 138 27 55.42	PCCSC	S 12 24 34.20 E 096 52 21.95	PIBED	S 05 20 12.00 E 090 44 00.00
PADNI	S 34 48 43.78 E 138 43 47.15	PCCSF	S 12 16 21.83 E 096 52 58.80	PIERS	S 37 55 00.63 E 144 53 03.63
PADNJ	S 34 52 06.41 E 138 50 50.72	PCCSH	S 12 09 27.62 E 096 48 47.91	PIGGY	S 29 11 45.18 E 153 23 46.32
PADNM	S 34 56 26.32 E 138 32 35.74	PCCSI	S 12 20 40.68 E 096 55 35.71	PIKIL	S 32 06 00.64 E 117 42 51.07
PADRY	S 23 19 52.30 E 115 39 24.82	PCCSM	S 12 12 02.95 E 096 50 21.96	PILBA	S 21 15 54.00 E 118 07 20.00
PADSD	S 35 08 35.09 E 138 26 16.20	PDNEA	S 12 24 35.19 E 131 06 48.37	PILBY	S 34 40 13.63 E 136 44 02.34
PADSE	S 35 06 55.58 E 138 17 16.89	PDNEB	S 12 30 07.30 E 131 08 25.97	PILLO	S 13 28 10.65 E 139 03 40.31
PADSF	S 35 00 31.30 E 138 26 38.83	PDNEC	S 12 33 30.99 E 131 03 41.68	PILTA	S 33 11 30.00 E 141 47 36.00
PADSG	S 34 59 36.54 E 138 16 38.67	PDNEF	S 12 26 52.11 E 130 58 45.71	PINAV	S 28 52 54.00 E 129 00 00.00
PADSH	S 34 55 23.34 E 138 34 07.33	PDNEH	S 12 24 15.91 E 130 51 01.61	PINKY	S 28 57 04.21 E 167 46 34.50
PADSI	S 35 03 43.53 E 138 21 58.04	PDNEI	S 12 28 29.70 E 131 03 35.83	PIPOV	S 04 22 06.00 E 092 32 30.00
PADSM	S 34 57 38.04 E 138 30 51.13	PDNEM	S 12 25 14.51 E 130 53 55.63	PIPPA	S 14 40 51.13 E 150 11 24.44
PAGNA	S 32 19 06.36 E 137 31 56.82	PDNSA	S 12 36 17.98 E 130 46 59.10	PIRED	S 33 09 36.00 E 128 14 06.86
PAGNC	S 32 14 21.52 E 137 35 45.67	PDNSB	S 12 37 24.66 E 130 52 16.42	PIREE	S 33 14 17.80 E 138 18 01.61
PAGND	S 32 15 46.53 E 137 42 18.97	PDNSC	S 12 36 16.37 E 130 57 33.37	PIREF	S 33 14 17.76 E 138 06 06.26
PAGNF	S 32 23 43.88 E 137 39 56.16	PDNSF	S 12 30 22.80 E 130 52 15.31	PIREG	S 33 19 00.88 E 138 14 05.67
PAGNH	S 32 25 29.78 E 137 45 16.00	PDNSH	S 12 21 20.75 E 130 52 01.06	PIREH	S 33 14 16.84 E 137 56 33.97
PAGNI	S 32 19 02.72 E 137 37 50.81	PDNSI	S 12 34 23.86 E 130 52 15.94	PIREI	S 33 14 18.24 E 138 12 03.93
PAGNM	S 32 28 25.00 E 137 42 01.73	PDNSM	S 12 25 22.67 E 130 52 14.61	PIREM	S 33 14 17.27 E 138 00 08.58
PALGA	S 12 42 57.00 E 132 13 46.00	PDNWD	S 12 25 07.62 E 130 38 46.72	PIRWA	S 33 19 16.22 E 137 47 32.16
PALTI	S 27 51 09.00 E 116 42 12.59	PDNWE	S 12 19 35.45 E 130 37 09.36	PIRWB	S 33 14 14.88 E 137 41 35.24
PAMMY	S 34 44 01.77 E 138 19 45.45	PDNWF	S 12 22 50.88 E 130 46 49.26	PIRWC	S 33 09 15.08 E 137 47 33.66
PAMNA	S 18 37 34.09 E 146 23 42.61	PDNWG	S 12 16 11.88 E 130 41 53.48	PIRWF	S 33 14 16.43 E 137 53 30.58
PAMNC	S 18 33 10.68 E 146 25 10.71	PDNWH	S 12 25 27.18 E 130 54 33.28	PIRWH	S 33 14 17.53 E 138 03 02.87
PAMND	S 18 32 59.45 E 146 30 00.16	PDNWI	S 12 21 13.16 E 130 41 59.29	PIRWI	S 33 14 15.66 E 137 47 32.91
PAMNF	S 18 39 33.92 E 146 30 17.08	PDNWM	S 12 24 28.59 E 130 51 39.26	PIRWM	S 33 14 17.20 E 137 59 28.26
PAMNH	S 18 42 56.42 E 146 29 47.45	PEACH	S 12 23 06.00 E 138 10 42.00	PJTED	S 31 54 22.24 E 116 02 02.42
PAMNI	S 18 36 22.31 E 146 27 43.85	PEAKE	S 36 01 00.00 E 149 30 36.00	PJTEF	S 32 02 06.90 E 115 58 50.79
PAMNM	S 18 42 45.48 E 146 32 50.41	PEART	S 37 28 30.68 E 144 43 26.91	PJTEG	S 32 02 01.24 E 116 08 28.95
PAMSE	S 18 49 48.38 E 146 44 22.96	PEBAL	S 37 58 36.00 E 144 58 36.00	PJTEH	S 32 03 52.69 E 115 45 56.14
PAMSF	S 18 49 30.26 E 146 39 12.42	PEBBL	S 12 39 38.53 E 130 49 23.54	PJTEI	S 31 59 11.73 E 116 03 37.54
PAMSG	S 18 53 15.20 E 146 44 09.53	PEBTA	S 10 57 50.55 E 140 10 30.73	PJTEM	S 32 05 01.88 E 115 54 03.73
PAMSH	S 18 50 53.65 E 146 36 15.26	PECAN	S 31 00 44.98 E 148 00 25.68	PJTSE	S 32 08 38.09 E 115 58 26.28
PAMSI	S 18 51 22.64 E 146 41 41.04	PECOB	S 43 09 42.72 E 150 56 13.10	PJTSH	S 32 04 10.82 E 115 45 10.90
PAMSJ	S 18 54 13.84 E 146 40 40.31	PEDPI	S 13 16 36.00 E 075 00 00.00	PJTST	S 32 10 56.20 E 116 03 40.20
PAMSM	S 18 47 37.41 E 146 36 44.23	PEKAY	S 23 16 39.11 E 118 34 54.42	PJTST	S 32 13 14.09 E 116 08 54.38
PANDU	S 11 38 06.00 E 078 26 36.00	PELIK	S 36 12 38.60 E 139 31 07.98	PJTSL	S 32 15 54.37 E 116 02 55.08
PANKI	S 34 58 37.77 E 140 20 57.16	PELIS	S 18 57 02.13 E 146 01 43.93	PJTSM	S 32 06 19.76 E 115 53 12.62
PANNA	S 21 20 37.43 E 116 19 17.18	PEMAC	S 28 00 37.00 E 153 26 40.00	PJTWA	S 32 14 04.58 E 115 47 17.11
PANOR	S 33 17 28.40 E 149 48 23.06	PENAR	S 20 21 16.45 E 141 13 55.77	PJTWF	S 32 08 29.11 E 115 48 22.99
PANTN	S 37 35 42.00 E 145 15 06.00	PENNY	S 19 37 06.26 E 145 13 08.83	PJTWH	S 32 09 32.64 E 115 52 57.50
PANTO	S 14 44 36.00 E 144 19 54.00	PENZA	S 37 45 15.94 E 142 13 55.13	PJTWI	S 32 10 48.79 E 115 44 32.84
PARAD	S 17 02 34.49 E 124 37 20.76	PEPPY	S 26 06 36.00 E 141 39 30.00	PJTWM	S 32 06 09.31 E 115 52 12.96
PARCU	S 28 34 48.00 E 152 32 54.00	PERKS	S 13 26 07.49 E 128 11 40.48	PKAEA	S 20 36 43.13 E 116 59 03.07
PARKA	S 34 49 58.00 E 138 27 49.93	PERSA	S 27 49 44.42 E 152 47 45.96	PKAEB	S 20 41 02.51 E 117 03 05.40
PARKS	S 31 58 36.00 E 115 50 18.00	PESKY	S 17 04 09.72 E 146 26 32.04	PKAEC	S 20 46 05.58 E 117 00 09.26
PARTY	S 18 26 09.38 E 133 44 48.48	PETAA	S 31 05 43.00 E 115 36 30.00	PKAEF	S 20 42 08.94 E 116 52 29.34
PASCO	S 37 43 12.00 E 144 57 48.00	PETAB	S 30 50 00.00 E 116 00 00.00	PKAEH	S 20 43 02.25 E 116 44 00.46
PASTA	S 30 14 36.90 E 147 26 07.77	PETAC	S 30 50 00.00 E 115 30 00.00	PKAEI	S 20 41 35.68 E 116 57 47.37
PAULA	S 37 34 24.00 E 145 02 06.00	PETAD	S 30 37 30.00 E 114 29 03.00	PKAEM	S 20 42 42.29 E 116 47 11.30
PAWSO	S 17 12 44.02 E 146 06 19.52	PETAE	S 32 00 06.00 E 114 05 30.00	PKAWD	S 20 48 49.77 E 116 34 01.48
PBOEA	S 22 59 08.56 E 117 53 38.74	PETAF	S 32 45 59.00 E 114 31 38.00	PKAWE	S 20 44 30.58 E 116 29 58.71
PBOEB	S 23 01 07.64 E 117 59 28.87	PETAG	S 32 56 18.00 E 115 31 41.00	PKAWF	S 20 43 23.76 E 116 40 34.88
PBOEC	S 23 06 52.95 E 117 59 27.87	PETRL	S 17 12 16.01 E 135 21 34.46	PKAWG	S 20 39 27.39 E 116 32 54.58
PBOEF	S 23 06 51.50 E 117 50 34.81	PEWEE	S 17 55 56.56 E 146 30 05.45	PKAWH	S 20 42 30.48 E 116 49 03.79
PBOEH	S 23 10 44.63 E 117 43 03.86	PFTNF	S 36 07 38.58 E 149 10 45.09	PKAWI	S 20 43 57.12 E 116 35 16.80
PBOEI	S 23 03 59.57 E 117 55 01.89	PFTNH	S 36 14 19.22 E 149 11 53.72	PKAWM	S 20 42 50.49 E 116 45 52.96
PBOEM	S 23 09 43.43 E 117 46 07.64	PFTNI	S 36 03 44.59 E 149 11 52.78	PKGEF	S 30 49 30.63 E 121 34 11.19
PBOWD	S 23 19 50.85 E 117 34 34.99	PFTNM	S 36 12 31.04 E 149 09 20.31	PKGEH	S 30 46 42.66 E 121 25 28.93
PBOWE	S 23 16 57.13 E 117 29 11.89	PGVED	S 12 20 57.21 E 137 02 22.21	PKGEI	S 30 51 15.54 E 121 39 37.76
PBOWF	S 23 12 44.68 E 117 39 03.35	PGVEE	S 12 26 41.52 E 137 01 52.22	PKGEJ	S 30 47 26.65 E 121 43 23.70
PBOWG	S 23 11 17.31 E 117 30 18.18	PGVEF	S 12 20 07.18 E 136 53 52.47	PKGEK	S 30 53 00.45 E 121 45 04.43
PBOWH	S 23 17 22.96 E 117 48 58.45	PGVEG	S 12 28 11.57 E 136 56 12.48	PKGEL	S 30 56 16.21 E 121 39 35.06
PBOWI	S 23 14 50.91 E 117 34 07.66	PGVEH	S 12 15 05.57 E 136 47 45.78	PKGEM	S 30 47 45.72 E 121 28 44.72
PBOWM	S 23 10 38.45 E 117 43 58.96	PGVEI	S 12 23 28.27 E 136 57 56.97	PKGND	S 30 34 28.90 E 121 23 37.94
PCCND	S 12 03 13.10 E 096 39 26.49	PGVEM	S 12 17 01.61 E 136 50 06.77	PKGNE	S 30 31 38.98 E 121 29 24.79
PCCNE	S 11 57 57.90 E 096 41 50.72	PGVVA	S 12 12 05.68 E 136 36 33.03	PKGNF	S 30 41 37.64 E 121 28 18.56

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
PKGNG	S 30 35 22.74 E 121 34 28.14	PLMNI	S 22 02 54.99 E 114 06 12.75	POROR	S 13 34 46.24 E 098 58 47.76
PKGNI	S 30 49 36.55 E 121 27 25.48	PLMNM	S 22 12 55.73 E 114 05 29.28	PORTA	S 34 50 55.04 E 138 30 01.40
PKGNI	S 30 36 38.31 E 121 28 51.69	PLMSA	S 22 27 09.41 E 114 09 32.39	PORTS	S 38 01 12.20 E 144 54 13.66
PKGNM	S 30 46 36.96 E 121 27 45.40	PLMSB	S 22 30 08.07 E 114 04 14.40	POSOD	S 03 29 30.00 E 094 09 54.00
PKGSF	S 30 52 47.37 E 121 27 04.30	PLMSC	S 22 26 31.32 E 113 59 25.12	POSOX	S 10 13 30.00 E 143 55 36.00
PKGSH	S 30 44 56.33 E 121 25 29.88	PLMSF	S 22 20 07.36 E 114 04 57.99	POSTY	S 33 27 37.80 E 150 50 15.00
PKGSI	S 30 57 46.68 E 121 26 31.05	PLMSH	S 22 12 06.77 E 114 05 32.83	POSUM	S 31 05 53.34 E 156 47 00.47
PKGSM	S 30 47 48.06 E 121 27 37.52	PLMSI	S 22 25 07.71 E 114 04 36.20	POTIP	S 21 41 37.08 E 125 07 58.49
PKGSN	S 30 59 55.87 E 121 31 46.18	PLMSG	S 22 15 06.99 E 114 05 19.77	PPDND	S 20 16 46.59 E 118 24 59.67
PKGSO	S 31 02 45.99 E 121 25 57.77	PLUGA	S 35 36 26.56 E 154 41 19.83	PPDNE	S 20 11 09.30 E 118 26 18.63
PKGSP	S 30 59 02.00 E 121 20 53.22	PLUGG	S 27 09 52.01 E 153 11 39.88	PPDNF	S 20 18 32.92 E 118 33 30.19
PKGWA	S 30 47 30.53 E 121 12 20.66	PLUTO	S 22 57 22.52 E 149 40 52.88	PPDNG	S 20 10 23.84 E 118 32 21.30
PKGWB	S 30 41 56.59 E 121 10 40.62	PMPND	S 14 45 05.78 E 141 25 57.09	PPDNH	S 20 24 27.78 E 118 39 15.72
PKGWC	S 30 38 41.10 E 121 16 09.40	PMPNE	S 14 39 54.12 E 141 28 30.60	PPDNI	S 20 14 51.11 E 118 29 54.36
PKGWF	S 30 45 26.97 E 121 21 32.78	PMPNF	S 14 48 39.09 E 141 33 34.58	PPDNM	S 20 22 14.73 E 118 37 06.09
PKGWH	S 30 48 15.16 E 121 30 14.83	PMPNG	S 14 40 27.83 E 141 34 23.94	PPDSA	S 20 29 06.33 E 118 50 35.17
PKGWI	S 30 43 41.78 E 121 16 06.65	PMPNH	S 14 55 38.97 E 141 37 38.05	PPDSB	S 20 34 43.68 E 118 49 16.40
PKGWM	S 30 47 12.16 E 121 26 59.00	PMPNI	S 14 44 16.62 E 141 31 02.54	PPDSC	S 20 35 29.21 E 118 43 12.80
PKSEA	S 32 56 47.78 E 148 23 25.13	PMPNM	S 14 53 01.52 E 141 36 06.72	PPDSF	S 20 27 20.26 E 118 42 03.87
PKSEB	S 32 58 44.57 E 148 29 50.06	PMPNSA	S 15 03 04.51 E 141 47 31.34	PPDSH	S 20 21 25.48 E 118 36 18.14
PKSEC	S 33 04 29.43 E 148 29 51.76	PMPNSB	S 15 08 16.37 E 141 44 58.01	PPDSI	S 20 31 01.97 E 118 45 40.10
PKSEF	S 33 04 31.10 E 148 20 06.76	PMPNSC	S 15 07 42.94 E 141 39 03.88	PPDSM	S 20 23 38.55 E 118 38 27.74
PKSEH	S 33 08 33.21 E 148 13 17.69	PMPNSF	S 14 59 31.67 E 141 39 53.12	PPHND	S 31 47 43.30 E 115 55 40.14
PKSEI	S 33 01 37.92 E 148 24 58.57	PMPNSH	S 14 52 31.83 E 141 35 49.50	PPHNF	S 31 51 33.75 E 115 59 18.96
PKSEM	S 33 07 24.09 E 148 15 14.62	PMPNSI	S 15 03 54.04 E 141 42 25.51	PPHNH	S 31 58 22.24 E 115 57 20.05
PKSWD	S 33 19 08.34 E 148 05 05.85	PMPNSM	S 14 55 09.28 E 141 37 20.82	PPHNM	S 31 55 27.18 E 115 58 11.05
PKSWE	S 33 17 10.31 E 147 58 39.92	PMQND	S 31 12 12.20 E 152 53 25.52	PPHSA	S 32 05 05.13 E 115 50 31.36
PKSWF	S 33 11 25.40 E 148 08 26.06	PMQNE	S 31 11 34.39 E 152 51 25.01	PPHSF	S 32 02 09.80 E 115 56 13.69
PKSWG	S 33 11 25.40 E 147 58 40.23	PMQNF	S 31 21 08.73 E 152 55 02.99	PPHSH	S 31 53 29.68 E 115 51 17.80
PKSWH	S 33 06 48.98 E 148 16 13.96	PMQNG	S 31 17 48.61 E 153 04 50.82	PPHSI	S 32 06 03.19 E 115 55 05.52
PKSWI	S 33 14 17.95 E 148 03 33.15	PMQNH	S 31 29 50.97 E 152 56 12.29	PPHSM	S 31 57 47.22 E 115 57 30.27
PKSWM	S 33 08 32.74 E 148 13 18.50	PMQNI	S 31 16 47.67 E 152 57 56.72	PRANA	S 18 54 36.69 E 146 46 31.92
PKTND	S 14 05 02.56 E 129 23 08.42	PMQNM	S 31 25 29.79 E 152 52 09.12	PRAWN	S 33 57 50.66 E 151 22 45.67
PKTNE	S 14 00 22.88 E 129 26 36.45	PMQNT	S 31 28 06.39 E 152 50 24.67	PRICE	S 34 24 18.51 E 140 13 15.30
PKTNF	S 14 09 52.56 E 129 29 57.70	PMQSA	S 31 38 22.32 E 152 49 53.47	PROBO	S 22 00 32.00 E 149 57 04.27
PKTNG	S 14 01 57.96 E 129 32 16.80	PMQSB	S 31 38 01.34 E 152 43 46.84	PROST	S 35 33 36.00 E 143 14 48.00
PKTNH	S 14 17 28.30 E 129 32 38.81	PMQSC	S 31 33 41.30 E 152 40 20.54	PTNND	S 14 24 45.88 E 132 10 22.10
PKTNI	S 14 05 07.72 E 129 28 17.05	PMQSF	S 31 31 03.71 E 152 48 26.29	PTNNE	S 14 19 10.40 E 132 11 47.40
PKTNM	S 14 14 37.41 E 129 31 38.37	PMQSH	S 31 28 33.66 E 152 57 16.50	PTNNF	S 14 26 44.56 E 132 18 33.68
PKTSA	S 14 24 55.48 E 129 40 24.34	PMQSI	S 31 34 32.64 E 152 46 06.58	PTNNG	S 14 18 33.71 E 132 17 39.86
PKTSB	S 14 29 35.25 E 129 36 56.08	PMQSM	S 31 26 42.74 E 152 51 20.48	PTNNH	S 14 32 47.87 E 132 23 58.90
PKTSC	S 14 28 00.12 E 129 31 15.05	PMQST	S 31 23 50.60 E 152 52 23.40	PTNNI	S 14 22 57.48 E 132 15 10.51
PKTSF	S 14 20 05.60 E 129 33 34.66	PODEA	S 38 13 53.46 E 141 43 40.24	PTNNM	S 14 30 31.64 E 132 21 56.91
PKTSH	S 14 12 29.88 E 129 30 53.29	PODEB	S 38 18 26.31 E 141 48 07.04	PTNSA	S 14 37 48.93 E 132 34 54.59
PKTSI	S 14 24 50.43 E 129 35 15.25	PODEC	S 38 23 17.29 E 141 44 12.83	PTNSB	S 14 43 24.45 E 132 33 29.40
PKTSM	S 14 15 20.78 E 129 31 53.71	PODEF	S 38 18 53.75 E 141 35 25.52	PTNSC	S 14 44 01.19 E 132 27 36.29
PKUEA	S 15 47 40.24 E 128 56 18.28	PODEH	S 38 19 15.54 E 141 25 16.24	PTNSF	S 14 35 50.43 E 132 26 42.46
PKUEB	S 15 53 20.17 E 128 57 22.66	PODEI	S 38 18 40.03 E 141 41 46.29	PTNSH	S 14 29 47.18 E 132 21 17.10
PKUEC	S 15 56 14.94 E 128 52 14.56	PODEM	S 38 19 07.47 E 141 29 04.73	PTNSI	S 14 39 37.44 E 132 30 05.90
PKUEF	S 15 49 09.06 E 128 47 56.83	PODWD	S 38 24 23.82 E 141 12 49.31	PTNSM	S 14 32 03.41 E 132 23 19.08
PKUEH	S 15 43 28.05 E 128 40 01.55	PODWE	S 38 19 49.94 E 141 08 22.69	PUDIN	S 18 56 25.31 E 141 09 32.67
PKUEI	S 15 51 14.67 E 128 52 39.69	PODWF	S 38 19 24.32 E 141 21 04.47	PUDUR	S 24 23 55.02 E 146 29 22.12
PKUEM	S 15 47 03.36 E 128 43 14.06	PODWG	S 38 14 59.97 E 141 12 17.40	PUDYA	S 25 48 16.86 E 138 11 46.37
PKUWD	S 15 41 08.12 E 128 29 21.89	PODWH	S 38 19 02.84 E 141 31 13.79	PUGEL	S 19 49 38.99 E 156 13 28.06
PKUWE	S 15 35 27.50 E 128 30 22.18	PODWI	S 38 19 37.30 E 141 14 43.60	PUGUT	S 27 43 02.13 E 131 53 11.45
PKUWF	S 15 42 31.43 E 128 37 44.07	PODWM	S 38 19 11.00 E 141 27 25.31	PUKIN	S 12 34 19.61 E 131 08 19.85
PKUWG	S 15 34 25.82 E 128 36 13.01	POGAV	S 23 30 00.00 E 116 00 18.69	PULOL	S 24 27 16.15 E 136 45 43.78
PKUWH	S 15 48 10.38 E 128 43 37.95	POINT	S 37 55 42.00 E 144 45 18.00	PUMPA	S 31 52 06.00 E 147 05 48.00
PKUWI	S 15 38 59.50 E 128 34 03.06	POKEY	S 29 59 39.42 E 147 15 08.90	PUMRY	S 32 39 10.87 E 116 59 29.96
PKUWM	S 15 46 03.29 E 128 41 25.21	POKIP	S 29 02 18.00 E 114 01 18.00	PUPEB	S 14 23 17.19 E 146 14 34.22
PLCNA	S 34 22 39.37 E 135 54 24.65	POKOS	S 20 34 27.05 E 122 40 27.37	PUPIT	S 12 00 00.00 E 115 09 02.38
PLCNC	S 34 21 49.16 E 136 01 15.97	POLEV	S 26 55 13.16 E 138 10 09.32	PWRNA	S 30 55 40.98 E 136 44 48.59
PLCND	S 34 26 52.34 E 136 04 33.94	POLLI	S 35 44 13.08 E 148 35 55.30	PWRNC	S 30 52 52.89 E 136 50 37.85
PLCNF	S 34 30 46.54 E 135 55 51.09	POLSO	S 35 46 46.46 E 145 41 50.73	PWRND	S 30 56 38.24 E 136 55 40.79
PLCNH	S 34 37 56.41 E 135 51 30.70	POLUM	S 20 00 00.01 E 098 32 48.08	PWRNF	S 31 02 51.16 E 136 49 27.24
PLCNI	S 34 26 17.85 E 135 58 33.60	POLUX	S 31 11 45.00 E 115 33 06.60	PWRNH	S 31 10 47.84 E 136 48 09.85
PLCNM	S 34 35 15.23 E 135 53 08.43	POMOT	S 29 18 42.00 E 116 31 24.00	PWRNI	S 30 57 52.03 E 136 50 02.57
PLEDL	S 29 09 01.58 E 124 56 47.98	PONTI	S 15 48 01.15 E 121 29 58.16	PWRNM	S 31 07 50.29 E 136 48 51.84
PLEZN	S 34 47 03.71 E 139 04 23.62	PONYS	S 31 56 45.64 E 116 32 48.66	PXMND	S 10 15 06.41 E 105 35 41.59
PLMND	S 22 00 53.15 E 114 01 17.48	POODL	S 27 31 12.93 E 153 20 19.80	PXMNE	S 10 11 25.68 E 105 40 10.23
PLMNE	S 21 57 54.62 E 114 06 34.47	POONA	S 21 29 48.88 E 149 17 01.75	PXMNF	S 10 21 26.44 E 105 40 59.93
PLMNF	S 22 07 55.36 E 114 05 51.02	POPET	S 35 17 08.29 E 149 19 03.98	PXMNG	S 10 14 20.16 E 105 45 11.55
PLMNG	S 22 01 31.21 E 114 11 22.91	POPLA	S 35 13 36.00 E 148 16 00.00	PXMNH	S 10 29 27.04 E 105 41 39.73
PLMNH	S 22 15 55.95 E 114 05 16.22	PORKY	S 12 11 10.00 E 130 43 25.00	PXMNI	S 10 16 26.06 E 105 40 35.07

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
PXMNM	S 10 26 26.81 E 105 41 24.80	RENEH	S 34 12 30.93 E 140 37 29.69	ROMSI	S 26 43 08.81 E 148 44 08.18
PXMSA	S 10 39 11.53 E 105 47 15.46	RENEI	S 34 08 56.03 E 140 52 33.59	ROMSM	S 26 33 19.37 E 148 46 23.00
PXMSB	S 10 42 52.36 E 105 42 46.51	RENEM	S 34 11 41.50 E 140 40 58.40	RONAN	S 31 52 15.72 E 116 35 07.14
PXMSC	S 10 39 57.85 E 105 37 44.75	RENER	S 37 42 19.92 E 144 43 47.86	ROOKI	S 10 56 49.72 E 139 12 16.32
PXMSF	S 10 32 51.62 E 105 41 56.69	RENWA	S 34 19 49.90 E 140 27 13.73	ROOKS	S 25 27 59.71 E 129 41 35.25
PXMSH	S 10 24 51.02 E 105 41 16.87	RENWB	S 34 16 11.87 E 140 21 51.23	ROONY	S 28 31 32.57 E 153 36 14.41
PXMSI	S 10 37 51.99 E 105 42 21.59	RENWC	S 34 10 46.70 E 140 24 07.42	ROSMO	S 31 26 44.14 E 116 44 31.35
PXMSM	S 10 27 51.24 E 105 41 31.80	RENWF	S 34 13 28.14 E 140 33 27.65	ROTTA	S 13 12 18.78 E 125 14 33.73
QDIND	S 31 21 35.31 E 150 17 35.36	RENWH	S 34 11 16.37 E 140 42 44.23	ROWAN	S 26 30 13.55 E 153 30 44.65
QDINE	S 31 16 10.73 E 150 19 50.60	RENWI	S 34 14 50.14 E 140 27 39.53	ROWLO	S 26 08 48.29 E 150 54 51.35
QDINF	S 31 24 20.86 E 150 26 35.89	RENWM	S 34 12 05.87 E 140 39 15.57	ROXEY	S 37 27 44.93 E 144 42 24.99
QDING	S 31 16 08.52 E 150 26 31.89	REPAN	S 03 28 53.28 E 076 53 35.15	ROYAL	S 35 27 47.19 E 149 09 47.15
QDINH	S 31 31 41.77 E 150 32 41.68	RERAB	S 43 00 00.00 E 075 00 00.00	RTIEA	S 31 56 39.98 E 115 42 58.68
QDINI	S 31 20 15.80 E 150 23 13.08	RERON	S 35 04 06.00 E 125 00 00.00	RTIEB	S 32 00 26.56 E 115 44 52.22
QDINM	S 31 29 14.83 E 150 30 39.65	RETAL	S 29 27 34.96 E 117 05 44.15	RTIEC	S 32 04 11.97 E 115 42 55.44
QDISA	S 31 36 15.23 E 150 44 52.33	RETEP	S 28 29 56.43 E 135 00 39.52	RTIEF	S 32 00 24.02 E 115 36 38.28
QDISB	S 31 41 49.07 E 150 43 11.58	REVOP	S 30 33 12.54 E 116 37 54.40	RTIEH	S 32 00 21.30 E 115 28 24.36
QDISC	S 31 42 22.09 E 150 36 30.22	RHINO	S 27 25 43.00 E 152 46 04.00	RTIEI	S 32 00 25.46 E 115 41 20.53
QDISF	S 31 34 11.97 E 150 35 35.35	RIDAL	S 37 29 39.18 E 144 43 42.85	RTIEM	S 32 00 22.92 E 115 33 06.60
QDISH	S 31 28 05.95 E 150 29 31.20	RIDGE	S 27 44 36.00 E 133 27 36.00	RTIWD	S 32 04 59.74 E 115 18 09.08
QDISI	S 31 38 00.60 E 150 39 23.34	RIDLE	S 35 45 18.00 E 128 00 00.00	RTIWE	S 32 00 15.48 E 115 14 19.82
QDISM	S 31 30 23.23 E 150 31 47.67	RIGGA	S 31 57 28.34 E 115 31 30.24	RTIWF	S 32 00 20.46 E 115 26 05.41
QLPEA	S 26 32 45.41 E 144 29 36.74	RIGMI	S 32 12 05.05 E 163 00 00.00	RTIWH	S 31 55 34.75 E 115 18 14.79
QLPEB	S 26 37 41.25 E 144 32 53.70	RIKAB	S 34 44 02.38 E 137 39 02.68	RTIWI	S 32 03 04.56 E 115 28 51.26
QLPEC	S 26 42 09.38 E 144 28 51.18	RIKUS	S 38 01 32.00 E 146 53 43.00	RTIWM	S 32 00 18.11 E 115 20 12.61
QLPEF	S 26 36 58.39 E 144 21 45.90	RILEY	S 33 56 36.00 E 149 26 30.00	RUDEY	S 32 00 22.55 E 115 31 58.21
QLPEH	S 26 36 23.48 E 144 12 51.76	RILLA	S 29 31 54.00 E 122 00 54.00	RUFLE	S 27 23 09.33 E 152 23 26.71
QLPEI	S 26 37 19.93 E 144 27 19.78	RIPNA	S 14 00 00.00 E 158 25 00.00	RUGGA	S 37 01 54.00 E 135 00 00.00
QLPEM	S 26 36 36.64 E 144 16 12.05	RISMI	S 07 07 55.24 E 087 20 05.65	RUMIE	S 17 11 54.00 E 137 53 06.00
QLPWD	S 26 40 20.98 E 144 01 17.26	RISOL	S 34 13 11.13 E 151 12 57.28	RUNDA	S 36 19 47.34 E 147 43 42.53
QLPWE	S 26 35 24.07 E 143 58 00.67	RISON	S 27 52 08.00 E 152 52 43.00	RUNNOD	S 34 56 36.00 E 146 23 24.00
QLPWF	S 26 36 08.73 E 144 09 08.17	RIVET	S 34 16 50.70 E 150 25 49.10	RUNNUT	S 33 15 51.57 E 150 47 17.49
QLPWG	S 26 30 57.03 E 144 02 03.19	RMDEA	S 20 39 16.84 E 143 20 38.85	RUSAD	S 36 09 24.60 E 109 00 00.00
QLPWH	S 26 36 43.84 E 144 18 02.28	RMDEB	S 20 44 26.05 E 143 23 21.81	RUSAL	S 13 49 37.26 E 091 22 49.95
QLPWI	S 26 35 46.51 E 144 03 34.40	RMDEC	S 20 48 36.26 E 143 19 08.21	RUSL	S 30 49 09.79 E 133 40 23.25
QLPWM	S 26 36 30.74 E 144 14 41.98	RMDEF	S 20 42 55.84 E 143 12 48.92	RUSSO	S 34 18 50.54 E 139 10 58.57
QUAIL	S 11 52 45.17 E 130 15 34.68	RMDEH	S 20 41 43.20 E 143 04 22.77	RUVAP	S 19 58 58.77 E 143 11 25.01
QUIET	S 27 06 36.00 E 153 04 06.00	RMDEI	S 20 43 41.02 E 143 18 05.34	SABEK	S 18 13 20.47 E 138 52 57.35
QUINS	S 31 37 30.00 E 115 25 54.00	RMDEM	S 20 42 10.49 E 143 07 32.56	SADL	S 02 08 32.89 E 077 53 37.29
QUORN	S 32 21 36.00 E 138 11 06.00	RMDWD	S 20 44 51.01 E 142 53 00.15	SADUD	S 25 02 24.00 E 134 23 00.00
RACEV	S 20 30 30.82 E 141 15 22.12	RMDWE	S 20 39 41.02 E 142 50 17.59	SAFIR	S 13 33 28.84 E 106 57 34.29
RACHL	S 29 32 09.26 E 150 08 50.22	RMDWF	S 20 41 12.57 E 143 00 50.03	SAILA	S 19 22 00.00 E 120 34 30.00
RADLA	S 34 58 52.29 E 138 47 05.48	RMDWG	S 20 35 31.63 E 142 54 31.03	SAILS	S 28 06 31.00 E 153 35 47.00
RAFFS	S 31 39 41.00 E 115 37 37.00	RMDWH	S 20 42 25.35 E 143 09 16.14	SAILS	S 31 48 40.35 E 115 16 20.10
RAFFY	S 21 15 20.00 E 119 35 44.00	RMDWI	S 20 40 26.88 E 142 55 33.78	SAKEG	S 08 10 16.75 E 085 20 03.60
RAGER	S 12 23 53.21 E 132 16 06.33	RMDWM	S 20 41 58.11 E 143 06 06.33	SAKTO	S 18 59 43.93 E 116 40 23.14
RAILS	S 18 52 17.60 E 116 30 04.84	ROBBI	S 15 50 36.12 E 125 08 41.97	SALEM	S 41 52 36.00 E 146 17 36.00
RAINY	S 16 42 00.00 E 145 32 06.00	ROBET	S 35 45 23.13 E 142 30 58.47	SALIS	S 34 45 43.15 E 138 37 40.40
RAMON	S 27 13 54.00 E 153 00 00.00	ROBIN	S 12 50 46.75 E 131 26 04.93	SALLY	S 37 26 12.00 E 144 55 00.00
RAMSE	S 37 24 00.00 E 145 15 06.00	ROCEL	S 37 45 17.20 E 145 01 09.83	SALTY	S 34 47 48.64 E 138 23 12.79
RANGR	S 27 50 13.25 E 117 11 55.16	RODES	S 41 38 18.77 E 147 10 10.78	SAMMY	S 29 53 38.72 E 145 29 04.37
RANGU	S 31 53 02.84 E 115 30 33.12	ROESA	S 38 00 00.67 E 147 19 17.88	SAMSN	S 27 19 18.00 E 152 52 42.00
RARIE	S 25 52 06.00 E 117 33 18.00	ROGAS	S 34 49 54.73 E 136 00 00.00	SANDI	S 26 17 25.98 E 151 49 00.59
RARTI	S 20 29 59.99 E 134 37 49.21	ROGGS	S 35 03 40.90 E 138 54 20.68	SANDR	S 37 33 06.00 E 145 00 36.00
RASHI	S 38 14 11.82 E 147 25 19.06	ROGUE	S 34 35 48.16 E 138 05 26.58	SANDY	S 17 53 48.00 E 125 36 36.00
RASIN	S 34 52 33.00 E 150 49 25.20	ROHAN	S 39 14 26.74 E 144 09 46.35	SAPDA	S 12 00 00.00 E 111 25 36.00
RASKY	S 20 50 47.10 E 123 12 24.12	ROKDL	S 37 35 28.30 E 144 49 22.36	SAPED	S 31 21 07.31 E 141 00 25.66
RAVEN	S 36 54 35.50 E 144 12 39.93	ROKUU	S 28 11 03.31 E 149 40 07.64	SARAH	S 26 55 30.00 E 135 10 12.00
RAVON	S 31 35 39.44 E 116 31 51.16	ROLEY	S 32 07 30.00 E 116 03 36.00	SARAK	S 09 45 00.00 E 143 25 18.00
RAYMO	S 31 41 51.00 E 115 52 58.20	ROLFE	S 17 13 00.08 E 146 09 53.55	SARAP	S 32 55 06.80 E 163 00 00.00
RAYNA	S 34 38 12.13 E 138 36 22.32	ROLOB	S 31 47 34.62 E 116 14 54.16	SARIK	S 22 00 32.42 E 141 45 45.49
RAZZI	S 35 03 15.09 E 149 57 37.27	ROMND	S 26 19 32.46 E 148 44 11.26	SARMO	S 21 41 50.71 E 121 02 21.24
RECKS	S 31 37 54.52 E 115 28 58.59	ROMNE	S 26 17 15.51 E 148 50 02.73	SARRE	S 12 28 56.67 E 131 05 00.35
REDDO	S 13 04 31.22 E 131 04 02.89	ROMNF	S 26 27 04.92 E 148 47 48.48	SASRO	S 38 34 50.80 E 163 00 00.00
REDIL	S 31 52 22.40 E 116 05 28.94	ROMNG	S 26 21 26.11 E 148 54 25.96	SATCO	S 19 27 48.00 E 146 40 06.00
REEFE	S 11 00 00.00 E 143 15 30.00	ROMNH	S 26 34 56.48 E 148 46 00.82	SATNA	S 11 04 12.00 E 124 34 12.00
REEKN	S 27 21 06.00 E 153 15 00.00	ROMNI	S 26 22 10.17 E 148 48 55.65	SAVAN	S 19 24 12.00 E 141 41 00.00
REKSO	S 15 00 00.00 E 115 08 19.27	ROMNM	S 26 31 59.64 E 148 46 41.21	SAVER	S 27 31 10.72 E 154 03 35.69
RELAY	S 31 46 35.00 E 115 58 37.00	ROMPA	S 36 27 00.00 E 131 30 00.00	SBKWA	S 34 02 19.00 E 150 41 30.00
REMOB	S 24 27 21.89 E 117 18 45.66	ROMSA	S 26 45 46.47 E 148 48 53.59	SBKWB	S 33 49 12.79 E 150 48 22.94
RENED	S 34 03 56.26 E 140 52 59.25	ROMSB	S 26 48 03.44 E 148 43 00.67	SBKWF	S 33 53 05.28 E 150 54 30.52
RENEE	S 34 07 32.88 E 140 58 20.91	ROMSC	S 26 43 52.53 E 148 38 36.76	SBKWH	S 33 51 03.57 E 150 57 29.75
RENEF	S 34 10 18.90 E 140 46 46.09	ROMSF	S 26 38 14.09 E 148 45 15.63	SBKWI	S 33 51 26.63 E 150 50 47.75
RENEG	S 34 12 59.34 E 140 56 05.85	ROMSH	S 26 30 22.53 E 148 47 03.38	SBKWM	S 33 54 43.81 E 150 58 13.42

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
SCAPA	S 34 13 39.96 E 148 14 43.94	SGEEH	S 28 01 50.41 E 148 33 28.56	SNBSC	S 11 36 36.59 E 130 45 36.63
SCARR	S 27 41 44.59 E 123 39 43.29	SGEEI	S 28 08 27.89 E 148 46 08.05	SNBSF	S 11 28 41.02 E 130 43 22.31
SCATZ	S 32 39 18.00 E 150 15 18.00	SGEEM	S 28 03 22.24 E 148 36 23.69	SNBSH	S 11 23 34.64 E 130 37 04.92
SCBEA	S 35 22 18.94 E 149 29 56.37	SGEWD	S 28 00 45.10 E 148 20 58.96	SNBSI	S 11 31 52.42 E 130 47 18.29
SCBEB	S 35 30 19.88 E 149 29 08.11	SGEWE	S 27 55 00.69 E 148 20 29.47	SNBSM	S 11 25 29.55 E 130 39 26.42
SCBEC	S 35 32 26.85 E 149 19 38.64	SGEWF	S 28 00 07.43 E 148 30 12.35	SNELY	S 38 34 23.00 E 150 22 17.00
SCBEF	S 35 22 38.73 E 149 17 50.65	SGEWG	S 27 52 38.44 E 148 26 22.95	SNICK	S 12 34 42.00 E 131 44 36.00
SCBEH	S 35 24 05.63 E 149 09 36.93	SGEWH	S 28 04 12.34 E 148 37 59.32	SNOKL	S 12 25 25.63 E 130 38 50.00
SCBEI	S 35 25 51.00 E 149 22 32.66	SGEWI	S 27 57 34.15 E 148 25 20.80	SNOOD	S 15 09 30.21 E 134 23 07.29
SCBEM	S 35 18 47.76 E 149 12 12.72	SGEWM	S 28 02 40.55 E 148 35 04.14	SNOPY	S 29 05 00.01 E 154 10 22.60
SCBSD	S 35 31 57.41 E 149 18 34.53	SHABY	S 22 41 07.02 E 150 50 11.28	SNOWY	S 36 32 06.00 E 147 50 42.00
SCBSE	S 35 35 24.81 E 149 11 40.05	SHADY	S 26 47 53.97 E 120 57 30.28	SOAPY	S 37 11 57.60 E 144 35 48.05
SCBSF	S 35 24 53.83 E 149 11 40.02	SHANA	S 12 36 44.99 E 130 15 05.22	SOCAR	S 13 13 17.30 E 133 19 56.88
SCBSG	S 35 31 57.43 E 149 04 45.55	SHANO	S 27 28 24.44 E 152 23 59.54	SOFAL	S 33 00 06.00 E 149 46 24.00
SCBSH	S 35 13 03.45 E 149 13 35.30	SHARK	S 34 04 55.66 E 152 33 55.84	SOFIE	S 39 19 01.21 E 144 35 34.88
SCBSI	S 35 29 54.30 E 149 11 40.04	SHAWN	S 23 44 23.71 E 134 03 51.86	SOKAL	S 31 59 55.72 E 116 06 09.77
SCBSM	S 35 19 53.36 E 149 11 40.01	SHAZA	S 33 39 39.74 E 152 00 54.31	SOLIH	S 02 48 44.00 E 077 23 37.00
SCHEE	S 22 59 06.17 E 128 52 06.23	SHEED	S 37 43 50.88 E 144 54 52.78	SOLLI	S 20 29 58.26 E 131 15 45.25
SCNWA	S 34 12 35.84 E 150 30 56.95	SHEPO	S 12 06 38.19 E 130 18 14.72	SOLUS	S 32 28 54.07 E 116 16 41.32
SCNWB	S 34 10 10.38 E 150 24 40.96	SHEPP	S 10 35 58.00 E 129 09 20.00	SOMEL	S 37 42 50.27 E 144 32 58.58
SCNWC	S 34 04 27.03 E 150 25 17.00	SHERI	S 11 58 10.69 E 130 24 20.37	SONIA	S 34 04 13.32 E 151 13 11.00
SCNWF	S 34 05 09.41 E 150 35 06.37	SHILL	S 34 46 18.00 E 150 44 46.80	SOOTY	S 27 24 30.60 E 152 36 44.40
SCNWH	S 34 11 09.73 E 150 37 59.46	SHINN	S 19 10 42.00 E 140 17 18.00	SOPAT	S 16 16 34.41 E 113 00 29.39
SCNWI	S 34 07 40.01 E 150 29 53.81	SHNAB	S 27 24 45.60 E 152 36 03.00	SORCE	S 30 27 16.62 E 147 35 28.66
SCNWM	S 34 02 38.75 E 150 40 18.21	SHORE	S 33 42 10.80 E 151 18 37.89	SORTI	S 31 49 15.46 E 151 52 45.01
SCOEA	S 32 08 38.03 E 151 07 04.63	SHTNA	S 36 12 40.27 E 145 20 34.77	SORTU	S 32 09 54.00 E 120 38 54.00
SCOEB	S 32 14 20.59 E 151 06 18.26	SHTNC	S 36 10 17.67 E 145 27 01.83	SOSIJ	S 34 10 20.21 E 151 14 05.21
SCOEC	S 32 15 40.53 E 150 59 43.62	SHTND	S 36 14 23.49 E 145 31 59.88	SPARK	S 28 54 15.35 E 153 40 41.76
SCOEF	S 32 07 01.52 E 150 56 36.86	SHTNF	S 36 20 08.39 E 145 24 46.24	SPARO	S 18 03 19.45 E 146 13 52.05
SCOEH	S 32 10 00.76 E 150 50 33.70	SHTNH	S 36 25 35.89 E 145 15 48.45	SPEAR	S 20 20 48.00 E 137 44 36.00
SCOEI	S 32 11 01.12 E 151 01 53.83	SHTNI	S 36 15 13.03 E 145 25 54.07	SPEER	S 27 36 17.14 E 131 55 30.48
SCOEM	S 32 03 01.71 E 150 51 20.35	SHTNM	S 36 25 03.74 E 145 23 38.33	SPENA	S 34 15 41.52 E 136 54 26.77
SCOTI	S 21 19 25.28 E 133 27 29.10	SHTNT	S 36 28 00.95 E 145 22 57.52	SPEWD	S 28 41 39.36 E 151 44 34.08
SCOTT	S 27 52 06.00 E 153 48 00.00	SHTPT	S 16 45 00.00 E 145 50 00.00	SPEWE	S 28 36 52.64 E 151 40 56.47
SCOUT	S 31 37 43.20 E 115 50 59.40	SHUTL	S 32 39 44.40 E 152 04 58.80	SPEWF	S 28 37 05.14 E 151 52 18.07
SCRNA	S 31 07 51.71 E 119 07 26.14	SHYNN	S 28 33 47.52 E 115 15 40.29	SPEWG	S 28 32 14.19 E 151 44 47.32
SCRNC	S 31 02 16.22 E 119 08 59.18	SIDER	S 12 47 58.52 E 129 35 50.72	SPEWH	S 28 37 15.04 E 152 01 23.36
SCRND	S 31 01 36.50 E 119 15 37.07	SIFRA	S 29 48 04.91 E 156 12 24.55	SPEWI	S 28 36 58.89 E 151 46 37.27
SCRNF	S 31 09 45.79 E 119 16 43.30	SIGUL	S 34 59 36.54 E 138 16 38.67	SPEWM	S 28 37 11.40 E 151 57 58.87
SCRNH	S 31 15 45.11 E 119 22 55.48	SIIEA	S 09 27 13.89 E 142 49 52.11	SPIDR	S 37 48 16.90 E 142 18 55.94
SCRNI	S 31 06 01.06 E 119 12 51.09	SIIEB	S 09 32 57.52 E 142 49 13.60	SPIES	S 23 53 38.18 E 133 42 28.44
SCRNM	S 31 13 30.40 E 119 20 35.82	SIIEC	S 09 34 19.07 E 142 43 35.09	SPITY	S 31 04 33.00 E 116 00 30.00
SCRUB	S 26 38 18.46 E 116 44 04.42	SIIEF	S 09 26 19.19 E 142 41 37.86	SPLIZ	S 27 36 59.00 E 153 07 56.00
SCUBY	S 16 05 42.00 E 129 54 12.00	SIIEH	S 09 26 56.34 E 142 37 02.18	SPODD	S 38 49 27.54 E 141 47 45.17
SCULN	S 35 03 38.34 E 148 53 26.61	SIIEI	S 09 29 38.38 E 142 45 25.69	SPOTA	S 34 04 31.41 E 137 44 36.69
SDUEA	S 32 01 36.57 E 148 43 35.01	SIIEM	S 09 22 59.96 E 142 37 50.10	SPRIG	S 10 18 51.89 E 125 33 31.28
SDUEB	S 32 03 26.58 E 148 49 58.77	SILVN	S 34 27 37.29 E 140 14 45.01	SPUDO	S 31 49 27.94 E 116 11 13.33
SDUEC	S 32 09 11.35 E 148 50 08.88	SIMAS	S 20 14 28.15 E 143 17 36.63	SQARE	S 31 57 15.36 E 115 39 39.81
SDUEF	S 32 09 23.29 E 148 40 30.07	SIMMO	S 28 17 10.86 E 153 35 00.93	SQUIRE	S 37 46 20.98 E 144 51 15.52
SDUEH	S 32 14 08.03 E 148 32 54.21	SIMON	S 38 08 04.68 E 144 38 28.17	SRNNA	S 41 55 52.18 E 145 14 36.30
SDUEI	S 32 06 25.02 E 148 45 14.57	SIMOS	S 26 43 48.00 E 153 04 18.00	SRNNC	S 41 53 34.15 E 145 21 38.56
SDUEM	S 32 12 21.31 E 148 35 45.39	SINNK	S 27 12 39.17 E 153 13 40.03	SRNND	S 41 57 43.04 E 145 26 57.12
SDUWD	S 32 24 15.98 E 148 26 00.72	SIRUS	S 29 07 44.89 E 168 05 50.16	SRNNF	S 42 03 22.68 E 145 19 00.40
SDUWE	S 32 22 24.82 E 148 19 35.90	SISTA	S 30 57 11.42 E 119 09 46.77	SRNNH	S 42 12 12.30 E 145 16 37.35
SDUWF	S 32 16 29.56 E 148 29 07.31	SIZZL	S 34 06 53.80 E 151 13 11.19	SRNNI	S 41 58 28.42 E 145 20 19.58
SDUWG	S 32 16 39.97 E 148 19 27.61	SKIPA	S 26 54 23.46 E 126 22 07.08	SRNNM	S 42 08 16.92 E 145 17 41.01
SDUWH	S 32 11 44.91 E 148 36 43.46	SLASH	S 22 23 00.00 E 144 49 54.00	SSYEF	S 33 54 57.75 E 151 16 51.26
SDUWI	S 32 19 27.28 E 148 24 21.76	SLICK	S 35 27 55.56 E 149 25 36.82	SSYEH	S 33 57 05.11 E 151 07 51.85
SDUWM	S 32 13 31.76 E 148 33 52.41	SLIVA	S 28 20 42.00 E 152 01 06.00	SSYEM	S 33 56 16.04 E 151 11 20.05
SEALD	S 12 41 07.41 E 130 57 30.36	SLOAN	S 35 49 19.15 E 153 35 58.16	SSYNF	S 33 51 22.88 E 151 09 51.17
SEDAN	S 34 34 06.00 E 139 18 30.00	SLOOP	S 35 30 00.83 E 135 00 00.00	SSYNH	S 34 02 17.51 E 151 16 59.35
SEEKR	S 23 57 13.68 E 133 58 07.07	SMALL	S 28 11 45.82 E 153 31 33.15	SSYNI	S 33 49 25.39 E 151 09 20.67
SEEMO	S 30 52 20.66 E 125 52 15.90	SMIEA	S 40 41 23.05 E 145 18 09.31	SSYNM	S 33 57 05.93 E 151 11 19.83
SELVA	S 09 27 07.43 E 126 40 47.25	SMIEB	S 40 44 36.92 E 145 24 22.46	SSYSF	S 34 04 56.30 E 151 13 22.41
SEMAJ	S 28 40 36.00 E 153 53 42.00	SMIEC	S 40 50 11.17 E 145 22 30.33	SSYSH	S 33 53 50.83 E 151 16 32.60
SENNA	S 17 00 00.00 E 143 07 18.00	SMIEF	S 40 48 09.21 E 145 12 03.74	SSYSM	S 33 58 14.77 E 151 11 37.70
SERVE	S 12 35 27.32 E 131 07 04.04	SMIEH	S 40 50 58.09 E 145 02 11.82	SSYWF	S 33 57 42.40 E 151 05 13.22
SETER	S 24 42 53.28 E 154 16 06.95	SMIEI	S 40 46 23.23 E 145 18 13.26	SSYWH	S 33 55 48.40 E 151 13 17.18
SETGO	S 13 40 29.88 E 134 17 27.91	SMIEM	S 40 49 54.86 E 145 05 53.89	SSYWM	S 33 56 37.51 E 151 09 49.01
SEVSI	S 30 50 59.65 E 123 37 37.00	SMIFF	S 42 09 30.80 E 156 38 47.52	STAIR	S 22 41 28.91 E 147 58 53.01
SGEEA	S 28 05 16.78 E 148 50 30.05	SMOKA	S 26 52 32.74 E 152 37 55.76	STAKE	S 27 22 30.00 E 153 00 30.00
SGEEB	S 28 11 00.46 E 148 51 00.58	SNAPA	S 19 10 00.00 E 120 26 36.00	STANG	S 31 13 37.20 E 115 39 45.60
SGEEC	S 28 13 23.58 E 148 45 05.74	SNBSA	S 11 29 19.11 E 130 51 41.33	STANZ	S 35 07 11.30 E 138 30 02.22
SGEEF	S 28 05 55.15 E 148 41 15.76	SNBSB	S 11 35 03.75 E 130 51 14.35	STEEL	S 24 19 54.00 E 135 12 36.00



WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
STEFF	S 35 56 17.39 E 142 18 15.01	SWIFT	S 18 21 13.74 E 146 48 00.99	TEFEH	S 21 42 07.87 E 122 12 26.94
STEVO	S 37 47 30.00 E 144 46 12.00	SYBIL	S 12 34 31.90 E 130 46 20.61	TEFEI	S 21 48 25.05 E 122 23 26.67
STHEA	S 41 26 54.05 E 148 32 49.00	SYDNF	S 33 50 44.80 E 151 08 59.75	TEFEM	S 21 43 42.23 E 122 15 11.79
STHEB	S 41 22 47.79 E 148 38 09.86	SYDNH	S 34 00 48.59 E 151 10 00.75	TEFWD	S 21 40 21.50 E 121 59 42.85
STHEC	S 41 17 37.73 E 148 34 53.05	SYDNM	S 33 55 48.40 E 151 10 18.40	TEFWE	S 21 34 36.74 E 121 59 20.82
STHEF	S 41 21 09.57 E 148 25 03.73	SYDSF	S 34 03 30.74 E 151 12 18.47	TEFWF	S 21 39 51.84 E 122 08 29.58
STHEH	S 41 16 23.18 E 148 23 06.00	SYDSH	S 33 53 24.70 E 151 08 05.58	TEFWG	S 21 32 19.38 E 122 04 59.57
STHEI	S 41 21 58.87 E 148 31 36.71	SYDSM	S 33 57 51.40 E 151 10 50.31	TEFWH	S 21 44 03.56 E 122 15 49.06
STHEM	S 41 20 19.91 E 148 18 30.91	SYNOT	S 42 13 12.00 E 146 53 48.00	TEFWI	S 21 37 14.35 E 122 03 55.11
STILE	S 33 11 54.00 E 121 50 36.00	TABAL	S 28 15 15.19 E 159 10 18.52	TEFWM	S 21 42 29.20 E 122 13 04.20
STIRL	S 35 03 46.51 E 138 44 45.17	TABLO	S 36 58 01.55 E 151 59 04.55	TEKAN	S 12 00 00.00 E 150 43 30.00
STOES	S 13 26 54.87 E 131 47 04.52	TAGOD	S 39 54 30.00 E 135 00 00.00	TEKEP	S 30 29 24.00 E 163 00 00.00
STONE	S 38 00 36.00 E 143 06 48.00	TAITE	S 38 31 32.00 E 144 28 25.00	TEKUP	S 38 15 24.00 E 130 00 00.00
STORK	S 38 02 33.16 E 146 42 20.28	TALAG	S 35 06 52.74 E 149 12 15.48	TEMEF	S 34 22 40.21 E 147 36 12.99
STUIE	S 12 46 37.93 E 131 29 04.96	TAMBO	S 37 27 36.00 E 147 49 36.00	TEMEH	S 34 26 26.92 E 147 27 41.37
STURT	S 28 43 26.68 E 117 57 49.39	TAMEA	S 25 52 22.22 E 150 07 42.19	TEMEI	S 34 20 18.22 E 147 41 32.36
STWEA	S 31 09 47.01 E 151 05 11.68	TAMEB	S 25 58 06.22 E 150 07 10.70	TEMEK	S 34 15 20.78 E 147 40 40.61
STWEB	S 31 15 28.43 E 151 04 17.37	TAMEC	S 25 59 36.98 E 150 01 02.23	TEMEL	S 34 17 56.00 E 147 46 51.43
STWEC	S 31 16 41.27 E 150 57 44.50	TAMED	S 14 55 12.00 E 144 05 06.00	TEMEM	S 34 25 01.97 E 147 30 53.31
STWEF	S 31 08 39.93 E 150 55 43.98	TAMEF	S 25 51 41.41 E 149 58 39.06	TEMEN	S 34 23 38.36 E 147 46 02.70
STWEH	S 31 03 12.72 E 150 48 54.16	TAMEH	S 25 46 33.50 E 149 51 50.13	TEMNA	S 34 12 27.56 E 147 27 32.56
STWEI	S 31 12 04.25 E 151 00 00.52	TAMEI	S 25 54 53.82 E 150 02 54.82	TEMNC	S 34 13 54.83 E 147 38 44.31
STWEM	S 31 05 15.47 E 150 51 27.75	TAMEM	S 25 48 29.01 E 149 54 23.41	TEMND	S 34 09 55.96 E 147 33 45.14
STWWD	S 30 59 32.37 E 150 36 17.27	TAMMI	S 34 06 07.59 E 150 49 41.26	TEMNF	S 34 19 49.78 E 147 31 53.32
STWWE	S 30 53 50.44 E 150 37 12.67	TAMOD	S 33 16 06.00 E 118 28 18.00	TEMNH	S 34 28 44.21 E 147 30 12.46
STWWF	S 31 00 40.15 E 150 45 43.44	TAMWD	S 25 43 51.72 E 149 40 07.83	TEMNI	S 34 14 52.87 E 147 32 49.26
STWWG	S 30 52 38.31 E 150 43 43.40	TAMWE	S 25 38 07.73 E 149 40 39.71	TEMNM	S 34 24 46.69 E 147 30 57.33
STWWH	S 31 06 07.51 E 150 52 32.93	TAMWF	S 25 44 32.83 E 149 49 10.12	TEMPL	S 37 52 33.67 E 144 29 41.43
STWWI	S 30 57 15.37 E 150 41 27.90	TAMWG	S 25 36 37.09 E 149 46 47.10	TEMWE	S 34 26 55.53 E 147 14 32.58
STWWM	S 31 04 04.79 E 150 49 59.28	TAMWH	S 25 49 40.85 E 149 55 58.84	TEMWF	S 34 27 54.70 E 147 24 22.82
SUANN	S 18 14 35.56 E 129 59 51.32	TAMWI	S 25 41 20.29 E 149 44 54.86	TEMWG	S 34 32 37.74 E 147 13 42.37
SUBUM	S 37 48 42.00 E 135 00 00.00	TAMWM	S 25 47 45.38 E 149 53 25.50	TEMWH	S 34 24 08.18 E 147 32 54.70
SUGAB	S 28 46 29.03 E 119 13 12.20	TANEM	S 15 31 08.03 E 110 07 12.18	TEMWI	S 34 30 16.22 E 147 19 02.67
SULLY	S 35 06 29.18 E 138 28 17.25	TANTA	S 35 52 50.43 E 148 31 54.25	TEMWJ	S 34 35 13.71 E 147 19 54.00
SULON	S 39 51 30.66 E 163 00 00.00	TANYA	S 19 33 36.00 E 138 58 00.00	TEMWM	S 34 25 33.18 E 147 29 42.82
SUNIL	S 16 56 00.00 E 127 53 54.00	TAPAX	S 36 18 18.00 E 125 00 00.00	TENCH	S 14 53 46.62 E 148 03 41.82
SUNIX	S 14 11 16.34 E 134 55 25.97	TAPIO	S 32 57 53.25 E 152 04 16.86	TEPPA	S 12 15 18.80 E 130 41 40.74
SUNKI	S 38 18 42.00 E 075 00 00.00	TARAK	S 20 45 45.42 E 112 03 06.60	TERIK	S 24 37 54.00 E 145 03 54.00
SUNNY	S 16 36 06.00 E 145 46 30.00	TARAL	S 34 30 06.60 E 149 56 00.50	TEROS	S 05 29 16.00 E 075 23 12.00
SUPER	S 27 20 57.00 E 152 44 07.00	TARES	S 22 41 06.30 E 149 58 26.28	TERRA	S 28 14 24.00 E 153 33 12.00
SURFF	S 18 52 13.58 E 115 24 00.34	TAREX	S 37 18 21.46 E 145 54 51.10	TESSI	S 29 27 03.66 E 152 18 45.20
SUZAN	S 34 07 52.03 E 151 14 08.45	TAROR	S 31 00 00.00 E 142 48 44.47	TEXAN	S 19 00 42.00 E 137 29 24.00
SUZIE	S 38 04 06.00 E 145 12 24.00	TARUN	S 12 00 00.00 E 116 55 04.36	TEZZA	S 27 04 27.39 E 152 12 58.89
SWAGY	S 24 00 00.00 E 110 00 00.00	TASEG	S 32 11 35.42 E 144 10 47.39	TGMEA	S 28 05 47.58 E 144 01 43.01
SWAGZ	S 16 45 30.27 E 145 33 30.09	TASHA	S 20 06 44.12 E 140 23 51.66	TGMEB	S 28 11 19.74 E 143 59 58.53
SWALO	S 17 47 12.45 E 146 49 39.25	TASMA	S 39 59 59.00 E 146 04 22.00	TGMEC	S 28 11 46.16 E 143 53 29.91
SWANN	S 32 00 45.41 E 115 49 11.02	TATAP	S 10 45 39.54 E 133 15 20.64	TGMEF	S 28 03 34.94 E 143 52 47.68
SWATT	S 12 25 41.17 E 130 38 03.24	TATOD	S 10 59 06.00 E 102 58 42.00	TGMEH	S 27 57 22.83 E 143 47 03.74
SWEED	S 26 13 30.95 E 138 23 23.65	TATUK	S 19 25 45.61 E 126 38 46.70	TGMEI	S 28 07 27.39 E 143 56 22.97
SWELL	S 36 08 02.46 E 139 39 04.10	TAVEV	S 24 15 36.05 E 143 26 33.20	TGMEM	S 27 59 42.40 E 143 49 12.64
SWENI	S 20 48 09.86 E 116 52 55.49	TAYER	S 16 17 44.65 E 117 21 42.29	TGTWA	S 20 31 28.46 E 130 06 46.32
SWESS	S 32 06 24.00 E 115 45 36.00	TBBNA	S 34 11 40.49 E 135 55 27.23	TGTWB	S 20 25 46.70 E 130 05 53.05
SWETI	S 12 35 55.37 E 130 42 03.69	TBBNC	S 34 06 59.83 E 135 59 28.06	TGTWC	S 20 23 02.57 E 130 11 15.44
SWGED	S 34 59 47.76 E 147 38 51.61	TBBND	S 34 08 31.69 E 136 06 07.64	TGTWF	S 20 30 16.53 E 130 15 24.35
SWGEE	S 35 02 24.19 E 147 45 04.37	TBBNF	S 34 16 26.32 E 136 03 29.82	TGTWH	S 20 33 52.02 E 130 23 01.79
SWGEF	S 35 07 06.34 E 147 34 18.90	TBBNH	S 34 23 59.48 E 136 06 43.61	TGTWI	S 20 28 01.68 E 130 10 38.63
SWGEG	S 35 08 06.76 E 147 44 13.18	TBBNI	S 34 11 43.08 E 136 01 28.89	TGTWM	S 20 32 31.25 E 130 20 10.21
SWGEH	S 35 10 51.37 E 147 25 41.63	TBBNM	S 34 21 09.56 E 136 05 30.87	THENA	S 28 13 22.07 E 142 00 21.52
SWGEL	S 35 04 45.39 E 147 39 41.79	TEANO	S 24 32 19.34 E 118 08 19.78	THOMO	S 19 41 29.40 E 145 14 25.92
SWGEM	S 35 09 27.06 E 147 28 55.70	TEBUR	S 23 28 28.44 E 163 00 00.00	THRUM	S 40 30 01.65 E 144 52 51.23
SWGWA	S 35 20 15.59 E 147 16 17.32	TEDDY	S 14 44 24.00 E 141 34 36.00	TIABB	S 12 39 32.62 E 130 46 00.94
SWGWB	S 35 17 38.40 E 147 10 03.07	TEENA	S 37 47 06.00 E 144 27 00.00	TIBAL	S 35 00 17.83 E 138 43 15.52
SWGWC	S 35 11 56.40 E 147 10 55.43	TEENC	S 21 42 32.49 E 140 41 07.36	TIBNA	S 29 16 43.45 E 142 05 19.71
SWGWF	S 35 12 29.49 E 147 21 55.51	TEEND	S 21 37 05.86 E 140 43 07.88	TIBNC	S 29 16 18.91 E 142 10 33.13
SWGWH	S 35 08 44.69 E 147 30 33.09	TEENE	S 21 36 59.86 E 140 49 17.32	TIBND	S 29 20 28.90 E 142 12 46.95
SWGWI	S 35 15 17.97 E 147 15 26.99	TEENF	S 21 45 13.22 E 140 49 26.67	TIBNF	S 29 23 16.17 E 142 05 59.59
SWGWM	S 35 10 09.06 E 147 27 19.09	TEENH	S 21 52 07.16 E 140 54 49.11	TIBNH	S 29 28 29.01 E 142 02 34.03
SWHEA	S 35 17 59.62 E 143 47 13.14	TEENI	S 21 41 09.57 E 140 46 17.19	TIBNI	S 29 19 47.56 E 142 08 16.44
SWHEB	S 35 22 45.05 E 143 51 08.97	TEENM	S 21 49 16.69 E 140 52 36.24	TIBNM	S 29 26 44.47 E 142 03 42.59
SWHEC	S 35 27 24.24 E 143 47 02.06	TEEVE	S 32 00 30.00 E 116 04 24.00	TICAL	S 12 00 00.01 E 151 22 31.10
SWHEF	S 35 22 35.49 E 143 38 55.33	TEFEA	S 21 45 17.31 E 122 27 38.66	TIEGA	S 35 03 30.00 E 142 12 36.00
SWHEH	S 35 22 27.69 E 143 29 08.43	TEFEB	S 21 51 02.00 E 122 28 01.84	TIGGA	S 27 43 36.78 E 141 04 47.12
SWHEI	S 35 22 40.27 E 143 45 02.15	TEFEC	S 21 53 20.14 E 122 22 22.73	TILDA	S 38 14 00.04 E 161 53 57.53
SWHEM	S 35 22 30.71 E 143 32 48.52	TEFEF	S 21 45 47.98 E 122 18 51.67	TILLI	S 31 49 40.76 E 137 04 30.32

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
TIMBO	S 32 10 23.46 E 151 27 41.58	TOODY	S 31 47 30.78 E 116 11 29.52	TWBEB	S 27 40 49.87 E 152 10 10.74
TIMET	S 19 07 40.98 E 116 19 17.08	TOOKI	S 33 16 03.41 E 151 33 48.67	TWBEC	S 27 43 05.61 E 152 04 14.15
TIMMI	S 21 55 20.94 E 130 39 34.36	TOONA	S 28 54 21.18 E 155 22 14.75	TWBEP	S 27 35 32.20 E 152 00 36.77
TIMMY	S 32 07 06.00 E 115 54 48.00	TOREN	S 34 53 37.92 E 138 26 06.83	TWBEH	S 27 36 09.54 E 151 52 48.83
TINAH	S 21 36 18.00 E 141 45 18.00	TOREX	S 07 24 00.00 E 133 35 30.00	TWBEL	S 27 38 11.12 E 152 05 23.64
TINDA	S 27 57 17.97 E 115 39 30.97	TORIA	S 17 58 11.00 E 145 06 49.89	TWBEM	S 27 32 53.13 E 151 55 50.13
TINEN	S 12 40 08.87 E 130 56 16.28	TORRA	S 31 25 26.97 E 152 07 14.08	TWBWD	S 27 30 42.55 E 151 39 14.07
TINGL	S 27 33 31.32 E 153 12 39.41	TOSAS	S 12 00 00.00 E 147 05 54.00	TWBWE	S 27 25 00.60 E 151 38 19.21
TIPAM	S 19 30 00.01 E 114 14 56.54	TOTTY	S 17 14 24.00 E 145 38 36.00	TWBWF	S 27 29 32.44 E 151 48 20.91
TMONA	S 21 40 49.34 E 139 43 35.36	TOUDA	S 27 14 15.41 E 140 11 06.50	TWBWG	S 27 22 17.88 E 151 43 59.76
TMONC	S 21 35 26.50 E 139 45 47.10	TRAIL	S 15 44 48.36 E 145 41 02.24	TWBWH	S 27 35 51.28 E 151 45 28.91
TMOND	S 21 35 31.68 E 139 51 56.18	TRAVI	S 12 59 18.71 E 130 32 25.89	TWBWI	S 27 27 16.61 E 151 43 19.96
TMONF	S 21 43 44.97 E 139 51 48.44	TREBL	S 26 51 30.00 E 136 32 18.00	TWBWM	S 27 31 48.09 E 151 53 22.06
TMONH	S 21 50 23.58 E 139 56 38.01	TREES	S 32 00 00.00 E 110 00 00.00	TWBWT	S 27 32 28.75 E 151 54 52.45
TMONI	S 21 39 35.77 E 139 48 47.69	TREND	S 31 40 27.81 E 152 38 08.71	TWIST	S 15 44 06.00 E 125 02 06.00
TMONM	S 21 47 54.12 E 139 54 49.37	TRENE	S 31 42 10.04 E 152 43 56.38	TYERS	S 37 54 36.00 E 148 10 54.00
TMOSE	S 21 56 16.42 E 140 07 01.46	TRENF	S 31 49 15.62 E 152 35 38.96	TYGON	S 34 02 02.75 E 148 16 23.37
TMOSF	S 21 53 21.19 E 139 58 47.24	TRENG	S 31 47 07.05 E 152 45 56.76	UBNIS	S 08 16 18.00 E 080 00 00.00
TMOSG	S 22 01 39.15 E 140 04 50.11	TRENH	S 31 49 16.15 E 152 27 42.24	UGAVI	S 23 25 15.22 E 124 58 22.31
TMOSH	S 21 46 42.66 E 139 53 57.45	TRENI	S 31 45 00.31 E 152 40 37.60	UGENE	S 12 13 29.44 E 130 48 36.81
TMOSI	S 21 57 30.20 E 140 01 48.59	TRENM	S 31 52 48.22 E 152 31 29.74	UNDER	S 29 00 00.00 E 110 00 00.00
TMOSJ	S 22 01 34.25 E 139 58 39.57	TRESA	S 32 05 23.23 E 152 24 31.31	UNDOW	S 31 49 44.93 E 116 24 14.47
TMOSM	S 21 49 12.13 E 139 55 46.07	TRESB	S 32 04 22.52 E 152 17 52.49	UNTER	S 12 13 37.43 E 132 15 13.34
TMUSA	S 35 30 28.72 E 148 08 47.92	TRESC	S 31 58 42.69 E 152 16 43.31	UPNOT	S 18 39 22.29 E 109 55 41.72
TMUSB	S 35 34 25.04 E 148 11 41.72	TRESF	S 31 57 18.15 E 152 26 12.63	UPOLO	S 16 41 53.19 E 145 56 57.86
TMUSC	S 35 33 32.17 E 148 17 12.95	TRESH	S 31 51 38.20 E 152 32 51.87	URADA	S 34 58 04.66 E 138 46 52.97
TMUSF	S 35 27 05.74 E 148 15 40.55	TRESI	S 32 00 50.43 E 152 22 02.69	URAMU	S 26 45 50.45 E 120 27 08.21
TMUSI	S 35 30 45.39 E 148 13 41.19	TRESM	S 31 53 45.72 E 152 30 22.25	UTTOX	S 12 38 58.81 E 130 36 33.06
TMUSM	S 35 17 08.16 E 148 14 23.20	TREST	S 34 53 00.00 E 144 25 18.00	UVUPU	S 33 50 32.10 E 142 32 56.61
TMUST	S 35 09 00.47 E 148 08 28.63	TREVR	S 37 46 41.19 E 147 15 17.17	UXORA	S 25 59 59.99 E 109 13 43.67
TNGEA	S 24 28 58.95 E 150 49 13.18	TRIGG	S 31 52 56.49 E 115 41 07.99	VALDA	S 25 57 42.00 E 144 34 00.00
TNGEB	S 24 34 27.98 E 150 51 07.48	TRIKI	S 26 52 19.50 E 153 21 12.99	VALDZ	S 23 27 00.00 E 141 41 48.00
TNGEC	S 24 37 58.73 E 150 46 08.38	TRILL	S 18 26 14.90 E 122 16 59.16	VALES	S 37 21 52.33 E 145 20 56.99
TNGEF	S 24 31 27.99 E 150 40 39.52	TRINA	S 32 23 33.55 E 151 42 38.22	VALLI	S 17 00 14.50 E 145 48 36.00
TNGEH	S 24 29 03.48 E 150 32 17.50	TROFE	S 29 25 51.57 E 120 00 00.00	VANDI	S 12 20 41.00 E 131 45 15.00
TNGEI	S 24 32 58.08 E 150 45 53.44	TROTA	S 27 46 47.06 E 152 32 59.56	VAPSA	S 04 09 02.00 E 076 23 31.00
TNGEM	S 24 29 57.71 E 150 35 25.71	TROTS	S 34 47 38.86 E 138 35 06.78	VARLY	S 33 54 37.62 E 153 20 26.46
TNGWD	S 24 29 32.08 E 150 20 12.27	TRUDY	S 16 05 42.00 E 143 15 42.00	VEGAH	S 29 24 36.00 E 152 49 24.00
TNGWE	S 24 23 56.25 E 150 18 44.74	TRUKA	S 13 58 26.52 E 133 28 08.96	VENEL	S 33 28 24.38 E 143 46 24.49
TNGWF	S 24 27 37.36 E 150 28 56.23	TRUMP	S 33 53 08.21 E 139 48 28.69	VEPAS	S 34 24 46.83 E 163 00 00.00
TNGWG	S 24 20 46.03 E 150 23 59.31	TSTEA	S 14 09 32.12 E 126 35 47.90	VERIS	S 17 16 11.30 E 105 00 00.00
TNGWH	S 24 30 33.75 E 150 37 05.85	TSTEB	S 14 15 16.81 E 126 35 21.64	VERRY	S 27 13 02.13 E 153 13 28.91
TNGWI	S 24 25 46.89 E 150 23 50.41	TSTEC	S 14 16 50.56 E 126 29 40.53	VESUN	S 24 58 47.47 E 163 00 00.00
TNGWM	S 24 29 27.65 E 150 34 02.20	TSTEF	S 14 08 55.40 E 126 27 23.42	VETAL	S 38 25 15.30 E 135 00 00.00
TNKWA	S 19 45 56.89 E 133 59 27.48	TSTEH	S 14 03 50.07 E 126 21 01.17	VETEL	S 21 23 36.00 E 116 25 42.00
TNKWB	S 19 42 18.64 E 133 54 44.35	TSTEI	S 14 12 06.14 E 126 31 22.48	VIBUX	S 37 10 12.00 E 130 00 00.00
TNKWC	S 19 36 52.55 E 133 56 43.93	TSTEM	S 14 05 43.71 E 126 23 24.99	VICKI	S 35 06 55.01 E 149 12 54.71
TNKWF	S 19 39 34.28 E 134 04 56.06	TTIND	S 13 38 45.62 E 126 00 13.33	VICTA	S 26 28 23.26 E 149 04 33.17
TNKWH	S 19 37 05.86 E 134 14 06.31	TTINE	S 13 34 30.28 E 126 02 01.86	VILLA	S 28 29 24.00 E 152 32 12.00
TNKWI	S 19 40 56.53 E 133 59 50.25	TTINF	S 13 41 17.17 E 126 06 26.26	VILOD	S 30 45 41.23 E 117 02 21.39
TNKWM	S 19 38 11.88 E 134 10 01.79	TTING	S 13 34 42.65 E 126 06 44.25	VILOL	S 25 57 51.09 E 144 45 50.94
TOBIE	S 14 51 58.07 E 127 38 57.70	TTINH	S 13 46 22.29 E 126 09 44.72	VIMAB	S 31 30 54.79 E 145 21 31.46
TOBOB	S 34 56 02.98 E 145 04 48.59	TTINI	S 13 37 53.74 E 126 04 14.03	VINAX	S 21 35 17.70 E 137 53 32.90
TOCEA	S 35 45 49.39 E 145 51 54.53	TTINM	S 13 44 40.59 E 126 08 38.55	VINCN	S 34 56 44.21 E 138 21 38.00
TOCEB	S 35 50 57.62 E 145 55 03.87	TTISA	S 13 55 32.94 E 126 11 08.47	VIOLA	S 37 05 47.34 E 145 03 01.57
TOCEC	S 35 55 07.93 E 145 50 12.74	TTISB	S 13 55 45.13 E 126 15 51.29	VIPAM	S 12 00 00.01 E 148 01 13.70
TOCEF	S 35 49 29.20 E 145 42 53.95	TTISC	S 13 51 29.69 E 126 17 39.67	VIPOX	S 20 05 00.92 E 126 12 52.16
TOCEH	S 35 48 17.59 E 145 33 10.34	TTISF	S 13 48 58.42 E 126 11 26.35	VIRGE	S 27 13 12.00 E 154 44 29.00
TOCEI	S 35 50 13.57 E 145 48 58.85	TTISH	S 13 43 53.33 E 126 08 07.81	VIRUV	S 28 57 06.83 E 134 33 27.29
TOCEM	S 35 48 44.54 E 145 36 49.16	TTISI	S 13 52 21.79 E 126 13 38.79	VITAA	S 35 02 57.00 E 138 08 15.00
TOCWD	S 35 51 26.93 E 145 20 15.88	TTISM	S 13 45 35.03 E 126 09 13.98	VOMPA	S 19 48 25.28 E 146 54 18.10
TOCWE	S 35 46 17.79 E 145 17 08.77	TUBBY	S 40 53 55.80 E 160 42 37.14	VONDO	S 28 18 06.40 E 152 23 46.81
TOCWF	S 35 47 48.81 E 145 29 17.72	TUCAB	S 29 28 48.00 E 153 16 06.00	VONNI	S 33 12 55.59 E 151 24 20.07
TOCWG	S 35 42 08.81 E 145 22 01.09	TUCKI	S 28 55 18.00 E 153 22 12.00	VOSSI	S 33 36 26.40 E 150 47 55.80
TOCWH	S 35 49 00.74 E 145 39 01.22	TUMAN	S 34 36 12.84 E 140 17 50.14	VRDWD	S 16 27 32.37 E 130 49 49.08
TOCWI	S 35 47 03.46 E 145 23 13.19	TUMBL	S 11 54 50.00 E 130 44 28.00	VRDWE	S 16 23 40.14 E 130 47 13.69
TOCWM	S 35 48 33.86 E 145 35 22.37	TUNAA	S 35 15 00.00 E 133 40 00.00	VRDWF	S 16 23 58.07 E 130 55 32.67
TODDS	S 28 45 56.68 E 139 16 07.33	TUNGO	S 41 31 12.00 E 141 00 00.00	VRDWG	S 16 19 59.77 E 130 50 06.59
TOJAM	S 29 17 13.60 E 153 06 52.11	TUREK	S 23 13 48.59 E 118 05 52.25	VRDWH	S 16 24 13.49 E 131 02 49.29
TOKIP	S 27 38 11.10 E 114 48 49.92	TURET	S 19 57 06.00 E 123 40 48.00	VRDWI	S 16 23 49.14 E 130 51 23.17
TOMAS	S 13 26 10.37 E 130 00 47.01	TURTS	S 12 20 30.08 E 130 39 52.00	VRDWM	S 16 24 06.91 E 130 59 42.16
TONAR	S 37 50 36.76 E 144 51 10.22	TUSKY	S 20 45 57.16 E 121 41 32.45	WACKO	S 27 11 17.25 E 152 45 11.10
TONIM	S 36 01 53.70 E 154 20 45.93	TUTEN	S 37 24 32.59 E 145 10 42.68	WAGOO	S 28 08 53.49 E 118 45 25.50
TONTO	S 34 17 33.66 E 150 38 41.93	TWBEA	S 27 35 05.19 E 152 09 49.25	WAKEN	S 34 08 05.96 E 138 14 30.53

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
WALLI	S 29 27 30.58 E 120 29 25.18	WGAEM	S 35 09 34.58 E 147 28 38.32	WLMWB	S 32 37 35.46 E 151 35 56.86
WALTA	S 19 41 26.16 E 147 35 26.33	WGAWA	S 35 19 39.79 E 147 17 38.76	WLMWC	S 32 36 08.54 E 151 42 31.15
WALTZ	S 35 46 50.95 E 158 04 55.35	WGAWB	S 35 17 02.03 E 147 11 24.90	WLMWF	S 32 44 05.03 E 151 44 58.31
WANGI	S 13 07 47.57 E 130 26 57.06	WGAWC	S 35 11 20.11 E 147 12 18.01	WLMWH	S 32 49 16.21 E 151 52 12.42
WAREN	S 38 01 00.00 E 145 18 42.00	WGAWF	S 35 12 21.90 E 147 22 12.98	WLMWI	S 32 40 50.33 E 151 40 27.42
WARMN	S 16 59 48.00 E 128 11 36.00	WGAWH	S 35 08 37.10 E 147 30 50.55	WLMWM	S 32 47 19.56 E 151 49 29.53
WARRA	S 24 49 57.93 E 114 19 43.54	WGAWI	S 35 14 42.09 E 147 16 49.09	WLUND	S 26 30 06.64 E 120 01 17.56
WARTY	S 33 54 23.26 E 154 06 55.61	WGAWM	S 35 10 01.44 E 147 27 36.49	WLUNE	S 26 24 45.89 E 120 03 39.20
WATLE	S 33 55 18.00 E 150 25 12.00	WGTNA	S 36 11 56.97 E 146 14 57.41	WLUNF	S 26 33 08.53 E 120 09 46.87
WAVES	S 31 52 14.98 E 115 31 42.14	WGTNC	S 36 09 21.89 E 146 21 17.02	WLUNG	S 26 24 55.79 E 120 10 02.36
WAYNS	S 31 46 50.23 E 116 30 49.72	WGTNF	S 36 19 16.55 E 146 19 30.86	WLUNH	S 26 39 50.45 E 120 14 41.64
WAZZA	S 36 47 56.90 E 146 37 47.10	WGTNH	S 36 24 03.95 E 146 23 34.85	WLUNI	S 26 28 57.25 E 120 06 42.92
WBLEA	S 38 23 42.27 E 142 41 44.74	WGTNI	S 36 14 19.22 E 146 20 23.97	WLUNM	S 26 37 19.75 E 120 12 51.03
WBLEB	S 38 29 18.00 E 142 40 06.50	WGTNM	S 36 24 13.87 E 146 18 37.69	WLUSA	S 26 45 48.06 E 120 25 22.08
WBLEC	S 38 29 59.94 E 142 32 51.41	WHALE	S 33 59 05.64 E 151 34 41.45	WLUSB	S 26 51 09.16 E 120 23 01.02
WBLEF	S 38 21 51.70 E 142 31 35.52	WHANA	S 32 52 48.13 E 137 23 03.46	WLUSC	S 26 50 59.84 E 120 16 36.38
WBLEH	S 38 15 54.59 E 142 24 47.47	WHANC	S 32 48 01.37 E 137 27 48.92	WLUSF	S 26 42 47.11 E 120 16 51.43
WBLEI	S 38 25 34.85 E 142 35 50.90	WHAND	S 32 50 23.09 E 137 34 01.10	WLUSH	S 26 36 05.27 E 120 11 56.40
WBLEM	S 38 18 08.55 E 142 27 20.36	WHANF	S 32 57 52.10 E 137 30 01.19	WLUSI	S 26 46 58.17 E 120 19 56.11
WBRND	S 25 54 44.79 E 126 30 47.07	WHANH	S 33 05 44.64 E 137 31 47.36	WLUSM	S 26 38 35.98 E 120 13 46.97
WBRNE	S 25 51 47.71 E 126 36 14.64	WHANI	S 32 52 56.74 E 137 28 54.99	WOBBL	S 27 33 22.18 E 152 25 14.93
WBRNF	S 26 01 47.97 E 126 35 26.81	WHANM	S 33 02 47.44 E 137 31 07.51	WODAY	S 28 55 03.96 E 155 21 37.50
WBRNG	S 25 55 25.42 E 126 41 10.80	WHEBB	S 28 36 36.19 E 120 00 00.00	WODJA	S 12 17 35.94 E 131 02 29.97
WBRNH	S 26 09 48.16 E 126 34 48.44	WHITI	S 29 10 20.44 E 152 45 15.99	WOKKA	S 36 41 12.74 E 139 40 00.00
WBRNI	S 25 56 47.84 E 126 35 50.74	WHOOL	S 27 20 53.51 E 120 00 00.00	WOKKI	S 12 19 48.64 E 130 53 33.82
WBRNM	S 26 06 48.09 E 126 35 02.84	WICKA	S 28 15 18.00 E 151 57 42.00	WOLAG	S 26 34 16.71 E 115 15 57.14
WBRSA	S 26 20 19.08 E 126 39 12.51	WILAM	S 28 11 10.60 E 120 00 00.00	WOLBI	S 35 28 54.00 E 148 12 30.00
WBRSB	S 26 23 16.25 E 126 33 43.68	WILDE	S 37 32 58.31 E 144 41 04.11	WOLGO	S 27 40 58.98 E 115 55 28.90
WBRSC	S 26 19 38.31 E 126 28 46.57	WILLS	S 25 23 48.00 E 137 59 00.00	WOLNA	S 34 20 04.74 E 150 51 36.58
WBRSF	S 26 13 16.03 E 126 34 31.80	WILLY	S 32 47 00.00 E 145 53 42.00	WOLNC	S 34 20 42.33 E 150 40 17.21
WBRSH	S 26 05 15.85 E 126 35 10.21	WILTO	S 25 30 26.96 E 118 17 45.05	WOLND	S 34 18 36.34 E 150 45 48.05
WBRSI	S 26 18 16.14 E 126 34 07.76	WINAL	S 24 41 45.64 E 131 22 24.04	WOLNF	S 34 26 06.07 E 150 46 25.03
WBRSM	S 26 08 15.92 E 126 34 55.82	WINCH	S 34 30 53.17 E 136 46 53.38	WOLNH	S 34 32 00.00 E 150 53 00.00
WCKEA	S 28 06 13.22 E 152 11 15.56	WINDA	S 27 46 13.21 E 120 00 00.00	WOLNI	S 34 22 06.22 E 150 46 05.17
WCKEB	S 28 11 22.86 E 152 14 07.39	WINKY	S 27 16 57.77 E 152 39 26.60	WOLNM	S 34 32 05.86 E 150 46 54.24
WCKEC	S 28 15 31.85 E 152 09 37.66	WIRAL	S 27 46 30.66 E 118 27 35.06	WOLSE	S 34 45 30.77 E 150 54 49.34
WCKEF	S 28 09 50.62 E 152 02 56.49	WIRMA	S 31 22 00.00 E 136 19 42.00	WOLSF	S 34 41 01.69 E 150 48 10.93
WCKEH	S 28 08 36.72 E 151 53 59.90	WISKA	S 19 34 31.57 E 145 12 30.47	WOLSG	S 34 49 59.92 E 150 49 15.92
WCKEI	S 28 10 36.74 E 152 08 31.92	WIZZA	S 27 40 23.43 E 153 02 54.92	WOLSH	S 34 30 39.23 E 150 51 47.30
WCKEM	S 28 09 04.50 E 151 57 21.10	WJLEA	S 15 49 24.49 E 145 29 42.86	WOLSI	S 34 46 00.70 E 150 48 47.03
WDHND	S 25 13 04.81 E 142 47 17.38	WJLEB	S 15 53 37.09 E 145 29 02.31	WOLSJ	S 34 47 44.83 E 150 44 24.41
WDHNE	S 25 14 35.36 E 142 53 23.32	WJLEF	S 15 52 57.79 E 145 24 41.32	WOLSM	S 34 34 03.06 E 150 47 20.46
WDHNF	S 25 21 00.64 E 142 44 54.70	WJLEH	S 15 56 12.18 E 145 24 53.76	WONGA	S 37 43 12.00 E 145 15 12.00
WDHNG	S 25 20 19.62 E 142 53 55.15	WJLEI	S 15 51 11.15 E 145 27 12.11	WONKA	S 32 26 40.75 E 152 05 51.84
WDHNH	S 25 26 08.50 E 142 38 07.17	WJLEM	S 15 54 44.39 E 145 22 10.48	WONSA	S 22 00 00.00 E 110 00 00.00
WDHNI	S 25 17 48.06 E 142 49 09.12	WKBEA	S 36 13 44.00 E 142 40 04.08	WONYU	S 24 55 29.56 E 119 44 49.01
WDHNM	S 25 24 13.09 E 142 40 40.06	WKBEB	S 36 18 11.59 E 142 44 32.27	WOODS	S 24 48 37.73 E 118 06 32.69
WDHSA	S 25 36 10.13 E 142 32 56.75	WKBEC	S 36 23 07.20 E 142 40 53.31	WOODY	S 27 14 16.89 E 152 24 16.91
WDHSB	S 25 34 38.98 E 142 26 49.31	WKBEF	S 36 18 54.09 E 142 32 11.77	WOOFA	S 12 16 52.82 E 132 15 38.53
WDHSC	S 25 28 55.18 E 142 26 18.33	WKBEH	S 36 19 27.94 E 142 22 19.27	WOOFY	S 31 51 30.00 E 115 48 54.00
WDHSF	S 25 28 14.73 E 142 35 19.82	WKBEI	S 36 18 32.84 E 142 38 22.03	WOOLY	S 35 33 30.77 E 162 17 50.72
WDHSH	S 25 23 06.97 E 142 42 07.57	WKBEM	S 36 19 15.34 E 142 26 01.48	WOONA	S 34 44 07.64 E 140 31 59.11
WDHSI	S 25 31 26.91 E 142 31 04.68	WKSWA	S 66 45 06.99 E 110 58 53.48	WOORA	S 31 45 11.18 E 116 04 41.25
WDHSM	S 25 25 02.42 E 142 39 34.73	WKSWB	S 66 40 10.28 E 110 51 38.44	WSLWA	S 38 07 29.91 E 146 44 34.67
WEAVA	S 32 17 06.00 E 148 08 48.00	WKSWC	S 66 35 46.94 E 111 00 52.19	WSLWB	S 38 03 21.08 E 146 42 04.71
WEBBA	S 21 53 42.00 E 117 13 48.00	WKSWF	S 66 40 59.67 E 111 16 42.34	WSLWC	S 38 00 04.57 E 146 46 09.04
WEEDA	S 27 54 55.29 E 117 51 23.24	WKSWH	S 66 41 36.29 E 111 36 46.44	WSLWF	S 38 04 40.54 E 146 52 04.16
WEENA	S 12 00 00.01 E 150 18 01.08	WKSWI	S 66 40 35.47 E 111 04 10.18	WSLWH	S 38 07 34.28 E 147 00 41.99
WEIRD	S 38 11 30.60 E 147 19 57.60	WKSWM	S 66 41 22.87 E 111 29 14.90	WSLWI	S 38 04 00.81 E 146 47 04.41
WELES	S 12 27 19.06 E 131 00 10.49	WLGED	S 29 51 25.75 E 148 16 48.76	WSLWM	S 38 05 20.28 E 146 57 03.96
WELKE	S 21 37 52.76 E 149 36 14.08	WLGEF	S 29 53 40.80 E 148 22 52.58	WSTSF	S 33 49 43.39 E 150 55 07.97
WELLI	S 27 30 00.00 E 153 15 06.00	WLGEH	S 29 58 59.12 E 148 13 06.65	WSTSH	S 33 46 33.59 E 150 59 14.44
WELLS	S 25 00 00.00 E 120 53 51.78	WLGEG	S 29 59 25.64 E 148 22 31.51	WSTSM	S 33 48 25.86 E 150 58 23.03
WELSH	S 34 08 05.82 E 150 18 29.75	WLGEI	S 30 03 13.26 E 148 05 17.16	WSTWA	S 33 39 44.51 E 150 50 39.28
WENDY	S 37 50 24.00 E 143 58 42.00	WLGEJ	S 29 56 20.05 E 148 17 59.75	WSTWF	S 33 42 46.61 E 150 53 48.45
WENER	S 26 15 49.80 E 128 56 45.10	WLGEM	S 30 01 38.01 E 148 08 13.30	WSTWM	S 33 45 48.25 E 150 56 57.45
WESTI	S 31 55 20.92 E 115 42 21.56	WLMED	S 32 52 09.83 E 152 04 53.74	WSTWT	S 33 41 30.64 E 150 59 38.11
WESTY	S 19 11 30.00 E 147 01 00.00	WLMEE	S 32 57 53.25 E 152 04 16.90	WTNNA	S 22 13 32.97 E 142 53 57.51
WGAEED	S 34 59 55.42 E 147 38 33.52	WLMEF	S 32 51 25.09 E 151 55 12.64	WTNNC	S 22 08 17.52 E 142 56 28.44
WGAEF	S 35 02 31.78 E 147 44 46.94	WLMEG	S 32 59 21.31 E 151 57 41.36	WTNND	S 22 08 41.56 E 143 02 38.25
WGAEF	S 35 07 13.93 E 147 34 01.46	WLMEH	S 32 46 14.09 E 151 47 58.18	WTNNF	S 22 16 53.59 E 143 02 01.54
WGAEF	S 35 08 13.95 E 147 43 56.19	WLMEI	S 32 54 39.25 E 151 59 44.60	WTNNH	S 22 23 46.30 E 143 06 28.51
WGAEH	S 35 10 58.96 E 147 25 24.18	WLMEM	S 32 48 10.76 E 151 50 41.01	WTNNI	S 22 12 35.58 E 142 59 14.91
WGAEI	S 35 04 52.98 E 147 39 24.35	WLMWA	S 32 43 18.75 E 151 35 18.26	WTNNM	S 22 21 11.55 E 143 04 48.34

WAYPOINT	LOCATION	WAYPOINT	LOCATION	WAYPOINT	LOCATION
WUDOF	S 12 13 34.05 E 130 50 31.79	XGSSC	S 33 34 00.56 E 151 18 20.71	YINGA	S 27 44 06.89 E 119 17 28.10
WUDSA	S 33 09 43.85 E 135 39 51.94	XGSSF	S 33 29 38.74 E 151 21 04.11	YKIEA	S 09 47 43.92 E 143 37 19.55
WUDSB	S 33 15 09.37 E 135 37 36.71	XGSSH	S 33 24 54.08 E 151 21 36.20	YKIEB	S 09 53 29.28 E 143 37 36.05
WUDSC	S 33 15 13.63 E 135 30 46.36	XGSSI	S 33 32 37.56 E 151 21 31.93	YKIEC	S 09 55 42.73 E 143 32 14.37
WUDSF	S 33 07 01.24 E 135 30 39.44	XGSSM	S 33 26 39.91 E 151 20 36.32	YKIEF	S 09 48 07.18 E 143 29 02.27
WUDSH	S 33 00 30.44 E 135 25 06.55	XLGSE	S 33 41 23.27 E 150 16 30.01	YKIEH	S 09 43 49.34 E 143 22 11.45
WUDSI	S 33 11 05.35 E 135 34 07.91	XLGSF	S 33 36 11.05 E 150 12 54.14	YKIEI	S 09 50 48.25 E 148 33 19.13
WUDSM	S 33 02 57.02 E 135 27 11.29	XLGSG	S 33 41 05.29 E 150 12 23.36	YKIEM	S 09 45 26.05 E 143 24 45.49
WUNGO	S 32 11 54.00 E 116 01 42.00	XLGSH	S 33 35 39.84 E 150 09 22.68	YNGND	S 34 01 32.26 E 148 13 49.15
WVFRN	S 16 53 17.00 E 145 41 35.00	XLGSI	S 33 38 47.17 E 150 14 42.02	YNGNE	S 34 00 13.52 E 148 19 37.44
WVFRS	S 16 57 23.00 E 145 43 06.00	XLGSM	S 33 32 42.84 E 150 10 30.47	YNGNF	S 34 09 54.66 E 148 16 33.03
WWLEA	S 33 53 32.81 E 147 26 58.49	XLGWA	S 33 34 58.65 E 149 58 23.84	YNGNG	S 34 04 36.68 E 148 24 04.96
WWLEB	S 33 58 41.00 E 147 30 02.58	XLGWB	S 33 32 45.43 E 149 55 14.53	YNGNH	S 34 17 39.56 E 148 14 05.22
WWLEC	S 34 02 51.27 E 147 25 17.01	XLGWC	S 33 29 31.26 E 149 56 39.17	YNGNI	S 34 05 04.09 E 148 18 05.28
WWLEF	S 33 57 11.98 E 147 18 09.15	XLGWF	S 33 31 12.48 E 150 02 10.65	YNGNM	S 34 13 45.23 E 148 15 00.70
WWLEH	S 33 55 59.94 E 147 08 38.70	XLGWH	S 33 32 34.07 E 150 06 34.34	YNGSB	S 34 30 26.56 E 148 10 00.66
WWLEI	S 33 57 56.64 E 147 24 05.82	XLGWI	S 33 31 59.00 E 149 58 42.62	YNGSC	S 34 28 27.41 E 148 16 31.35
WWLEM	S 33 56 27.04 E 147 12 12.59	XLGWM	S 33 30 25.85 E 150 05 38.61	YNGSF	S 34 20 45.48 E 148 13 05.99
WWLWD	S 33 59 07.35 E 146 55 47.41	XMAWA	S 29 24 30.12 E 152 58 39.58	YNGSH	S 34 13 00.60 E 148 15 33.95
WWLWE	S 33 53 57.76 E 146 52 44.10	XMAWB	S 29 19 17.53 E 153 01 26.25	YNGSI	S 34 25 36.02 E 148 11 33.37
WWLWF	S 33 55 29.17 E 147 04 36.65	XMAWC	S 29 18 51.97 E 153 06 03.89	YNGSM	S 34 15 54.94 E 148 14 38.52
WWLWG	S 33 49 48.96 E 146 57 29.37	XMAWF	S 29 27 58.51 E 153 07 09.56	YOGGI	S 32 33 09.00 E 151 53 50.40
WWLWH	S 33 56 41.48 E 147 14 06.99	XMAWH	S 29 27 58.53 E 153 12 53.24	YOKRA	S 30 04 47.09 E 119 19 33.63
WWLWI	S 33 54 43.61 E 146 58 40.32	XMAWI	S 29 23 38.02 E 153 04 17.84	YORKE	S 34 54 41.46 E 137 36 48.23
WWLWM	S 33 56 14.45 E 147 10 33.08	XMAWM	S 29 27 58.55 E 153 10 35.77	YRMED	S 38 31 17.63 E 147 01 29.47
WYATT	S 33 54 18.90 E 149 56 34.20	XMONA	S 16 13 59.62 E 145 22 20.43	YRMEE	S 38 36 27.31 E 147 04 41.71
WYLOO	S 22 48 22.83 E 116 15 46.75	XMONC	S 16 13 32.19 E 145 27 45.14	YRMEF	S 38 34 52.68 E 146 52 05.95
WYMEA	S 15 33 31.57 E 128 22 31.79	XMOND	S 16 19 05.01 E 145 31 07.10	YRMEG	S 38 40 35.01 E 146 59 36.43
WYMEB	S 15 39 17.13 E 128 22 36.91	XMONF	S 16 21 02.23 E 145 24 46.46	YRMEH	S 38 33 45.63 E 146 43 17.25
WYMEC	S 15 41 19.92 E 128 17 03.47	XMONH	S 16 26 39.86 E 145 25 43.50	YRMEI	S 38 35 40.17 E 146 58 23.76
WYMEF	S 15 33 38.49 E 128 14 02.68	XMONI	S 16 17 17.21 E 145 26 15.83	YRMEM	S 38 34 04.86 E 146 45 48.28
WYMEH	S 15 36 27.74 E 128 05 47.90	XMONM	S 16 24 47.23 E 145 23 17.03	YRMWA	S 38 36 40.71 E 146 28 54.28
WYMEI	S 15 36 27.86 E 128 18 19.74	XMWNA	S 32 00 52.99 E 150 17 12.05	YRMWB	S 38 31 30.06 E 146 25 44.60
WYMEM	S 15 30 49.05 E 128 09 45.74	XMWNC	S 31 58 34.58 E 150 20 12.57	YRMWC	S 38 27 23.82 E 146 30 51.16
WYMER	S 36 52 18.00 E 142 55 24.00	XMWND	S 32 01 11.58 E 150 24 08.47	YRMWF	S 38 33 07.52 E 146 38 19.18
WYMWD	S 15 26 06.40 E 127 53 59.58	XMWNF	S 32 04 32.65 E 150 21 04.12	YRMWH	S 38 34 24.52 E 146 48 23.26
WYMWE	S 15 20 20.82 E 127 53 55.26	XMWNH	S 32 09 31.03 E 150 21 47.17	YRMWI	S 38 32 18.96 E 146 32 01.82
WYMWf	S 15 26 00.25 E 128 02 28.39	XMWNl	S 32 01 33.61 E 150 20 38.33	YRMWm	S 38 33 55.75 E 146 44 36.69
WYMWG	S 15 18 18.62 E 127 59 28.36	XMWNM	S 32 07 31.68 E 150 21 29.94	YUNGA	S 31 44 59.61 E 116 09 09.10
WYMWH	S 15 31 39.34 E 128 11 01.99	XTUEA	S 17 58 19.70 E 146 06 24.06	YUSEF	S 21 25 53.99 E 135 07 11.90
WYMWI	S 15 23 10.58 E 127 58 11.76	XTUEB	S 18 02 47.74 E 146 07 34.09	YWGND	S 35 48 44.72 E 146 02 05.80
WYMWM	S 15 29 57.65 E 128 08 27.86	XTUEC	S 18 05 22.48 E 146 03 34.48	YWGNE	S 35 47 29.82 E 146 08 58.76
WYNOT	S 16 15 18.76 E 149 24 19.27	XTUEF	S 17 59 55.32 E 145 59 43.74	YWGNF	S 35 56 45.26 E 146 04 17.15
WYYWA	S 41 04 15.14 E 145 25 32.04	XTUEH	S 18 00 48.10 E 145 57 15.12	YWGNG	S 35 52 20.15 E 146 12 46.82
WYYWB	S 40 57 19.39 E 145 23 32.76	XTUEI	S 18 01 21.57 E 146 03 38.88	YWGNH	S 36 04 09.58 E 146 00 31.39
WYYWC	S 40 53 13.66 E 145 28 49.65	XTUEM	S 17 58 50.58 E 145 56 47.42	YWGNI	S 35 52 07.54 E 146 06 38.02
WYYWF	S 40 58 57.41 E 145 36 34.20	XWLNA	S 34 17 19.62 E 150 57 53.64	YWGNM	S 36 01 22.98 E 146 01 56.13
WYYWH	S 40 59 39.92 E 145 48 44.73	XWLNC	S 34 17 55.41 E 151 01 58.95	ZAARS	S 12 01 59.33 E 129 36 13.12
WYYWI	S 40 58 08.58 E 145 30 03.40	XWLND	S 34 22 10.52 E 151 01 59.21	ZAMMI	S 14 09 36.00 E 128 36 12.00
WYYWM	S 40 59 45.86 E 145 43 05.16	XWLNf	S 34 22 10.63 E 150 56 51.82	ZANEY	S 16 01 44.26 E 145 54 42.63
XFVWA	S 32 52 56.97 E 151 33 19.88	XWLNH	S 34 24 44.33 E 150 56 01.81	ZIMMA	S 16 37 04.78 E 145 48 16.30
XFVWB	S 32 49 30.12 E 151 33 09.42	XWLNI	S 34 20 03.05 E 150 59 25.45	ZIPPY	S 33 14 15.75 E 138 05 39.56
XFVWC	S 32 48 11.13 E 151 36 55.68	XWLNm	S 34 24 18.15 E 150 54 18.06	ZOCCA	S 11 14 42.89 E 127 13 12.96
XFVWF	S 32 52 44.22 E 151 39 09.62	YAHMO	S 30 43 00.63 E 118 51 49.29	ZONKA	S 33 57 29.20 E 151 06 45.15
XFVWH	S 32 54 53.46 E 151 43 09.99	YAKKA	S 33 11 32.40 E 151 13 22.45	ZORBA	S 17 00 10.49 E 146 03 12.33
XFVWI	S 32 51 07.21 E 151 36 09.46	YANCO	S 35 16 41.00 E 145 43 54.00	ZORRO	S 27 15 52.00 E 153 12 45.00
XFVWM	S 32 54 21.16 E 151 42 09.88	YARDD	S 17 20 18.00 E 137 09 18.00	ZWEKY	S 11 47 05.40 E 130 41 57.04
XGSSA	S 33 33 16.79 E 151 25 02.14	YARRA	S 37 50 30.00 E 144 52 12.00		
XGSSB	S 33 35 36.38 E 151 21 59.78	YEEDI	S 28 52 07.38 E 119 31 47.72		

## SECTION 22 - AIR ROUTES

## ROUTE DESIGNATORS

## CONVENTIONAL ROUTES

REGIONAL ROUTES – A, B, G &amp; R.

DOMESTIC ROUTES – H (ONE WAY) &amp; J (TWO WAY)

DOMESTIC ROUTES – V (ONE WAY) &amp; W (TWO WAY) Predominantly Low Level

## RNAV ROUTES

REGIONAL ROUTES (TASMAN) – L, M, N, P

DOMESTIC ROUTES – Q (180°– 359°), Y (360°– 179°), T (TWO WAY) &amp; Z (LOW LEVEL)

NOTE: Prefix U INDICATES ROUTE NEAR MAJOR TERMINAL

Displayed Below	Charts	Depiction	Explanation
1		■	No report required
2		▲	Compulsory position report for all ACFT;
3		△	Compulsory position report for ACFT with TAS Less than 300KT, and for other ACFT on request;
4		▴	Compulsory position report for all ACFT with AIREP section 3 required for designated flights;
5		◻	In Addition to 3 above, AIREP section 3 required from designated flights.

## ROUTE LEGENDS

U/L T/W D	Upper Level Two Way Domestic
U/L T/W I	Upper Level Two Way International
U/L O/W D	Upper Level One Way Domestic
U/L O/W I	Upper Level One Way International
L/L T/W D	Lower Level Two Way Domestic
L/L O/W D	Lower Level One Way Domestic
LIMITED SEG D	Route charted on ERC(L)charts, however Limited segments, particularly in TAC coverage, are required for high Level operations.

For each Route Segment:

H = Displayed on High Charts

L = Displayed on Low Charts

B = Displayed on Both High and Low Charts

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE A216 U/L T/W I</b>					<b>ATS ROUTE A346 U/L T/W I</b>				
3 CS VOR	S16 51.0 E145 44.6	---	/344		3 HM VOR	S20 21.1 E148 57.4	---	/118	
1 LOCKA	S16 01.4 E145 36.5	344/344			2 LEEAM	S23 52.6 E154 15.0	114/119	362	3200/0 H
2 MEMIG	S14 22.3 E145 20.3	345/345	100	5200/5900 H	2 PADDY	S26 52.7 E158 25.3	115/121	289	0/0 H
4 APUKA	S12 00.0 E144 57.7	345/345	143	2600/3400 H	4 TEKEP	S30 29.4 E163 00.0	116/109	324	0/0 H
<b>ATS ROUTE A339 U/L T/W I</b>					<b>ATS ROUTE A458 U/L T/W I</b>				
5 TEF NDB	S21 42.7 E122 12.8	---	/019		2 ALEGO	S10 38.4 E125 08.0	105/105	90	0/0
2 POKOS	S20 34.5 E122 40.5	018/018	73	2700/3100 H	2 BELKI	S11 41.2 E128 28.0	104/104	206	1500/1500 H
2 CIN VOR	S17 35.3 E123 51.1	018/022	191	2600/2500 H	1 ZAARS	S12 02.0 E129 36.2	104/104	70	1800/1500 H
3 NIKOM	S15 44.3 E124 43.4	022/022	121	2900/3700 H	2 DN VOR	S12 25.4 E130 54.4	104/---	80	1900/1600 H
2 GUNAM	S14 42.0 E125 12.2	021/021	68	3200/3700 H	<b>ATS ROUTE A461 U/L T/W I</b>				
2 IDOTO	S11 31.1 E126 38.8	021/021	208	3000/3200 H	4 BUTPA	S08 32.8 E129 39.9	160/160	307	0/0
3 IKUMA	S10 25.8 E127 08.1	021/021	71	1500/1500 H	3 NAYAR	S10 37.0 E130 19.4	159/159	130	4500/4500 H
4 ELBIS	S09 05.3 E127 43.7	021/010	87	4700/4700 H	2 OCTOB	S11 08.8 E130 29.6	159/159	33	1900/1700 H
					2 DN VOR	S12 25.4 E130 54.4	159/163	80	1900/1800 H

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL      2 ▲      3 △      4 ▴      5 ◻

DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
2 AGUST	S13 37.7 E131 12.3	163/163	74	2300/2500	B	<b>ATS ROUTE A598 U/L T/W I</b>					
2 MONIC	S17 00.7 E132 03.5	162/162	208	2600/2700	B	3 BN VOR	S27 22.0 E153 08.4	---	0/10		
3 BOYDI	S18 47.7 E132 31.3	162/162	110	5200/3800	B	3 TRIKI	S26 52.3 E153 21.2	010/010	32	2300/4300	H
2 DIGLA	S21 18.3 E133 11.5	161/161	155	5200/3800	B	2 SETER	S24 42.9 E154 16.1	010/010	138	1500/4300	H
2 AS VOR	S23 47.6 E133 52.7	161/145	154	5500/5000	B	4 PUGEL	S19 49.6 E156 13.5	010/010	312	1500/2000	H
3 ELLLOW	S24 57.2 E134 36.5	145/145	80	4000/4100	B	3 IKODA	S16 37.4 E157 26.9	010/010	204	1500/1500	H
2 IDANU	S26 41.0 E135 43.8	143/143	120	3000/3600	B	4 RIPNA	S14 00.0 E158 25.0	010/010	166	1500/1500	H
5 AGAGO	S28 13.2 E136 45.6	142/142	107	2800/2400	B	<b>ATS ROUTE B220 U/L T/W I</b>					
2 LEC VOR	S30 35.8 E138 25.7	141/---	167	3100/3100	B	2 KELPI	S22 34.2 E151 35.2	---	332		
<b>ATS ROUTE A464 U/L T/W I</b>					<b>ATS ROUTE B325 U/L T/W I</b>						
4 RIGMI	S32 12.1 E163 00.0	284/284	451	0/0			4 AKUKO	S09 00.5 E102 21.1	240/240	139	0/0
2 ELLAS	S29 00.5 E156 41.7	290/281	378	1500/0	H	3 EPgup	S10 39.0 E099 33.1	241/241	193	1500/1500	H
1 SCOTT	S27 52.1 E153 48.0	283/288	168	0/5300	H	2 CC VOR	S12 12.0 E096 50.5	243/---	185	1500/1500	H
1 WINKY	S27 17.0 E152 39.4	289/289	70	5900/5300	H	<b>ATS ROUTE B333 U/L T/W I</b>					
3 TAM VOR	S25 48.2 E149 53.8	292/291	173	5900/5300	H	4 DUBEV	S27 33.0 E163 27.3	303/303	107	0/0	
2 OMUBI	S23 38.3 E146 04.1	294/294	246	5500/5500	H	2 ISTEM	S24 35.9 E160 23.0	306/308	242	0/0	H
3 ONELU	S22 51.9 E144 46.3	295/295	85	3700/3700	H	4 PUGEL	S19 49.6 E156 13.5	312/309	367	0/0	H
4 TASHA	S20 06.7 E140 23.9	298/298	295	3500/3500	H	2 ISPID	S14 10.9 E151 10.7	312/312	445	1500/1500	H
2 NIVED	S18 33.1 E138 03.5	300/300	162	3500/3500	H	4 DUKUB	S12 00.0 E149 19.6	313/313	169	1500/1500	H
2 MIGAX	S16 01.7 E134 26.7	302/302	256	2900/2900	H	<b>ATS ROUTE B349 U/L O/W I</b>					
2 MICEY	S14 50.4 E132 48.4	303/303	119	2700/2600	H	4 TARUN	S12 00.0 E116 55.1	150/---	70	2	5000/0
4 TN VOR	S14 31.2 E132 22.3	303/304	32	2700/2600	H	<b>ATS ROUTE B450 U/L T/W I</b>					
2 AGUST	S13 37.7 E131 12.3	305/305	86	2400/2800	H	3 SY VOR	S33 56.6 E151 10.8	---	059		
2 LARAB	S12 04.1 E129 11.6	306/306	150	2300/2500	H	1 NOBAR	S33 47.2 E151 44.4	059/059	29	2100/3000	H
3 IKUMA	S10 25.8 E127 08.1	306/296	156	1600/1600	H	2 ABARB	S32 51.1 E154 56.1	057/057	170	1500/1500	H
4 KIKEM	S09 52.9 E126 07.4	296/293	68	3500/3500	H	2 LHI NDB	S31 31.7 E159 04.4	054/060	225	4500/4500	H
<b>ATS ROUTE A576 U/L T/W I</b>					<b>ATS ROUTE B462 U/L T/W I</b>						
3 KAT NDB	S33 42.6 E150 18.0	---	276			4 APISO	S12 00.0 E147 36.4	165/165	154	2400/2400	
2 PKS VOR	S33 07.9 E148 14.2	278/291	109	6100/6100	H	2 NONIR	S15 40.5 E148 11.2	164/164	222	1500/1500	H
3 VIMAB	S31 30.9 E145 21.5	294/294	175	3300/4000	H	3 HM VOR	S20 21.1 E148 57.4	163/157	283	4100/2900	H
1 MACLA	S30 10.4 E143 07.4	297/297	141	2900/0	H	3 MK VOR	S21 10.4 E149 11.2	157/---	51	3000/3000	B
4 APOMA	S29 53.9 E142 40.9	297/297	28	0/2900	H	<b>ATS ROUTE B469 U/L T/W I</b>					
2 POLEV	S26 55.2 E138 10.2	301/301	298	2900/2900	H	4 LAMOB	S12 00.0 E108 53.0	160/---	225	0/0	
2 KALUG	S25 54.0 E136 43.5	302/302	99	2200/1900	H	<b>ATS ROUTE B472 U/L T/W I</b>					
2 AS VOR	S23 47.6 E133 52.7	305/296	200	4400/4200	H	2 NTN NDB	S17 41.7 E141 04.4	---	316		
2 TIMMI	S21 55.3 E130 39.6	299/299	211	5500/6400	H	2 GUGUK	S14 56.5 E138 52.6	318/318	208	1600/1700	B
2 TATUK	S19 25.8 E126 38.8	301/301	271	4200/4200	H	3 GV VOR	S12 15.9 E136 49.0	319/322	200	1900/2000	B
2 CIN VOR	S17 35.3 E123 51.1	302/312	194	3300/3000	H	4 IDELU	S11 35.8 E136 21.8	322/322	48	1900/2000	B
4 ATMAP	S12 00.0 E118 15.3	314/314	466	1900/2500	H	4 TOREX	S07 24.0 E133 35.5	324/324	300	1700/1900	H
<b>ATS ROUTE A579 U/L T/W I</b>					<b>ATS ROUTE B473 U/L T/W I</b>						
4 DUBEV	S27 33.0 E163 27.3	222/222	233	0/0			4 OPABA	S08 51.5 E138 04.0	138/131	440	0/0
2 NATLI	S31 00.5 E157 23.8	225/225	379	0/0	H	2 PEBTA	S10 57.8 E140 10.5	130/130	177	1600/1600	H
2 JORDY	S32 23.5 E154 41.2	227/227	162	0/0	H	2 WP VOR	S12 40.4 E141 55.3	129/133	145	2200/2200	H
1 SHAZA	S33 39.7 E152 00.9	229/229	155	0/0	H	2 MEMOS	S14 59.1 E144 00.5	132/132	184	6000/4200	H
1 NOBAR	S33 47.2 E151 44.4	229/---	16	0/0	H	1 LAKED	S16 13.8 E145 09.7	131/131	100	6000/6000	H
<b>ATS ROUTE A585 U/L T/W I</b>					<b>ATS ROUTE B474 U/L T/W I</b>						
3 AD VOR	S34 56.8 E138 31.5	---	296			1 NOBAR	S33 47.2 E151 44.4	---	029		
1 HAWKY	S34 34.5 E137 51.2	296/296	40	3000/3000	B	2 BEADS	S31 36.2 E153 59.6	028/028	173	0/0	H
3 MUTHA	S34 06.2 E137 01.3	297/297	50	3000/3000	B	2 PADDY	S26 52.7 E158 25.3	026/026	366	0/0	H
1 FRAZA	S33 26.1 E135 52.5	298/298	70	3000/3000	B	2 ISTEM	S24 35.9 E160 23.0	026/026	173	0/0	H
2 ABTOD	S32 59.7 E135 08.0	299/299	46	3000/3000	B	2 MEPAB	S21 22.8 E163 00.0	025/023	241	0/0	H
3 CDU NDB	S32 07.6 E133 43.6	301/301	88	3000/2200	B	<b>ATS ROUTE B578 U/L T/W I</b>					
4 BEZZA	S30 51.5 E131 48.5	303/303	124	2400/2600	H	2 TEBUR	S23 28.5 E163 00.0	232/232	78	0/0	
2 PINAV	S28 52.9 E129 00.0	306/306	188	3000/3000	H						
5 LANOP	S27 18.9 E126 53.9	307/307	146	3400/3400	H						
2 BIDAP	S24 24.1 E123 14.7	310/310	264	3500/3500	H						
3 GUKON	S22 56.4 E121 30.9	311/311	129	3600/3600	H						
2 PD VOR	S20 22.7 E118 37.4	312/318	223	3600/3600	H						
2 OSOTO	S18 07.3 E116 35.9	318/318	177	1600/1500	H						
2 DOMOM	S16 26.2 E115 08.0	319/319	131	1500/1500	H						
4 SAPDA	S12 00.0 E111 25.6	320/320	342	1500/1500	H						
<b>ATS ROUTE A587 U/L T/W I</b>											
2 AS VOR	S23 47.6 E133 52.7	---	306								
2 DEENO	S21 35.1 E131 12.9	308/308	198	5500/6400	H						
4 DOPUK	S18 14.6 E127 25.1	310/310	293	4600/4600	H						
5 JATAR	S16 26.7 E125 28.4	311/311	155	4700/4700	H						
2 NIKOM	S15 44.3 E124 43.4	312/312	60	4500/4500	H						
4 ONOXA	S12 00.0 E120 52.7	313/313	316	3900/4500	H						

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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WAYPOINT		TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT		TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
2 ISTEM	S24 35.9 E160 23.0	234/234	159	1500/1500	H	2 AYE NDB	S25 10.4 E130 58.5	297/305	280	5600/4800	B
1 MULET	S26 25.9 E155 44.0	236/236	275	0/0	H	4 GULUM	S23 13.2 E128 27.8	307/307	181	4400/4900	B
1 COODA	S27 11.0 E153 39.7	237/237	120	2300/2300	H	2 JUGGL	S20 55.0 E125 39.5	309/309	208	4400/4400	B
3 BN VOR	S27 22.0 E153 08.4	238/---	30	2300/2300	H	3 BIGUP	S18 55.5 E123 19.8	310/310	177	2800/2800	B
<b>ATS ROUTE B580 U/L T/W I</b>						4 BRM NDB	S17 56.8 E122 14.1	311/296	86	2400/2400	B
1 NOBAR	S33 47.2 E151 44.4	---/038				3 ONALA	S15 11.2 E117 01.7	298/298	342	1600/1600	B
2 IFFEY	S31 57.6 E154 21.5	037/037	172	0/0	H	2 METUM	S14 08.2 E115 08.5	298/298	126	1500/1500	H
4 MISLY	S30 49.7 E155 53.5	036/036	104	0/0	H	4 SAPDA	S12 00.0 E111 25.6	300/---	252	1500/1500	H
2 TABAL	S28 15.3 E159 10.3	035/035	231	0/0	H	<b>ATS ROUTE G326 U/L T/W I</b>					
2 VESUN	S24 58.8 E163 00.0	033/033	284	0/0	H	4 ONOXA	S12 00.0 E120 52.7	117/121	240	0/0	
<b>ATS ROUTE B586 U/L T/W I</b>						2 GUNAM	S14 42.0 E125 12.2	119/119	300	3400/3100	H
2 BODEG	S20 07.6 E163 00.0	291/291	92	0/0		4 ARG VOR	S16 37.9 E128 26.9	118/116	220	4200/4000	H
2 IKODA	S16 37.4 E157 26.9	295/295	380	2500/2500	H	3 BOYDI	S18 47.7 E132 31.3	114/114	267	3200/3500	H
2 MEKAD	S13 23.8 E152 42.0	298/298	336	1500/1500	H	5 TNK VOR	S19 38.1 E134 10.9	113/115	107	3200/3500	H
4 TEKAN	S12 00.0 E150 43.5	298/298	143	1500/1500	H	2 BIKER	S20 43.9 E136 14.0	114/114	133	3200/3600	H
<b>ATS ROUTE B587 U/L T/W I</b>						2 VINAX	S21 35.3 E137 53.5	113/113	106	2600/3500	H
3 NBR NDB	S30 19.2 E149 49.9	---/323				4 TAVEV	S24 15.6 E143 26.6	109/109	346	3200/3200	H
2 SGE NDB	S28 02.8 E148 35.8	325/322	151	2200/2700	H	2 ROM NDB	S26 32.6 E148 46.9	104/093	321	4700/3900	H
3 PUDUR	S24 23.9 E146 29.4	324/324	246	4600/5000	H	2 MIMMI	S26 42.4 E149 35.4	093/093	45	5100/5100	H
2 OMUBI	S23 38.3 E146 04.1	325/325	51	4000/4000	H	2 MORRO	S26 51.9 E150 23.6	092/092	44	5100/5100	H
3 DOLIB	S20 33.4 E144 25.0	326/326	206	4900/4900	H	3 WOODY	S27 14.3 E152 24.3	090/090	110	5100/5100	H
2 BIDAG	S18 19.1 E143 15.8	328/326	149	5000/5000	H	3 BN VOR	S27 22.0 E153 08.4	090/---	40	4100/3900	H
2 GULOP	S15 49.2 E141 55.4	327/328	168	4100/4100	H	<b>ATS ROUTE G329 U/L T/W I</b>					
3 KOW NDB	S15 28.8 E141 44.9	328/325	23	1900/1900	H	3 BN VOR	S27 22.0 E153 08.4	---/090			
2 ROOKI	S10 56.8 E139 12.3	327/327	309	1900/1900	H	1 AMITY	S27 25.7 E153 30.4	090/089	20	2200/2300	H
4 OPABA	S08 51.5 E138 04.0	328/---	142	1600/1600	H	2 SAVER	S27 31.2 E154 03.6	089/089	30	2200/2600	H
<b>ATS ROUTE B598 U/L T/W I</b>						1 BONEY	S27 48.5 E155 54.5	088/088	100	1500/2600	H
2 DN VOR	S12 25.4 E130 54.4	---/078				2 TABAL	S28 15.3 E159 10.3	085/085	175	1500/1500	H
1 UNTER	S12 13.6 E132 15.2	078/078	80	1800/2900	H	4 DOVOM	S28 40.4 E163 00.0	082/082	204	0/0	H
3 IGOPO	S11 56.7 E134 07.1	077/078	111	2700/3300	H	2 NF VOR	S29 02.8 E167 55.9	079/---	112	0/0	H
4 IDELU	S11 35.8 E136 21.8	077/077	134	2600/2600	H	<b>ATS ROUTE G337 U/L O/W I</b>					
2 PEBTA	S10 57.8 E140 10.5	075/075	228	2100/2100	H	2 XMX VOR	S29 02.8 E167 55.9	---/332	0	0/0	
3 HID NDB	S10 35.5 E142 17.6	074/072	127	2200/2200	H	<b>ATS ROUTE G342 U/L T/W I</b>					
4 POSOX	S10 13.5 E143 55.6	071/071	99	2100/2100	H	3 CS VOR	S16 51.0 E145 44.6	---/057			
<b>ATS ROUTE G200 U/L T/W I</b>						2 NONIR	S15 40.5 E148 11.2	056/056	157	4700/4700	H
4 XMX VOR	S10 25.8 E105 41.4	---/258				3 DOTOD	S15 14.4 E149 04.2	055/055	57	1500/1500	H
4 TATOD	S10 59.1 E102 58.7	259/259	164	0/0	H	2 ISPID	S14 10.9 E151 10.7	055/055	138	1500/1500	H
4 EMVAS	S11 28.2 E100 29.7	260/259	149	0/0	H	2 MEKAD	S13 23.8 E152 42.0	054/054	100	1500/1500	H
2 CC VOR	S12 12.0 E096 50.5	261/255	219	0/0	H	4 NODOK	S12 11.2 E155 00.0	053/053	153	1500/1500	H
2 RUNUT	S13 49.6 E091 22.8	259/259	334	0/0	H	<b>ATS ROUTE G459 U/L T/W I</b>					
4 DUBAG	S15 32.8 E085 00.0	264/264	385	0/0	H	2 BEGMI	S09 50.0 E140 24.6	146/146	113	0/0	
2 GUPOX	S16 44.9 E080 00.0	268/268	298	0/0	H	3 ATERA	S10 49.7 E140 57.5	146/148	68	1500/1500	H
4 KADEM	S17 48.9 E075 00.0	273/273	294	0/0	H	2 WP VOR	S12 40.4 E141 55.3	147/---	124	2200/2200	H
<b>ATS ROUTE G205 U/L T/W I</b>						<b>ATS ROUTE G578 U/L T/W I</b>					
3 HM VOR	S20 21.1 E148 57.4	---/017				4 EGATU	S12 00.0 E116 05.6	161/162	52	0/0	
3 LAMEK	S18 09.3 E150 02.6	017/354	145	2800/3300	H	3 ONALA	S15 11.2 E117 01.7	162/162	198	1500/1500	H
2 PIPPA	S14 40.9 E150 11.4	355/355	208	1500/1500	H	2 TAYER	S16 17.7 E117 21.7	162/162	69	1500/0	H
2 WEENA	S12 00.0 E150 18.0	355/355	160	1500/1500	H	3 MELBO	S17 58.2 E117 52.3	162/162	104	0/1500	H
<b>ATS ROUTE G209 U/L T/W I</b>						2 PD VOR	S20 22.7 E118 37.4	162/---	150	1600/1600	H
2 LM VOR	S22 14.1 E114 05.7	---/324				<b>ATS ROUTE G591 U/L T/W I</b>					
2 IDOKU	S18 15.5 E111 06.8	325/325	291	2600/2600	H	2 NF VOR	S29 02.8 E167 55.9	309/332	213	0/0	
3 MALBI	S14 30.0 E108 27.1	325/325	272	1500/1500	H	4 MEPAB	S21 22.8 E163 00.0	271/271	63	0/0	H
4 ISRAN	S11 43.0 E106 33.1	326/326	200	1500/1500	H	4 PUGEL	S19 49.6 E156 13.5	275/275	392	1500/1500	H
4 XMX VOR	S10 25.8 E105 41.4	326/354	92	2300/2300	H	2 LAMEK	S18 09.3 E150 02.6	279/279	365	1500/1500	H
<b>ATS ROUTE G222 U/L T/W I</b>						2 PESKY	S17 04.2 E146 26.5	281/281	216	6700/4700	H
2 PKS VOR	S33 07.9 E148 14.2	---/282				3 CS VOR	S16 51.0 E145 44.6	281/---	42	6700/4700	H
3 KADUV	S32 01.6 E145 19.1	285/285	162	3400/3400	B	<b>ATS ROUTE G595 U/L T/W I</b>					
2 TAROR	S31 00.0 E142 48.7	287/287	142	3200/3200	B	3 SY VOR	S33 56.6 E151 10.8	---/075			
1 EVIEC	S30 21.3 E141 19.4	289/289	86	2800/0	B	3 DIPSO	S33 54.4 E152 04.3	074/078	45	2100/2100	H
3 GOKEN	S30 11.9 E140 58.0	289/289	21	0/2800	B	1 GOVER	S33 54.6 E152 38.6	077/077	29	1500/2100	H
4 GUGAB	S29 41.1 E139 50.0	290/290	67	5000/5000	B	2 ALLOC	S33 54.6 E152 42.2	077/077	3	1500/2100	H
4 AGAGO	S28 13.2 E136 45.6	293/293	184	5000/4500	B	2 VARLY	S33 54.6 E153 20.4	077/077	32	0/0	H
3 OOD NDB	S27 33.3 E135 26.5	294/294	81	2900/2200	B	4 WARTY	S33 54.4 E154 06.9	076/071	39	0/0	H

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

**AIR ROUTES – 4**

**AIP AUSTRALIA**

**SECTION 22**

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
2 DONNA	S33 49.4 E155 10.9	071/071	54	0/0	H	1 TESSI	S29 27.1 E152 18.8	190/190	39	6400/0	H
4 SARAP	S32 55.1 E163 00.0	065/067	396	0/0	H	2 ADMAR	S30 19.4 E151 54.7	190/190	56	6600/0	H
<b>ATS ROUTE H12 U/L O/W D</b>					<b>ATS ROUTE H65 U/L O/W D</b>						
3 MK VOR	S21 10.4 E149 11.2	---/164				3 SY VOR	S33 56.6 E151 10.8	---/195			
3 MAGRA	S22 25.6 E149 22.5	163/169	76	4100/0	H	3 WOL NDB	S34 33.5 E150 47.5	195/221	42	3400/0	B
2 MIMMI	S26 42.4 E149 35.4	167/167	256	4500/0	H	1 RAZZI	S35 03.3 E149 57.6	222/237	51	4100/0	B
3 ROKUU	S28 11.1 E149 40.1	167/155	88	4500/0	H	3 CB VOR	S35 16.9 E149 11.7	238/---	40	4800/0	H
2 DALAS	S30 20.6 E150 18.5	154/154	134	6500/0	H	<b>ATS ROUTE H66 U/L O/W D</b>					
3 SCO NDB	S32 02.1 E150 49.9	153/160	105	6500/0	H	1 ML VOR	S37 39.6 E144 50.5	---/018			
1 CORKY	S32 29.9 E150 54.7	160/160	28	3700/0	H	1 NONIX	S37 04.6 E145 14.8	017/028	40	4100/0	B
1 BULGA	S32 47.3 E150 57.8	159/159	18	4200/0	H	1 KACEY	S35 26.6 E146 53.5	027/027	126	6100/0	B
1 BOREE	S33 14.2 E151 02.6	159/159	27	4200/0	H	2 MDG VOR	S32 33.7 E149 35.6	026/024	219	6100/0	B
2 SY VOR	S33 56.6 E151 10.8	158/---	43	4200/0	H	3 TW VOR	S31 04.0 E150 49.8	023/030	110	5500/0	B
<b>ATS ROUTE H17 LIMITED SEG D</b>					<b>ATS ROUTE H76 U/L O/W D</b>						
1 PH VOR	S31 56.7 E115 57.6	---/348				1 WHITI	S29 10.3 E152 45.3	030/030	151	6400/0	B
1 GURAK	S30 51.9 E115 38.9	348/339	67	2700/0	B	3 GAMBL	S28 52.5 E153 02.9	029/001	24	6400/0	B
2 GEL VOR	S28 47.4 E114 42.4	340/356	134	2900/0	B	1 BLAKA	S28 12.0 E153 13.3	001/002	41	5900/0	B
3 EURAD	S27 37.6 E114 35.5	356/356	70	2400/0	B	1 MOOVI	S27 54.8 E153 17.7	002/002	18	5300/0	B
2 WARRA	S24 50.0 E114 19.7	355/355	168	3100/0	B	1 JCW VOR	S27 45.7 E153 20.1	002/---	9	3400/0	B
2 LM VOR	S22 14.1 E114 05.7	355/---	156	2700/0	B	<b>ATS ROUTE H84 U/L O/W D</b>					
<b>ATS ROUTE H18 U/L O/W D</b>					<b>ATS ROUTE H76 U/L O/W D</b>						
1 PH VOR	S31 56.7 E115 57.6	---/124				3 RIC NDB	S33 35.8 E150 46.6	---/334			
1 BROOK	S32 12.8 E116 27.3	124/123	30	3200/0	H	1 GAZEL	S33 14.8 E150 40.3	334/334	22	5700/0	H
1 PIY NDB	S32 32.4 E117 04.5	123/110	37	3200/0	H	3 NBR NDB	S30 19.2 E149 49.9	335/---	180	5700/0	H
1 BURGU	S32 58.2 E118 39.3	108/075	84	3000/0	H	<b>ATS ROUTE H84 U/L O/W D</b>					
2 NSM NDB	S32 11.7 E121 47.9	072/---	166	3500/0	H	3 WHA NDB	S33 03.5 E137 31.5	---/155			
<b>ATS ROUTE H19 U/L O/W D</b>					<b>ATS ROUTE H98 U/L O/W D</b>						
2 MDG VOR	S32 33.7 E149 35.6	---/342				3 BOGAL	S33 35.9 E137 43.6	155/155	34	0/0	B
2 ROM NDB	S26 32.6 E148 46.9	344/---	363	5400/0	H	1 NINEP	S34 00.1 E137 52.8	155/155	25	2800/0	B
<b>ATS ROUTE H20 U/L O/W D</b>					<b>ATS ROUTE H102 U/L O/W D</b>						
3 WOL NDB	S34 33.5 E150 47.5	---/196				1 MARGO	S34 24.8 E138 02.3	154/135	26	2800/0	B
3 NWA NDB	S34 57.1 E150 31.8	196/181	27	4200/0	B	3 AD VOR	S34 56.8 E138 31.5	135/---	40	2800/0	B
3 MCO VOR	S37 35.8 E149 43.1	181/183	163	5100/0	B	<b>ATS ROUTE H105 U/L O/W D</b>					
2 STH NDB	S41 20.1 E148 16.9	183/---	234	6600/0	B	1 MDG VOR	S32 33.7 E149 35.6	---/354			
<b>ATS ROUTE H21 U/L O/W D</b>					<b>ATS ROUTE H105 U/L O/W D</b>						
1 NATYA	S34 58.1 E143 14.0	---/084				1 NBR NDB	S30 19.2 E149 49.9	354/338	135	5100/0	H
3 WG VOR	S35 09.9 E147 28.1	080/---	209	3200/0	H	3 HACHI	S28 13.3 E149 23.2	339/347	128	3600/0	H
<b>ATS ROUTE H36 U/L O/W D</b>					<b>ATS ROUTE H119 U/L O/W D</b>						
3 TBD VOR	S35 14.6 E139 30.6	---/085				3 NATYA	S34 58.1 E143 14.0	126/138	357	5000/0	H
1 KACEY	S35 26.6 E146 53.5	078/078	362	5700/0	H	3 FRANZ	S35 48.9 E143 52.5	137/137	60	4000/0	B
3 NONUP	S35 25.8 E148 17.9	077/---	69	8200/0	H	1 CANTY	S36 48.4 E144 39.1	136/159	70	4000/0	B
<b>ATS ROUTE H44 U/L O/W D</b>					<b>ATS ROUTE H119 U/L O/W D</b>						
3 SY VOR	S33 56.6 E151 10.8	---/275				1 ARBEY	S37 10.1 E144 43.9	159/158	22	4500/0	B
3 KAT NDB	S33 42.6 E150 18.0	276/252	46	5000/0	B	1 BOL NDB	S37 27.7 E144 47.9	158/159	18	4500/0	B
3 CWR VOR	S33 50.9 E148 38.7	253/247	83	6000/0	B	1 ML VOR	S37 39.6 E144 50.5	159/---	12	3200/0	B
3 GTH VOR	S34 15.0 E146 03.9	249/251	131	3900/0	B	<b>ATS ROUTE H129 U/L O/W D</b>					
3 MAXEM	S34 38.1 E142 33.3	254/254	176	2400/0	B	1 ML VOR	S37 39.6 E144 50.5	---/030			
3 AD VOR	S34 56.8 E138 31.5	258/---	200	3800/0	H	1 DOSEL	S37 09.9 E145 23.7	030/---	40	4100/0	B
<b>ATS ROUTE H50 U/L O/W D</b>					<b>ATS ROUTE H133 U/L O/W D</b>						
1 ML VOR	S37 39.6 E144 50.5	---/009				1 ENTRA	S33 35.0 E151 41.8	---/338			
3 MNG VOR	S36 53.2 E145 11.7	008/346	49	4100/0	B	3 WMD VOR	S32 45.3 E151 31.9	338/005	50	3100/0	B
1 TOBOB	S34 56.0 E145 04.8	347/---	117	3400/0	B	1 CRAVN	S32 07.6 E151 46.0	005/005	39	5900/0	B
<b>ATS ROUTE H54 U/L O/W D</b>					<b>ATS ROUTE H129 U/L O/W D</b>						
1 HAWKY	S34 34.5 E137 51.2	---/273				3 SORTI	S31 49.3 E151 52.8	005/005	19	5700/0	B
2 MTP VOR	S34 08.1 E135 20.4	276/---	128	2700/0	H	2 PLO VOR	S30 29.5 E152 21.6	005/009	83	6500/0	B
<b>ATS ROUTE H62 U/L O/W D</b>					<b>ATS ROUTE H129 U/L O/W D</b>						
3 BN VOR	S27 22.0 E153 08.4	---/184				1 VEGAH	S29 24.6 E152 49.4	009/009	69	6500/0	B
3 WIZZA	S27 40.4 E153 02.9	184/184	19	2200/0	H						
1 LAV VOR	S28 05.4 E152 55.5	184/190	26	3100/0	H						
1 APAGI	S28 50.9 E152 35.1	190/190	49	5900/0	H						

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL      2 ▲      3 △      4 ▴      5 ▽



WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
3 GAMBL	S28 52.5 E153 02.9	009/---	34	4500/0 B	3 AD VOR	S34 56.8 E138 31.5	084/---	45	2500/2300 B
<b>ATS ROUTE H155 U/L O/W D</b>					<b>ATS ROUTE J19 U/L T/W D</b>				
1 KEPPA	S36 47.8 E143 58.5	---/318			3 NATYA	S34 58.1 E143 14.0	---/323		
2 MIA VOR	S34 13.6 E142 05.2	320/---	180	4700/0 H	2 UVUPU	S33 50.5 E142 32.9	324/324	76	2000/2000 B
<b>ATS ROUTE H164 U/L O/W D</b>					<b>ATS ROUTE J21 LIMITED SEG D</b>				
3 ML VOR	S37 39.6 E144 50.5	---/310			1 NRB NDB	S32 04.3 E118 23.7	---/094		
1 KEPPA	S36 47.8 E143 58.5	311/311	66	4700/0 H	2 DOTOP	S32 06.3 E119 04.8	093/093	35	3000/3000 B
2 JAMOR	S35 33.9 E142 47.3	312/312	94	4700/0 H	3 SORTU	S32 09.9 E120 38.9	092/092	80	3000/3000 B
3 IBABI	S33 37.9 E141 00.9	314/314	145	4700/0 H	2 NSM NDB	S32 11.7 E121 47.9	090/091	59	3000/3000 B
2 LEC VOR	S30 35.8 E138 25.7	317/---	224	5200/0 H	2 CAG VOR	S32 15.8 E125 29.7	088/095	188	3300/3300 B
<b>ATS ROUTE H169 U/L O/W D</b>					<b>ATS ROUTE J22 U/L T/W D</b>				
3 ML VOR	S37 39.6 E144 50.5	---/150			3 LT VOR	S41 32.6 E147 12.8	---/009		
3 CWS VOR	S38 30.5 E145 12.8	149/149	54	2400/0 B	2 FLI NDB	S40 05.7 E148 00.9	009/015	94	6000/6000 B
2 BENZO	S40 00.0 E145 53.0	148/148	95	1900/0 B	3 MCO VOR	S37 35.8 E149 43.1	014/---	170	3100/3100 B
2 DPO VOR	S41 10.2 E146 26.1	147/148	75	2100/0 B	<b>ATS ROUTE J27 U/L T/W D</b>				
3 BABEL	S41 42.6 E146 40.2	148/148	34	6500/0 B	2 GTE NDB	S13 58.5 E136 27.3	---/108		
1 SYNOT	S42 13.2 E146 53.8	147/147	32	6300/0 B	2 GUGUK	S14 56.5 E138 52.6	107/---	152	2200/2200 B
1 CLARK	S42 28.4 E147 00.7	147/---	16	5700/0 B	<b>ATS ROUTE J30 U/L T/W D</b>				
<b>ATS ROUTE H185 U/L O/W D</b>					<b>ATS ROUTE J42 LIMITED SEG D</b>				
3 SY VOR	S33 56.6 E151 10.8	---/038			3 WOL NDB	S34 33.5 E150 47.5	---/228		
1 ENTRA	S33 35.0 E151 41.8	037/356	34	2500/0 H	3 CB VOR	S35 16.9 E149 11.7	229/234	90	4800/4800 B
2 MARTO	S33 19.2 E151 44.5	356/356	16	2500/0 H	3 ARRAN	S35 50.3 E147 38.4	235/235	83	7500/7700 B
3 WLM NDB	S32 48.2 E151 49.7	356/005	31	2500/0 H	3 AY VOR	S36 04.1 E146 58.0	236/---	36	4900/4900 B
3 BANDA	S30 48.0 E152 34.4	006/006	126	6600/0 H	<b>ATS ROUTE J43 U/L T/W D</b>				
2 TOJAM	S29 17.2 E153 06.9	006/006	95	6600/0 H	3 BOR VOR	S36 23.6 E140 44.5	---/136		
3 CG VOR	S28 10.1 E153 30.2	006/328	70	6600/0 H	1 GRACY	S37 20.8 E141 34.7	135/135	70	3100/5200 H
3 JCW VOR	S27 45.7 E153 20.1	329/325	26	2500/0 H	1 KAYTU	S38 54.1 E143 00.0	133/130	115	4100/5200 H
3 BN VOR	S27 22.0 E153 08.4	325/---	26	2200/0 H	1 CLARK	S42 28.4 E147 00.7	124/---	282	6700/6700 H
<b>ATS ROUTE H202 U/L O/W D</b>					<b>ATS ROUTE J58 LIMITED SEG D</b>				
3 SY VOR	S33 56.6 E151 10.8	---/303			1 HAWKY	S34 34.5 E137 51.2	---/342		
3 RIC NDB	S33 35.8 E150 46.6	304/304	29	2200/0 B	1 SPOTA	S34 04.5 E137 44.6	342/342	30	2800/2500 B
1 BOYSY	S33 24.1 E150 33.0	304/304	16	5300/0 B	3 WHA NDB	S33 03.5 E137 31.5	342/---	62	2800/2500 B
1 MISIT	S32 35.8 E149 38.1	305/305	67	5300/0 B	<b>ATS ROUTE J61 U/L T/W D</b>				
2 MDG VOR	S32 33.7 E149 35.6	305/322	3	5300/0 B	3 IKUMA	S10 25.8 E127 08.1	---/116		
2 WLG VOR	S30 01.7 E148 07.7	324/---	169	5400/0 B	2 CURLY	S11 14.6 E128 39.4	115/115	102	1500/1500 H
<b>ATS ROUTE H215 U/L O/W D</b>					<b>ATS ROUTE J64 U/L T/W D</b>				
3 LT VOR	S41 32.6 E147 12.8	---/324			2 AYE NDB	S25 10.4 E130 58.5	---/059		
3 FLIKI	S40 00.0 E146 23.6	325/325	100	3700/0 B	<b>Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts</b>				
1 EXROM	S39 24.4 E146 05.4	326/326	38	3900/0 B	1 NIL				
3 WON VOR	S38 28.3 E145 37.4	327/319	60	3900/0 B	2 ▲				
1 WAREN	S38 01.0 E145 18.7	320/---	31	2400/0 B	3 ▲				
<b>ATS ROUTE H247 U/L O/W D</b>					<b>ATS ROUTE J64 U/L T/W D</b>				
3 AD VOR	S34 56.8 E138 31.5	---/084			4 ▣				
3 PANKI	S34 58.6 E140 21.0	082/082	90	3800/0 B	5 ▣				
3 NATYA	S34 58.1 E143 14.0	079/079	142	2100/0 B	<b>DAH Effective Date 17 NOVEMBER 2011</b>				
1 TOBOB	S34 56.0 E145 04.8	077/077	91	2000/0 B					
1 CULIN	S34 44.4 E149 23.4	073/---	213	7700/0 B					
<b>ATS ROUTE H319 U/L O/W D</b>					<b>ATS ROUTE J64 U/L T/W D</b>				
2 NYN NDB	S31 33.1 E147 11.7	---/141			2 AYE NDB	S25 10.4 E130 58.5	---/059		
2 PKS VOR	S33 07.9 E148 14.2	139/134	108	3100/0 H					
1 MAKKA	S34 25.9 E149 20.1	132/086	95	4900/0 H					
1 TARAL	S34 30.1 E149 56.0	086/---	30	5900/0 H					
<b>ATS ROUTE H345 U/L O/W D</b>					<b>ATS ROUTE J64 U/L T/W D</b>				
1 ML VOR	S37 39.6 E144 50.5	---/278							
3 NEVIS	S37 11.8 E143 16.3	280/280	80	4700/0 B					
3 BOR VOR	S36 23.6 E140 44.5	283/299	131	5200/0 B					
3 DUKES	S36 04.8 E140 15.0	299/299	30	2600/0 B					
1 DRINA	S35 25.2 E139 14.1	300/300	63	3800/0 B					
3 AD VOR	S34 56.8 E138 31.5	301/---	45	3800/0 B					
<b>ATS ROUTE J15 U/L T/W D</b>					<b>ATS ROUTE J64 U/L T/W D</b>				
1 YORKE	S34 54.7 E137 36.8	---/085							

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL    2 ▲    3 ▲    4 ▣    5 ▣

DAH Effective Date 17 NOVEMBER 2011

WAYPOINT		TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT		TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
3 ARNTU	S24 29.7 E132 25.5	058/058	89	4500/4500	B	4 RUSAD	S30 49.2 E133 40.4	083/082	96	2600/2600	H
2 AS VOR	S23 47.6 E133 52.7	057/055	90	4800/4500	B	2 LEC VOR	S30 35.8 E138 25.7	078/102	246	3700/3700	H
3 ANZAC	S22 44.8 E135 49.4	054/054	124	5400/5400	B	3 SAGED	S31 21.1 E141 00.4	100/100	140	5000/5000	H
2 GAFER	S22 17.8 E136 38.1	054/054	52	5400/5400	B	2 NEWMO	S32 01.5 E143 31.0	097/097	135	3000/3000	H
5 VINAX	S21 35.3 E137 53.5	053/053	82	3200/3200	B	3 EKKEY	S32 27.8 E145 17.0	096/096	94	3200/3100	H
3 MA VOR	S20 39.9 E139 29.1	052/051	105	3300/3200	B	2 PKS VOR	S33 07.9 E148 14.2	093/---	155	3300/3300	H
4 TASHA	S20 06.7 E140 23.9	051/051	61	3200/3400	B	<b>ATS ROUTE J142 U/L T/W D</b>					
2 BIDAG	S18 19.1 E143 15.8	049/049	195	4100/3500	B	3 CB VOR	S35 16.9 E149 11.7	---/246			
1 BULOK	S17 35.8 E144 22.6	049/049	77	5200/4000	B	3 NONUP	S35 25.8 E148 17.9	247/247	45	7000/8200	H
1 MUSEY	S17 12.9 E144 57.7	049/049	41	6000/4800	B	3 BOR VOR	S36 23.6 E140 44.5	254/---	373	7000/8200	H
3 BIB VOR	S16 55.0 E145 24.7	049/071	31	5700/4800	B	<b>ATS ROUTE J149 U/L T/W D</b>					
3 CS VOR	S16 51.0 E145 44.6	071/---	20	4900/4900	B	2 CDU NDB	S32 07.6 E133 43.6	---/101			
<b>ATS ROUTE J70 U/L T/W D</b>						3 ANITA	S32 38.4 E135 44.6	100/099	107	2900/2900	B
2 CFS VOR	S30 19.2 E153 07.3	---/213				3 WHA NDB	S33 03.5 E137 31.5	098/---	93	2900/2900	B
3 BANDA	S30 48.0 E152 34.4	213/213	40	5000/5700	B	<b>ATS ROUTE J151 U/L T/W D</b>					
3 JOKER	S31 25.0 E151 51.8	213/205	52	6200/6200	B	3 CS VOR	S16 51.0 E145 44.6	---/290			
1 COOPA	S31 47.9 E151 31.9	205/205	28	6700/6700	H	1 CARBA	S16 28.4 E144 58.1	290/290	50	5900/5900	H
2 INOKE	S32 02.0 E151 19.5	205/205	18	6700/6700	H	2 KOOKA	S15 42.8 E143 25.6	291/291	100	5900/5900	H
1 CORKY	S32 29.9 E150 54.7	205/---	35	6700/6700	H	2 PILLO	S13 28.2 E139 03.7	293/293	287	2600/3300	H
<b>ATS ROUTE J72 U/L T/W D</b>						3 GV VOR	S12 15.9 E136 49.0	295/263	150	1800/1800	H
3 ARG VOR	S16 37.9 E128 26.9	---/013				2 COLLA	S12 20.7 E134 24.7	264/264	141	2300/2500	B
2 KU VOR	S15 46.5 E128 42.5	013/030	53	3300/3300	B	3 RAGER	S12 23.9 E132 16.1	265/265	126	3300/2800	B
2 JULUP	S13 33.2 E130 10.4	029/029	158	2600/2600	B	2 DN VOR	S12 25.4 E130 54.4	266/229	80	2900/2100	B
1 WANGI	S13 07.8 E130 27.0	029/029	30	2200/2100	B	1 HELLI	S13 14.6 E129 49.6	229/229	80	1900/2200	B
2 DN VOR	S12 25.4 E130 54.4	029/---	50	2200/2100	B	1 ZAMMI	S14 09.6 E128 36.2	230/230	90	1500/2500	B
<b>ATS ROUTE J89 U/L T/W D</b>						2 TOBIE	S14 52.0 E127 39.0	230/230	70	3000/3300	B
3 MA VOR	S20 39.9 E139 29.1	---/117				5 JATAR	S16 26.7 E125 28.4	231/231	157	4500/4100	B
4 SARIK	S22 00.5 E141 45.8	115/115	151	3400/3400	B	2 CIN VOR	S17 35.3 E123 51.1	231/237	116	4500/4100	B
3 LRE VOR	S23 25.5 E144 16.9	113/108	163	2700/2700	B	2 SAFIR	S19 22.0 E120 34.5	239/239	215	2100/2400	B
2 PUDUR	S24 23.9 E146 29.4	107/107	135	3900/3900	B	2 PD VOR	S20 22.7 E118 37.4	240/---	126	2400/1700	B
3 TAM VOR	S25 48.2 E149 53.8	104/---	204	5500/5500	B	<b>ATS ROUTE J163 U/L T/W D</b>					
<b>ATS ROUTE J93 U/L T/W D</b>						2 HB VOR	S42 50.8 E147 31.6	---/353			
2 LM VOR	S22 14.1 E114 05.7	---/059				1 KAREN	S42 05.3 E147 39.9	353/353	46	4200/5000	B
3 ONSLO	S21 40.0 E115 06.7	058/058	66	2100/2100	B	2 FLI NDB	S40 05.7 E148 00.9	354/358	120	6700/6700	B
2 KA VOR	S20 42.9 E116 46.4	057/078	109	2200/2200	B	1 MAKRL	S38 29.9 E148 25.5	358/358	98	2900/2900	B
2 PD VOR	S20 22.7 E118 37.4	077/053	106	1900/1900	B	3 CB VOR	S35 16.9 E149 11.7	358/---	196	8700/7500	H
2 SNAPA	S19 10.0 E120 26.6	052/053	126	1600/1900	B	<b>ATS ROUTE J174 L/L T/W D</b>					
4 BRM NDB	S17 56.8 E122 14.1	052/075	126	1800/1500	B	2 MEK VOR	S26 36.4 E118 32.0	---/000			
2 CIN VOR	S17 35.3 E123 51.1	074/063	95	1800/1800	B	2 PEKAY	S23 16.7 E118 34.9	359/359	199	5500/5500	L
2 GIB NDB	S16 25.8 E126 25.9	062/071	164	4200/4000	B	2 PD VOR	S20 22.7 E118 37.4	359/---	173	5500/5500	L
2 KU VOR	S15 46.5 E128 42.5	070/---	137	3400/3400	B	<b>ATS ROUTE J184 U/L T/W D</b>					
<b>ATS ROUTE J108 U/L T/W D</b>						2 TL VOR	S19 14.7 E146 45.5	---/249			
3 AD VOR	S34 56.8 E138 31.5	---/004				1 ALBEE	S19 22.7 E146 08.4	250/250	36	4200/4900	B
1 ORBUN	S34 11.8 E138 43.3	004/004	46	3800/4500	B	2 WISKA	S19 34.5 E145 12.5	250/250	54	4100/4900	B
2 CABET	S31 40.8 E139 21.3	004/004	154	5100/5200	B	2 RUSSO	S19 59.0 E143 11.4	251/251	117	5000/5000	B
4 GUGAB	S29 41.1 E139 50.0	004/004	122	5100/5200	B	3 PENAR	S20 21.3 E141 13.9	253/253	113	4400/4400	B
2 OOM NDB	S28 06.3 E140 11.9	004/---	97	4700/2700	B	3 MA VOR	S20 39.9 E139 29.1	254/---	100	3500/3500	B
<b>ATS ROUTE J114 U/L T/W D</b>						<b>ATS ROUTE J199 U/L T/W D</b>					
2 LEC VOR	S30 35.8 E138 25.7	---/172				2 SPRIG	S10 18.9 E125 33.5	092/092	112	0/0	
1 KLAVA	S34 11.8 E138 30.4	171/171	216	5200/5200	H	3 IKUMA	S10 25.8 E127 08.1	092/091	93	1500/1500	H
3 AD VOR	S34 56.8 E138 31.5	171/---	45	5200/5200	H	3 NAYAR	S10 37.0 E130 19.4	090/090	189	1800/1800	H
<b>ATS ROUTE J138 U/L T/W D</b>						3 TATAP	S10 45.7 E133 15.3	089/089	173	1900/1900	H
2 JANUS	S12 51.1 E132 11.9	---/117				2 NOPAG	S10 51.9 E135 52.5	088/088	155	1700/1700	H
2 NERTI	S13 27.0 E133 14.5	116/116	71	3300/3300	H	3 ROOKI	S10 56.8 E139 12.3	086/086	197	1700/1700	H
2 EGORE	S15 21.8 E136 40.1	115/115	230	3300/3300	H	2 PEBTA	S10 57.8 E140 10.5	086/---	57	1500/1500	H
2 NTN NDB	S17 41.7 E141 04.4	112/101	290	2300/2000	H	<b>ATS ROUTE J208 U/L T/W D</b>					
2 BIDAG	S18 19.1 E143 15.8	100/099	131	3500/4000	H	3 BN VOR	S27 22.0 E153 08.4	---/120			
3 TL VOR	S19 14.7 E146 45.5	097/---	207	5100/4900	H	1 POODL	S27 31.2 E153 20.3	120/119	14	2200/5300	H
<b>ATS ROUTE J141 U/L T/W D</b>						1 SCOTT	S27 52.1 E153 48.0	119/118	32	2200/5300	H
3 KG VOR	S30 47.4 E121 27.2	---/091				2 CHEWY	S28 58.1 E155 18.9	117/117	104	1500/5300	H
2 SEVSI	S30 51.0 E123 37.6	089/089	112	2900/3000	B	2 LHI NDB	S31 31.7 E159 04.4	113/---	248	4500/4500	H
3 SEEMO	S30 52.3 E125 52.3	087/087	116	2800/2900	B	<b>ATS ROUTE J251 U/L T/W D</b>					
2 FRT NDB	S30 51.3 E128 06.0	085/087	115	2400/2100	B	2 DN VOR	S12 25.4 E130 54.4	---/143			
3 BEZZA	S30 51.5 E131 48.5	084/084	192	2400/2400	B						

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
2 MAVER	S13 11.0 E131 26.1	142/142	55	2400/2400	B	4 ELATI	S02 00.0 E089 57.7	060/060	97	0/0	H
1 NOVEM	S13 31.8 E131 40.5	142/142	25	2400/2400	B	<b>ATS ROUTE L894 U/L T/W I</b>					
4 TN VOR	S14 31.2 E132 22.3	142/168	72	2600/2600	B	2 DADAR	S02 00.0 E079 27.1	141/141	126	0/0	
3 BONES	S16 10.7 E132 37.7	168/168	100	2400/2500	B	3 KAMUN	S03 30.3 E080 53.5	141/143	125	0/0	H
2 GREGA	S17 00.3 E132 45.5	167/167	50	2400/2500	B	4 IDEVI	S06 13.0 E083 18.9	143/139	217	0/0	H
2 SCOTI	S21 19.4 E133 27.5	167/167	261	4200/3800	B	4 SAKEG	S08 10.3 E085 20.1	139/139	168	0/0	H
2 AS VOR	S23 47.6 E133 52.7	166/155	149	5500/5000	B	2 RUNUT	S13 49.6 E091 22.8	138/138	491	0/0	H
3 SADEL	S25 02.4 E134 23.0	154/154	80	4000/4000	B	4 POLUM	S20 00.0 E098 32.8	135/135	553	0/0	H
2 SARAH	S26 55.5 E135 10.2	153/153	121	3000/3100	B	2 NINOB	S26 00.0 E106 29.1	131/131	567	0/0	H
3 OOD NDB	S27 33.3 E135 26.5	153/156	40	2400/2400	B	4 MERIB	S30 04.0 E112 45.1	127/---	412	0/0	H
5 CARTS	S29 41.3 E136 14.4	155/155	134	2800/2800	B	<b>ATS ROUTE M625 U/L T/W I</b>					
4 WR NDB	S31 08.6 E136 48.5	154/156	92	2200/2200	B	4 GILLY	S40 22.7 E156 46.7	264/264	287	0/0	
1 OJJAY	S32 28.7 E137 18.2	155/155	84	2500/2500	B	4 LEPAR	S39 14.2 E150 27.6	271/270	300	0/0	H
3 WHA NDB	S33 03.5 E137 31.5	155/---	36	2500/2500	B	1 MILLA	S38 12.9 E145 53.6	275/---	223	0/0	H
<b>ATS ROUTE J917 U/L T/W D</b>											
3 CS VOR	S16 51.0 E145 44.6	---/042				<b>ATS ROUTE M636 U/L T/W I</b>					
2 TENCH	S14 53.8 E148 03.7	041/041	178	3500/4100	H	4 SASRO	S38 34.8 E163 00.0	272/273	369	0/0	
2 TICAL	S12 00.0 E151 22.5	040/040	260	0/0	H	4 PLUGA	S35 36.4 E154 41.3	282/285	437	0/0	H
<b>ATS ROUTE L503 U/L T/W I</b>											
4 RUNOD	S36 09.4 E163 00.0	300/299	470	0/0		2 CAWLY	S34 19.6 E151 57.5	287/287	155	0/0	H
3 NATLI	S31 00.5 E157 23.8	306/306	417	0/0	H	1 SY VOR	S33 56.6 E151 10.8	288/---	45	0/0	H
4 SIFRA	S29 48.1 E156 12.4	307/307	95	0/0	H	<b>ATS ROUTE M639 U/L T/W I</b>					
1 WODAY	S28 55.1 E155 21.6	308/308	69	0/0	H	2 SAVER	S27 31.2 E154 03.6	---/122			
2 SAVER	S27 31.2 E154 03.6	310/---	108	0/0	H	1 NETTY	S28 43.8 E155 30.6	121/121	106	0/0	H
<b>ATS ROUTE L508 U/L T/W I</b>											
4 OMKIN	S42 24.9 E163 00.0	262/262	249	0/0		2 LHI NDB	S31 31.7 E159 04.4	117/118	250	0/0	H
4 COOPS	S41 27.9 E157 50.0	267/267	238	0/0	H	4 VEPAS	S34 24.8 E163 00.0	114/114	263	0/0	H
4 ECKHO	S39 39.5 E150 31.1	276/276	352	0/0	H	<b>ATS ROUTE M641 U/L T/W I</b>					
1 MILLA	S38 12.9 E145 53.6	281/---	233	0/0	H	4 DOGAR	S02 00.0 E087 50.3	142/142	134	0/0	
<b>ATS ROUTE L511 U/L O/W I</b>											
4 TARUN	S12 00.0 E116 55.1	138/138	370	0/0		4 PIBED	S05 20.2 E090 44.0	142/142	264	1500/1500	H
4 BRM NDB	S17 56.8 E122 14.1	136/---	471	0/0	H	2 CC VOR	S12 12.0 E096 50.5	140/144	547	1500/1500	H
<b>ATS ROUTE L513 U/L T/W I</b>											
4 TAPAX	S36 18.3 E125 00.0	---/116				4 IKASA	S20 00.0 E103 29.2	142/142	604	1500/1500	H
4 TEKUP	S38 15.4 E130 00.0	110/110	266	0/0	H	2 UXORA	S26 00.0 E109 13.7	139/145	479	1500/1500	H
4 TAGOD	S39 54.5 E135 00.0	104/104	254	0/0	H	4 MERIB	S30 04.0 E112 45.1	144/---	307	1500/1500	H
4 TUNGO	S41 31.2 E141 00.0	097/097	290	0/0	H	<b>ATS ROUTE M643 U/L T/W I</b>					
2 HB VOR	S42 50.8 E147 31.6	088/068	302	0/0	H	4 FONLO	S43 28.9 E157 46.5	252/252	228	0/0	
4 HEWIT	S42 30.0 E150 55.5	065/065	152	0/0	H	4 PECOB	S43 09.7 E150 56.2	259/259	300	0/0	H
4 COOPS	S41 27.9 E157 50.0	058/058	315	0/0	H	2 HB VOR	S42 50.8 E147 31.6	263/---	151	0/0	H
3 TUBBY	S40 53.9 E160 42.6	056/055	135	0/0	H	<b>ATS ROUTE M766 U/L T/W I</b>					
4 MIDAT	S40 22.0 E163 00.0	053/053	109	0/0	H	4 SATNA	S11 04.2 E124 34.2	100/100	277	0/0	
<b>ATS ROUTE L514 U/L O/W I</b>											
4 EGATU	S12 00.0 E116 05.6	---/174				2 IDOTO	S11 31.1 E126 38.8	100/100	125	0/0	H
3 LAXAR	S14 47.7 E116 19.2	174/174	168	0/0	H	2 LARAB	S12 04.1 E129 11.6	099/099	153	0/0	H
2 LILLY	S15 20.1 E116 21.9	174/174	32	0/0	H	1 JACKI	S12 08.8 E129 34.4	099/099	23	0/0	H
2 OSOTO	S18 07.3 E116 35.9	174/174	167	0/0	H	2 DN VOR	S12 25.4 E130 54.4	099/---	80	0/0	H
3 MUNNI	S21 12.6 E116 52.0	174/180	185	0/0	H	<b>ATS ROUTE M768 U/L T/W I</b>					
2 COBRA	S24 06.6 E116 47.8	180/180	173	0/0	B	4 ELBIS	S09 05.3 E127 43.7	135/134	331	0/0	
3 SCRUB	S26 38.3 E116 44.1	181/181	151	0/0	B	2 SHEPP	S10 36.0 E129 09.3	134/134	124	0/0	H
2 PALTI	S27 51.2 E116 42.2	181/181	73	0/0	B	1 NATAL	S11 27.1 E129 58.2	134/134	70	0/0	H
1 REVOP	S30 33.2 E116 37.9	182/---	162	0/0	B	2 DN VOR	S12 25.4 E130 54.4	133/---	80	0/0	H
<b>ATS ROUTE L521 U/L O/W I</b>											
1 SY VOR	S33 56.6 E151 10.8	---/097				<b>ATS ROUTE N509 U/L T/W I</b>					
3 EVONN	S34 11.7 E152 01.9	096/096	45	0/0	H	2 PD VOR	S20 22.7 E118 37.4	---/298			
2 GEROS	S35 01.1 E154 59.9	093/093	155	0/0	H	2 TIMET	S19 07.7 E116 19.3	299/299	150	1600/2100	H
4 WALTZ	S35 46.8 E158 04.9	090/087	158	0/0	H	2 DECEM	S16 46.1 E112 12.1	301/301	275	1500/1500	H
4 ESKEL	S36 31.4 E163 00.0	082/082	243	0/0	H	4 TANEM	S15 31.1 E110 07.2	301/301	142	1500/1500	H
<b>ATS ROUTE L774 U/L T/W I</b>											
4 LELED	S11 16.6 E075 00.0	069/069	339	0/0		3 MALBI	S14 30.0 E108 27.1	302/302	114	1500/1500	H
2 UBNIS	S08 16.3 E080 00.0	065/065	346	0/0	H	4 TATOD	S10 59.1 E102 58.7	304/304	383	1500/1500	H
4 IDEVI	S06 13.0 E083 18.9	063/063	233	0/0	H	4 MUTMI	S04 08.0 E092 58.7	307/307	723	1500/1500	H
3 DAOVO	S02 52.3 E088 35.7	061/061	374	0/0	H	4 ELATI	S02 00.0 E089 57.7	308/---	221	1500/1500	H
<b>ATS ROUTE N584 U/L T/W I</b>											
4 JUMPA	S35 06.0 E159 11.7	---/318				<b>ATS ROUTE N584 U/L T/W I</b>					
4 SIFRA	S29 48.1 E156 12.4	323/295	352	0/0	H	4 JUMPA	S35 06.0 E159 11.7	---/318			
2 LAMSI	S28 26.5 E154 11.6	296/---	133	0/0	H	4 SIFRA	S29 48.1 E156 12.4	323/295	352	0/0	H
						2 LAMSI	S28 26.5 E154 11.6	296/---	133	0/0	H

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DAH Effective Date 17 NOVEMBER 2011

## AIR ROUTES – 8

## AIP AUSTRALIA

## SECTION 22

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE N628 U/L T/W I</b>					4 OMKIN	S42 24.9 E163 00.0	110/110	339	0/0 H
3 DADAR	S02 00.0 E079 27.1	269/270	328	0/0	<b>ATS ROUTE P880 U/L T/W I</b>				
2 SABEK	S02 08.5 E077 53.6	270/270	94	0/0 H	4 NUMSA	S39 25.2 E163 00.0	305/305	343	0/0
<b>ATS ROUTE N633 U/L T/W I</b>					4 JUMPA	S35 06.0 E159 11.7	311/311	317	0/0 H
4 POSOD	S03 29.5 E094 09.9	244/244	240	0/0	4 MISLY	S30 49.7 E155 53.5	315/315	305	0/0 H
4 PIBED	S05 20.2 E090 44.0	245/245	233	0/0 H	2 LAMSI	S28 26.5 E154 11.6	317/317	168	0/0 H
4 SAKEG	S08 10.3 E085 20.1	248/248	364	0/0 H	1 SCOTT	S27 52.1 E153 48.0	317/---	40	0/0 H
3 PANDU	S11 38.1 E078 26.6	252/252	457	0/0 H	<b>ATS ROUTE Q7 U/L O/W D</b>				
4 PEDPI	S13 16.6 E075 00.0	255/255	225	0/0 H	2 PBO VOR	S23 10.4 E117 44.2	---/182		
<b>ATS ROUTE N640 U/L T/W I</b>					3 HALEM	S26 07.9 E117 32.4	183/---	177	0/0 B
4 ELATI	S02 00.0 E089 57.7	136/135	85	0/0	<b>ATS ROUTE Q8 U/L O/W D</b>				
2 PIPOV	S04 22.1 E092 32.5	135/135	210	1500/1500 H	1 HAWKY	S34 34.5 E137 51.2	---/310		
4 EMVAS	S11 28.2 E100 29.7	132/132	635	1500/1500 H	3 AKDAV	S33 01.8 E136 12.2	312/---	124	0/0 H
4 EGAVI	S18 29.4 E109 02.4	129/129	649	1500/1500 H	<b>ATS ROUTE Q9 U/L O/W D</b>				
3 TARAK	S20 45.8 E112 03.1	128/128	218	1500/1500 H	2 PD VOR	S20 22.7 E118 37.4	---/188		
2 LM VOR	S22 14.1 E114 05.7	127/127	144	2500/2500 H	3 GOOTA	S22 01.6 E118 19.3	188/188	100	0/0 B
2 COBRA	S24 06.6 E116 47.8	125/125	187	5000/5000 H	2 TUREK	S23 13.8 E118 05.9	189/189	73	0/0 B
4 AGREK	S27 01.3 E121 19.4	123/123	301	5000/5000 H	3 HALEM	S26 07.9 E117 32.4	189/189	176	0/0 H
4 AGTIK	S28 40.3 E124 06.2	121/121	178	3400/3400 H	2 RANGR	S27 50.2 E117 11.9	190/190	104	0/0 H
2 FRT NDB	S30 51.3 E128 06.0	117/117	246	3300/3200 H	1 REVOP	S30 33.2 E116 37.9	191/---	165	0/0 H
4 ISLAV	S32 51.6 E132 20.8	113/112	248	2000/2000 H	<b>ATS ROUTE Q10 U/L O/W D</b>				
2 MTP VOR	S34 08.1 E135 20.4	109/101	168	2200/2200 H	2 NSM NDB	S32 11.7 E121 47.9	---/265		
3 WINCH	S34 30.9 E136 46.9	100/100	75	2500/2600 B	1 GRABL	S32 20.2 E118 36.4	268/268	163	0/0 H
1 RIKAB	S34 44.0 E137 39.0	099/099	45	2100/2000 B	1 HAMTN	S32 21.8 E117 39.4	269/---	48	0/0 H
3 AD VOR	S34 56.8 E138 31.5	098/---	45	2100/2000 B	<b>ATS ROUTE Q11 U/L O/W D</b>				
<b>ATS ROUTE N750 U/L T/W I</b>					2 SUGAB	S28 46.5 E119 13.2	---/234		
4 SULON	S39 51.5 E163 00.0	281/281	326	0/0	2 CAMEL	S29 12.1 E118 31.6	235/---	45	0/0 H
4 PLUGA	S35 36.4 E154 41.3	291/---	470	0/0 H	<b>ATS ROUTE Q12 U/L O/W D</b>				
<b>ATS ROUTE N752 U/L O/W I</b>					3 AD VOR	S34 56.8 E138 31.5	---/256		
1 GURAK	S30 51.9 E115 38.9	---/323			1 GILES	S35 00.3 E137 47.9	257/257	36	0/0 H
2 POKIP	S29 02.3 E114 01.3	324/341	138	0/0 H	2 LONLY	S35 11.2 E135 00.0	260/260	138	0/0 H
2 NONOG	S25 17.5 E112 27.6	341/341	239	0/0 H	1 TUNAA	S35 15.0 E133 40.0	261/270	66	0/0 H
4 UPNOT	S18 39.4 E109 55.7	341/341	421	0/0 H	2 LESON	S35 03.2 E131 30.0	272/272	107	0/0 H
3 MALBI	S14 30.0 E108 27.1	341/341	263	0/0 H	2 LODGE	S34 39.0 E128 00.0	276/276	175	0/0 H
4 ATMAL	S12 00.0 E107 35.5	341/341	158	0/0 H	2 LUCRE	S34 13.3 E125 00.0	279/279	151	0/0 H
<b>ATS ROUTE N759 U/L T/W I</b>					3 ESP VOR	S33 40.8 E121 49.4	282/---	162	0/0 H
3 ML VOR	S37 39.6 E144 50.5	---/085			<b>ATS ROUTE Q15 U/L O/W D</b>				
1 BADGR	S37 43.1 E145 28.0	085/087	30	0/0 H	1 HOOKS	S34 21.0 E151 08.0	---/221		
1 FARRA	S37 47.7 E146 05.5	087/087	30	0/0 H	2 WOL NDB	S34 33.5 E150 47.5	221/---	21	0/0 H
4 GEMAC	S38 13.4 E150 19.5	082/082	202	0/0 H	<b>ATS ROUTE Q18 U/L O/W D</b>				
4 MIKEL	S38 35.7 E157 32.1	075/075	341	0/0 H	1 CORAL	S26 32.9 E153 19.2	---/327		
4 SASRO	S38 34.8 E163 00.0	070/070	257	0/0 H	1 COLET	S25 37.7 E152 54.5	328/328	59	0/0 H
<b>ATS ROUTE N774 U/L O/W I</b>					2 KELPI	S22 34.2 E151 35.2	329/---	197	0/0 H
4 OLREL	S35 39.0 E163 00.0	262/262	379	0/0	<b>ATS ROUTE Q21 U/L O/W D</b>				
4 MAGDA	S34 22.5 E155 09.8	269/263	394	0/0 H	1 HARVS	S25 43.0 E156 04.0	---/213		
1 MAYOP	S34 16.2 E154 09.9	264/264	50	0/0 H	2 SAVER	S27 31.2 E154 03.6	214/---	153	0/0 H
1 SHARK	S34 04.9 E152 33.9	265/263	80	0/0 H	<b>ATS ROUTE Q25 U/L O/W D</b>				
3 MARLN	S34 02.1 E152 04.0	264/264	25	0/0 H	2 BIDAP	S24 24.1 E123 14.7	---/218		
3 SY VOR	S33 56.6 E151 10.8	265/---	45	0/0 H	3 SHADY	S26 47.9 E120 57.5	220/220	190	0/0 H
<b>ATS ROUTE P627 U/L T/W I</b>					2 CAMEL	S29 12.1 E118 31.6	222/235	193	0/0 H
4 KADAP	S02 00.0 E084 09.6	237/237	55	0/0	1 COPDI	S29 33.3 E117 56.5	235/235	37	0/0 H
4 KABTA	S05 54.5 E079 00.0	239/239	388	0/0 H	1 DALWU	S30 14.7 E116 46.7	237/---	73	0/0 H
4 KALBI	S08 52.3 E075 00.0	241/241	297	0/0 H	<b>ATS ROUTE Q26 U/L O/W D</b>				
<b>ATS ROUTE P753 U/L T/W I</b>					3 BN VOR	S27 22.0 E153 08.4	---/000		
1 WAREN	S38 01.0 E145 18.7	---/102			1 CORAL	S26 32.9 E153 19.2	000/313	50	0/0 H
1 MILLA	S38 12.9 E145 53.6	101/107	30	0/0 H	2 LOAFA	S25 02.1 E152 06.6	314/314	112	0/0 H
4 LOLLY	S40 08.7 E150 35.1	101/101	248	0/0 H	3 GLA VOR	S23 51.9 E151 12.3	315/320	86	0/0 H
4 SMIFF	S42 09.5 E156 38.8	093/093	300	0/0 H	1 CAPRI	S22 16.0 E150 11.4	321/320	111	0/0 H
4 BUGBA	S43 48.9 E163 00.0	086/086	297	0/0 H	3 HM VOR	S20 21.1 E148 57.4	321/313	134	0/0 H
<b>ATS ROUTE P766 U/L T/W I</b>									
4 TONIM	S36 01.9 E154 20.8	---/122							
4 MIKEL	S38 35.7 E157 32.1	118/118	217	0/0 H					

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
1 SWALO	S17 47.2 E146 49.7	315/315	195	0/0 H	3 MAXEM	S34 38.1 E142 33.3	269/256	126	0/0 H
1 BARIA	S17 12.8 E146 21.8	315/315	43	0/0 H	3 WOONA	S34 44.1 E140 32.0	258/258	100	0/0 H
1 UPOLO	S16 41.9 E145 57.0	315/225	39	0/0 H	1 BLACK	S34 46.6 E139 24.7	259/---	55	0/0 H
3 CS VOR	S16 51.0 E145 44.6	226/---	15	0/0 H	<b>ATS ROUTE Q64 U/L O/W D</b>				
<b>ATS ROUTE Q27 U/L O/W D</b>					2 LOAFA	S25 02.1 E152 06.6	---/304		
4 TAPAX	S36 18.3 E125 00.0	---/296			1 GEESE	S24 03.6 E151 00.4	305/---	84	0/0 H
3 MOLGA	S34 02.3 E120 00.9	301/301	280	0/0 H	<b>ATS ROUTE Q67 U/L O/W D</b>				
2 TAMOD	S33 16.1 E118 28.3	302/323	90	0/0 H	4 BRM NDB	S17 56.8 E122 14.1	---/211		
1 HAMTN	S32 21.8 E117 39.4	324/---	68	0/0 H	1 GORDN	S18 21.8 E121 57.0	211/199	30	0/0 B
<b>ATS ROUTE Q28 U/L O/W D</b>					2 DONDI	S19 49.0 E121 20.9	199/199	93	0/0 B
3 YDFD AD	S22 17.5 E119 26.2	---/191			4 NWN VOR	S23 25.3 E119 48.2	200/199	232	0/0 B
3 KALSA	S23 26.6 E119 08.7	192/192	71	0/0 H	3 OPALL	S26 34.7 E118 27.1	201/201	203	0/0 B
2 BAXMN	S25 34.8 E118 34.5	193/201	131	0/0 H	2 WEEDA	S27 54.9 E117 51.4	201/201	86	0/0 H
2 CHARL	S27 52.6 E117 32.1	202/---	148	0/0 H	1 DALWU	S30 14.7 E116 46.7	203/203	150	0/0 H
<b>ATS ROUTE Q29 U/L O/W D</b>					1 REVOP	S30 33.2 E116 37.9	203/199	20	0/0 H
1 RAZZI	S35 03.3 E149 57.6	---/222			1 HINDS	S30 47.7 E116 32.3	199/199	15	0/0 H
1 TANTA	S35 52.8 E148 31.9	223/223	86	0/0 H	1 CALIG	S31 02.0 E116 26.7	200/200	15	0/0 H
1 RUMIE	S36 19.8 E147 43.7	223/223	47	0/0 H	2 JULIM	S31 25.0 E116 17.6	200/210	24	0/0 H
1 NABBA	S36 42.3 E147 02.5	224/224	40	0/0 H	1 WOORA	S31 45.2 E116 04.7	210/209	23	0/0 H
1 BULLA	S37 04.7 E146 20.8	225/225	40	0/0 H	1 PH VOR	S31 56.7 E115 57.6	209/---	13	0/0 H
1 TAREX	S37 18.4 E145 54.9	225/225	25	0/0 H	<b>ATS ROUTE Q69 U/L O/W D</b>				
1 LIZZI	S37 27.0 E145 38.3	225/240	16	0/0 H	3 CG VOR	S28 10.1 E153 30.2	---/348		
1 ML VOR	S37 39.6 E144 50.5	240/---	40	0/0 H	1 ITIDE	S26 44.1 E153 29.4	349/280	86	0/0 H
<b>ATS ROUTE Q31 U/L O/W D</b>					1 SU VOR	S26 35.9 E153 05.4	280/---	23	0/0 H
1 YCWA AD	S22 58.0 E118 48.8	---/172			<b>ATS ROUTE Q73 U/L O/W D</b>				
3 MOPET	S23 22.9 E118 52.0	172/192	25	0/0 H	5 TEF NDB	S21 42.7 E122 12.8	---/198		
2 WILTO	S25 30.4 E118 17.8	193/195	131	0/0 H	2 WELLS	S25 00.0 E120 53.9	199/199	210	0/0 H
3 BELEL	S26 28.1 E117 59.5	195/195	60	0/0 H	3 WLU NDB	S26 37.5 E120 13.2	199/208	104	0/0 H
2 CHARL	S27 52.6 E117 32.1	196/196	88	0/0 H	2 CAMEL	S29 12.1 E118 31.6	210/---	179	0/0 H
1 REVOP	S30 33.2 E116 37.9	197/---	167	0/0 H	<b>ATS ROUTE Q74 U/L O/W D</b>				
<b>ATS ROUTE Q32 U/L O/W D</b>					1 ITIDE	S26 44.1 E153 29.4	---/310		
1 GTH VOR	S34 15.0 E146 03.9	---/257			1 CORAL	S26 32.9 E153 19.2	310/321	14	0/0 H
2 MTP VOR	S34 08.1 E135 20.4	267/267	534	0/0 H	1 MYB NDB	S25 31.2 E152 42.6	322/---	70	0/0 H
2 FAGIN	S33 53.1 E131 30.0	271/271	192	0/0 H	<b>ATS ROUTE Q93 U/L O/W D</b>				
2 FILET	S33 32.9 E128 00.0	274/274	176	0/0 H	1 MULET	S26 25.9 E155 44.0	---/222		
2 FLAKE	S33 10.9 E125 00.0	277/277	152	0/0 H	2 SAVER	S27 31.2 E154 03.6	223/---	111	0/0 H
1 DUNDA	S32 42.9 E121 52.0	280/276	161	0/0 H	<b>ATS ROUTE Q94 U/L O/W D</b>				
1 GRABL	S32 20.2 E118 36.4	279/---	167	0/0 H	1 SU VOR	S26 35.9 E153 05.4	---/122		
<b>ATS ROUTE Q36 U/L O/W D</b>					1 MOOLO	S26 49.5 E153 21.8	122/171	20	0/0 H
3 PULOL	S24 27.3 E136 45.7	---/253			1 MUDDL	S27 22.3 E153 20.8	170/196	33	0/0 H
1 ANGAS	S25 08.0 E132 26.4	256/---	239	0/0 H	3 LAV VOR	S28 05.4 E152 55.5	196/206	49	0/0 H
<b>ATS ROUTE Q39 U/L O/W D</b>					1 ISKIM	S29 30.9 E151 39.8	207/207	108	0/0 H
2 ELLAS	S29 00.5 E156 41.7	---/290			3 GIZMO	S32 17.2 E149 04.2	208/208	213	0/0 H
1 GATER	S28 26.9 E155 41.1	290/290	63	0/0 H	2 PKS VOR	S33 07.9 E148 14.2	209/206	66	0/0 H
2 SAVER	S27 31.2 E154 03.6	292/---	103	0/0 H	3 POLSO	S35 46.8 E145 41.8	208/208	203	0/0 H
<b>ATS ROUTE Q41 U/L O/W D</b>					1 CANTY	S36 48.4 E144 39.1	209/---	80	0/0 H
2 AYE NDB	S25 10.4 E130 58.5	---/230			<b>ATS ROUTE Q158 U/L O/W D</b>				
2 KATAR	S26 23.7 E129 04.4	231/231	126	0/0 H	3 ML VOR	S37 39.6 E144 50.5	---/263		
3 BUNNY	S27 32.8 E127 12.2	233/233	122	0/0 H	3 CRENA	S37 16.4 E140 04.9	268/271	229	0/0 H
4 BOBET	S29 00.8 E124 42.2	235/235	159	0/0 H	1 KROWS	S36 49.9 E137 15.7	274/274	138	0/0 H
3 KG VOR	S30 47.4 E121 27.2	238/237	200	0/0 H	2 CANDY	S36 25.5 E135 00.0	276/274	112	0/0 H
2 NALAR	S31 18.6 E120 27.3	238/245	60	0/0 H	2 CLAMY	S35 51.2 E131 30.0	277/277	173	0/0 H
1 NRB NDB	S32 04.3 E118 23.7	248/245	115	0/0 H	2 COBEL	S35 10.1 E128 00.0	281/281	176	0/0 H
1 HAMTN	S32 21.8 E117 39.4	246/---	41	0/0 H	2 CRICK	S34 29.5 E125 00.0	284/284	154	0/0 H
<b>ATS ROUTE Q53 U/L O/W D</b>					3 ESP VOR	S33 40.8 E121 49.4	287/289	166	0/0 H
1 VENEL	S33 28.4 E143 46.4	---/232			1 KATHI	S32 59.4 E119 34.2	291/291	121	0/0 B
3 MIA VOR	S34 13.6 E142 05.2	233/239	96	0/0 H	1 HAMTN	S32 21.8 E117 39.4	293/287	104	0/0 B
3 WOONA	S34 44.1 E140 32.0	240/---	83	0/0 H	2 BEVLY	S32 10.8 E116 54.0	287/287	40	0/0 B
<b>ATS ROUTE Q60 U/L O/W D</b>					1 PH VOR	S31 56.7 E115 57.6	288/---	50	0/0 B
1 WG VOR	S35 09.9 E147 28.1	---/264			<b>ATS ROUTE Q165 U/L O/W D</b>				
1 TOBOB	S34 56.0 E145 04.8	267/267	118	0/0 H	2 HACHI	S28 13.3 E149 23.2	---/332		
					2 ROM NDB	S26 32.6 E148 46.9	333/336	106	0/0 H

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
1 VOMPA	S19 48.4 E146 54.3	338/338	416	0/0 H	4 GUDUG	S07 04.6 E075 00.0	272/272	499	0/0 H
3 TL VOR	S19 14.7 E146 45.5	339/---	35	0/0 H	<b>ATS ROUTE R213 U/L T/W I</b>				
<b>ATS ROUTE Q168 U/L O/W D</b>					2 HOBBO	S12 00.0 E153 09.5	213/213	165	3900/3900
1 KEPPA	S36 47.8 E143 58.5	---/300			2 ISPID	S14 10.9 E151 10.7	214/212	174	3900/3900 H
2 ROBET	S35 45.4 E142 31.0	302/302	94	0/0 H	2 WYNOT	S16 15.3 E149 24.3	212/212	161	1500/1500 H
1 KABEK	S33 23.3 E139 24.7	305/307	209	0/0 H	3 TL VOR	S19 14.7 E146 45.5	213/---	234	3200/3100 H
4 WR NDB	S31 08.6 E136 48.5	309/---	189	0/0 H	<b>ATS ROUTE R340 U/L T/W I</b>				
<b>ATS ROUTE Q172 U/L O/W D</b>					2 WLG VOR	S30 01.7 E148 07.7	---/312		
1 BOR VOR	S36 23.6 E140 44.5	---/270			3 ONIVI	S28 59.1 E147 13.8	313/314	78	2000/2200 H
2 SLOOP	S35 30.0 E135 00.0	276/276	285	0/0 H	2 AKLET	S27 09.2 E145 42.9	315/315	136	2700/2900 H
1 TUNAA	S35 15.0 E133 40.0	277/---	67	0/0 H	5 VILOL	S25 57.9 E144 45.8	316/316	88	3000/3000 H
<b>ATS ROUTE Q188 U/L O/W D</b>					4 TAVEV	S24 15.6 E143 26.6	317/317	125	3000/3000 H
1 BOR VOR	S36 23.6 E140 44.5	---/259			4 SARIK	S22 00.5 E141 45.8	319/319	164	2700/2700 H
2 CANDY	S36 25.5 E135 00.0	265/---	278	0/0 H	4 TASHA	S20 06.7 E140 23.9	320/316	137	3500/3500 H
<b>ATS ROUTE Q295 U/L O/W D</b>					2 RUVAP	S18 13.3 E138 53.0	317/317	142	3500/3500 H
1 HARDD	S27 46.2 E152 48.4	---/214			2 EGORE	S15 21.8 E136 40.1	319/319	213	2700/2700 H
2 DOUGY	S29 10.9 E151 11.2	215/215	120	0/0 H	2 DUMAV	S13 56.4 E135 35.7	320/320	105	2500/2500 H
3 NBR NDB	S30 19.2 E149 49.9	215/---	98	0/0 H	3 IGOPO	S11 56.7 E134 07.1	320/320	147	2900/2900 H
<b>ATS ROUTE Q401 U/L O/W D</b>					4 GUTEV	S08 04.4 E131 19.6	322/322	284	3500/3500 H
3 KAT NDB	S33 42.6 E150 18.0	---/254			<b>ATS ROUTE R346 U/L T/W I</b>				
3 CABIG	S33 51.0 E145 28.3	259/259	242	0/0 H	2 TOSAS	S12 00.0 E147 05.9	176/176	73	1500/1500
2 UVUPU	S33 50.5 E142 32.9	261/---	146	0/0 H	4 BENKI	S14 00.0 E147 00.4	176/176	120	1500/1500 H
<b>ATS ROUTE Q473 U/L O/W D</b>					3 EKOKU	S16 18.0 E146 53.9	175/175	138	1500/1500 H
1 IBUNA	S27 03.5 E152 28.5	---/309			1 SWALO	S17 47.2 E146 49.7	175/175	89	5300/1500 H
1 HAWKE	S26 28.8 E151 55.7	309/---	45	0/0 H	1 SWIFT	S18 21.2 E146 48.0	175/175	34	5300/1500 H
<b>ATS ROUTE Q499 U/L O/W D</b>					3 TL VOR	S19 14.7 E146 45.5	175/---	53	5200/3200 H
1 VOMPA	S19 48.4 E146 54.3	---/326			<b>ATS ROUTE R348 U/L T/W I</b>				
1 FISHY	S17 41.1 E145 48.2	327/327	142	0/0 H	4 KADAP	S02 00.0 E084 09.6	---/249		
3 BIB VOR	S16 55.0 E145 24.7	327/---	51	0/0 H	2 KAMUN	S03 30.3 E080 53.5	250/250	216	1500/1500 H
<b>ATS ROUTE Q587 U/L O/W D</b>					4 LATEP	S06 10.3 E075 00.0	253/253	387	1500/1500 H
2 MRW NDB	S29 12.5 E116 01.4	---/357			<b>ATS ROUTE R587 U/L T/W I</b>				
2 WOLGO	S27 41.0 E115 55.5	357/357	91	0/0 H	3 BN VOR	S27 22.0 E153 08.4	---/048		
2 PADRY	S23 19.9 E115 39.4	356/356	261	0/0 H	1 HARVS	S25 43.0 E156 04.0	046/046	186	2300/0 H
3 JABAL	S21 56.5 E115 34.5	356/356	83	0/0 H	2 GUXIB	S23 38.1 E159 30.8	044/044	226	0/0 H
2 SURFF	S18 52.2 E115 24.0	356/356	184	0/0 H	4 MEPAB	S21 22.8 E163 00.0	043/043	236	1500/1500 H
3 AUSGA	S15 02.5 E115 11.4	355/355	229	0/0 H	<b>ATS ROUTE R592 U/L T/W I</b>				
2 METUM	S14 08.2 E115 08.5	355/---	54	0/0 H	4 PUPIT	S12 00.0 E115 09.0	179/179	44	0/0
<b>ATS ROUTE R204 U/L T/W I</b>					2 METUM	S14 08.2 E115 08.5	179/---	128	1500/1500 H
2 LIDIT	S09 18.0 E142 20.0	173/176	204	16400/16400	<b>ATS ROUTE T8 U/L T/W D</b>				
2 HID NDB	S10 35.5 E142 17.6	176/147	77	2600/2600 H	3 AY VOR	S36 04.1 E146 58.0	---/243		
3 ABLOK	S12 43.1 E143 26.4	146/146	144	3700/3700 B	3 WYMER	S36 52.3 E142 55.4	247/249	201	0/0 H
2 KIMMI	S14 38.8 E144 30.1	145/145	131	4200/4200 B	3 CRENA	S37 16.4 E140 04.9	252/252	139	0/0 H
1 DREWS	S16 07.0 E145 19.6	145/145	100	6000/6000 B	1 BUNGY	S37 29.1 E138 19.8	253/253	85	0/0 H
3 CS VOR	S16 51.0 E145 44.6	144/---	50	6000/6000 B	2 SUBUM	S37 48.7 E135 00.0	257/255	160	0/0 H
<b>ATS ROUTE R206 U/L T/W I</b>					4 TEKUP	S38 15.4 E130 00.0	261/---	238	0/0 H
4 XMX VOR	S10 25.8 E105 41.4	196/130	114	0/0	<b>ATS ROUTE T11 U/L T/W D</b>				
4 ATMAL	S12 00.0 E107 35.5	129/129	146	2300/2300 H	2 ROM NDB	S26 32.6 E148 46.9	---/269		
2 LATOX	S13 26.9 E109 23.3	128/128	136	1500/1500 H	4 VILOL	S25 57.9 E144 45.8	272/272	219	0/0 H
2 METAB	S15 01.5 E111 23.1	128/128	150	1500/1500 H	4 NONET	S25 20.4 E141 08.9	274/274	200	0/0 H
2 SAKTO	S18 59.7 E116 40.4	126/126	386	1500/1500 H	2 MITTS	S24 39.0 E137 40.3	277/277	194	0/0 H
2 PD VOR	S20 22.7 E118 37.4	125/---	138	2100/1600 H	3 PULOL	S24 27.3 E136 45.7	278/278	51	0/0 H
<b>ATS ROUTE R210 U/L T/W I</b>					2 AS VOR	S23 47.6 E133 52.7	280/291	163	0/0 H
3 CS VOR	S16 51.0 E145 44.6	---/004			2 LEESA	S22 08.0 E130 18.5	293/293	221	0/0 H
1 ZANEY	S16 01.7 E145 54.7	004/004	50	3500/5900 H	2 VIPOX	S20 05.0 E126 12.9	296/296	260	0/0 H
2 PUPEB	S14 23.3 E146 14.6	004/004	100	3500/5900 H	5 CESC I	S19 22.3 E124 51.6	296/296	88	0/0 H
4 KAPSO	S12 00.0 E146 43.0	004/004	145	1500/1500 H	4 BRM NDB	S17 56.8 E122 14.1	298/---	172	0/0 H
<b>ATS ROUTE R212 U/L T/W I</b>					<b>ATS ROUTE T12 U/L T/W D</b>				
4 PIBED	S05 20.2 E090 44.0	---/266			1 PH VOR	S31 56.7 E115 57.6	---/283		
4 IDEVI	S06 13.0 E083 18.9	269/269	447	0/0 H	1 WAVES	S31 52.2 E115 31.7	283/287	22	0/0 H
					1 SAILS	S31 48.7 E115 16.3	287/283	14	0/0 H
					1 BRIGG	S31 45.0 E114 54.5	283/283	19	0/0 H
					2 KEELS	S31 28.6 E113 22.7	285/341	80	0/0 H
					4 MERIB	S30 04.0 E112 45.1	341/342	90	0/0 H

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
2 NUNLA	S25 45.2 E111 00.9	342/342	274	0/0 H	3 MERME	S21 17.7 E112 15.3	299/299	117	0/0 H
2 BITAN	S19 22.1 E108 40.3	342/342	403	0/0 H	4 AGSEL	S19 55.5 E109 41.0	300/300	166	0/0 H
2 NODAB	S13 21.6 E106 38.3	342/342	378	0/0 H	2 VERIS	S17 16.2 E105 00.0	302/302	310	0/0 H
4 XMX VOR	S10 25.8 E105 41.4	342/---	184	0/0 H	2 POROR	S13 34.8 E098 58.8	305/305	413	0/0 H
<b>ATS ROUTE T13 U/L T/W D</b>					2 CC VOR	S12 12.0 E096 50.5	306/300	150	0/0 H
2 NTN NDB	S17 41.7 E141 04.4	---/127			2 BEBIM	S10 38.7 E093 50.1	301/301	200	0/0 H
2 DOLIB	S20 33.4 E144 25.0	124/124	256	0/0 H	4 RISMI	S07 07.9 E087 20.1	303/303	439	0/0 H
2 EML NDB	S23 34.0 E148 10.3	121/---	276	0/0 H	3 KAMUN	S03 30.3 E080 53.5	304/299	442	0/0 H
<b>ATS ROUTE T20 U/L T/W D</b>					2 SABEK	S02 08.5 E077 53.6	299/---	198	0/0 H
3 AD VOR	S34 56.8 E138 31.5	---/307			<b>ATS ROUTE T44 U/L T/W D</b>				
1 ARS VOR	S34 25.0 E137 53.6	308/306	45	0/0 H	2 AYE NDB	S25 10.4 E130 58.5	---/278		
2 AKDAV	S33 01.8 E136 12.2	308/308	119	0/0 H	3 CELIA	S24 22.3 E127 19.4	281/281	205	0/0 H
4 RUSAD	S30 49.2 E133 40.4	311/311	185	0/0 H	4 NONAX	S23 31.3 E123 52.1	283/---	197	0/0 H
5 ISMOR	S28 30.2 E131 11.8	313/313	190	0/0 H	<b>ATS ROUTE T47 U/L T/W D</b>				
4 WENER	S26 15.8 E128 56.8	315/318	180	0/0 H	2 AYE NDB	S25 10.4 E130 58.5	---/033		
3 CELIA	S24 22.3 E127 19.4	319/319	143	0/0 H	1 WINAL	S24 41.8 E131 22.4	033/---	36	0/0 B
2 ENPIT	S23 22.0 E126 29.3	320/320	76	0/0 H	<b>ATS ROUTE T53 U/L T/W D</b>				
2 POTIP	S21 41.6 E125 08.0	320/320	125	0/0 H	4 MISLY	S30 49.7 E155 53.5	---/308		
4 BRM NDB	S17 56.8 E122 14.1	322/---	278	0/0 H	1 LAROS	S29 28.9 E154 39.7	310/310	103	0/0 H
<b>ATS ROUTE T21 U/L T/W D</b>					3 CG VOR	S28 10.1 E153 30.2	311/---	99	0/0 H
2 PD VOR	S20 22.7 E118 37.4	---/122			<b>ATS ROUTE T55 U/L T/W D</b>				
5 KADUN	S22 21.0 E121 51.1	120/120	216	0/0 H	1 HBA NDB	S25 19.4 E152 53.0	---/140		
4 NONAX	S23 31.3 E123 52.1	119/119	132	0/0 H	1 LEEFL	S25 45.7 E153 09.2	140/152	30	0/0
4 WENER	S26 15.8 E128 56.8	116/116	322	0/0 H	1 ITIDE	S26 44.1 E153 29.4	152/---	61	0/0 H
3 PUGUT	S27 43.0 E131 53.2	113/113	180	0/0 H	<b>ATS ROUTE T58 U/L T/W D</b>				
2 VIRUV	S28 57.1 E134 33.5	111/111	160	0/0 H	4 SAPDA	S12 00.0 E111 25.6	---/159		
5 CARTS	S29 41.3 E136 14.4	110/110	99	0/0 H	2 SOPAT	S16 16.6 E113 00.5	159/159	272	1500/1500 H
2 LEC VOR	S30 35.8 E138 25.7	108/---	126	0/0 H	2 TIPAM	S19 30.0 E114 14.9	159/152	205	1500/1500 H
<b>ATS ROUTE T25 U/L T/W D</b>					3 JABAL	S21 56.5 E115 34.5	152/152	164	0/0 H
2 BHI VOR	S32 00.0 E141 28.8	---/319			2 COBRA	S24 06.6 E116 47.8	151/---	146	0/0 H
3 SAPED	S31 21.1 E141 00.4	320/320	46	0/0 H	<b>ATS ROUTE T63 U/L T/W D</b>				
4 GUGAB	S29 41.1 E139 50.0	321/324	117	0/0 H	2 BIDAP	S24 24.1 E123 14.7	---/031		
2 POLEV	S26 55.2 E138 10.2	326/326	187	0/0 H	5 NONAX	S23 31.3 E123 52.1	030/030	63	0/0 H
3 PULOL	S24 27.3 E136 45.7	327/327	166	0/0 H	2 POTIP	S21 41.6 E125 08.0	030/030	130	0/0 H
3 ANZAC	S22 44.8 E135 49.4	328/328	114	0/0 H	3 JUGGL	S20 55.0 E125 39.5	029/029	55	0/0 H
2 YUSEF	S21 25.9 E135 07.2	329/329	88	0/0 H	3 VIPOX	S20 05.0 E126 12.9	029/029	59	0/0 H
4 TNK VOR	S19 38.1 E134 10.9	329/---	120	0/0 H	3 TATUK	S19 25.8 E126 38.8	029/029	46	0/0 H
<b>ATS ROUTE T27 U/L T/W D</b>					4 DOPUK	S18 14.6 E127 25.1	029/029	83	0/0 H
2 KU VOR	S15 46.5 E128 42.5	---/222			3 ARG VOR	S16 37.9 E128 26.9	028/---	113	0/0 H
2 MOCHO	S18 43.7 E125 34.0	223/223	252	0/0 H	<b>ATS ROUTE T65 U/L T/W D</b>				
2 RASKY	S20 50.8 E123 12.4	224/224	184	0/0 H	3 POD NDB	S38 18.9 E141 28.4	---/257		
5 TEF NDB	S21 42.7 E122 12.8	225/---	76	0/0 H	2 VETAL	S38 25.3 E135 00.0	264/264	305	0/0 H
<b>ATS ROUTE T28 U/L T/W D</b>					4 TEKUP	S38 15.4 E130 00.0	270/---	236	0/0 H
3 ARG VOR	S16 37.9 E128 26.9	---/229			<b>ATS ROUTE T74 U/L T/W D</b>				
2 MOCHO	S18 43.7 E125 34.0	230/---	207	0/0 H	4 TN VOR	S14 31.2 E132 22.3	---/140		
<b>ATS ROUTE T29 U/L T/W D</b>					4 MILIV	S16 33.1 E133 54.1	139/139	150	0/0 H
4 WR NDB	S31 08.6 E136 48.5	---/311			2 DOTAP	S20 09.3 E136 43.4	137/137	269	0/0 H
2 VIRUV	S28 57.1 E134 33.5	313/313	176	0/0 H	2 VINAX	S21 35.3 E137 53.5	137/136	108	0/0 H
3 ARENI	S26 55.8 E132 35.9	315/315	160	0/0 H	4 NONET	S25 20.4 E141 08.9	133/133	287	0/0 H
2 AYE NDB	S25 10.4 E130 58.5	316/314	137	0/0 H	4 KARAG	S29 00.0 E144 35.7	130/130	286	0/0 H
2 SCHEE	S22 59.1 E128 52.1	315/315	175	0/0 H	2 NYN NDB	S31 33.1 E147 11.7	127/---	204	0/0 H
2 VIPOX	S20 05.0 E126 12.9	317/315	228	0/0 H	<b>ATS ROUTE T77 U/L T/W D</b>				
2 CIN VOR	S17 35.3 E123 51.1	316/---	201	0/0 H	1 BLACK	S34 46.6 E139 24.7	---/063		
<b>ATS ROUTE T33 U/L T/W D</b>					2 UVUPU	S33 50.5 E142 32.9	060/061	166	0/0 H
2 LEC VOR	S30 35.8 E138 25.7	---/078			1 VENEL	S33 28.4 E143 46.4	060/048	65	0/0 H
3 EVIEC	S30 21.3 E141 19.4	075/075	151	0/0 H	2 NYN NDB	S31 33.1 E147 11.7	045/---	208	0/0 H
4 MACLA	S30 10.4 E143 07.4	074/074	94	0/0 H	<b>ATS ROUTE T81 U/L T/W D</b>				
5 SAMMY	S29 53.6 E145 29.1	072/077	124	0/0 H	2 BIB VOR	S16 55.0 E145 24.7	---/164		
2 BALLS	S29 47.6 E147 06.3	076/075	85	0/0 H	1 NORMA	S17 39.8 E145 32.3	164/164	45	0/0 H
2 RACHL	S29 32.2 E150 08.8	073/---	160	0/0 H	2 MORGA	S18 16.8 E145 38.6	164/164	37	0/0 H
<b>ATS ROUTE T41 U/L T/W D</b>					3 BOXER	S22 06.3 E146 18.8	162/---	232	0/0 H
2 LM VOR	S22 14.1 E114 05.7	---/298							

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE T85 U/L T/W D</b>					<b>ATS ROUTE UH258 U/L O/W D</b>				
2 AS VOR	S23 47.6 E133 52.7	---	/274		2 LHI NDB	S31 31.7 E159 04.4	---	/230	
2 SCHEE	S22 59.1 E128 52.1	277/277	281	0/0 H	2 GOOMA	S33 09.6 E155 03.0	232/232	227	4500/0 H
2 NASTI	S22 25.1 E125 42.9	279/279	178	0/0 H	1 SHARK	S34 04.9 E152 33.9	234/---	136	1500/0 H
4 TEF NDB	S21 42.7 E122 12.8	281/278	200	0/0 H	<b>ATS ROUTE UH336 U/L O/W D</b>				
2 RAFFY	S21 15.3 E119 35.7	279/279	149	0/0 H	1 KEPPA	S36 47.8 E143 58.5	---	/331	
2 KA VOR	S20 42.9 E116 46.4	281/---	162	0/0 H	3 NATYA	S34 58.1 E143 14.0	332/---	115	4500/0 H
<b>ATS ROUTE T91 U/L T/W D</b>					<b>ATS ROUTE UH402 U/L O/W D</b>				
2 LEC VOR	S30 35.8 E138 25.7	---	/073		2 SETER	S24 42.9 E154 16.1	---	/184	
3 GOKEN	S30 11.9 E140 58.0	071/071	134	0/0 H	1 LUCAS	S26 41.5 E153 41.4	184/205	122	3600/0 H
4 APOMA	S29 53.9 E142 40.9	070/070	91	0/0 H	3 BN VOR	S27 22.0 E153 08.4	205/---	50	3600/0 H
5 IDODA	S29 26.8 E145 02.2	068/068	126	0/0 H	<b>ATS ROUTE UH408 U/L O/W D</b>				
4 AROLI	S29 07.0 E146 37.0	067/067	85	0/0 H	3 CG VOR	S28 10.1 E153 30.2	---	/218	
2 CRANE	S28 12.4 E150 33.3	064/064	215	0/0 H	1 APAGI	S28 50.9 E152 35.1	219/219	63	5300/0 H
2 ELENI	S27 42.6 E152 29.7	063/063	107	0/0 H	1 ISKIM	S29 30.9 E151 39.8	219/232	63	6500/0 H
3 AMB NDB	S27 38.9 E152 43.4	062/---	13	0/0 H	3 NBR NDB	S30 19.2 E149 49.9	233/230	107	6500/0 H
<b>ATS ROUTE T97 U/L T/W D</b>					<b>ATS ROUTE UJ327 U/L T/W D</b>				
2 MTP VOR	S34 08.1 E135 20.4	---	/276		2 ISTEM	S24 35.9 E160 23.0	---	/200	
2 DANVA	S33 21.4 E131 30.0	280/280	198	0/0 H	4 MISLY	S30 49.7 E155 53.5	201/193	443	0/0 H
2 IVPEM	S32 31.6 E128 00.0	283/282	184	0/0 H	2 GORDO	S32 32.7 E154 55.1	193/193	114	0/0 H
2 MALLY	S31 46.9 E125 00.0	285/285	159	0/0 H	2 KEBAB	S33 16.3 E154 29.6	193/193	49	0/0 H
3 KG VOR	S30 47.4 E121 27.2	288/---	192	0/0 H	4 WARTY	S33 54.4 E154 06.9	193/---	42	0/0 H
<b>ATS ROUTE T131 U/L T/W D</b>					<b>ATS ROUTE UQ205 U/L O/W D</b>				
3 BOR VOR	S36 23.6 E140 44.5	---	/251		1 TAREX	S37 18.4 E145 54.9	---	/216	
1 KROWS	S36 49.9 E137 15.7	254/255	170	0/0 H	1 COLDS	S37 42.7 E145 21.0	216/---	36	0/0 H
2 RUFLE	S37 01.9 E135 00.0	258/260	109	0/0 H	<b>ATS ROUTE UQ215 U/L O/W D</b>				
2 VIBUX	S37 10.2 E130 00.0	265/---	240	0/0 H	1 CB VOR	S35 16.9 E149 11.7	---	/210	
<b>ATS ROUTE T134 U/L T/W D</b>					<b>ATS ROUTE UQ324 U/L O/W D</b>				
4 GEMAC	S38 13.4 E150 19.5	---	/253		1 TOBOB	S34 56.0 E145 04.8	---	/180	
3 POD NDB	S38 18.9 E141 28.4	262/263	418	0/0 H	1 CANTY	S36 48.4 E144 39.1	180/---	114	0/0 H
2 SUBUM	S37 48.7 E135 00.0	271/271	308	0/0 H	<b>ATS ROUTE UQ440 U/L O/W D</b>				
2 VIBUX	S37 10.2 E130 00.0	276/276	242	0/0 H	3 WIZZA	S27 40.4 E153 02.9	---	/235	
4 TAPAX	S36 18.3 E125 00.0	282/---	247	0/0 H	1 HARDD	S27 46.2 E152 48.4	235/235	14	0/0 H
<b>ATS ROUTE T139 U/L T/W D</b>					<b>ATS ROUTE UQ493 U/L O/W D</b>				
1 TOBOB	S34 56.0 E145 04.8	---	/353		1 CAPRI	S22 16.0 E150 11.4	---	/310	
3 KADUV	S32 01.6 E145 19.1	354/354	175	0/0 H	1 PROBO	S22 00.5 E149 57.1	310/---	20	0/0 H
2 VIMAB	S31 30.9 E145 21.5	354/354	31	0/0 H	<b>ATS ROUTE UY87 U/L O/W D</b>				
4 COORS	S29 00.0 E145 33.1	354/354	151	0/0 H	1 MEMUP	S33 45.2 E120 52.5	---	/128	
3 CMU VOR	S28 02.3 E145 37.4	355/356	58	0/0 H	4 TAPAX	S36 18.3 E125 00.0	124/---	254	0/0 H
3 AKLET	S27 09.2 E145 42.9	356/356	53	0/0 H	<b>ATS ROUTE UY93 U/L O/W D</b>				
2 OMUBI	S23 38.3 E146 04.1	357/000	211	0/0 H	1 HERMA	S24 00.8 E132 48.8	---	/061	
3 BOXER	S22 06.3 E146 18.8	000/000	93	0/0 H	1 LISZT	S23 40.0 E133 38.6	061/115	50	0/0 B
3 TL VOR	S19 14.7 E146 45.5	001/---	173	0/0 H	2 AS VOR	S23 47.6 E133 52.7	115/---	15	0/0 B
<b>ATS ROUTE UH201 U/L O/W D</b>					<b>ATS ROUTE UY327 U/L O/W D</b>				
2 WLG VOR	S30 01.7 E148 07.7	---	/121		1 NOLAN	S40 39.5 E147 11.9	---	/010	
2 NANDY	S30 47.2 E149 07.7	120/120	69	5600/0 H	1 MAKRL	S38 29.9 E148 25.5	010/---	141	0/0 H
3 SCO NDB	S32 02.1 E150 49.9	118/---	115	5600/0 H	<b>ATS ROUTE UY409 U/L O/W D</b>				
<b>ATS ROUTE UH205 U/L O/W D</b>					<b>ATS ROUTE UY495 U/L O/W D</b>				
3 GTH VOR	S34 15.0 E146 03.9	---	/090		2 EML NDB	S23 34.0 E148 10.3	---	/118	
1 CULIN	S34 44.4 E149 23.4	087/---	167	5300/0 H	1 EAGLE	S25 44.7 E151 29.5	115/---	223	0/0 H
<b>ATS ROUTE UH206 U/L O/W D</b>					<b>ATS ROUTE UY495 U/L O/W D</b>				
2 MDG VOR	S32 33.7 E149 35.6	---	/337		3 PN VOR	S20 29.8 E148 33.2	---	/150	
2 SGE NDB	S28 02.8 E148 35.8	339/---	275	5400/0 H	3 NITTA	S21 42.6 E149 04.0	150/150	78	5600/0 H
<b>ATS ROUTE UH209 U/L O/W D</b>									
1 NBR NDB	S30 19.2 E149 49.9	---	/143						
3 SCO NDB	S32 02.1 E150 49.9	141/---	115	5600/0 H					
<b>ATS ROUTE UH226 U/L O/W D</b>									
3 RIC NDB	S33 35.8 E150 46.6	---	/291						
2 NYN NDB	S31 33.1 E147 11.7	294/---	219	5500/0 H					

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
3 MAGRA	S22 25.6 E149 22.5	149/149	46	0/0 H	1 GEESE	S24 03.6 E151 00.4	314/314	81	4600/0 L
2 COCKA	S23 02.5 E149 38.5	149/---	40	0/0 H	3 RK VOR	S23 23.0 E150 28.3	315/331	50	4600/0 L
<b>ATS ROUTE V15 L/L O/W D</b>					1 PROBO	S22 00.5 E149 57.1	332/310	87	4100/0 L
1 STURT	S28 43.4 E117 57.8	---/351			3 MK VOR	S21 10.4 E149 11.2	311/301	66	3400/0 L
3 MOG NDB	S28 03.8 E117 50.6	350/---	40	3600/0 L	1 CLIFT	S20 36.3 E148 27.5	301/302	53	5100/0 L
<b>ATS ROUTE V16 L/L O/W D</b>					2 ALISN	S20 10.3 E147 54.6	302/302	40	5000/0 L
4 NWN VOR	S23 25.3 E119 48.2	---/198			3 TL VOR	S19 14.7 E146 45.5	303/342	86	5500/0 L
3 JILGO	S25 00.0 E119 10.9	199/199	100	4300/0 L	1 PEWEE	S17 55.9 E146 30.1	342/342	80	3200/0 L
2 MEK VOR	S26 36.4 E118 32.0	199/202	102	4300/0 L	1 BARIA	S17 12.8 E146 21.8	342/294	44	6700/0 L
3 MOG NDB	S28 03.8 E117 50.6	203/200	95	3200/0 L	3 CS VOR	S16 51.0 E145 44.6	294/---	42	6700/0 L
1 BIU VOR	S30 35.6 E116 46.8	201/200	161	3600/0 L	<b>ATS ROUTE V138 L/L O/W D</b>				
1 MOROK	S31 05.6 E116 34.5	201/201	32	3000/0 L	1 DU VOR	S32 13.2 E148 34.7	---/136		
2 CONNI	S31 29.1 E116 24.7	201/228	25	3000/0 L	3 BIK VOR	S34 10.7 E150 06.4	134/---	140	6000/0 L
1 WOORA	S31 45.2 E116 04.7	228/---	23	3000/0 L	<b>ATS ROUTE V147 L/L O/W D</b>				
<b>ATS ROUTE V17 L/L O/W D</b>					1 AY VOR	S36 04.1 E146 58.0	---/207		
2 WIRAL	S27 46.5 E118 27.6	---/003			1 DUGGI	S36 35.7 E146 26.8	207/207	40	5300/0 L
2 MEK VOR	S26 36.4 E118 32.0	002/---	70	3600/0 L	3 ELW VOR	S37 12.4 E145 50.1	207/---	47	5300/0 L
<b>ATS ROUTE V20 L/L O/W D</b>					<b>ATS ROUTE V153 L/L O/W D</b>				
1 CORDO	S34 19.8 E150 47.1	---/203			3 CS VOR	S16 51.0 E145 44.6	---/153		
3 NERIG	S35 10.7 E150 02.0	204/204	63	6700/0 L	3 IFL NDB	S17 33.7 E146 00.9	153/150	45	6700/0 L
3 COM NDB	S36 21.2 E148 57.5	204/238	88	6700/0 L	2 SPARO	S18 03.3 E146 13.9	150/150	32	3300/0 L
2 DARTS	S36 40.4 E147 50.0	239/239	58	8700/0 L	3 TL VOR	S19 14.7 E146 45.5	149/112	77	5100/0 L
3 ELW VOR	S37 12.4 E145 50.1	240/---	101	8000/0 L	1 WALTA	S19 41.4 E147 35.4	111/111	54	5400/0 L
<b>ATS ROUTE V35 LIMITED SEG D</b>					3 BWN NDB	S20 01.3 E148 12.9	111/134	40	3800/0 L
2 WONYU	S24 55.5 E119 44.8	---/000			3 MK VOR	S21 10.4 E149 11.2	133/156	88	4100/0 L
4 NWN VOR	S23 25.3 E119 48.2	000/---	90	4900/0 B	1 POONA	S21 29.8 E149 17.0	156/156	20	3700/0 L
<b>ATS ROUTE V99 L/L O/W D</b>					3 MURPH	S22 28.8 E149 35.0	155/129	61	3700/0 L
1 BUDGI	S23 46.3 E150 30.3	---/140			3 RK VOR	S23 23.0 E150 28.3	128/---	73	4100/0 L
3 GAY NDB	S25 35.7 E151 40.4	139/---	126	4600/0 L	<b>ATS ROUTE V167 L/L O/W D</b>				
<b>ATS ROUTE V111 L/L O/W D</b>					3 GLA VOR	S23 51.9 E151 12.3	---/144		
3 RK VOR	S23 23.0 E150 28.3	---/166			2 MAGPI	S25 08.9 E151 53.3	144/144	85	4200/0 L
1 BUDGI	S23 46.3 E150 30.3	166/166	23	3600/0 B	1 MLY VOR	S26 44.7 E152 45.7	143/---	107	4200/0 L
3 TNG NDB	S24 29.6 E150 34.2	166/---	43	3900/0 B	<b>ATS ROUTE V169 L/L O/W D</b>				
<b>ATS ROUTE V112 L/L O/W D</b>					3 SY VOR	S33 56.6 E151 10.8	---/208		
2 AS VOR	S23 47.6 E133 52.7	---/219			1 CORDO	S34 19.8 E150 47.1	208/221	30	3400/0 L
1 ANGAS	S25 08.0 E132 26.4	220/263	112	4400/0 B	3 EXETA	S34 38.4 E150 16.5	221/221	31	4800/0 L
2 AYE NDB	S25 10.4 E130 58.5	264/---	80	4400/0 B	3 BUNGO	S34 53.5 E149 51.3	222/222	26	4800/0 L
<b>ATS ROUTE V123 L/L O/W D</b>					3 CB VOR	S35 16.9 E149 11.7	222/219	40	4800/0 L
3 RK VOR	S23 23.0 E150 28.3	---/145			1 CRG NDB	S36 08.9 E147 51.7	220/224	83	8200/0 L
3 MILTY	S24 26.6 E151 02.4	144/144	71	4600/0 L	1 WAZZA	S36 47.9 E146 37.8	225/225	71	8200/0 L
3 GAY NDB	S25 35.7 E151 40.4	143/130	77	4600/0 L	3 ELW VOR	S37 12.4 E145 50.1	226/222	45	7100/0 L
1 MLY VOR	S26 44.7 E152 45.7	129/141	90	4200/0 L	1 BOYSE	S37 18.2 E145 40.2	222/230	10	5500/0 L
1 GAYLA	S26 55.6 E152 52.2	141/140	12	3700/0 L	1 ML VOR	S37 39.6 E144 50.5	230/---	45	4900/0 L
1 BURPA	S27 04.4 E152 57.5	140/140	10	3500/0 L	<b>ATS ROUTE V173 L/L O/W D</b>				
3 BN VOR	S27 22.0 E153 08.4	140/---	20	3500/0 L	4 MIA VOR	S34 13.6 E142 05.2	---/132		
<b>ATS ROUTE V126 U/L O/W D</b>					3 ASWAN	S35 31.1 E143 20.4	131/131	99	2000/0 L
3 ML VOR	S37 39.6 E144 50.5	---/253			1 CANTY	S36 48.4 E144 39.1	129/---	100	4700/0 L
3 YWE VOR	S37 44.3 E143 45.3	254/241	52	3900/0 B	<b>ATS ROUTE V176 L/L O/W D</b>				
3 POD NDB	S38 18.9 E141 28.4	243/---	114	3000/0 B	1 MK VOR	S21 10.4 E149 11.2	---/285		
<b>ATS ROUTE V129 L/L O/W D</b>					1 HARPO	S21 00.4 E148 46.7	285/315	25	5600/0 L
3 BN VOR	S27 22.0 E153 08.4	---/298			1 CLIFT	S20 36.3 E148 27.5	315/---	30	5600/0 L
1 HAWKE	S26 28.8 E151 55.7	299/299	84	4200/0 B	<b>ATS ROUTE V179 L/L O/W D</b>				
3 COOLA	S25 18.0 E150 22.1	300/301	110	3900/0 B	3 BN VOR	S27 22.0 E153 08.4	---/286		
2 EML NDB	S23 34.0 E148 10.3	302/---	159	4500/0 B	1 WACKO	S27 11.3 E152 45.2	286/287	23	4000/0 B
<b>ATS ROUTE V134 L/L O/W D</b>					1 IBUNA	S27 03.5 E152 28.5	287/287	17	4000/0 B
3 BN VOR	S27 22.0 E153 08.4	---/346			3 TAM VOR	S25 48.2 E149 53.8	289/---	158	5300/0 B
1 SU VOR	S26 35.9 E153 05.4	346/312	46	2300/0 L	<b>ATS ROUTE V180 L/L O/W D</b>				
2 MAGPI	S25 08.9 E151 53.3	313/313	108	3900/0 L	2 BHI VOR	S32 00.0 E141 28.8	---/100		
					3 JACKS	S32 40.4 E143 51.7	098/098	128	3000/0 L
					3 LYSMO	S33 10.1 E145 45.4	096/096	100	3300/0 L
					3 DERRY	S33 43.3 E148 02.6	094/094	119	6100/0 L
					3 BIK VOR	S34 10.7 E150 06.4	092/---	107	6100/0 L

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE V200 L/L O/W D</b>					<b>ATS ROUTE V295 L/L O/W D</b>				
1 KSC NDB	S35 42.6 E137 30.8	---	/112		3 SY VOR	S33 56.6 E151 10.8	---	/296	
2 WOKKA	S36 41.2 E139 40.0	110/110		120	2 SOFAL	S33 00.1 E149 46.4	297/296	90	5600/0 L
2 SPIDR	S37 48.3 E142 18.9	107/---	143	5200/0 L	4 DU VOR	S32 13.2 E148 34.7	297/288	77	5600/0 L
<b>ATS ROUTE V205 L/L O/W D</b>					<b>ATS ROUTE V300 L/L O/W D</b>				
1 YORKE	S34 54.7 E137 36.8	---	/274		3 GTH VOR	S34 15.0 E146 03.9	---	/079	
3 LEWIS	S34 45.4 E136 43.0	275/275	45	2300/0 L	3 SCAPA	S34 13.7 E148 14.7	077/077	108	6100/0 L
1 PLC NDB	S34 36.3 E135 52.4	276/---	43	2200/0 L	3 BIK VOR	S34 10.7 E150 06.4	075/---	93	6100/0 L
<b>ATS ROUTE V211 L/L O/W D</b>					<b>ATS ROUTE V316 L/L O/W D</b>				
2 TBD VOR	S35 14.6 E139 30.6	---	/114		3 SY VOR	S33 56.6 E151 10.8	---	/316	
3 NHL VOR	S36 18.9 E141 38.7	111/---	122	2100/0 L	1 GAZEL	S33 14.8 E150 40.3	317/317	49	5600/0 L
<b>ATS ROUTE V217 L/L O/W D</b>					<b>ATS ROUTE V324 L/L O/W D</b>				
1 SU VOR	S26 35.9 E153 05.4	---	/200		2 SCATZ	S32 39.3 E150 15.3	318/316	41	5600/0 L
1 GAYLA	S26 55.6 E152 52.2	200/---	23	3400/0 L	5 CBB NDB	S31 19.8 E149 16.2	317/---	94	5600/0 L
<b>ATS ROUTE V222 L/L O/W D</b>					<b>ATS ROUTE V327 L/L O/W D</b>				
1 SHT NDB	S36 25.7 E145 23.8	---	/164		3 TAM VOR	S25 48.2 E149 53.8	---	/101	
1 LACEY	S37 33.1 E145 30.2	164/---	67	6000/0 L	2 ROWLO	S26 08.8 E150 54.9	100/100	59	3500/0 B
<b>ATS ROUTE V223 L/L O/W D</b>					<b>ATS ROUTE V361 L/L O/W D</b>				
4 ML VOR	S37 39.6 E144 50.5	---	/282		1 SEDAN	S34 34.1 E139 18.5	---	/064	
3 BURRA	S37 00.5 E143 03.2	285/285	94	4700/0 L	3 MAGOO	S34 19.8 E140 10.9	063/063	46	3400/0 L
1 HSM NDB	S36 40.3 E142 10.1	286/---	47	4700/0 L	3 REN NDB	S34 11.5 E140 40.6	062/---	26	1800/0 L
<b>ATS ROUTE V238 L/L O/W D</b>					<b>ATS ROUTE V376 L/L O/W D</b>				
1 EDN NDB	S34 42.4 E138 37.9	---	/273		3 ML VOR	S37 39.6 E144 50.5	---	/314	
1 HAWKY	S34 34.5 E137 51.2	274/---	39	2200/0 L	1 OWENS	S37 14.8 E144 29.5	315/315	30	4500/0 L
<b>ATS ROUTE V240 L/L O/W D</b>					<b>ATS ROUTE V384 L/L O/W D</b>				
3 WWL NDB	S33 56.1 E147 11.4	---	/085		3 PAG NDB	S32 31.6 E137 42.1	---	/164	
3 TYGON	S34 02.0 E148 16.4	084/084	54	6100/0 L	3 MUNDE	S33 32.6 E137 52.9	164/164	62	2800/0 L
3 BIK VOR	S34 10.7 E150 06.4	083/---	92	6100/0 L	1 MARGO	S34 24.8 E138 02.3	164/---	53	2800/0 L
<b>ATS ROUTE V242 L/L O/W D</b>					<b>ATS ROUTE V395 L/L O/W D</b>				
3 KG VOR	S30 47.4 E121 27.2	---	/255		3 REN NDB	S34 11.5 E140 40.6	---	/232	
4 SCR NDB	S31 13.9 E119 21.4	257/257	111	3200/0 L	3 PRICE	S34 24.3 E140 13.3	232/232	26	1800/0 L
1 KELLA	S31 32.9 E117 39.4	259/---	89	3000/0 L	1 BLACK	S34 46.6 E139 24.7	233/---	46	3200/0 L
<b>ATS ROUTE V246 L/L O/W D</b>					<b>ATS ROUTE V410 L/L O/W D</b>				
2 DPO VOR	S41 10.2 E146 26.1	---	/333		3 WG VOR	S35 09.9 E147 28.1	---	/201	
3 TASMA	S40 00.0 E146 04.4	334/334	72	1900/0 L	3 ELW VOR	S37 12.4 E145 50.1	202/---	146	7300/0 L
3 WON VOR	S38 28.3 E145 37.4	335/---	94	3800/0 L	<b>ATS ROUTE V411 L/L O/W D</b>				
<b>ATS ROUTE V255 L/L O/W D</b>					<b>ATS ROUTE V432 L/L O/W D</b>				
3 AD VOR	S34 56.8 E138 31.5	---	/102		1 RAVEN	S36 54.6 E144 12.7	---	/338	
3 TBD VOR	S35 14.6 E139 30.6	101/085	52	3800/0 L	1 YKER AD	S35 45.1 E143 56.4	339/---	71	4000/0 L
3 SWH NDB	S35 22.8 E143 32.4	081/077	198	2000/0 L	<b>ATS ROUTE V434 L/L O/W D</b>				
3 WG VOR	S35 09.9 E147 28.1	073/---	193	3600/0 L	2 ESL NDB	S38 06.7 E147 09.6	---	/270	
<b>ATS ROUTE V264 L/L O/W D</b>					<b>ATS ROUTE V454 L/L O/W D</b>				
3 CS VOR	S16 51.0 E145 44.6	---	/129		2 DUNNE	S37 55.0 E146 07.2	272/271	51	6600/0 L
1 PAWSO	S17 12.7 E146 06.3	129/165	30	4800/0 L	1 PLE NDB	S37 43.2 E145 06.7	272/---	49	6600/0 L
2 SPARO	S18 03.3 E146 13.9	165/---	51	5200/0 L	<b>ATS ROUTE V454 L/L O/W D</b>				
<b>ATS ROUTE V279 U/L O/W D</b>					<b>ATS ROUTE V454 L/L O/W D</b>				
3 POD NDB	S38 18.9 E141 28.4	---	/067		4 MIA VOR	S34 13.6 E142 05.2	---	/246	
1 STONE	S38 00.6 E143 06.8	065/065	80	2700/0 B					
1 WENDY	S37 50.4 E143 58.7	065/064	42	3900/0 B					
3 ML VOR	S37 39.6 E144 50.5	064/---	42	3900/0 B					
<b>ATS ROUTE V294 L/L O/W D</b>									
2 WYY VOR	S41 00.0 E145 43.6	---	/345						
2 DIPLO	S40 00.0 E145 41.0	345/346	60	2400/0 L					
3 WON VOR	S38 28.3 E145 37.4	346/---	92	2400/0 L					

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
3 TUMAN	S34 36.2 E140 17.8	247/248	92	2200/0	L	<b>ATS ROUTE W14 L/L T/W D</b>			
1 BLACK	S34 46.6 E139 24.7	248/248	45	3400/0	L	1 RTI NDB	S32 00.3 E115 32.7	---/348	
3 AD VOR	S34 56.8 E138 31.5	249/---	45	3800/0	L	3 JNB VOR	S30 18.8 E115 03.2	347/350	104
<b>ATS ROUTE V496 L/L O/W D</b>						1 ONGAR	S29 12.0 E114 47.9	350/350	68
1 RAVEN	S36 54.6 E144 12.7	---/329				2 GEL VOR	S28 47.4 E114 42.4	350/347	25
3 SWH NDB	S35 22.8 E143 32.4	330/---	97	4000/0	L	3 HAMEL	S26 50.5 E114 10.8	347/347	120
<b>ATS ROUTE V501 L/L O/W D</b>						2 CAR VOR	S24 52.9 E113 40.4	347/009	120
1 CORDO	S34 19.8 E150 47.1	---/186				2 LM VOR	S22 14.1 E114 05.7	008/---	160
3 NWA NDB	S34 57.1 E150 31.8	186/---	39	5400/0	L	<b>ATS ROUTE W15 L/L T/W D</b>			
<b>ATS ROUTE V512 L/L O/W D</b>						1 ML VOR	S37 39.6 E144 50.5	---/235	
1 COLDS	S37 42.7 E145 21.0	---/255				1 LLOYD	S37 46.6 E144 30.7	235/176	17
1 PLE NDB	S37 43.2 E145 06.7	256/256	11	5000/0	L	1 TEMPL	S37 52.6 E144 29.7	176/178	6
1 EN NDB	S37 43.6 E144 54.7	256/---	10	2100/0	L	1 AV VOR	S38 02.9 E144 27.5	178/---	11
<b>ATS ROUTE V527 L/L O/W D</b>						<b>ATS ROUTE W20 L/L T/W D</b>			
3 PN VOR	S20 29.8 E148 33.2	---/290				1 PH VOR	S31 56.7 E115 57.6	---/197	
2 ALISN	S20 10.3 E147 54.6	290/---	41	5000/0	L	1 MANDU	S32 31.4 E115 46.5	197/197	36
<b>ATS ROUTE V559 L/L O/W D</b>						1 BLN NDB	S33 41.5 E115 23.7	198/---	73
3 GOOTA	S22 01.6 E118 19.3	---/204				<b>ATS ROUTE W24 L/L T/W D</b>			
2 PBO VOR	S23 10.4 E117 44.2	204/---	76	5500/0	L	1 BWX NDB	S20 51.4 E115 24.4	---/183	
<b>ATS ROUTE V588 L/L O/W D</b>						2 LYNDN	S23 30.0 E115 11.0	184/184	159
3 LTV NDB	S38 12.8 E146 28.5	---/281				3 TOKIP	S27 38.2 E114 48.8	185/185	248
3 MOZZA	S38 04.9 E146 05.9	282/282	19	2900/0	L	2 GEL VOR	S28 47.4 E114 42.4	186/---	69
1 HARRO	S37 47.0 E145 16.8	283/283	43	4500/0	L	<b>ATS ROUTE W40 L/L T/W D</b>			
1 PLE NDB	S37 43.2 E145 06.7	283/---	9	3600/0	L	4 MRV NDB	S35 53.9 E150 08.6	---/340	
<b>ATS ROUTE V599 L/L O/W D</b>						3 NERIG	S35 10.7 E150 02.0	340/351	43
3 CWR VOR	S33 50.9 E148 38.7	---/082				3 BIK VOR	S34 10.7 E150 06.4	351/---	60
1 HOGAN	S33 53.4 E149 34.9	081/081	47	5700/0	L	<b>ATS ROUTE W101 L/L T/W D</b>			
1 MUSTA	S33 53.8 E149 45.3	081/081	9	6100/0	L	1 RTI NDB	S32 00.3 E115 32.7	---/082	
1 WYATT	S33 54.3 E149 56.6	081/080	9	5800/0	L	1 PH VOR	S31 56.7 E115 57.6	082/---	21
1 WATLE	S33 55.3 E150 25.2	080/080	24	5800/0	L	<b>ATS ROUTE W105 L/L T/W D</b>			
3 SY VOR	S33 56.6 E151 10.8	079/---	38	5000/0	L	1 SMI NDB	S40 50.0 E145 04.9	---/096	
<b>ATS ROUTE V621 L/L O/W D</b>						2 WYY VOR	S41 00.0 E145 43.6	095/095	31
3 CDU NDB	S32 07.6 E133 43.6	---/124				2 DPO VOR	S41 10.2 E146 26.1	094/109	34
3 SPENA	S34 15.7 E136 54.4	120/120	205	3000/0	L	3 LT VOR	S41 32.6 E147 12.8	108/---	42
1 RIKAB	S34 44.0 E137 39.0	120/---	46	3000/0	L	<b>ATS ROUTE W106 L/L T/W D</b>			
<b>ATS ROUTE V623 L/L O/W D</b>						1 NICLA	S32 03.1 E152 00.3	---/038	
1 EDN NDB	S34 42.4 E138 37.9	---/120				1 PMQ NDB	S31 26.1 E152 52.0	038/338	57
1 GULLY	S34 47.4 E138 45.6	120/118	8	3300/0	L	1 KMP NDB	S31 03.5 E152 47.4	338/---	23
3 TBD VOR	S35 14.6 E139 30.6	117/---	46	0/0	L	<b>ATS ROUTE W111 L/L T/W D</b>			
<b>ATS ROUTE V653 L/L O/W D</b>						2 KRY NDB	S26 34.7 E151 50.7	---/176	
2 REMBO	S24 27.4 E117 18.8	---/016				2 OK VOR	S27 24.0 E151 44.3	176/---	49
2 PBO VOR	S23 10.4 E117 44.2	016/009	80	5300/0	L	<b>ATS ROUTE W112 L/L T/W D</b>			
3 BUTON	S21 24.8 E118 05.1	009/---	107	5500/0	L	3 HM VOR	S20 21.1 E148 57.4	---/287	
<b>ATS ROUTE V707 L/L O/W D</b>						3 BWN NDB	S20 01.3 E148 12.9	287/---	46
1 PLC NDB	S34 36.3 E135 52.4	---/089				<b>ATS ROUTE W113 L/L T/W D</b>			
3 PILBY	S34 40.2 E136 44.0	088/088	43	2200/0	L	3 WG VOR	S35 09.9 E147 28.1	---/055	
1 RIKAB	S34 44.0 E137 39.0	087/---	46	2300/0	L	1 HAPPI	S34 57.8 E148 01.6	054/054	30
<b>ATS ROUTE V796 L/L O/W D</b>						3 BIK VOR	S34 10.7 E150 06.4	053/063	113
1 EDN NDB	S34 42.4 E138 37.9	---/093				1 WELSH	S34 08.1 E150 18.5	063/063	10
3 PANKI	S34 58.6 E140 21.0	091/---	86	3600/0	L	1 ODALE	S34 05.4 E150 31.1	063/063	11
<b>ATS ROUTE W10 L/L T/W D</b>						3 SY VOR	S33 56.6 E151 10.8	062/---	34
3 WOL NDB	S34 33.5 E150 47.5	---/246				<b>ATS ROUTE W114 L/L T/W D</b>			
3 EXETA	S34 38.4 E150 16.5	247/247	26	4200/4200	L	1 JT NDB	S32 06.2 E115 53.2	---/023	
3 YAS NDB	S34 49.7 E149 02.5	248/243	62	4500/4500	L	1 PH VOR	S31 56.7 E115 57.6	023/---	10
3 WG VOR	S35 09.9 E147 28.1	244/235	80	4600/4600	L	<b>ATS ROUTE W115 L/L T/W D</b>			
1 YTOC AD	S35 48.6 E145 36.2	236/---	99	3300/3300	L	3 ACTIN	S33 30.2 E138 01.6	---/359	
						3 QUORN	S32 21.6 E138 11.1	359/359	69
						2 LEC VOR	S30 35.8 E138 25.7	359/---	106

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	
<b>ATS ROUTE W116 L/L T/W D</b>					3 NWA NDB	S34 57.1 E150 31.8	176/---	40	4300/4300 L	
1 MANDU	S32 31.4 E115 46.5	---	/187		<b>ATS ROUTE W148 L/L T/W D</b>					
1 YBUN ALA	S33 22.7 E115 40.6	188/---		51	2700/2700 L	3 WG VOR	S35 09.9 E147 28.1	---	/083	
<b>ATS ROUTE W117 L/L T/W D</b>					3 CB VOR	S35 16.9 E149 11.7	082/---	85	6500/6200 B	
2 NATTY	S31 33.4 E137 08.5	---	/318		<b>ATS ROUTE W149 L/L T/W D</b>					
4 WR NDB	S31 08.6 E136 48.5	319/---		30	2300/2300 L	2 LHI NDB	S31 31.7 E159 04.4	---	/243	
<b>ATS ROUTE W118 L/L T/W D</b>					2 EKIDA	S31 58.6 E156 46.8	244/244	120	4500/4500 L	
3 AY VOR	S36 04.1 E146 58.0	---	/164		2 GOANA	S32 26.5 E154 09.4	246/246	136	1500/1500 L	
2 ESL NDB	S38 06.7 E147 09.6	163/---		123	7900/7900 L	3 WLM NDB	S32 48.2 E151 49.7	248/---	120	3000/2600 L
<b>ATS ROUTE W121 L/L T/W D</b>					<b>ATS ROUTE W154 L/L T/W D</b>					
4 NWN VOR	S23 25.3 E119 48.2	---	/051		2 PD VOR	S20 22.7 E118 37.4	---	/123		
5 TEF NDB	S21 42.7 E122 12.8	050/---		168	4000/4000 B	1 YMBL ALA	S21 09.8 E119 50.0	122/102	83	2700/2700 L
<b>ATS ROUTE W122 L/L T/W D</b>					4 TEF NDB	S21 42.7 E122 12.8	101/---	137	2900/3100 L	
3 CB VOR	S35 16.9 E149 11.7	---	/022		<b>ATS ROUTE W165 L/L T/W D</b>					
3 BIK VOR	S34 10.7 E150 06.4	022/---		80	5100/5100 L	2 PD VOR	S20 22.7 E118 37.4	---	/111	
<b>ATS ROUTE W125 L/L T/W D</b>					3 BRIAN	S21 00.3 E120 16.2	110/110	100	2800/2800 L	
2 PD VOR	S20 22.7 E118 37.4	---	/159		4 TEF NDB	S21 42.7 E122 12.8	109/---	117	3100/2900 L	
3 BORAH	S21 57.2 E119 13.5	158/158		100	3300/3300 L	<b>ATS ROUTE W168 L/L T/W D</b>				
4 NWN VOR	S23 25.3 E119 48.2	158/---		93	4900/4300 L	3 CWR VOR	S33 50.9 E148 38.7	---	/094	
<b>ATS ROUTE W127 L/L T/W D</b>					3 BIK VOR	S34 10.7 E150 06.4	093/---	76	5700/5700 L	
1 RTI NDB	S32 00.3 E115 32.7	---	/111		<b>ATS ROUTE W169 L/L T/W D</b>					
1 JT NDB	S32 06.2 E115 53.2	110/---		18	1600/1600 L	3 LAV VOR	S28 05.4 E152 55.5	---	/200	
<b>ATS ROUTE W128 L/L T/W D</b>					3 TW VOR	S31 04.0 E150 49.8	201/---	209	6400/6400 L	
1 AF NDB	S27 34.2 E153 01.0	---	/178		<b>ATS ROUTE W170 L/L T/W D</b>					
3 LAV VOR	S28 05.4 E152 55.5	178/192		31	3300/3300 L	3 WLM NDB	S32 48.2 E151 49.7	---	/230	
3 GBA NDB	S29 35.8 E152 10.7	192/189		98	6300/5900 L	1 LOWEP	S33 04.1 E151 13.8	230/228	34	3500/3500 L
4 MACKA	S30 34.9 E151 45.6	189/189		63	6300/6400 L	1 MQD NDB	S33 06.7 E151 08.4	228/---	5	3500/3500 L
3 MSO NDB	S31 23.2 E151 24.7	189/---		51	5900/5900 L	<b>ATS ROUTE W172 L/L T/W D</b>				
<b>ATS ROUTE W130 L/L T/W D</b>					1 PH VOR	S31 56.7 E115 57.6	---	/155		
3 SGT NDB	S32 33.1 E151 15.5	---	/334		1 SOLUS	S32 28.9 E116 16.7	155/155	36	3400/3400 L	
3 TW VOR	S31 04.0 E150 49.8	335/---		92	6200/6200 L	2 JOSBU	S33 08.2 E116 40.4	155/155	44	3400/3400 L
<b>ATS ROUTE W137 L/L T/W D</b>					1 ABA NDB	S34 57.1 E117 48.6	154/---	123	3800/3400 L	
3 CB VOR	S35 16.9 E149 11.7	---	/332		<b>ATS ROUTE W174 L/L T/W D</b>					
3 YAS NDB	S34 49.7 E149 02.5	332/329		28	4400/4400 B	3 WLM NDB	S32 48.2 E151 49.7	---	/321	
3 CWR VOR	S33 50.9 E148 38.7	330/020		62	4100/4100 B	3 TIMBO	S32 10.4 E151 27.7	322/322	42	6600/6600 L
2 MDG VOR	S32 33.7 E149 35.6	020/---		91	6100/6100 B	3 TW VOR	S31 04.0 E150 49.8	323/271	74	6600/6600 L
<b>ATS ROUTE W138 L/L T/W D</b>					3 GDH NDB	S30 57.2 E150 14.9	271/319	31	4500/4500 L	
1 CORDO	S34 19.8 E150 47.1	---	/228		3 NBR NDB	S30 19.2 E149 49.9	320/---	44	3200/3200 L	
3 GLB NDB	S34 48.4 E149 44.2	229/211		59	4400/4400 L	<b>ATS ROUTE W175 L/L T/W D</b>				
3 CB VOR	S35 16.9 E149 11.7	211/---		39	4800/4800 L	3 WBR NDB	S26 07.7 E126 34.8	---	/235	
<b>ATS ROUTE W139 L/L O/W D</b>					2 SCARR	S27 41.7 E123 39.7	237/237	182	3400/3400 L	
3 SY VOR	S33 56.6 E151 10.8	---	/013		2 LEO NDB	S28 52.7 E121 19.2	239/---	143	3300/3300 L	
1 KAMBA	S33 29.7 E151 26.0	013/013		30	2500/0 L	<b>ATS ROUTE W177 L/L T/W D</b>				
1 TOOKI	S33 16.1 E151 33.8	013/013		15	2500/0 L	2 AS VOR	S23 47.6 E133 52.7	---	/359	
3 WLM NDB	S32 48.2 E151 49.7	013/012		31	2500/0 L	3 CINDA	S22 47.6 E133 57.1	359/359	60	5000/5300 L
2 CFS VOR	S30 19.2 E153 07.3	012/---		163	5500/0 L	2 DERAK	S21 21.9 E134 03.4	359/359	86	4800/5000 L
<b>ATS ROUTE W142 L/L T/W D</b>					4 TNK VOR	S19 38.1 E134 10.9	359/---	104	3700/3700 L	
3 WHA NDB	S33 03.5 E137 31.5	---	/144		<b>ATS ROUTE W178 L/L T/W D</b>					
3 COMAC	S33 33.1 E137 51.1	143/143		34	1900/1900 L	1 DBY NDB	S17 21.4 E123 40.0	---	/140	
1 WAKEN	S34 08.1 E138 14.5	143/143		40	2800/2800 L	2 CIN VOR	S17 35.3 E123 51.1	140/108	17	1800/1800 L
1 EDN NDB	S34 42.4 E138 37.9	142/192		39	2800/2800 L	2 FTZ NDB	S18 11.1 E125 33.4	107/128	104	2300/2300 L
3 AD VOR	S34 56.8 E138 31.5	192/---		15	2200/2200 L	3 MILNA	S19 12.0 E126 48.4	127/127	94	3000/3200 L
<b>ATS ROUTE W144 L/L T/W D</b>					4 BGO NDB	S20 08.2 E127 59.3	126/---	87	3000/3000 L	
1 RIC TAC	S33 36.4 E150 47.9	---	/179		<b>ATS ROUTE W180 L/L T/W D</b>					
3 CN NDB	S34 02.3 E150 41.5	179/176		26	2400/2500 L	3 CG VOR	S28 10.1 E153 30.2	---	/208	
1 TONTO	S34 17.6 E150 38.7	176/176		15	3400/3900 L	3 GBA NDB	S29 35.8 E152 10.7	208/196	110	5500/5500 L
						4 ARM NDB	S30 31.6 E151 36.9	196/180	63	6300/6300 L
						3 MSO NDB	S31 23.2 E151 24.7	180/175	52	5900/5900 L

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
3 SGT NDB	S32 33.1 E151 15.5	174/171	70	6600/6600	L	2 CRISO	S19 34.3 E138 34.8	136/136	235	2900/2900	L
1 MONDO	S32 56.6 E151 14.2	170/170	23	3600/3600	L	3 MA VOR	S20 39.9 E139 29.1	136/---	83	3200/3200	L
1 LOWEP	S33 04.1 E151 13.8	170/170	8	3600/3600	L	<b>ATS ROUTE W195 L/L T/W D</b>					
1 YAKKA	S33 11.5 E151 13.4	170/170	7	3600/3600	L	3 MSO NDB	S31 23.2 E151 24.7	---	165		
1 CAA NDB	S33 24.2 E151 12.7	170/170	13	2900/2900	L	3 TIMBO	S32 10.4 E151 27.7	165/162	47	6600/6600	L
3 SY VOR	S33 56.6 E151 10.8	170/---	32	2400/2400	L	3 WMD VOR	S32 45.3 E151 31.9	162/---	35	6600/6600	L
<b>ATS ROUTE W182 L/L T/W D</b>											
2 PLO VOR	S30 29.5 E152 21.6	---	179			<b>ATS ROUTE W196 LIMITED SEG D</b>					
1 NICLA	S32 03.1 E152 00.3	179/179	95	6500/6500	L	3 TAM VOR	S25 48.2 E149 53.8	---	117		
3 WLM NDB	S32 48.2 E151 49.7	179/---	46	6500/6500	L	1 JEDDA	S27 09.4 E151 57.2	115/115	137	5300/5300	L
<b>ATS ROUTE W183 L/L T/W D</b>											
3 TW VOR	S31 04.0 E150 49.8	---	168			3 AMB NDB	S27 38.9 E152 43.4	114/116	51	5300/4200	L
3 SCO NDB	S32 02.1 E150 49.9	168/---	58	6200/6200	L	3 CG VOR	S28 10.1 E153 30.2	115/164	52	3700/3700	L
<b>ATS ROUTE W184 L/L T/W D</b>											
3 YAS NDB	S34 49.7 E149 02.5	---	359			1 BNA NDB	S28 50.1 E153 33.7	164/183	40	3700/3700	L
2 MDG VOR	S32 33.7 E149 35.6	000/---	139	6100/5400	B	2 CFS VOR	S30 19.2 E153 07.3	183/189	92	3300/3300	L
<b>ATS ROUTE W185 L/L T/W D</b>											
2 MRW NDB	S29 12.5 E116 01.4	---	155			1 KMP NDB	S31 03.5 E152 47.4	189/184	47	3100/3100	L
1 BIU VOR	S30 35.6 E116 46.8	155/160	92	2800/2800	L	2 TRE NDB	S31 53.4 E152 30.6	184/---	52	4000/4000	L
3 CUN NDB	S31 37.5 E117 13.4	160/189	66	2700/2700	L	<b>ATS ROUTE W199 L/L T/W D</b>					
3 PIY NDB	S32 32.4 E117 04.5	189/167	55	2900/2900	L	3 LRE VOR	S23 25.5 E144 16.9	---	351		
3 OCKLY	S32 48.9 E117 09.3	168/167	17	2800/2800	L	5 LODEN	S22 06.2 E144 15.2	351/351	79	2700/2700	L
1 ABA NDB	S34 57.1 E117 48.6	167/---	132	3800/3800	L	3 HUG VOR	S20 48.8 E144 13.4	351/337	77	3000/3000	L
<b>ATS ROUTE W186 L/L T/W D</b>											
3 GAY NDB	S25 35.7 E151 40.4	---	291			3 SENNA	S17 00.0 E143 07.3	338/338	236	5300/5300	L
3 FORTT	S24 50.2 E150 20.0	293/293	86	3400/3900	L	3 WP VOR	S12 40.4 E141 55.3	340/---	268	3100/2700	L
2 EML NDB	S23 34.0 E148 10.3	294/---	141	4500/4400	L	<b>ATS ROUTE W200 L/L T/W D</b>					
<b>ATS ROUTE W188 L/L T/W D</b>											
3 ELW VOR	S37 12.4 E145 50.1	---	206			3 AD VOR	S34 56.8 E138 31.5	---	022		
1 LACEY	S37 33.1 E145 30.2	206/206	26	5500/5500	L	1 PF NDB	S34 47.8 E138 37.9	022/---	10	2400/2400	L
1 COLDS	S37 42.7 E145 21.0	206/206	12	5200/5200	L	<b>ATS ROUTE W202 L/L T/W D</b>					
1 HARRO	S37 47.0 E145 16.8	206/206	5	3600/3600	L	2 CIN VOR	S17 35.3 E123 51.1	---	098		
1 MB NDB	S37 58.6 E145 05.4	206/---	15	3600/3600	L	3 SANDY	S17 53.8 E125 36.6	097/097	102	3000/4300	L
<b>ATS ROUTE W189 L/L T/W D</b>											
3 AMB NDB	S27 38.9 E152 43.4	---	042			1 HLC NDB	S18 14.0 E127 40.3	096/---	120	3800/4300	L
3 BN VOR	S27 22.0 E153 08.4	042/---	28	2800/2800	B	<b>ATS ROUTE W203 L/L T/W D</b>					
<b>ATS ROUTE W190 L/L T/W D</b>											
3 ML VOR	S37 39.6 E144 50.5	---	206			1 CLARK	S42 28.4 E147 00.7	---	355		
1 AV VOR	S38 02.9 E144 27.5	207/---	30	2600/2600	L	3 LT VOR	S41 32.6 E147 12.8	355/---	56	5800/5800	L
<b>ATS ROUTE W191 L/L T/W D</b>											
3 YWE VOR	S37 44.3 E143 45.3	---	258			<b>ATS ROUTE W207 L/L T/W D</b>					
3 MTG VOR	S37 45.1 E140 47.1	261/---	141	4100/4100	L	1 SU VOR	S26 35.9 E153 05.4	---	224		
<b>ATS ROUTE W192 L/L T/W D</b>											
2 MDG VOR	S32 33.7 E149 35.6	---	336			1 KCY NDB	S26 55.1 E152 34.4	225/226	34	3600/3600	L
5 CBB NDB	S31 19.8 E149 16.2	336/068	76	4300/4300	L	3 OK VOR	S27 24.0 E151 44.3	227/181	53	3900/3900	L
3 TW VOR	S31 04.0 E150 49.8	067/111	82	4500/4500	L	2 IVL NDB	S29 53.1 E151 08.4	181/204	152	5500/4900	L
3 MSO NDB	S31 23.2 E151 24.7	111/043	36	5900/5900	L	3 GDH NDB	S30 57.2 E150 14.9	205/206	79	5000/5000	L
2 CFS VOR	S30 19.2 E153 07.3	042/357	109	6200/6200	L	2 PKS VOR	S33 07.9 E148 14.2	207/---	166	5100/5400	L
1 TUCAB	S29 28.8 E153 16.1	357/357	51	3300/3300	L	<b>ATS ROUTE W209 L/L T/W D</b>					
3 TUCKI	S28 55.3 E153 22.2	358/357	34	2500/2500	L	3 BN VOR	S27 22.0 E153 08.4	---	165		
3 CG VOR	S28 10.1 E153 30.2	358/313	46	4200/4200	L	3 LIS NDB	S28 49.4 E153 15.4	164/---	87	5300/5300	L
1 MOOVI	S27 54.8 E153 17.7	313/313	19	3400/3400	L	<b>ATS ROUTE W213 L/L T/W D</b>					
1 AF NDB	S27 34.2 E153 01.0	313/---	25	3400/3400	L	1 HLC NDB	S18 14.0 E127 40.3	---	268		
<b>ATS ROUTE W193 L/L T/W D</b>											
2 DN VOR	S12 25.4 E130 54.4	---	126			2 FTZ NDB	S18 11.1 E125 33.4	269/---	121	3800/3800	L
1 HODDA	S13 16.1 E131 57.9	126/125	80	2400/2900	L	<b>ATS ROUTE W214 LIMITED SEG D</b>					
3 KARSI	S13 57.3 E132 50.2	125/125	65	3000/3400	L	3 CG VOR	S28 10.1 E153 30.2	---	198		
2 SNOOD	S15 09.5 E134 23.1	124/124	115	3000/3000	L	3 GAMBL	S28 52.5 E153 02.9	198/166	49	5200/5300	L
2 MHU NDB	S16 26.8 E136 04.7	123/138	125	2500/2400	L	2 CFS VOR	S30 19.2 E153 07.3	166/203	87	3800/3600	L
<b>ATS ROUTE W217 L/L T/W D</b>											
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**AIR ROUTES – 18**

**AIP AUSTRALIA**

**SECTION 22**

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
2 ANTLA	S40 00.0 E147 11.3	166/166	113	2300/2600	L	5 BURTO	S23 07.2 E146 36.9	062/062	77	3200/3200	L
1 NOLAN	S40 39.5 E147 11.9	166/166	39	2700/1700	L	3 CMT NDB	S22 46.4 E147 37.5	061/067	60	3900/3900	L
2 LT VOR	S41 32.6 E147 12.8	165/---	53	6000/5300	L	1 DYS NDB	S22 35.9 E148 21.1	067/104	42	4100/4100	L
<b>ATS ROUTE W219 L/L T/W D</b>					<b>ATS ROUTE W241 L/L T/W D</b>						
3 LTV NDB	S38 12.8 E146 28.5	---/158				3 NWA NDB	S34 57.1 E150 31.8	---/240			
2 HELIX	S40 00.0 E146 51.6	157/157	109	3900/6500	L	3 CB VOR	S35 16.9 E149 11.7	241/---	69	5100/4800	L
3 LT VOR	S41 32.6 E147 12.8	156/---	94	5300/5300	L	<b>ATS ROUTE W243 L/L T/W D</b>					
<b>ATS ROUTE W220 L/L T/W D</b>					<b>ATS ROUTE W245 L/L T/W D</b>						
1 KAMBA	S33 29.7 E151 26.0	---/354				3 YWE VOR	S37 44.3 E143 45.3	---/262			
1 GUNTA	S33 12.2 E151 28.3	354/354	18	3400/3400	L	1 HML NDB	S37 39.0 E142 03.5	264/---	81	4100/4100	L
3 WMD VOR	S32 45.3 E151 31.9	354/328	27	3400/3400	L	<b>ATS ROUTE W246 L/L T/W D</b>					
3 TW VOR	S31 04.0 E150 49.8	329/299	107	6600/6600	L	3 AMB NDB	S27 38.9 E152 43.4	---/324			
3 NBR NDB	S30 19.2 E149 49.9	300/---	68	4400/4400	L	3 GAY NDB	S25 35.7 E151 40.4	325/---	135	4300/4300	L
<b>ATS ROUTE W223 L/L T/W D</b>					<b>ATS ROUTE W249 L/L T/W D</b>						
2 GAMBL	S28 52.5 E153 02.9	---/170				3 GV VOR	S12 15.9 E136 49.0	---/091			
3 GFN NDB	S29 45.6 E153 01.6	169/160	53	2500/3200	L	5 PEACH	S12 23.1 E138 10.7	090/090	80	1900/1900	L
2 CFS VOR	S30 19.2 E153 07.3	160/179	34	3300/3300	L	5 CHERY	S12 32.0 E140 00.0	089/089	107	1500/1500	L
1 PMQ NDB	S31 26.1 E152 52.0	179/202	68	3100/3100	L	3 WP VOR	S12 40.4 E141 55.3	089/---	113	1900/1900	L
2 TRE NDB	S31 53.4 E152 30.6	202/237	33	3400/3400	L	<b>ATS ROUTE W252 L/L T/W D</b>					
1 NICLA	S32 03.1 E152 00.3	237/197	28	3700/4900	L	3 GDI NDB	S28 31.4 E150 19.6	---/276			
3 WMD VOR	S32 45.3 E151 31.9	198/---	48	5000/4900	L	2 SGE NDB	S28 02.8 E148 35.8	278/297	96	2400/2400	L
<b>ATS ROUTE W226 L/L T/W D</b>					<b>ATS ROUTE W256 L/L T/W D</b>						
2 GV VOR	S12 15.9 E136 49.0	---/238				3 AMB NDB	S27 38.9 E152 43.4	---/137			
3 DUMPA	S13 26.9 E134 30.8	239/239	152	2900/2900	L	1 BNA NDB	S28 50.1 E153 33.7	136/201	84	5300/5300	L
3 TRUKA	S13 58.4 E133 28.1	239/239	69	2900/2900	L	3 PLO VOR	S30 29.5 E152 21.6	201/255	117	6500/6500	L
4 TN VOR	S14 31.2 E132 22.3	239/246	72	2900/2900	L	4 ARM NDB	S30 31.6 E151 36.9	256/---	39	6600/6600	L
3 NUTTA	S15 00.5 E130 58.3	247/247	86	2600/2600	L	<b>ATS ROUTE W257 L/L T/W D</b>					
2 KU VOR	S15 46.5 E128 42.5	248/293	139	2700/2700	L	2 CIN VOR	S17 35.3 E123 51.1	---/210			
2 WYM NDB	S15 30.6 E128 09.1	293/284	36	2800/2800	L	2 OSVOL	S20 15.1 E122 02.9	211/211	189	2600/2600	B
3 YMIP ALA	S14 47.4 E125 49.5	285/---	142	3100/3100	L	3 SARMO	S21 41.8 E121 02.4	211/211	103	3400/3400	B
<b>ATS ROUTE W228 L/L T/W D</b>					<b>ATS ROUTE W258 U/L T/W D</b>						
1 HBA NDB	S25 19.4 E152 53.0	---/161				4 NWN VOR	S23 25.3 E119 48.2	212/---	124	4100/4100	B
1 SU VOR	S26 35.9 E153 05.4	161/---	77	2800/2800	L	<b>ATS ROUTE W260 L/L T/W D</b>					
<b>ATS ROUTE W232 L/L T/W D</b>					<b>ATS ROUTE W263 U/L T/W D</b>						
3 TL VOR	S19 14.7 E146 45.5	---/160				2 CAG VOR	S32 15.8 E125 29.7	---/290			
5 OLDER	S21 11.2 E147 13.7	159/159	119	5300/5500	L	3 KG VOR	S30 47.4 E121 27.2	293/---	225	2900/2900	B
3 CMT NDB	S22 46.4 E147 37.5	158/---	97	4200/3200	L	<b>ATS ROUTE W264 L/L T/W D</b>					
<b>ATS ROUTE W233 L/L T/W D</b>					<b>ATS ROUTE W266 L/L T/W D</b>						
2 WYY VOR	S41 00.0 E145 43.6	---/132				3 GTH VOR	S34 15.0 E146 03.9	---/184			
2 IRONS	S41 46.4 E146 27.7	130/130	57	6300/6300	L	3 YANCO	S35 16.7 E145 43.9	184/184	64	3000/3000	L
1 SYNOT	S42 13.2 E146 53.8	130/129	33	6300/6300	L	3 MNG VOR	S36 53.2 E145 11.7	184/---	100	3000/3000	L
2 HB VOR	S42 50.8 E147 31.6	128/---	47	5300/5300	L	<b>ATS ROUTE W267 L/L T/W D</b>					
<b>ATS ROUTE W235 L/L T/W D</b>					<b>ATS ROUTE W268 L/L T/W D</b>						
3 GTH VOR	S34 15.0 E146 03.9	---/118				2 GEL VOR	S28 47.4 E114 42.4	---/028			
3 WG VOR	S35 09.9 E147 28.1	116/---	89	2900/2900	L	3 BURKE	S27 02.0 E115 41.4	026/026	117	2800/3200	L
<b>ATS ROUTE W237 L/L T/W D</b>					<b>ATS ROUTE W269 L/L T/W D</b>						
2 DN VOR	S12 25.4 E130 54.4	---/250				4 BANKS	S25 01.2 E116 46.5	025/025	134	5100/4000	L
3 SIDER	S12 48.0 E129 35.8	251/251	80	1600/1900	L	2 PBO VOR	S23 10.4 E117 44.2	024/---	122	5100/5100	L
3 NAILA	S13 12.9 E128 07.2	251/251	90	1500/1600	L	<b>ATS ROUTE W270 L/L T/W D</b>					
1 TTX NDB	S13 45.3 E126 08.9	252/---	120	2500/1500	L	<b>ATS ROUTE W271 L/L T/W D</b>					
<b>ATS ROUTE W238 L/L T/W D</b>					<b>ATS ROUTE W272 L/L T/W D</b>						
1 YOLD AD	S30 29.1 E136 52.6	---/154				2 GEL VOR	S28 47.4 E114 42.4	---/028			
3 PAG NDB	S32 31.6 E137 42.1	153/157	129	4200/4200	L	3 BURKE	S27 02.0 E115 41.4	026/026	117	2800/3200	L
3 ACTIN	S33 30.2 E138 01.6	157/156	61	3400/4600	L	4 BANKS	S25 01.2 E116 46.5	025/025	134	5100/4000	L
1 WAKEN	S34 08.1 E138 14.5	156/156	39	3400/3400	L	2 PBO VOR	S23 10.4 E117 44.2	024/---	122	5100/5100	L
1 HOLIT	S34 27.9 E138 21.4	156/156	21	3400/3400	L	<b>ATS ROUTE W273 L/L T/W D</b>					
3 AD VOR	S34 56.8 E138 31.5	156/---	30	3400/3400	L	<b>ATS ROUTE W274 L/L T/W D</b>					
<b>ATS ROUTE W240 L/L T/W D</b>					<b>ATS ROUTE W275 L/L T/W D</b>						
3 LRE VOR	S23 25.5 E144 16.9	---/091				3 GTH VOR	S34 15.0 E146 03.9	---/184			
3 BAR NDB	S23 33.5 E145 17.9	090/062	57	2400/2400	L	3 YANCO	S35 16.7 E145 43.9	184/184	64	3000/3000	L

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE W265 L/L T/W D</b>					2 HB VOR	S42 50.8 E147 31.6	139/---	80	6000/6000 L
3 JLC NDB	S20 39.9 E141 43.5	---	068		<b>ATS ROUTE W283 L/L T/W D</b>				
2 SIMAS	S20 14.5 E143 17.6	067/067	92	3100/4200 L	3 LTV NDB	S38 12.8 E146 28.5	---/358		
2 THOMO	S19 41.5 E145 14.4	066/066	115	5300/5300 L	3 AY VOR	S36 04.1 E146 58.0	358/---	131	7300/7300 L
3 TL VOR	S19 14.7 E146 45.5	065/---	90	4900/4200 L	<b>ATS ROUTE W284 L/L T/W D</b>				
<b>ATS ROUTE W266 L/L T/W D</b>					3 SY VOR	S33 56.6 E151 10.8	---/035		
3 CB VOR	S35 16.9 E149 11.7	---/279			1 DONIC	S33 22.8 E151 54.5	034/341	50	1900/1900 L
3 HOWLY	S34 46.0 E147 36.6	280/280	84	6100/7500 L	3 WLM NDB	S32 48.2 E151 49.7	341/---	35	1900/1900 L
3 GTH VOR	S34 15.0 E146 03.9	282/---	83	4500/4500 L	<b>ATS ROUTE W285 L/L T/W D</b>				
<b>ATS ROUTE W267 L/L T/W D</b>					3 GV VOR	S12 15.9 E136 49.0	---/069		
3 LAV VOR	S28 05.4 E152 55.5	---/209			4 GILUM	S11 36.6 E139 00.8	068/068	135	1900/1900 L
3 VILLA	S28 29.4 E152 32.2	210/210	32	5900/5900 L	3 HID NDB	S10 35.5 E142 17.6	067/---	203	2300/2300 L
2 IVL NDB	S29 53.1 E151 08.4	210/---	111	6400/6400 L	<b>ATS ROUTE W286 L/L T/W D</b>				
<b>ATS ROUTE W270 L/L T/W D</b>					3 PLO VOR	S30 29.5 E152 21.6	---/210		
3 AMB NDB	S27 38.9 E152 43.4	---/275			3 MSO NDB	S31 23.2 E151 24.7	211/---	72	6500/6500 L
1 GERBL	S27 34.5 E152 25.6	275/275	16	2700/2700 L	<b>ATS ROUTE W287 L/L T/W D</b>				
3 OK VOR	S27 24.0 E151 44.3	275/303	38	4100/4100 L	3 BRM NDB	S17 56.8 E122 14.1	---/065		
3 TAM VOR	S25 48.2 E149 53.8	305/315	138	3200/3600 L	1 DBY NDB	S17 21.4 E123 40.0	064/069	89	2000/2000 L
5 OVENS	S24 59.2 E149 15.3	315/315	60	3900/3900 L	3 PARAD	S17 02.6 E124 37.3	068/068	58	2700/3300 L
2 EML NDB	S23 34.0 E148 10.3	316/---	104	3900/3900 L	2 GIB NDB	S16 25.8 E126 25.9	067/058	110	4000/4000 L
<b>ATS ROUTE W271 L/L T/W D</b>					2 WYM NDB	S15 30.6 E128 09.1	058/038	114	3400/3400 L
3 ESP VOR	S33 40.8 E121 49.4	---/359			3 TOMAS	S13 26.2 E130 00.8	038/038	165	2600/2600 L
3 NSM NDB	S32 11.7 E121 47.9	358/347	89	3000/3000 L	2 DN VOR	S12 25.4 E130 54.4	038/---	80	2200/1900 L
3 KG VOR	S30 47.4 E121 27.2	347/326	86	3000/3000 L	<b>ATS ROUTE W290 L/L T/W D</b>				
3 WALLI	S29 27.5 E120 29.4	327/327	94	3400/3400 L	3 CB VOR	S35 16.9 E149 11.7	---/178		
3 YINGA	S27 44.1 E119 17.5	328/328	121	3600/3400 L	3 COM NDB	S36 21.2 E148 57.5	178/206	65	7500/7500 L
2 MEK VOR	S26 36.4 E118 32.0	328/347	79	3600/3400 L	3 TAMBO	S37 27.6 E147 49.6	207/206	86	7500/7500 L
3 WOODS	S24 48.6 E118 06.5	347/347	110	4700/4700 L	2 ESL NDB	S38 06.7 E147 09.6	207/---	50	6300/6300 L
2 PBO VOR	S23 10.4 E117 44.2	347/338	100	4700/4700 L	<b>ATS ROUTE W291 L/L T/W D</b>				
3 WEBBA	S21 53.7 E117 13.8	339/339	81	5300/5300 L	4 NHL VOR	S36 18.9 E141 38.7	---/121		
2 KA VOR	S20 42.9 E116 46.4	339/---	75	4700/4700 L	1 HSM NDB	S36 40.3 E142 10.1	120/120	33	2200/2200 L
<b>ATS ROUTE W272 L/L T/W D</b>					3 YWE VOR	S37 44.3 E143 45.3	119/109	99	4700/4700 L
3 BRM NDB	S17 56.8 E122 14.1	---/110			1 WENDY	S37 50.4 E143 58.7	109/108	12	3000/3000 L
2 BELOP	S19 00.0 E125 00.0	109/110	170	2900/2900 L	1 AV VOR	S38 02.9 E144 27.5	107/051	26	2900/2900 L
4 BGO NDB	S20 08.2 E127 59.3	108/121	182	2900/2900 L	1 PCK NDB	S37 55.6 E144 45.4	051/020	16	1700/1700 L
2 FOLEY	S21 53.1 E130 43.3	120/120	186	4100/4100 L	1 EN NDB	S37 43.6 E144 54.7	020/---	14	2100/2100 L
2 AS VOR	S23 47.6 E133 52.7	118/---	209	6400/5500 L	<b>ATS ROUTE W292 L/L T/W D</b>				
<b>ATS ROUTE W274 L/L T/W D</b>					3 BOU NDB	S22 54.9 E139 54.4	---/007		
2 AYE NDB	S25 10.4 E130 58.5	---/135			3 CCY NDB	S20 39.9 E140 30.1	007/004	138	2700/2700 L
3 CAULI	S26 27.5 E132 11.8	134/134	101	6100/6100 L	5 FLATS	S18 58.1 E140 49.8	004/004	103	2400/2400 L
4 RIDGE	S27 44.6 E133 27.6	133/134	102	5600/6100 L	2 NTN NDB	S17 41.7 E141 04.4	004/002	77	2100/2100 L
1 CBP NDB	S29 01.9 E134 43.4	133/143	102	3300/2700 L	3 KERIN	S16 12.6 E141 17.7	002/005	90	2100/2100 L
3 MEBAH	S30 13.4 E135 33.0	142/143	83	2200/2400 L	5 TEDDY	S14 44.4 E141 34.6	005/004	89	2100/2100 L
5 WIRMA	S31 22.0 E136 19.7	143/143	79	2200/2200 L	3 WP VOR	S12 40.4 E141 55.3	004/004	125	2100/2100 L
3 WHA NDB	S33 03.5 E137 31.5	141/---	118	2700/2700 L	3 HID NDB	S10 35.5 E142 17.6	005/---	126	2800/2200 L
<b>ATS ROUTE W279 L/L T/W D</b>					<b>ATS ROUTE W293 L/L T/W D</b>				
1 AF NDB	S27 34.2 E153 01.0	---/267			4 MIA VOR	S34 13.6 E142 05.2	---/135		
1 IMATI	S27 29.3 E152 23.6	268/268	34	3200/3200 L	3 PROST	S35 33.6 E143 14.8	134/134	98	2000/2000 L
3 OK VOR	S27 24.0 E151 44.3	268/246	35	4200/4200 L	3 BDG NDB	S36 44.6 E144 19.6	132/---	88	2800/2600 L
5 BARTA	S27 44.5 E150 07.3	247/247	89	3200/3200 L	<b>ATS ROUTE W294 L/L T/W D</b>				
2 SGE NDB	S28 02.8 E148 35.8	248/---	83	2800/2700 L	2 GEL VOR	S28 47.4 E114 42.4	---/341		
<b>ATS ROUTE W281 L/L T/W D</b>					1 YSHK AD	S25 53.6 E113 34.6	341/005	183	2400/2400 L
4 TN VOR	S14 31.2 E132 22.3	---/092			2 CAR VOR	S24 52.9 E113 40.4	005/---	61	1700/1700 L
1 NGU NDB	S14 43.5 E134 44.3	091/093	138	2400/2400 L	<b>ATS ROUTE W295 U/L T/W D</b>				
3 HANKY	S15 08.6 E138 20.7	091/091	211	2200/2600 L	2 HB VOR	S42 50.8 E147 31.6	---/335		
3 KOW NDB	S15 28.8 E141 44.9	089/104	198	1900/1900 L	3 LT VOR	S41 32.6 E147 12.8	336/---	79	5400/5400 B
3 COKES	S16 01.2 E143 17.4	103/103	95	2300/2500 L	<b>ATS ROUTE W296 L/L T/W D</b>				
3 BURBN	S16 21.3 E144 16.1	103/103	60	4800/4500 L	1 MB NDB	S37 58.6 E145 05.4	---/352		
3 CS VOR	S16 51.0 E145 44.6	102/---	90	5900/5800 L					
<b>ATS ROUTE W282 L/L T/W D</b>									
2 DPO VOR	S41 10.2 E146 26.1	---/141							
3 LIFFY	S41 39.0 E146 44.3	140/140	32	6000/6000 L					

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	
1 PLE NDB	S37 43.2 E145 06.7	352/---	15	2100/2100	L					
<b>ATS ROUTE W297 L/L T/W D</b>					<b>ATS ROUTE W321 L/L T/W D</b>					
2 ESL NDB	S38 06.7 E147 09.6	---/049			2 LM VOR	S22 14.1 E114 05.7	---/106			
3 GIPPS	S37 42.6 E148 05.1	048/049	50	3900/3900	L	2 WYLOO	S22 48.4 E116 15.8	104/104	125	
1 MER NDB	S36 54.9 E149 54.0	047/---	99	5700/5700	L	2 PBO VOR	S23 10.4 E117 44.2	103/097	84	
<b>ATS ROUTE W298 L/L T/W D</b>					<b>ATS ROUTE W325 L/L T/W D</b>					
2 SGE NDB	S28 02.8 E148 35.8	---/133			3 AD VOR	S34 56.8 E138 31.5	---/033			
3 MOR NDB	S29 29.8 E149 51.1	132/148	109	2800/2800	L	1 RUSSL	S34 18.8 E139 11.0	032/032	50	
2 SGT NDB	S32 33.1 E151 15.5	146/---	197	6500/6500	L	3 HOBBS	S33 48.3 E139 42.2	032/032	40	
<b>ATS ROUTE W302 L/L T/W D</b>					<b>ATS ROUTE W326 L/L T/W D</b>					
3 BN VOR	S27 22.0 E153 08.4	---/233			2 ALTRO	S33 10.0 E140 20.6	031/031	50	3500/3800	
2 DUNKN	S27 39.1 E152 27.7	234/234	40	5000/5400	L	2 BHI VOR	S32 00.0 E141 28.8	031/002	91	
3 DIGGA	S27 52.9 E151 54.6	234/234	32	5000/5400	L	3 BANCA	S30 50.0 E141 44.6	002/003	71	
3 GDI NDB	S28 31.4 E150 19.6	235/234	92	4500/4700	L	3 TIB NDB	S29 26.8 E142 03.5	003/---	85	
3 BURCH	S29 02.5 E149 02.7	235/235	74	2400/2400	L					
1 YLRD AD	S29 27.4 E147 59.1	236/---	61	2300/2300	L					
<b>ATS ROUTE W306 L/L T/W D</b>					<b>ATS ROUTE W328 L/L T/W D</b>					
1 WKB NDB	S36 19.2 E142 24.7	---/133			3 AMB NDB	S27 38.9 E152 43.4	---/193			
3 BURRA	S37 00.5 E143 03.2	132/132	52	4700/4700	L	1 VONDO	S28 18.1 E152 23.8	193/193	43	
3 YWE VOR	S37 44.3 E143 45.3	131/---	55	4700/4700	L	3 GLI NDB	S29 40.3 E151 41.7	193/197	90	
<b>ATS ROUTE W307 L/L T/W D</b>					<b>ATS ROUTE W330 L/L T/W D</b>					
2 CAR VOR	S24 52.9 E113 40.4	---/035			3 TW VOR	S31 04.0 E150 49.8	---/055			
3 BRUCE	S23 05.9 E115 02.0	034/034	130	2500/2600	L	3 PLO VOR	S30 29.5 E152 21.6	054/064	86	
3 PANNA	S21 20.6 E116 19.3	033/033	127	4000/2800	L	2 CFS VOR	S30 19.2 E153 07.3	063/---	41	
2 KA VOR	S20 42.9 E116 46.4	033/---	45	3900/2500	L					
<b>ATS ROUTE W308 L/L T/W D</b>					<b>ATS ROUTE W331 L/L T/W D</b>					
2 FLI NDB	S40 05.7 E148 00.9	---/291			2 ROM NDB	S26 32.6 E148 46.9	---/294			
3 CWS VOR	S38 30.5 E145 12.8	295/316	161	3900/3900	L	5 LORNE	S25 32.5 E147 09.8	296/296	106	
1 PCK NDB	S37 55.6 E144 45.4	317/---	41	2500/2500	L	3 BCK NDB	S24 25.6 E145 26.2	297/305	115	
<b>ATS ROUTE W309 L/L T/W D</b>					<b>ATS ROUTE W332 L/L T/W D</b>					
3 CS VOR	S16 51.0 E145 44.6	---/313			3 LRE VOR	S23 25.5 E144 16.9	306/330	87	2400/2400	
2 TAMED	S14 55.2 E144 05.1	314/314	150	5900/5900	L	3 RMD NDB	S20 41.9 E143 06.6	331/---	176	
3 COE NDB	S13 46.0 E143 07.0	315/---	89	4100/4100	L					
<b>ATS ROUTE W310 L/L T/W D</b>					<b>ATS ROUTE W334 L/L T/W D</b>					
2 PKS VOR	S33 07.9 E148 14.2	---/226			1 VEGAH	S29 24.6 E152 49.4	---/141			
3 GTH VOR	S34 15.0 E146 03.9	228/204	128	3200/3200	L	3 GFN NDB	S29 45.6 E153 01.6	141/207	23	
3 DLQ NDB	S35 33.1 E144 57.1	205/183	95	2300/2300	L	3 PLO VOR	S30 29.5 E152 21.6	207/---	56	
1 ECH NDB	S36 09.9 E144 45.9	183/177	38	2100/2100	L					
1 CANTY	S36 48.4 E144 39.1	177/---	39	2900/2900	L					
<b>ATS ROUTE W311 L/L T/W D</b>					<b>ATS ROUTE W335 L/L T/W D</b>					
1 TWB NDB	S27 32.5 E151 54.7	---/081			3 AY VOR	S36 04.1 E146 58.0	---/049			
1 WOBBL	S27 33.4 E152 25.2	081/081	27	3800/4100	L	5 COPPA	S35 46.9 E147 34.9	048/048	35	
1 AF NDB	S27 34.2 E153 01.0	080/---	32	3800/4100	L	1 WOLBI	S35 28.9 E148 12.5	047/048	36	
<b>ATS ROUTE W314 L/L T/W D</b>					<b>ATS ROUTE W338 L/L T/W D</b>					
3 KG VOR	S30 47.4 E121 27.2	---/355			1 WJS VOR	S35 15.6 E148 40.1	047/---	26	6700/6700	
2 LEO NDB	S28 52.7 E121 19.2	355/331	115	3100/3100	L					
3 LST NDB	S27 50.4 E120 42.0	331/---	70	3300/3300	L					
<b>ATS ROUTE W318 L/L T/W D</b>					<b>ATS ROUTE W339 L/L T/W D</b>					
3 TW VOR	S31 04.0 E150 49.8	---/320			1 BK NDB	S33 55.7 E150 59.3	---/278			
3 MOR NDB	S29 29.8 E149 51.1	321/---	107	6500/6500	L	3 KAT NDB	S33 42.6 E150 18.0	279/---	37	
<b>ATS ROUTE W319 L/L T/W D</b>					<b>ATS ROUTE W340 L/L T/W D</b>					
3 BIB VOR	S16 55.0 E145 24.7	---/225			3 CCY NDB	S20 39.9 E140 30.1	---/123			
3 GTN NDB	S18 17.7 E143 32.9	226/231	135	4800/5200	L	5 TINAH	S21 36.3 E141 45.3	122/122	90	
3 SAVAN	S19 24.2 E141 41.0	232/232	125	2800/4300	L	3 HOTTA	S22 29.6 E142 58.2	121/120	86	
3 MA VOR	S20 39.9 E139 29.1	233/---	145	3400/3200	L					
<b>ATS ROUTE W320 L/L T/W D</b>										
3 GDI NDB	S28 31.4 E150 19.6	---/038								
3 OK VOR	S27 24.0 E151 44.3	037/---	101	3600/3600	L					

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
3 LRE VOR	S23 25.5 E144 16.9	119/---	92	2800/2800	L	3 LITEL	S18 34.5 E138 00.5	141/141	89	2900/2900	L
<b>ATS ROUTE W341 L/L T/W D</b>					3 MA VOR	S20 39.9 E139 29.1	140/128	150	3200/3200	L	
1 WLU NDB	S26 37.5 E120 13.2	---/269			5 MIDEL	S22 24.0 E141 25.6	127/126	150	3400/3400	L	
2 MEK VOR	S26 36.4 E118 32.0	270/236	91	3500/3500	L	5 HAMER	S24 09.3 E143 28.2	125/125	154	2700/2700	L
1 JAYBE	S27 12.4 E117 30.8	236/236	65	3800/3800	L	3 MORIS	S25 49.6 E145 30.1	123/122	149	3300/3000	L
2 BLIGH	S28 02.2 E116 04.0	238/238	92	3500/3500	L	3 CV VOR	S26 25.3 E146 16.0	122/094	54	3000/2800	L
2 GEL VOR	S28 47.4 E114 42.4	239/---	85	2900/2900	L	5 BAMBI	S26 46.9 E148 06.8	092/092	102	3400/3800	L
<b>ATS ROUTE W342 L/L T/W D</b>					5 ALONE	S27 06.0 E149 53.5	091/091	97	3500/3500	L	
3 SGT NDB	S32 33.1 E151 15.5	---/013			3 OK VOR	S27 24.0 E151 44.3	089/131	100	4200/3200	L	
3 TIMBO	S32 10.4 E151 27.7	012/012	25	6600/6600	L	1 DEBEE	S28 05.6 E152 20.8	131/131	53	5900/5900	L
3 JOKER	S31 25.0 E151 51.8	012/013	50	6600/6600	L	3 GAMBL	S28 52.5 E153 02.9	130/---	60	5900/5900	L
3 PLO VOR	S30 29.5 E152 21.6	013/---	61	6500/6500	L	<b>ATS ROUTE W357 L/L T/W D</b>					
<b>ATS ROUTE W343 L/L T/W D</b>					1 CANTY	S36 48.4 E144 39.1	---/025				
3 BNS NDB	S37 52.9 E147 34.1	---/222			4 NAR VOR	S34 42.1 E146 31.0	024/032	156	3200/4100	L	
2 ESL NDB	S38 06.7 E147 09.6	222/---	24	2400/2400	L	2 PKS VOR	S33 07.9 E148 14.2	031/---	127	3200/3200	L
<b>ATS ROUTE W344 L/L T/W D</b>					<b>ATS ROUTE W358 L/L T/W D</b>						
2 AS VOR	S23 47.6 E133 52.7	---/109			3 YAS NDB	S34 49.7 E149 02.5	---/341				
3 STEEL	S24 19.9 E135 12.6	108/108	80	4200/4600	L	1 RUG NDB	S34 23.2 E148 58.5	341/339	27	4100/4100	L
3 WILLS	S25 23.8 E137 59.0	106/106	164	3100/3800	L	4 DU VOR	S32 13.2 E148 34.7	340/---	131	6100/6100	L
3 BDV NDB	S25 53.8 E139 21.2	105/---	80	1900/1900	L	<b>ATS ROUTE W359 L/L T/W D</b>					
<b>ATS ROUTE W345 L/L T/W D</b>					2 MDG VOR	S32 33.7 E149 35.6	---/025				
1 TONTO	S34 17.6 E150 38.7	---/223			3 QDI NDB	S31 29.6 E150 31.4	025/020	80	5500/5500	L	
3 GLB NDB	S34 48.4 E149 44.2	223/---	55	4400/4400	L	3 TW VOR	S31 04.0 E150 49.8	020/---	30	4700/4700	L
<b>ATS ROUTE W346 L/L T/W D</b>					<b>ATS ROUTE W364 L/L T/W D</b>						
3 BOR VOR	S36 23.6 E140 44.5	---/292			2 DN VOR	S12 25.4 E130 54.4	---/081				
3 MICRO	S35 57.6 E139 52.8	293/293	49	1800/1800	L	3 WOOPA	S12 16.9 E132 15.6	080/080	80	1800/1800	L
1 LRT NDB	S35 41.3 E139 20.9	294/---	31	1800/1800	L	1 MGD NDB	S12 03.8 E134 13.9	080/089	117	2700/2400	L
<b>ATS ROUTE W347 L/L T/W D</b>					1 YMGB AD	S12 05.7 E134 53.6	089/080	39	1600/1600	L	
1 MQD NDB	S33 06.7 E151 08.4	---/031			1 YELD AD	S12 01.2 E135 34.2	079/097	40	1600/1600	L	
3 WMD VOR	S32 45.3 E151 31.9	030/350	29	3500/0	L	3 GV VOR	S12 15.9 E136 49.0	097/120	75	1900/1900	L
4 ARM NDB	S30 31.6 E151 36.9	350/353	133	6600/6600	L	4 CARDO	S13 00.8 E137 56.9	119/120	80	1800/1800	L
3 GLI NDB	S29 40.3 E151 41.7	353/350	51	6400/6400	L	5 GULFF	S14 22.0 E140 00.0	118/118	145	1500/1500	L
3 OK VOR	S27 24.0 E151 44.3	350/347	136	5800/6400	L	3 KOW NDB	S15 28.8 E141 44.9	117/107	121	1500/1500	L
3 GAY NDB	S25 35.7 E151 40.4	348/336	108	5200/5200	L	2 TRUDY	S16 05.7 E143 15.7	106/105	95	2300/2400	L
3 GLA VOR	S23 51.9 E151 12.3	337/---	107	4500/4500	L	5 HERON	S16 32.8 E144 26.6	105/105	73	5600/3900	L
<b>ATS ROUTE W349 L/L T/W D</b>					3 BIB VOR	S16 55.0 E145 24.7	105/189	60	5800/5100	L	
3 BOU NDB	S22 54.9 E139 54.4	---/343			5 DOTTE	S18 41.9 E144 52.7	189/189	111	5700/6000	L	
3 MA VOR	S20 39.9 E139 29.1	344/355	137	4000/4000	L	3 HUG VOR	S20 48.8 E144 13.4	189/153	132	4900/4800	L
5 MYALL	S19 06.0 E139 30.6	355/355	94	3200/3200	L	3 SLASH	S22 23.0 E144 49.9	152/152	100	3000/3000	L
1 BKT NDB	S17 45.1 E139 31.9	355/337	81	2700/2700	L	3 BAR NDB	S23 33.5 E145 17.9	152/111	75	2800/2400	L
1 MTI NDB	S16 39.5 E139 10.2	337/---	68	1500/1500	L	5 ARTON	S24 38.6 E147 27.4	109/109	135	5400/5400	L
<b>ATS ROUTE W353 L/L T/W D</b>					3 TAM VOR	S25 48.2 E149 53.8	107/---	150	5500/5500	L	
2 WLG VOR	S30 01.7 E148 07.7	---/002			<b>ATS ROUTE W365 L/L T/W D</b>						
2 SGE NDB	S28 02.8 E148 35.8	002/082	121	2200/2200	L	3 RIC NDB	S33 35.8 E150 46.6	---/349			
3 BONGO	S28 05.0 E150 20.0	080/080	92	2700/2800	L	1 RUNNA	S33 15.9 E150 47.3	350/350	20	4300/4900	L
3 ALORA	S28 05.6 E151 57.0	079/079	86	5900/4400	L	3 SCO NDB	S32 02.1 E150 49.9	350/---	74	4300/4900	L
1 DEBEE	S28 05.6 E152 20.8	079/079	21	5900/5900	L	<b>ATS ROUTE W368 L/L T/W D</b>					
3 LAV VOR	S28 05.4 E152 55.5	078/---	31	5900/5900	L	3 KAT NDB	S33 42.6 E150 18.0	---/062			
<b>ATS ROUTE W354 L/L T/W D</b>					3 RIC NDB	S33 35.8 E150 46.6	062/---	25	5000/5000	L	
3 BN VOR	S27 22.0 E153 08.4	---/197			<b>ATS ROUTE W369 L/L T/W D</b>						
1 AF NDB	S27 34.2 E153 01.0	197/242	14	2300/2300	L	3 BN VOR	S27 22.0 E153 08.4	---/257			
3 AMB NDB	S27 38.9 E152 43.4	242/---	16	2700/4000	L	2 RUDEY	S27 23.2 E152 23.4	258/258	40	4100/4100	L
<b>ATS ROUTE W356 L/L T/W D</b>					3 OK VOR	S27 24.0 E151 44.3	258/277	35	4100/4100	L	
2 DN VOR	S12 25.4 E130 54.4	---/119			5 DAMIN	S26 56.4 E150 07.0	278/278	91	3200/3200	L	
3 NICOL	S13 07.8 E132 03.9	118/118	80	2200/2600	L	2 ROM NDB	S26 32.6 E148 46.9	279/263	76	3000/3000	L
3 TRUKA	S13 58.4 E133 28.1	118/118	96	3000/3000	L	2 CV VOR	S26 25.3 E146 16.0	265/264	136	3700/3700	L
1 NGU NDB	S14 43.5 E134 44.3	117/128	86	3000/3000	L	5 NIKIL	S26 18.0 E144 11.7	266/266	112	2800/2900	L
1 BRL NDB	S16 04.6 E136 18.3	127/142	122	2200/2200	L	5 PEPPY	S26 06.6 E141 39.5	268/268	137	2500/2700	L
3 YARDD	S17 20.3 E137 09.3	142/142	90	2600/2700	L	3 BDV NDB	S25 53.8 E139 21.2	270/---	125	2400/2400	L
<b>ATS ROUTE W371 L/L T/W D</b>					3 AMB NDB	S27 38.9 E152 43.4	---/091				
					3 JCW VOR	S27 45.7 E153 20.1	090/---	33	2900/2900	L	

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	
<b>ATS ROUTE W374 L/L T/W D</b>					2 TURET	S19 57.1 E123 40.8	043/043	133	3000/3300 L	
2 EML NDB	S23 34.0 E148 10.3	---	/104		2 FTZ NDB	S18 11.1 E125 33.4	042/049	150	2700/2700 L	
2 TNG NDB	S24 29.6 E150 34.2	103/095		143	4500/4500 L	2 KU VOR	S15 46.5 E128 42.5	048/---	231	4700/4700 L
3 BUD NDB	S24 54.4 E152 19.2	094/140		99	4500/4500 L	<b>ATS ROUTE W397 L/L T/W D</b>				
1 MYB NDB	S25 31.2 E152 42.6	139/152		42	1700/1700 L	1 SU VOR	S26 35.9 E153 05.4	---	/317	
1 SU VOR	S26 35.9 E153 05.4	151/152		68	3100/3100 L	3 CLAMP	S26 05.4 E152 44.0	317/317	36	3000/0 L
1 HOLIS	S26 51.2 E153 10.6	152/173		16	2300/2300 L	1 KASPA	S25 48.8 E152 32.2	317/317	20	3400/0 L
3 BN VOR	S27 22.0 E153 08.4	173/---		31	2100/2100 L	2 KETEN	S25 04.3 E152 01.5	318/318	52	3900/0 L
<b>ATS ROUTE W377 L/L T/W D</b>					3 GLA VOR	S23 51.9 E151 12.3	319/---	85	4500/0 L	
5 HBK NDB	S35 37.5 E147 28.0	---	/065		<b>ATS ROUTE W399 L/L T/W D</b>					
1 WOLBI	S35 28.9 E148 12.5	064/064		37	6700/6700 L	1 COR NDB	S35 59.2 E146 21.4	---	/057	
3 CB VOR	S35 16.9 E149 11.7	063/---		50	7500/7200 L	5 HBK NDB	S35 37.5 E147 28.0	056/047	58	3600/3600 L
<b>ATS ROUTE W379 L/L T/W D</b>					3 YAS NDB	S34 49.7 E149 02.5	046/---	91	6000/6000 L	
2 ROM NDB	S26 32.6 E148 46.9	---	/044		<b>ATS ROUTE W402 L/L T/W D</b>					
3 TAM VOR	S25 48.2 E149 53.8	044/---		75	3700/3700 L	1 BKT NDB	S17 45.1 E139 31.9	---	/082	
<b>ATS ROUTE W381 L/L T/W D</b>					2 NTN NDB	S17 41.7 E141 04.4	082/---	88	1500/1500 L	
4 ARM NDB	S30 31.6 E151 36.9	---	/119		<b>ATS ROUTE W403 L/L T/W D</b>					
1 PMQ NDB	S31 26.1 E152 52.0	118/---		84	5700/5700 L	1 KMP NDB	S31 03.5 E152 47.4	---	/213	
<b>ATS ROUTE W382 L/L T/W D</b>					3 SORTI	S31 49.3 E151 52.8	214/---	65	5900/6700 L	
1 WENDY	S37 50.4 E143 58.7	---	/070		<b>ATS ROUTE W404 L/L T/W D</b>					
1 LLOYD	S37 46.6 E144 30.7	070/070		26	3900/0 L	4 ARG VOR	S16 37.9 E128 26.9	---	/237	
1 EN NDB	S37 43.6 E144 54.7	069/139		19	2900/0 L	3 SUNIL	S16 56.0 E127 53.9	237/237	36	4700/4000 L
1 MB NDB	S37 58.6 E145 05.4	139/---		17	2200/2200 L	2 FTZ NDB	S18 11.1 E125 33.4	238/271	154	4700/4700 L
<b>ATS ROUTE W385 L/L T/W D</b>					2 ALIRA	S18 03.8 E123 48.8	272/272	100	2600/2600 L	
2 AS VOR	S23 47.6 E133 52.7	---	/064		3 BRM NDB	S17 56.8 E122 14.1	272/---	90	2600/2600 L	
3 DERAL	S23 25.4 E134 53.3	063/063		60	5200/5300 L	<b>ATS ROUTE W405 L/L T/W D</b>				
1 JVS NDB	S22 57.0 E136 08.7	062/049		75	5200/5300 L	3 ML VOR	S37 39.6 E144 50.5	---	/187	
2 DORIC	S22 33.0 E136 44.7	049/049		41	2900/3400 L	1 SIMON	S38 08.1 E144 38.5	187/187	30	2100/2100 L
3 BURLA	S21 42.7 E137 58.8	048/048		85	2900/3400 L	1 TAITE	S38 31.5 E144 28.4	187/187	25	1900/2200 L
3 MA VOR	S20 39.9 E139 29.1	047/---		105	3600/3600 L	2 ROHAN	S39 14.4 E144 09.8	187/187	45	1800/2300 L
<b>ATS ROUTE W386 L/L T/W D</b>					4 KII NDB	S39 53.3 E143 52.5	187/---	41	1800/1800 L	
3 KAT NDB	S33 42.6 E150 18.0	---	/287		<b>ATS ROUTE W407 LIMITED SEG D</b>					
3 BTH NDB	S33 24.8 E149 39.4	287/262		37	5900/5900 L	2 ESL NDB	S38 06.7 E147 09.6	---	/149	
1 ORG NDB	S33 23.0 E149 07.5	262/239		27	5200/5200 L	2 FLI NDB	S40 05.7 E148 00.9	147/157	125	3100/3100 L
3 WWL NDB	S33 56.1 E147 11.4	240/---		102	6100/6100 L	2 STH NDB	S41 20.1 E148 16.9	156/186	75	4000/4000 L
<b>ATS ROUTE W387 L/L T/W D</b>					2 HB VOR	S42 50.8 E147 31.6	186/---	97	4800/6000 L	
3 GTN NDB	S18 17.7 E143 32.9	---	/071		<b>ATS ROUTE W408 L/L T/W D</b>					
3 TORIA	S17 58.2 E145 06.8	071/122		91	5000/5000 L	3 KG VOR	S30 47.4 E121 27.2	---	/044	
3 CARMN	S18 52.0 E146 15.9	122/122		85	5400/5100 L	2 LINDO	S28 24.2 E124 09.6	042/042	201	3200/3300 L
2 TL VOR	S19 14.7 E146 45.5	121/083		36	4900/4900 L	3 WBR NDB	S26 07.7 E126 34.8	040/074	188	3400/3400 L
1 LINBO	S19 15.1 E147 27.3	083/129		40	3300/4300 L	3 ROOKS	S25 28.0 E129 41.6	072/072	173	0/0 L
3 BWN NDB	S20 01.3 E148 12.9	129/138		63	3900/3900 L	2 AYE NDB	S25 10.4 E130 58.5	071/---	72	0/0 B
3 PN VOR	S20 29.8 E148 33.2	138/130		34	3800/3800 L	<b>ATS ROUTE W410 L/L T/W D</b>				
3 MK VOR	S21 10.4 E149 11.2	130/---		54	3400/3400 L	5 SRN NDB	S42 09.2 E145 17.7	---	/053	
<b>ATS ROUTE W388 L/L T/W D</b>					2 IRONS	S41 46.4 E146 27.7	052/054	57	6700/6700 L	
2 KRY NDB	S26 34.7 E151 50.7	---	/133		3 LT VOR	S41 32.6 E147 12.8	053/062	36	6300/6300 L	
2 AMB NDB	S27 38.9 E152 43.4	132/---		79	3800/3800 L	2 STH NDB	S41 20.1 E148 16.9	061/---	50	6600/6600 L
<b>ATS ROUTE W389 L/L T/W D</b>					<b>ATS ROUTE W411 L/L T/W D</b>					
2 FLI NDB	S40 05.7 E148 00.9	---	/214		3 AD VOR	S34 56.8 E138 31.5	---	/219		
2 DPO VOR	S41 10.2 E146 26.1	215/207		97	3100/3100 L	1 EEMUE	S35 21.3 E137 59.2	219/219	36	2100/2100 L
5 SRN NDB	S42 09.2 E145 17.7	208/---		78	6500/6500 L	1 KSC NDB	S35 42.6 E137 30.8	220/---	31	2100/2100 L
<b>ATS ROUTE W391 L/L T/W D</b>					<b>ATS ROUTE W412 L/L T/W D</b>					
5 HBK NDB	S35 37.5 E147 28.0	---	/348		4 DU VOR	S32 13.2 E148 34.7	---	/295		
3 WG VOR	S35 09.9 E147 28.1	349/338		28	4400/4400 L	1 YWRN AD	S31 44.0 E147 48.2	296/278	49	2600/2600 L
3 WWL NDB	S33 56.1 E147 11.4	338/---		75	3100/3100 L	2 NYN NDB	S31 33.1 E147 11.7	279/---	33	2100/2100 L
<b>ATS ROUTE W394 L/L T/W D</b>					<b>ATS ROUTE W414 L/L T/W D</b>					
2 GEL VOR	S28 47.4 E114 42.4	---	/043		3 SWH NDB	S35 22.8 E143 32.4	---	/214		
2 RARIE	S25 52.1 E117 33.3	040/040		232	4100/4100 L	1 WKB NDB	S36 19.2 E142 24.7	215/199	79	2000/2000 L
4 NWN VOR	S23 25.3 E119 48.2	038/045		191	4700/4700 L	1 HSM NDB	S36 40.3 E142 10.1	199/---	24	2600/2600 L
4 DAZZA	S21 29.9 E121 59.3	044/044		167	4100/4100 L					

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE W417 L/L T/W D</b>					<b>ATS ROUTE W436 L/L T/W D</b>				
1 DBY NDB	S17 21.4 E123 40.0	---	/112		3 NWA NDB	S34 57.1 E150 31.8	---	/186	
2 FTZ NDB	S18 11.1 E125 33.4	111/106		119	4 MRV NDB	S35 53.9 E150 08.6	186/178	60	4200/4400 L
1 YMGR ALA	S18 37.3 E126 53.0	106/060		80	1 MER NDB	S36 54.9 E149 54.0	178/179	62	4100/4100 L
1 HLC NDB	S18 14.0 E127 40.3	059/---		51	3 MCO VOR	S37 35.8 E149 43.1	179/201	42	4300/4300 L
<b>ATS ROUTE W418 L/L T/W D</b>					<b>ATS ROUTE W437 L/L T/W D</b>				
1 HML NDB	S37 39.0 E142 03.5	---	/092		3 CHOMP	S38 45.9 E148 41.5	202/202	85	3100/4500 L
1 AV VOR	S38 02.9 E144 27.5	090/---		117	2 NIFTI	S39 53.9 E147 39.1	202/202	83	4000/3100 L
1 AV VOR	S38 02.9 E144 27.5	090/---		117	2 DPO VOR	S41 10.2 E146 26.1	203/---	94	6200/3100 L
<b>ATS ROUTE W419 L/L T/W D</b>					<b>ATS ROUTE W438 L/L T/W D</b>				
3 BTH NDB	S33 24.8 E149 39.4	---	/231		3 COM NDB	S36 21.2 E148 57.5	---	/030	
3 CWR VOR	S33 50.9 E148 38.7	231/232		57	3 NWA NDB	S34 57.1 E150 31.8	029/---	114	6300/6300 L
4 NAR VOR	S34 42.1 E146 31.0	234/225		118	<b>ATS ROUTE W439 L/L T/W D</b>				
3 DLQ NDB	S35 33.1 E144 57.1	226/---		92	1 WGT NDB	S36 25.3 E146 18.3	---	/215	
<b>ATS ROUTE W421 L/L T/W D</b>					<b>ATS ROUTE W440 L/L T/W D</b>				
3 GTH VOR	S34 15.0 E146 03.9	---	/344		3 BIK VOR	S34 10.7 E150 06.4	---	/291	
3 CBA NDB	S31 32.4 E145 47.9	345/355		163	1 HOGAN	S33 53.4 E149 34.9	292/292	31	5900/5900 L
3 BKE NDB	S30 02.6 E145 57.0	355/---		90	2 PKS VOR	S33 07.9 E148 14.2	293/296	81	6100/6100 L
<b>ATS ROUTE W422 L/L T/W D</b>					<b>ATS ROUTE W441 L/L T/W D</b>				
1 EN NDB	S37 43.6 E144 54.7	---	/234		3 ELW VOR	S37 12.4 E145 50.1	---	/076	
1 TEMPL	S37 52.6 E144 29.7	234/---		22	3 LVG VOR	S37 08.5 E147 33.1	074/071	82	7300/7300 L
<b>ATS ROUTE W423 L/L T/W D</b>					<b>ATS ROUTE W442 L/L T/W D</b>				
3 BTH NDB	S33 24.8 E149 39.4	---	/178		1 MER NDB	S36 54.9 E149 54.0	069/---	114	6900/6900 L
1 CULIN	S34 44.4 E149 23.4	177/184		81	<b>ATS ROUTE W443 L/L T/W D</b>				
3 CB VOR	S35 16.9 E149 11.7	184/---		34	1 PH VOR	S31 56.7 E115 57.6	---	/065	
<b>ATS ROUTE W424 L/L T/W D</b>					<b>ATS ROUTE W444 L/L T/W D</b>				
3 AY VOR	S36 04.1 E146 58.0	---	/242		3 CKL NDB	S31 41.0 E116 33.7	064/011	35	3000/2900 L
1 SHT NDB	S36 25.7 E145 23.8	243/226		79	1 BIU VOR	S30 35.6 E116 46.8	010/001	66	2800/2800 L
1 CANTY	S36 48.4 E144 39.1	227/---		43	2 AVKAN	S29 22.2 E116 46.7	000/---	73	3900/3900 L
<b>ATS ROUTE W426 L/L T/W D</b>					<b>ATS ROUTE W446 L/L T/W D</b>				
3 AD VOR	S34 56.8 E138 31.5	---	/043		1 NICLA	S32 03.1 E152 00.3	---	/022	
1 GULLY	S34 47.4 E138 45.6	043/043		15	1 KMP NDB	S31 03.5 E152 47.4	022/357	72	5500/5000 L
1 SFL NDB	S34 23.5 E139 21.0	042/029		38	3 GFN NDB	S29 45.6 E153 01.6	357/001	79	5300/5600 L
5 TRUMP	S33 53.1 E139 48.5	028/028		38	3 LIS NDB	S28 49.4 E153 15.4	001/---	57	2400/2600 L
4 KONDO	S33 09.8 E140 27.1	028/029		54	<b>ATS ROUTE W448 L/L T/W D</b>				
2 BHI VOR	S32 00.0 E141 28.8	028/---		87	4 MIA VOR	S34 13.6 E142 05.2	---	/276	
<b>ATS ROUTE W428 L/L T/W D</b>					<b>ATS ROUTE W449 L/L T/W D</b>				
2 LEC VOR	S30 35.8 E138 25.7	---	/112		2 ESL NDB	S38 06.7 E147 09.6	---	/246	
3 LAROO	S31 16.7 E139 52.7	110/110		85	3 LTV NDB	S38 12.8 E146 28.5	247/269	33	2300/2300 L
2 BHI VOR	S32 00.0 E141 28.8	109/094		93	3 BRONS	S38 09.2 E146 06.1	269/270	18	3100/3100 L
5 MANNA	S32 27.3 E143 56.6	092/092		128	1 WAREN	S38 01.0 E145 18.7	271/271	38	4400/4400 L
3 WILLY	S32 47.0 E145 53.7	090/090		101	1 MB NDB	S37 58.6 E145 05.4	271/269	11	2600/2600 L
2 PKS VOR	S33 07.9 E148 14.2	088/---		120	1 PCK NDB	S37 55.6 E144 45.4	269/272	16	1700/1700 L
<b>ATS ROUTE W429 L/L T/W D</b>					<b>ATS ROUTE W451 L/L T/W D</b>				
1 COR NDB	S35 59.2 E146 21.4	---	/088		3 GTH VOR	S34 15.0 E146 03.9	---	/258	
3 AY VOR	S36 04.1 E146 58.0	087/---		30	3 LEYOX	S34 15.3 E144 05.3	260/260	98	2200/2200 L
<b>ATS ROUTE W430 L/L T/W D</b>					<b>ATS ROUTE W455 L/L T/W D</b>				
1 RIC TAC	S33 36.4 E150 47.9	---	/146		4 MIA VOR	S34 13.6 E142 05.2	262/262	100	2200/2200 L
1 GLF NDB	S33 59.2 E150 58.6	146/183		24	3 REN NDB	S34 11.5 E140 40.6	263/---	70	1700/1700 L
3 WOL NDB	S34 33.5 E150 47.5	182/---		35	<b>ATS ROUTE W456 L/L T/W D</b>				
<b>ATS ROUTE W431 L/L T/W D</b>					<b>ATS ROUTE W456 L/L T/W D</b>				
3 WG VOR	S35 09.9 E147 28.1	---	/029		3 NBR NDB	S30 19.2 E149 49.9	---	/350	
1 CTM NDB	S34 37.6 E148 01.8	029/014		43	3 MOR NDB	S29 29.8 E149 51.1	351/---	49	3200/3200 L
1 YNG NDB	S34 15.0 E148 14.8	014/---		25	<b>ATS ROUTE W456 L/L T/W D</b>				
<b>ATS ROUTE W434 L/L T/W D</b>					<b>ATS ROUTE W456 L/L T/W D</b>				
3 TW VOR	S31 04.0 E150 49.8	---	/040		3 NBR NDB	S30 19.2 E149 49.9	---	/350	
4 ARM NDB	S30 31.6 E151 36.9	040/047		52	3 MOR NDB	S29 29.8 E149 51.1	351/---	49	3200/3200 L
3 GFN NDB	S29 45.6 E153 01.6	046/---		87	<b>ATS ROUTE W456 L/L T/W D</b>				

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL      2 ▲      3 △      4 ▣      5 ▢

DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE W457 L/L T/W D</b>					<b>ATS ROUTE W477 L/L T/W D</b>				
3 LTV NDB	S38 12.8 E146 28.5	---/136			1 SHT NDB	S36 25.7 E145 23.8	---/188		
2 FLI NDB	S40 05.7 E148 00.9	133/---	134	3900/6500 L	3 MNG VOR	S36 53.2 E145 11.7	188/197	29	3000/3000 L
<b>ATS ROUTE W460 L/L T/W D</b>					<b>ATS ROUTE W478 L/L T/W D</b>				
3 RIC NDB	S33 35.8 E150 46.6	---/268			1 VIOLA	S37 05.8 E145 03.0	197/197	14	4100/4100 L
3 BTH NDB	S33 24.8 E149 39.4	269/271	57	5600/5600 L	1 BOL NDB	S37 27.7 E144 47.9	198/---	25	4100/4100 L
2 PKS VOR	S33 07.9 E148 14.2	272/---	73	6100/6100 L	<b>ATS ROUTE W480 L/L T/W D</b>				
<b>ATS ROUTE W462 L/L T/W D</b>					<b>ATS ROUTE W481 L/L T/W D</b>				
5 SRN NDB	S42 09.2 E145 17.7	---/100			4 MIA VOR	S34 13.6 E142 05.2	---/125		
5 BROAD	S42 31.9 E146 28.8	099/098	57	6200/6200 L	3 SWH NDB	S35 22.8 E143 32.4	123/118	100	1800/1800 L
2 HB VOR	S42 50.8 E147 31.6	097/---	50	6200/6200 L	1 ECH NDB	S36 09.9 E144 45.9	117/143	76	2100/2100 L
<b>ATS ROUTE W463 L/L T/W D</b>					<b>ATS ROUTE W482 L/L T/W D</b>				
2 WLG VOR	S30 01.7 E148 07.7	---/325			3 COE NDB	S13 46.0 E143 07.0	127/124	96	3500/3500 L
5 BEETI	S28 03.2 E147 05.3	326/326	130	2300/2300 L	2 PANTO	S14 44.6 E144 19.9	123/124	92	4100/4100 L
3 CV VOR	S26 25.3 E146 16.0	327/---	107	2800/2600 L	2 CKN NDB	S15 26.9 E145 11.2	124/---	65	3500/3200 L
<b>ATS ROUTE W465 L/L T/W D</b>					<b>ATS ROUTE W483 L/L T/W D</b>				
3 MNG VOR	S36 53.2 E145 11.7	---/052			1 MGD NDB	S12 03.8 E134 13.9	---/242		
1 WGT NDB	S36 25.3 E146 18.3	051/045	60	4000/4000 L	1 YJAB ALA	S12 39.5 E132 53.6	242/273	86	3000/3400 L
3 AY VOR	S36 04.1 E146 58.0	045/---	38	4200/4200 L	1 KARRA	S12 35.1 E132 15.6	273/273	37	3000/3400 L
<b>ATS ROUTE W466 L/L T/W D</b>					<b>ATS ROUTE W486 L/L T/W D</b>				
1 HAY NDB	S34 32.5 E144 50.0	---/087			3 HID NDB	S10 35.5 E142 17.6	000/---	105	0/0
4 NAR VOR	S34 42.1 E146 31.0	085/110	84	2100/2100 L	<b>ATS ROUTE W487 L/L T/W D</b>				
3 WG VOR	S35 09.9 E147 28.1	109/---	55	2700/2700 L	3 RIC NDB	S33 35.8 E150 46.6	---/342		
<b>ATS ROUTE W468 L/L T/W D</b>					<b>ATS ROUTE W488 L/L T/W D</b>				
3 WON VOR	S38 28.3 E145 37.4	---/251			3 QDI NDB	S31 29.6 E150 31.4	343/---	127	5600/5600 L
3 CWS VOR	S38 30.5 E145 12.8	252/338	19	2300/2300 L	<b>ATS ROUTE W491 L/L T/W D</b>				
1 MB NDB	S37 58.6 E145 05.4	338/---	32	2100/2100 L	3 WG VOR	S35 09.9 E147 28.1	---/000		
<b>ATS ROUTE W469 L/L T/W D</b>					<b>ATS ROUTE W492 L/L T/W D</b>				
2 TL VOR	S19 14.7 E146 45.5	---/229			1 FBS NDB	S33 21.9 E147 55.7	001/---	110	3900/3900 L
1 MARON	S19 34.7 E146 13.8	229/229	36	4200/4200 L	<b>ATS ROUTE W493 L/L T/W D</b>				
2 FORMA	S20 04.7 E145 25.9	229/229	54	4700/4700 L	3 LRE VOR	S23 25.5 E144 16.9	---/269		
3 HUG VOR	S20 48.8 E144 13.4	230/207	81	4700/4700 L	3 BRIDE	S23 11.4 E142 08.5	270/270	119	2700/2700 L
3 WTN NDB	S22 21.9 E143 05.0	207/---	113	3000/3000 L	3 BOU NDB	S22 54.9 E139 54.4	272/---	125	2700/2400 L
<b>ATS ROUTE W472 L/L T/W D</b>					<b>ATS ROUTE W494 L/L T/W D</b>				
3 MK VOR	S21 10.4 E149 11.2	---/193			3 JCW VOR	S27 45.7 E153 20.1	---/133		
3 ISAAK	S22 22.9 E148 40.5	193/193	78	5000/5000 L	1 FAUKS	S28 24.6 E153 51.6	133/200	48	2700/2700 L
2 EML NDB	S23 34.0 E148 10.3	193/---	76	4300/4300 L	1 BNA NDB	S28 50.1 E153 33.7	200/253	30	2500/2500 L
<b>ATS ROUTE W473 L/L T/W D</b>					<b>ATS ROUTE W499 L/L T/W D</b>				
2 DN VOR	S12 25.4 E130 54.4	---/103			3 GAMBL	S28 52.5 E153 02.9	254/---	27	2700/2700 L
3 MITTY	S12 48.1 E132 12.9	103/103	80	1900/3000 L					
3 DUMPA	S13 26.9 E134 30.8	102/102	140	3300/3300 L					
2 GTE NDB	S13 58.5 E136 27.3	101/103	118	3300/3300 L					
5 ARGON	S14 25.1 E137 57.3	102/102	91	2200/2200 L					
5 JUDIE	S15 00.1 E140 00.0	101/101	124	1500/1500 L					
3 KOW NDB	S15 28.8 E141 44.9	100/032	105	1500/1500 L					
3 COE NDB	S13 46.0 E143 07.0	032/005	130	3500/3500 L					
3 LHR NDB	S12 47.3 E143 18.2	005/---	59	3600/3600 L					
<b>ATS ROUTE W475 L/L T/W D</b>									
1 COR NDB	S35 59.2 E146 21.4	---/250							
1 ECH NDB	S36 09.9 E144 45.9	252/254	78	2300/2300 L					
1 WKB NDB	S36 19.2 E142 24.7	256/260	115	2800/2800 L					
4 NHL VOR	S36 18.9 E141 38.7	261/254	37	2100/2100 L					
3 BOR VOR	S36 23.6 E140 44.5	255/274	44	2100/2100 L					
1 KSC NDB	S35 42.6 E137 30.8	278/---	162	2700/2000 L					
<b>ATS ROUTE W476 L/L T/W D</b>									
4 MIA VOR	S34 13.6 E142 05.2	---/164							
2 TIEGA	S35 03.5 E142 12.6	163/163	50	1800/1800 L					
1 WKB NDB	S36 19.2 E142 24.7	162/---	76	1800/1800 L					

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE W495 L/L T/W D</b>					3 RK VOR	S23 23.0 E150 28.3	111/---	51	3300/3300 L
1 PLE NDB	S37 43.2 E145 06.7	---	/140		<b>ATS ROUTE W519 L/L T/W D</b>				
1 WAREN	S38 01.0 E145 18.7	140/177	20	4000/4000 L	3 AD VOR	S34 56.8 E138 31.5	---	/130	
3 CWS VOR	S38 30.5 E145 12.8	177/160	30	3600/3600 L	1 LRT NDB	S35 41.3 E139 20.9	129/143	60	3800/3800 L
1 JACKA	S38 46.2 E145 15.8	159/159	16	1600/1700 L	3 SWELL	S36 08.0 E139 39.1	142/142	31	2700/2700 L
2 CAMUS	S40 00.0 E145 30.8	158/158	75	1600/1700 L	3 MTG VOR	S37 45.1 E140 47.1	141/126	111	2700/2700 L
3 WYY VOR	S41 00.0 E145 43.6	158/---	61	2300/2300 L	3 POD NDB	S38 18.9 E141 28.4	126/121	47	2200/2200 L
<b>ATS ROUTE W496 L/L T/W D</b>					4 KII NDB	S39 53.3 E143 52.5	118/124	147	2200/2200 L
2 NYN NDB	S31 33.1 E147 11.7	---	/338		1 SMI NDB	S40 50.0 E145 04.9	123/126	79	2200/1900 L
1 BRW NDB	S29 58.5 E146 48.7	338/---	96	2200/2200 L	2 SALEM	S41 52.6 E146 17.6	125/125	83	6700/6700 L
<b>ATS ROUTE W497 L/L T/W D</b>					1 CLARK	S42 28.4 E147 00.7	123/120	48	6700/6700 L
1 RUG NDB	S34 23.2 E148 58.5	---	/226		1 TTR NDB	S42 41.5 E147 18.8	120/120	19	5700/5700 L
3 WG VOR	S35 09.9 E147 28.1	227/247	88	4600/4600 L	2 HB VOR	S42 50.8 E147 31.6	120/---	13	4400/5200 L
3 DLQ NDB	S35 33.1 E144 57.1	249/---	126	3300/3300 L	<b>ATS ROUTE W524 L/L T/W D</b>				
<b>ATS ROUTE W499 L/L T/W D</b>					3 WG VOR	S35 09.9 E147 28.1	---	/216	
1 YINJ ALA	S25 51.0 E148 32.0	---	/153		1 COR NDB	S35 59.2 E146 21.4	217/214	73	3200/3200 L
2 ROM NDB	S26 32.6 E148 46.9	152/177	44	3300/4400 L	3 MNG VOR	S36 53.2 E145 11.7	215/---	78	3300/3300 L
2 SGE NDB	S28 02.8 E148 35.8	176/202	91	3000/3000 L	<b>ATS ROUTE W528 L/L T/W D</b>				
1 YDBI AD	S28 35.5 E148 13.0	202/---	38	2400/2800 L	2 TL VOR	S19 14.7 E146 45.5	---	/248	
<b>ATS ROUTE W501 L/L T/W D</b>					2 PENNY	S19 37.1 E145 13.1	249/249	90	4300/4900 L
3 WHA NDB	S33 03.5 E137 31.5	---	/008		2 KIPPA	S20 04.7 E143 13.7	250/250	116	4900/4900 L
3 PAG NDB	S32 31.6 E137 42.1	008/011	33	2400/2400 L	3 RACEV	S20 30.5 E141 15.4	251/251	114	4400/4100 L
5 TORRA	S31 25.4 E138 07.2	010/010	69	4200/4200 L	2 CCY NDB	S20 39.9 E140 30.1	251/---	44	2400/2400 L
2 LEC VOR	S30 35.8 E138 25.7	010/025	52	3700/3700 L	<b>ATS ROUTE W529 L/L T/W D</b>				
3 APOVO	S29 25.5 E139 16.4	024/024	83	3100/3800 L	4 MRV NDB	S35 53.9 E150 08.6	---	/295	
2 OOM NDB	S28 06.3 E140 11.9	024/---	93	2000/2000 L	3 CB VOR	S35 16.9 E149 11.7	296/---	59	5900/5900 L
<b>ATS ROUTE W503 L/L T/W D</b>					<b>ATS ROUTE W533 L/L T/W D</b>				
3 BAR NDB	S23 33.5 E145 17.9	---	/083		3 KG VOR	S30 47.4 E121 27.2	---	/020	
2 EML NDB	S23 34.0 E148 10.3	081/085	158	4500/4500 L	2 RILLA	S29 31.9 E122 00.9	020/020	81	3100/3100 L
1 YBTR AD	S23 36.2 E148 48.4	084/073	35	4100/2700 L	1 LTN NDB	S28 36.7 E122 25.4	019/---	59	3200/3200 L
3 RK VOR	S23 23.0 E150 28.3	072/---	93	4100/4100 L	<b>ATS ROUTE W534 L/L T/W D</b>				
<b>ATS ROUTE W504 L/L T/W D</b>					1 SU VOR	S26 35.9 E153 05.4	---	/297	
3 BCK NDB	S24 25.6 E145 26.2	---	/101		3 GAY NDB	S25 35.7 E151 40.4	298/313	97	3800/3800 L
3 OLLIE	S25 05.1 E147 30.3	100/100	120	5500/5500 L	2 COBES	S23 16.9 E149 49.8	315/315	171	4600/4600 L
3 TAM VOR	S25 48.2 E149 53.8	098/096	137	5500/5500 L	2 CSV VOR	S20 35.5 E147 47.1	317/---	197	5700/5200 L
3 SANDI	S26 17.4 E151 49.0	095/095	108	3900/3500 L	<b>ATS ROUTE W535 L/L T/W D</b>				
1 SU VOR	S26 35.9 E153 05.4	094/---	71	4300/4000 L	2 NYN NDB	S31 33.1 E147 11.7	---	/122	
<b>ATS ROUTE W509 L/L T/W D</b>					3 WEAVA	S32 17.1 E148 08.8	121/121	65	2300/2300 L
3 CWR VOR	S33 50.9 E148 38.7	---	/297		3 BTH NDB	S33 24.8 E149 39.4	119/---	102	6500/5100 L
1 FBS NDB	S33 21.9 E147 55.7	298/---	46	3800/3800 L	<b>ATS ROUTE W536 L/L T/W D</b>				
<b>ATS ROUTE W512 L/L T/W D</b>					3 LHR NDB	S12 47.3 E143 18.2	---	/353	
1 YBTR AD	S23 36.2 E148 48.4	---	/110		4 REEFE	S11 00.0 E143 15.5	353/353	107	3200/3600 B
3 TNG NDB	S24 29.6 E150 34.2	109/033	111	4500/4500 L	<b>ATS ROUTE W538 L/L T/W D</b>				
3 GLA VOR	S23 51.9 E151 12.3	033/---	51	4400/4300 L	1 MB NDB	S37 58.6 E145 05.4	---	/210	
<b>ATS ROUTE W514 L/L T/W D</b>					1 TAITE	S38 31.5 E144 28.4	210/---	44	1900/2700 L
2 WLG VOR	S30 01.7 E148 07.7	---	/104		<b>ATS ROUTE W539 L/L T/W D</b>				
3 TW VOR	S31 04.0 E150 49.8	102/---	153	4500/4300 L	1 YKMB AD	S17 27.3 E140 49.9	---	/130	
<b>ATS ROUTE W516 L/L T/W D</b>					2 NTN NDB	S17 41.7 E141 04.4	130/---	20	1500/1500 L
2 BHI VOR	S32 00.0 E141 28.8	---	/085		<b>ATS ROUTE W540 L/L T/W D</b>				
3 AREST	S32 11.1 E145 51.8	081/081	224	3200/3200 L	3 BTH NDB	S33 24.8 E149 39.4	---	/310	
4 DU VOR	S32 13.2 E148 34.7	079/---	138	3300/3300 L	4 DU VOR	S32 13.2 E148 34.7	312/302	90	4700/4900 L
<b>ATS ROUTE W517 L/L T/W D</b>					3 HUMOK	S31 19.2 E147 28.0	303/303	78	2600/2600 L
3 JCW VOR	S27 45.7 E153 20.1	---	/172		3 BKE NDB	S30 02.6 E145 57.0	305/---	110	2800/2400 L
3 LIS NDB	S28 49.4 E153 15.4	172/---	64	5300/5300 L	<b>ATS ROUTE W541 L/L T/W D</b>				
<b>ATS ROUTE W518 L/L T/W D</b>					1 MER NDB	S36 54.9 E149 54.0	---	/293	
1 MRB NDB	S22 03.7 E148 04.5	---	/113		3 COM NDB	S36 21.2 E148 57.5	294/270	57	5600/5600 L
3 PLUTO	S22 57.4 E149 40.9	112/111	104	3500/3500 L	4 CRG NDB	S36 08.9 E147 51.7	271/264	55	8700/8700 L
					3 AY VOR	S36 04.1 E146 58.0	265/275	44	5700/5700 L

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
3 DLQ NDB	S35 33.1 E144 57.1	277/267	103	3200/3200	L	<b>ATS ROUTE W565 L/L T/W D</b>					
3 SWH NDB	S35 22.8 E143 32.4	269/---	70	1800/1800	L	2 TRE NDB	S31 53.4 E152 30.6	---/286			
<b>ATS ROUTE W542 L/L T/W D</b>					3 MSO NDB	S31 23.2 E151 24.7	287/---	64	6100/6100	L	
3 GDI NDB	S28 31.4 E150 19.6	---/069				<b>ATS ROUTE W566 L/L T/W D</b>					
3 WICKA	S28 15.3 E151 57.7	068/068	88	4900/4900	L	3 WHA NDB	S33 03.5 E137 31.5	---/340			
1 ONDRA	S28 10.6 E152 25.3	068/068	25	5900/5900	L	2 NATTY	S31 33.4 E137 08.5	341/341	92	2700/2700	L
3 LAV VOR	S28 05.4 E152 55.5	068/---	27	5900/5900	L	1 YOLD AD	S30 29.1 E136 52.6	341/---	66	2700/2700	L
<b>ATS ROUTE W544 L/L T/W D</b>					<b>ATS ROUTE W567 L/L T/W D</b>						
3 MA VOR	S20 39.9 E139 29.1	---/275			3 HID NDB	S10 35.5 E142 17.6	---/150				
3 SPEAR	S20 20.8 E137 44.6	276/276	100	3200/3200	L	1 YNPE AD	S10 57.0 E142 27.6	150/150	24	2100/2100	L
3 METHL	S19 58.9 E135 52.0	277/277	108	2500/2500	L	3 LHR NDB	S12 47.3 E143 18.2	150/139	120	3200/3200	L
4 TNK VOR	S19 38.1 E134 10.9	278/286	98	3100/3100	L	2 BENTA	S14 35.3 E144 37.1	138/141	132	3500/4100	L
3 LAWSO	S18 59.6 E132 24.0	287/287	108	3100/3100	L	2 CKN NDB	S15 26.9 E145 11.2	141/152	61	6100/3500	L
1 HOO NDB	S18 19.9 E130 38.2	288/---	108	2700/2500	L	3 CS VOR	S16 51.0 E145 44.6	152/---	90	6000/6000	L
<b>ATS ROUTE W545 L/L T/W D</b>					<b>ATS ROUTE W569 L/L T/W D</b>						
3 WG VOR	S35 09.9 E147 28.1	---/084			1 DOSEL	S37 09.9 E145 23.7	---/030				
3 POPLA	S35 13.6 E148 16.0	083/084	39	4900/4900	L	3 SBG NDB	S36 51.2 E145 44.3	030/040	25	4100/4100	L
1 WJS VOR	S35 15.6 E148 40.1	084/081	20	5900/5900	L	3 AY VOR	S36 04.1 E146 58.0	039/031	76	4400/4400	L
3 CB VOR	S35 16.9 E149 11.7	080/---	26	6100/6100	L	5 HBK NDB	S35 37.5 E147 28.0	031/034	36	4200/4200	L
<b>ATS ROUTE W547 L/L T/W D</b>					1 RUG NDB	S34 23.2 E148 58.5	033/---	105	4600/4600	L	
5 SRN NDB	S42 09.2 E145 17.7	---/340			<b>ATS ROUTE W571 L/L T/W D</b>						
1 SMI NDB	S40 50.0 E145 04.9	340/---	80	4500/5200	L	1 VIOLA	S37 05.8 E145 03.0	---/226			
<b>ATS ROUTE W548 L/L T/W D</b>					3 YWE VOR	S37 44.3 E143 45.3	228/231	73	4500/4500	L	
3 WWL NDB	S33 56.1 E147 11.4	---/350			1 STONE	S38 00.6 E143 06.8	231/231	35	3000/3000	L	
1 CDO NDB	S33 04.2 E147 12.9	350/083	52	3000/3000	L	1 WBL NDB	S38 17.2 E142 27.2	232/---	35	2700/2700	L
2 PKS VOR	S33 07.9 E148 14.2	082/---	52	3100/3100	L	<b>ATS ROUTE W572 L/L T/W D</b>					
<b>ATS ROUTE W549 L/L T/W D</b>					3 OK VOR	S27 24.0 E151 44.3	---/207				
3 CG VOR	S28 10.1 E153 30.2	---/187			3 MOR NDB	S29 29.8 E149 51.1	208/156	160	3600/3600	L	
3 LIS NDB	S28 49.4 E153 15.4	187/---	41	5200/5200	L	3 GDH NDB	S30 57.2 E150 14.9	155/145	90	6500/6500	L
<b>ATS ROUTE W550 L/L T/W D</b>					3 QDI NDB	S31 29.6 E150 31.4	145/---	35	3700/3700	L	
4 MIA VOR	S34 13.6 E142 05.2	---/310			<b>ATS ROUTE W573 L/L T/W D</b>						
3 ALTIR	S32 39.6 E140 30.2	312/310	123	3400/3700	L	3 MA VOR	S20 39.9 E139 29.1	---/111			
2 LEC VOR	S30 35.8 E138 25.7	312/311	163	5200/5000	L	5 COLOP	S21 29.1 E141 11.2	110/110	107	3400/3400	L
3 CALAR	S29 00.0 E136 49.9	313/313	127	3100/3100	L	3 WTN NDB	S22 21.9 E143 05.0	109/---	118	3100/3100	L
3 OOD NDB	S27 33.3 E135 26.5	314/---	114	2800/2800	L	<b>ATS ROUTE W575 L/L T/W D</b>					
<b>ATS ROUTE W551 L/L T/W D</b>					3 NWA NDB	S34 57.1 E150 31.8	---/323				
3 SCO NDB	S32 02.1 E150 49.9	---/155			3 BIK VOR	S34 10.7 E150 06.4	323/321	51	5100/5100	L	
3 BEKAM	S32 30.6 E150 58.0	154/154	29	3700/3700	L	1 WYATT	S33 54.3 E149 56.6	321/322	18	6000/6000	L
1 MQD NDB	S33 06.7 E151 08.4	154/126	37	3700/3700	L	3 BTH NDB	S33 24.8 E149 39.4	322/345	33	6000/6000	L
1 YAKKA	S33 11.5 E151 13.4	126/---	6	2800/3100	L	2 MDG VOR	S32 33.7 E149 35.6	345/---	51	5600/5600	L
<b>ATS ROUTE W553 L/L T/W D</b>					<b>ATS ROUTE W577 L/L T/W D</b>						
3 LAV VOR	S28 05.4 E152 55.5	---/037			4 KII NDB	S39 53.3 E143 52.5	---/033				
3 JCW VOR	S27 45.7 E153 20.1	037/---	29	3300/3300	L	2 SOFIE	S39 19.0 E144 35.6	032/032	48	1800/1800	L
<b>ATS ROUTE W557 L/L T/W D</b>					1 JACKA	S38 46.2 E145 15.8	031/031	45	1500/1500	L	
1 EDN NDB	S34 42.4 E138 37.9	---/054			3 WON VOR	S38 28.3 E145 37.4	031/---	25	2400/2400	L	
1 SFL NDB	S34 23.5 E139 21.0	053/078	40	3500/3500	L	<b>ATS ROUTE W582 L/L T/W D</b>					
5 KURLA	S34 20.7 E140 15.3	077/077	45	1900/1900	L	3 LAV VOR	S28 05.4 E152 55.5	---/203			
4 MIA VOR	S34 13.6 E142 05.2	076/---	91	1800/1800	L	3 PARCU	S28 34.8 E152 32.9	203/203	35	5900/5900	L
<b>ATS ROUTE W562 L/L T/W D</b>					3 GLI NDB	S29 40.3 E151 41.7	203/---	79	6400/6400	L	
2 FLI NDB	S40 05.7 E148 00.9	---/297			<b>ATS ROUTE W584 L/L T/W D</b>						
3 WON VOR	S38 28.3 E145 37.4	300/307	148	3900/3900	L	2 AS VOR	S23 47.6 E133 52.7	---/137			
1 MB NDB	S37 58.6 E145 05.4	308/---	39	2400/2400	L	3 DESET	S24 50.7 E134 46.2	137/137	80	4200/4600	L
<b>ATS ROUTE W564 L/L T/W D</b>					4 TREBL	S26 51.5 E136 32.3	135/135	154	3100/3400	L	
4 KII NDB	S39 53.3 E143 52.5	---/117			3 FLORA	S28 47.2 E138 18.7	133/133	149	2400/2400	L	
3 THRUM	S40 30.0 E144 52.9	116/116	59	2200/2200	L	4 ARANA	S30 13.1 E139 41.3	132/132	112	4900/4900	L
2 WYY VOR	S41 00.0 E145 43.6	114/134	49	3000/3000	L	2 BHI VOR	S32 00.0 E141 28.8	130/159	141	4900/4900	L
2 ATILA	S41 48.3 E146 25.2	133/133	58	6300/6700	L	5 PILTA	S33 11.5 E141 47.6	158/158	73	2600/2600	L
1 CLARK	S42 28.4 E147 00.7	132/---	48	6300/6700	L	4 MIA VOR	S34 13.6 E142 05.2	157/169	64	1800/1800	L
					2 GALAH	S35 04.9 E142 06.7	169/169	51	2200/2200	L	
					1 HSM NDB	S36 40.3 E142 10.1	168/175	95	2600/2600	L	
					1 HML NDB	S37 39.0 E142 03.5	175/204	59	4600/4600	L	

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
3 POD NDB	S38 18.9 E141 28.4	205/---	49	2900/2500	L	2 NYN NDB	S31 33.1 E147 11.7	009/018	171	3300/3300	L
<b>ATS ROUTE W590 L/L T/W D</b>					3 LAYUP	S30 39.7 E147 44.7	017/017	60	2000/2300	L	
3 GDI NDB	S28 31.4 E150 19.6	---/192			2 WLG VOR	S30 01.7 E148 07.7	017/---	43	2000/2300	L	
3 MOR NDB	S29 29.8 E149 51.1	193/---	63	2300/2300	L	<b>ATS ROUTE W613 L/L T/W D</b>					
<b>ATS ROUTE W592 L/L T/W D</b>					2 ROM NDB	S26 32.6 E148 46.9	---/340				
2 EML NDB	S23 34.0 E148 10.3	---/348			2 EML NDB	S23 34.0 E148 10.3	341/001	181	5500/5500	L	
1 MRB NDB	S22 03.7 E148 04.5	348/041	90	4200/4200	L	1 DYS NDB	S22 35.9 E148 21.1	001/326	59	4200/4200	L
3 MK VOR	S21 10.4 E149 11.2	041/---	82	5000/5000	L	1 MRB NDB	S22 03.7 E148 04.5	326/328	35	3000/3000	L
<b>ATS ROUTE W593 L/L T/W D</b>					3 CHARD	S20 37.4 E147 23.9	328/328	94	3400/3700	L	
4 BGO NDB	S20 08.2 E127 59.3	---/348			3 TL VOR	S19 14.7 E146 45.5	329/---	90	5500/5500	L	
1 HLC NDB	S18 14.0 E127 40.3	348/006	115	3400/3400	L	<b>ATS ROUTE W614 L/L T/W D</b>					
3 SUNIL	S16 56.0 E127 53.9	006/007	79	3900/3900	L	3 VRD NDB	S16 24.3 E131 00.4	---/355			
2 WYM NDB	S15 30.6 E128 09.1	007/---	86	3900/3900	L	3 NUTTA	S15 00.5 E130 58.3	355/355	83	2600/2600	L
<b>ATS ROUTE W595 L/L T/W D</b>					3 JOSHU	S13 45.7 E130 56.4	355/355	75	2600/2600	L	
3 KAT NDB	S33 42.6 E150 18.0	---/276			2 DN VOR	S12 25.4 E130 54.4	355/---	80	2600/2600	L	
3 LOWDI	S33 31.4 E149 36.8	276/277	36	5900/6000	L	<b>ATS ROUTE W617 L/L T/W D</b>					
1 ORG NDB	S33 23.0 E149 07.5	277/277	26	5200/5200	L	1 CBP NDB	S29 01.9 E134 43.4	---/118			
2 PKS VOR	S33 07.9 E148 14.2	278/---	47	6100/6100	L	5 BILIN	S29 53.7 E136 12.2	117/118	93	2200/2200	L
<b>ATS ROUTE W596 L/L T/W D</b>					2 AMK NDB	S30 27.2 E137 10.0	117/---	60	2200/2100	L	
3 GV VOR	S12 15.9 E136 49.0	---/187			<b>ATS ROUTE W619 L/L T/W D</b>						
5 KELVN	S13 09.4 E136 37.7	187/187	54	1900/1900	L	3 CNM NDB	S30 58.5 E148 22.8	---/104			
2 GTE NDB	S13 58.5 E136 27.3	187/241	50	1900/1900	L	5 CBB NDB	S31 19.8 E149 16.2	104/107	51	5400/5400	L
1 NGU NDB	S14 43.5 E134 44.3	242/---	110	2100/2100	L	3 JODEX	S31 47.2 E150 16.2	106/106	58	5500/5500	L
<b>ATS ROUTE W598 L/L T/W D</b>					3 SCO NDB	S32 02.1 E150 49.9	105/---	32	5500/5500	L	
1 ROONY	S28 31.5 E153 36.2	---/214			<b>ATS ROUTE W622 L/L T/W D</b>						
3 LIS NDB	S28 49.4 E153 15.4	214/243	26	0/3800	L	3 GV VOR	S12 15.9 E136 49.0	---/148			
3 GAMBL	S28 52.5 E153 02.9	243/227	11	2700/2700	L	3 HANKY	S15 08.6 E138 20.7	147/147	194	2200/2200	L
2 IVL NDB	S29 53.1 E151 08.4	228/---	117	6400/6400	L	1 MTI NDB	S16 39.5 E139 10.2	147/---	102	1900/1900	L
<b>ATS ROUTE W603 L/L T/W D</b>					<b>ATS ROUTE W623 L/L T/W D</b>						
2 CFS VOR	S30 19.2 E153 07.3	---/186			3 BKE NDB	S30 02.6 E145 57.0	---/075				
2 TRE NDB	S31 53.4 E152 30.6	186/200	99	4000/4000	L	1 BRW NDB	S29 58.5 E146 48.7	075/083	45	1900/1900	L
3 WLM NDB	S32 48.2 E151 49.7	200/208	65	3700/3700	L	3 POKEY	S29 59.7 E147 15.1	083/083	23	2000/2000	L
1 VONNI	S33 12.9 E151 24.3	209/209	33	3000/3000	L	2 WLG VOR	S30 01.7 E148 07.7	082/077	46	2000/2000	L
3 CAA NDB	S33 24.2 E151 12.7	209/---	15	2700/2700	L	2 IVL NDB	S29 53.1 E151 08.4	075/075	157	6800/6000	L
<b>ATS ROUTE W604 L/L T/W D</b>					3 GFN NDB	S29 45.6 E153 01.6	073/---	99	6400/6400	L	
3 KAT NDB	S33 42.6 E150 18.0	---/320			<b>ATS ROUTE W625 L/L T/W D</b>						
3 BENBU	S33 11.8 E149 58.9	321/321	35	5600/5900	L	3 AMB NDB	S27 38.9 E152 43.4	---/222			
2 MDG VOR	S32 33.7 E149 35.6	321/---	43	5500/5600	L	2 GEPEC	S27 46.2 E152 32.5	222/222	12	3000/3800	L
<b>ATS ROUTE W605 L/L T/W D</b>					2 DEJAY	S28 50.5 E150 53.7	223/223	108	5200/5400	L	
3 WP VOR	S12 40.4 E141 55.3	---/250			2 MOR NDB	S29 29.8 E149 51.1	224/---	67	3900/3900	L	
5 HEALE	S13 08.8 E140 00.0	251/251	116	1900/1900	L	<b>ATS ROUTE W626 L/L T/W D</b>					
5 HOKOR	S13 37.3 E138 00.0	252/252	120	1500/1500	L	2 CAR VOR	S24 52.9 E113 40.4	---/066			
2 GTE NDB	S13 58.5 E136 27.3	253/257	93	2200/2200	L	3 MINNY	S24 02.3 E115 42.5	065/065	122	2800/2800	L
1 SUNIX	S14 11.3 E134 55.4	258/258	90	2300/2300	L	2 PBO VOR	S23 10.4 E117 44.2	063/---	123	5100/3700	L
3 BOBIK	S14 18.1 E134 04.4	258/258	50	2600/2400	L	<b>ATS ROUTE W627 L/L T/W D</b>					
4 TN VOR	S14 31.2 E132 22.3	259/211	100	2900/2600	L	2 MDG VOR	S32 33.7 E149 35.6	---/349			
3 VRD NDB	S16 24.3 E131 00.4	212/187	138	2400/2400	L	1 YCAH AD	S31 46.4 E149 36.6	350/315	47	4300/4300	L
1 HOO NDB	S18 19.9 E130 38.2	187/---	117	2800/2600	L	5 CBB NDB	S31 19.8 E149 16.2	316/---	32	4200/4200	L
<b>ATS ROUTE W606 L/L T/W D</b>					<b>ATS ROUTE W632 L/L T/W D</b>						
3 WLM NDB	S32 48.2 E151 49.7	---/333			4 NAR VOR	S34 42.1 E146 31.0	---/097				
3 MSO NDB	S31 23.2 E151 24.7	334/339	87	6600/6600	L	1 WJS VOR	S35 15.6 E148 40.1	095/---	111	5700/5700	L
2 IVL NDB	S29 53.1 E151 08.4	340/---	91	5900/5900	L	<b>ATS ROUTE W635 L/L T/W D</b>					
<b>ATS ROUTE W608 L/L T/W D</b>					3 POD NDB	S38 18.9 E141 28.4	---/078				
2 TRE NDB	S31 53.4 E152 30.6	---/265			1 WBL NDB	S38 17.2 E142 27.2	077/071	46	2200/2200	L	
3 SORTI	S31 49.3 E151 52.8	265/---	32	5000/6700	L	1 AV VOR	S38 02.9 E144 27.5	069/071	96	2500/2500	L
<b>ATS ROUTE W612 L/L T/W D</b>					1 MB NDB	S37 58.6 E145 05.4	070/---	30	1700/1700	L	
1 CANTY	S36 48.4 E144 39.1	---/014			<b>ATS ROUTE W636 L/L T/W D</b>						
3 GTH VOR	S34 15.0 E146 03.9	013/009	168	2900/3700	L	1 SU VOR	S26 35.9 E153 05.4	---/000			

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DAH Effective Date 17 NOVEMBER 2011

**AIR ROUTES – 28**

**AIP AUSTRALIA**

**SECTION 22**

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
1 CREDY	S25 48.4 E153 15.2	000/314	48	2200/2200	L	3 YWE VOR	S37 44.3 E143 45.3	176/---	14	3500/3500	L
1 HBA NDB	S25 19.4 E152 53.0	315/299	35	2200/2200	L	<b>ATS ROUTE W660 L/L T/W D</b>					
3 BUD NDB	S24 54.4 E152 19.2	299/305	40	1700/1700	L	3 TL VOR	S19 14.7 E146 45.5	---/201			
3 GLA VOR	S23 51.9 E151 12.3	306/296	87	3800/3800	L	2 BOWLY	S20 43.2 E145 53.3	202/201	101	3900/5500	L
3 RK VOR	S23 23.0 E150 28.3	296/---	50	3500/3500	L	5 FOYLE	S21 41.5 E145 19.5	201/201	66	3400/4700	L
<b>ATS ROUTE W637 L/L T/W D</b>					3 LRE VOR	S23 25.5 E144 16.9	202/---	119	3100/3100	L	
3 TL VOR	S19 14.7 E146 45.5	---/239				<b>ATS ROUTE W661 L/L T/W D</b>					
2 CARBY	S19 50.4 E145 17.8	240/240	90	4700/4900	L	3 ML VOR	S37 39.6 E144 50.5	---/137			
3 RMD NDB	S20 41.9 E143 06.6	241/---	134	4700/4700	L	1 MB NDB	S37 58.6 E145 05.4	136/---	22	2200/2200	L
<b>ATS ROUTE W638 L/L T/W D</b>					<b>ATS ROUTE W663 L/L T/W D</b>						
4 DU VOR	S32 13.2 E148 34.7	---/186				3 MNG VOR	S36 53.2 E145 11.7	---/015			
2 PKS VOR	S33 07.9 E148 14.2	186/186	57	4000/4000	L	4 NAR VOR	S34 42.1 E146 31.0	015/025	146	3000/3000	L
3 WG VOR	S35 09.9 E147 28.1	186/193	128	3800/3800	L	3 WWL NDB	S33 56.1 E147 11.4	025/036	57	2800/2800	L
3 AY VOR	S36 04.1 E146 58.0	193/---	59	3600/3600	L	1 FBS NDB	S33 21.9 E147 55.7	036/037	50	3200/3200	L
<b>ATS ROUTE W639 L/L T/W D</b>					2 PKS VOR	S33 07.9 E148 14.2	037/---	21	3100/3100	L	
3 WWL NDB	S33 56.1 E147 11.4	---/240			<b>ATS ROUTE W664 L/L T/W D</b>						
3 GTH VOR	S34 15.0 E146 03.9	241/243	59	3100/3100	L	3 RK VOR	S23 23.0 E150 28.3	---/273			
1 HAY NDB	S34 32.5 E144 50.0	244/---	64	2200/2200	L	5 KANBU	S23 10.8 E149 29.0	274/274	56	3400/3400	L
<b>ATS ROUTE W643 L/L T/W D</b>					3 CMT NDB	S22 46.4 E147 37.5	275/---	106	4300/4300	L	
3 CB VOR	S35 16.9 E149 11.7	---/148			<b>ATS ROUTE W667 L/L T/W D</b>						
3 PEAKE	S36 01.0 E149 30.6	148/148	47	6800/6800	L	3 SBG NDB	S36 51.2 E145 44.3	---/068			
1 MER NDB	S36 54.9 E149 54.0	147/---	57	6300/5900	L	2 SNOWY	S36 32.1 E147 50.7	066/067	103	8700/8000	L
<b>ATS ROUTE W644 L/L T/W D</b>					3 COM NDB	S36 21.2 E148 57.5	066/052	55	8700/8700	L	
3 CV VOR	S26 25.3 E146 16.0	---/319			4 MRV NDB	S35 53.9 E150 08.6	051/---	64	6200/6100	L	
5 TERIK	S24 37.9 E145 03.9	321/321	125	3000/3000	L	<b>ATS ROUTE W668 L/L T/W D</b>					
3 LRE VOR	S23 25.5 E144 16.9	322/306	84	3300/3300	L	1 DYS NDB	S22 35.9 E148 21.1	---/020			
3 WTN NDB	S22 21.9 E143 05.0	307/297	92	2700/2700	L	3 MK VOR	S21 10.4 E149 11.2	020/---	97	5000/5000	L
5 DYMON	S21 32.2 E141 48.4	298/298	87	2500/2500	L	<b>ATS ROUTE W671 L/L T/W D</b>					
3 CCY NDB	S20 39.9 E140 30.1	299/---	90	2800/2800	L	3 CG VOR	S28 10.1 E153 30.2	---/215			
<b>ATS ROUTE W645 L/L T/W D</b>					3 GANEE	S28 54.5 E152 37.5	215/215	64	5300/5300	L	
1 YKER AD	S35 45.1 E143 56.4	---/152			3 GLI NDB	S29 40.3 E151 41.7	216/---	67	6400/6400	L	
3 BDG NDB	S36 44.6 E144 19.6	151/---	62	2200/2200	L	<b>ATS ROUTE W673 L/L T/W D</b>					
<b>ATS ROUTE W647 L/L T/W D</b>					1 MB NDB	S37 58.6 E145 05.4	---/194				
5 CBB NDB	S31 19.8 E149 16.2	---/088			2 ALPAL	S39 16.1 E144 16.7	195/195	86	2500/2500	L	
3 QDI NDB	S31 29.6 E150 31.4	087/---	65	4400/4400	L	4 KII NDB	S39 53.3 E143 52.5	195/---	42	1800/1800	L
<b>ATS ROUTE W649 L/L T/W D</b>					<b>ATS ROUTE W674 L/L T/W D</b>						
2 ESL NDB	S38 06.7 E147 09.6	---/295			3 WLM NDB	S32 48.2 E151 49.7	---/343				
3 MNG VOR	S36 53.2 E145 11.7	297/340	119	6600/6600	L	1 CRAVN	S32 07.6 E151 46.0	343/343	41	5900/5900	L
3 DLQ NDB	S35 33.1 E144 57.1	341/---	81	3000/3000	L	2 JAFFA	S31 22.5 E151 41.6	343/344	45	6400/6400	L
<b>ATS ROUTE W651 L/L T/W D</b>					4 ARM NDB	S30 31.6 E151 36.9	344/316	51	6200/6200	L	
3 GDI NDB	S28 31.4 E150 19.6	---/073			2 IVL NDB	S29 53.1 E151 08.4	316/---	46	6000/6000	L	
3 SLIVA	S28 20.7 E152 01.1	072/072	90	5400/5200	L	<b>ATS ROUTE W675 L/L T/W D</b>					
1 VONDO	S28 18.1 E152 23.8	071/071	20	5900/5900	L	3 MCO VOR	S37 35.8 E149 43.1	---/320			
3 CG VOR	S28 10.1 E153 30.2	071/---	59	5900/5900	L	3 COM NDB	S36 21.2 E148 57.5	321/301	83	6100/6100	L
<b>ATS ROUTE W652 L/L T/W D</b>					1 MUSOP	S35 31.1 E147 54.2	303/303	72	8200/8200	L	
3 WOL NDB	S34 33.5 E150 47.5	---/321			3 WG VOR	S35 09.9 E147 28.1	303/272	30	4700/4700	L	
1 ODALE	S34 05.4 E150 31.1	322/322	31	3900/0	L	3 RUNDA	S34 56.6 E146 23.4	273/276	55	2900/3300	L
1 WATLE	S33 55.3 E150 25.2	322/---	11	4700/0	L	1 HAY NDB	S34 32.5 E144 50.0	277/---	81	2200/2700	L
<b>ATS ROUTE W654 L/L T/W D</b>					<b>ATS ROUTE W676 L/L T/W D</b>						
3 SBG NDB	S36 51.2 E145 44.3	---/029			2 NYN NDB	S31 33.1 E147 11.7	---/260				
3 WG VOR	S35 09.9 E147 28.1	028/024	132	4200/4200	L	3 CBA NDB	S31 32.4 E145 47.9	261/252	72	2700/2700	L
1 YNG NDB	S34 15.0 E148 14.8	023/028	67	4200/4200	L	3 COBHI	S31 47.9 E143 31.0	254/253	118	2400/2800	L
3 CWR VOR	S33 50.9 E148 38.7	028/029	31	3700/3700	L	2 BHI VOR	S32 00.0 E141 28.8	255/---	105	2800/2800	L
1 ORG NDB	S33 23.0 E149 07.5	029/---	37	5500/5500	L	<b>ATS ROUTE W677 L/L T/W D</b>					
<b>ATS ROUTE W657 L/L T/W D</b>					2 CKN NDB	S15 26.9 E145 11.2	---/338				
1 ECH NDB	S36 09.9 E144 45.9	---/200			2 MUNEL	S14 28.3 E144 55.2	339/336	60	3500/6100	B	
3 BDG NDB	S36 44.6 E144 19.6	201/198	41	2300/2300	L	2 GODIP	S12 00.2 E144 07.7	337/337	155	3500/3500	B
1 RAVEN	S36 54.6 E144 12.7	198/198	11	4000/4000	L	1 SARAK	S09 45.0 E143 25.3	337/337	141	2100/1600	B
1 BLT NDB	S37 30.8 E143 47.4	198/176	41	4000/4000	L						

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DAH Effective Date 17 NOVEMBER 2011



WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	
<b>ATS ROUTE W681 L/L T/W D</b>					3 GAY NDB	S25 35.7 E151 40.4	341/---	60	3400/3100 L	
3 YPIR AD	S33 14.3 E137 59.7	---	/167		<b>ATS ROUTE W699 L/L T/W D</b>					
3 ACTIN	S33 30.2 E138 01.6	167/---		16	2900/4600 L	1 HBA NDB	S25 19.4 E152 53.0	---	/208	
<b>ATS ROUTE W682 L/L T/W D</b>					1 MYB NDB	S25 31.2 E152 42.6	208/255	15	1700/1700	
2 MDG VOR	S32 33.7 E149 35.6	---	/315		3 GAY NDB	S25 35.7 E151 40.4	255/---	56	4100/4100 L	
5 DOORA	S31 54.4 E149 05.3	316/316		47	3800/4100 L	<b>ATS ROUTE W702 L/L T/W D</b>				
3 CNM NDB	S30 58.5 E148 22.8	316/---		67	5800/4400 L	3 QDI NDB	S31 29.6 E150 31.4	---	/143	
<b>ATS ROUTE W683 L/L T/W D</b>					3 SCO NDB	S32 02.1 E150 49.9	142/133	36	5600/5600 L	
1 YNG NDB	S34 15.0 E148 14.8	---	/120		3 SGT NDB	S32 33.1 E151 15.5	133/119	38	4200/4200 L	
3 YAS NDB	S34 49.7 E149 02.5	119/---		53	4100/4100 L	3 WMD VOR	S32 45.3 E151 31.9	119/089	18	3000/3000 L
<b>ATS ROUTE W684 L/L T/W D</b>					3 WLM NDB	S32 48.2 E151 49.7	088/---	15	2000/2000 L	
2 IVL NDB	S29 53.1 E151 08.4	---	/182		<b>ATS ROUTE W703 L/L T/W D</b>					
3 TW VOR	S31 04.0 E150 49.8	181/---		73	5200/5200 L	1 RUG NDB	S34 23.2 E148 58.5	---	/321	
<b>ATS ROUTE W685 L/L T/W D</b>					3 CWR VOR	S33 50.9 E148 38.7	321/323	36	4200/4200 L	
4 TNK VOR	S19 38.1 E134 10.9	---	/090		2 PKS VOR	S33 07.9 E148 14.2	323/319	48	4000/4000 L	
3 MOREL	S19 46.5 E136 00.1	089/089		103	3100/3100 L	2 NYN NDB	S31 33.1 E147 11.7	321/314	108	0/3100 L
5 CMW NDB	S19 54.9 E138 07.0	088/115		120	3100/3100 L	3 BKE NDB	S30 02.6 E145 57.0	315/---	111	2400/2400 L
3 MA VOR	S20 39.9 E139 29.1	114/084		89	3200/3200 L	<b>ATS ROUTE W709 L/L T/W D</b>				
3 CCY NDB	S20 39.9 E140 30.1	084/084		57	3400/3400 L	1 AF NDB	S27 34.2 E153 01.0	---	/317	
3 JLC NDB	S20 39.9 E141 43.5	083/085		69	2400/2400 L	1 WACKO	S27 11.3 E152 45.2	318/318	27	3900/3900 L
3 RMD NDB	S20 41.9 E143 06.6	084/090		78	2100/2100 L	1 KCY NDB	S26 55.1 E152 34.4	318/318	19	3900/3900 L
3 HUG VOR	S20 48.8 E144 13.4	089/080		63	2800/2800 L	3 GAY NDB	S25 35.7 E151 40.4	319/---	93	4300/4300 L
2 BOWLY	S20 43.2 E145 53.3	079/079		94	3600/4400 L	<b>ATS ROUTE W713 L/L T/W D</b>				
3 CSV VOR	S20 35.5 E147 47.1	077/075		107	3600/3400 L	3 KAT NDB	S33 42.6 E150 18.0	---	/187	
3 PN VOR	S20 29.8 E148 33.2	074/061		44	4300/4300 L	3 BIK VOR	S34 10.7 E150 06.4	187/---	30	5600/5600 L
3 HM VOR	S20 21.1 E148 57.4	061/---		24	3200/3200 L	<b>ATS ROUTE W715 L/L T/W D</b>				
<b>ATS ROUTE W687 LIMITED SEG D</b>					3 RIC NDB	S33 35.8 E150 46.6	---	/338		
1 WAREN	S38 01.0 E145 18.7	---	/302		3 GDH NDB	S30 57.2 E150 14.9	339/---	161	5600/5600 L	
3 ML VOR	S37 39.6 E144 50.5	302/---		31	3600/3600 L	<b>ATS ROUTE W716 L/L T/W D</b>				
<b>ATS ROUTE W690 L/L T/W D</b>					3 MCO VOR	S37 35.8 E149 43.1	---	/336		
1 MGD NDB	S12 03.8 E134 13.9	---	/292		3 CB VOR	S35 16.9 E149 11.7	337/---	141	7700/6800 L	
1 YGBI AD	S11 39.0 E133 22.9	293/295		56	1900/1900 L	<b>ATS ROUTE W717 L/L T/W D</b>				
1 YCKI AD	S11 09.9 E132 29.0	295/---		60	1900/1900 L	3 BTH NDB	S33 24.8 E149 39.4	---	/324	
<b>ATS ROUTE W693 L/L T/W D</b>					3 ELONG	S32 04.1 E148 56.6	325/325	88	5000/6500 L	
3 GAY NDB	S25 35.7 E151 40.4	---	/297		3 CNM NDB	S30 58.5 E148 22.8	326/---	72	5800/3700 L	
3 LONER	S24 42.8 E150 23.2	298/297		88	3700/4600 L	<b>ATS ROUTE W720 L/L T/W D</b>				
1 YBTR AD	S23 36.2 E148 48.4	299/---		109	4600/4600 L	3 SWH NDB	S35 22.8 E143 32.4	---	/145	
<b>ATS ROUTE W694 L/L T/W D</b>					3 BDG NDB	S36 44.6 E144 19.6	144/132	90	2600/2600 L	
3 BN VOR	S27 22.0 E153 08.4	---	/250		1 ARBEY	S37 10.1 E144 43.9	131/---	32	4100/4500 L	
2 SHANO	S27 28.4 E152 24.0	250/250		40	4100/4100 L	<b>ATS ROUTE W721 L/L T/W D</b>				
1 TWB NDB	S27 32.5 E151 54.7	250/249		26	4100/4100 L	1 BNA NDB	S28 50.1 E153 33.7	---	/226	
1 LUKEY	S27 35.0 E151 39.6	249/249		14	3800/5500 L	3 GBA NDB	S29 35.8 E152 10.7	227/---	86	5600/5600 L
3 LOFFA	S27 49.0 E150 11.3	250/250		80	3800/5500 L	<b>ATS ROUTE W722 L/L T/W D</b>				
2 SGE NDB	S28 02.8 E148 35.8	251/---		86	2800/2800 L	1 MLY VOR	S26 44.7 E152 45.7	---	/337	
<b>ATS ROUTE W695 L/L T/W D</b>					1 KASPA	S25 48.8 E152 32.2	337/337	57	3600/3600 L	
3 BRONS	S38 09.2 E146 06.1	---	/075		3 BUD NDB	S24 54.4 E152 19.2	338/---	55	3400/3400 L	
2 ESL NDB	S38 06.7 E147 09.6	074/064		50	4400/4400 L	<b>ATS ROUTE W723 L/L T/W D</b>				
3 TYERS	S37 54.6 E148 10.9	063/063		50	2600/2600 L	1 EDN NDB	S34 42.4 E138 37.9	---	/332	
3 MCO VOR	S37 35.8 E149 43.1	062/---		76	4500/4500 L	3 PAG NDB	S32 31.6 E137 42.1	333/---	139	4600/4000 L
<b>ATS ROUTE W696 L/L T/W D</b>					<b>ATS ROUTE W724 L/L T/W D</b>					
3 ELW VOR	S37 12.4 E145 50.1	---	/014		3 NWA NDB	S34 57.1 E150 31.8	---	/269		
1 WGT NDB	S36 25.3 E146 18.3	014/---		52	4700/4700 L	1 GLB NDB	S34 48.4 E149 44.2	270/255	40	4300/4300 L
<b>ATS ROUTE W697 L/L T/W D</b>					3 YAS NDB	S34 49.7 E149 02.5	256/---	34	4500/4500 L	
2 CMU VOR	S28 02.3 E145 37.4	---	/163		<b>ATS ROUTE W727 L/L T/W D</b>					
3 DALLY	S29 00.0 E145 46.7	163/163		58	3100/2400 L	3 GAY NDB	S25 35.7 E151 40.4	---	/307	
3 BKE NDB	S30 02.6 E145 57.0	162/---		63	3100/2400 L	3 TNG NDB	S24 29.6 E150 34.2	308/304	89	3900/3900 L
<b>ATS ROUTE W698 L/L T/W D</b>										
3 KRY NDB	S26 34.7 E151 50.7	---	/341							

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
5 MANDO	S23 28.2 E149 25.7	305/306	88	4600/4500	L	1 NICKY	S34 19.5 E149 19.3	066/066	18	4900/4900	L
1 YMMU AD	S22 48.2 E148 42.3	306/313	57	4600/2800	L	3 BIK VOR	S34 10.7 E150 06.4	065/---	40	5400/5400	L
1 MRB NDB	S22 03.7 E148 04.5	313/---	56	3000/3100	L	<b>ATS ROUTE W764 L/L T/W D</b>					
<b>ATS ROUTE W730 L/L T/W D</b>					3 OOD NDB S27 33.3 E135 26.5 ---/147						
1 HARPO	S21 00.4 E148 46.7	---/285				3 BILLY	S28 52.4 E136 12.6	146/146	89	2800/2800	L
3 CSV VOR	S20 35.5 E147 47.1	286/---	61	5600/5500	L	2 AMK NDB	S30 27.2 E137 10.0	145/167	107	2300/2800	L
<b>ATS ROUTE W731 L/L T/W D</b>					3 WHA NDB S33 03.5 E137 31.5 166/---						
3 KAT NDB	S33 42.6 E150 18.0	---/303				<b>ATS ROUTE W766 L/L T/W D</b>					
3 PANOR	S33 17.5 E149 48.4	304/304	35	5600/6000	L	2 EML NDB	S23 34.0 E148 10.3	---/319			
4 DU VOR	S32 13.2 E148 34.7	305/314	89	5600/6000	L	3 CMT NDB	S22 46.4 E147 37.5	319/---	56	2600/2600	L
3 LLAMA	S31 17.6 E147 50.1	315/315	67	2600/2600	L	<b>ATS ROUTE W768 L/L T/W D</b>					
1 BRW NDB	S29 58.5 E146 48.7	316/---	95	2300/2300	L	2 LHI NDB	S31 31.7 E159 04.4	---/256			
<b>ATS ROUTE W734 L/L T/W D</b>					2 KANGA S31 31.6 E156 43.5 257/257						
3 GFN NDB	S29 45.6 E153 01.6	---/025				2 KOALA	S31 30.0 E154 59.3	259/259	89	1500/1500	L
1 TUCAB	S29 28.8 E153 16.1	025/---	21	2600/2600	L	1 PMQ NDB	S31 26.1 E152 52.0	260/233	109	1900/1900	L
<b>ATS ROUTE W736 L/L T/W D</b>					3 SORTI S31 49.3 E151 52.8 234/---						
2 GTE NDB	S13 58.5 E136 27.3	---/152				<b>ATS ROUTE W769 L/L T/W D</b>					
5 CINDY	S15 42.2 E137 12.9	152/152	112	2200/2200	L	1 HLC NDB	S18 14.0 E127 40.3	---/019			
3 RUGGA	S17 11.9 E137 53.1	151/151	97	2600/2600	L	3 WARMN	S16 59.8 E128 11.6	019/019	80	3800/3800	L
3 TANYA	S19 33.6 E138 58.0	150/150	154	3100/2700	L	2 KU VOR	S15 46.5 E128 42.5	019/---	79	3800/3800	L
3 MA VOR	S20 39.9 E139 29.1	150/---	72	3600/3600	L	<b>ATS ROUTE W775 L/L T/W D</b>					
<b>ATS ROUTE W741 L/L T/W D</b>					3 SBG NDB S36 51.2 E145 44.3 ---/019						
1 WBL NDB	S38 17.2 E142 27.2	---/323				1 COR NDB	S35 59.2 E146 21.4	018/354	60	4100/4100	L
1 HML NDB	S37 39.0 E142 03.5	324/---	43	2900/2900	L	4 NAR VOR	S34 42.1 E146 31.0	355/---	77	2200/2200	L
<b>ATS ROUTE W743 L/L T/W D</b>					<b>ATS ROUTE W778 LIMITED SEG D</b>						
1 SMI NDB	S40 50.0 E145 04.9	---/358				3 NWA TAC	S34 57.0 E150 32.0	---/030			
3 EDMON	S40 00.0 E145 16.7	358/358	51	2000/2200	L	1 ABASS	S34 35.0 E150 56.6	030/021	30	4200/4200	L
3 WON VOR	S38 28.3 E145 37.4	358/---	93	2400/2400	L	1 HOOKS	S34 21.0 E151 08.0	021/021	17	4200/4200	L
<b>ATS ROUTE W744 L/L T/W D</b>					1 DONIC S33 22.8 E151 54.5 021/---						
3 WP VOR	S12 40.4 E141 55.3	---/089				<b>ATS ROUTE W785 L/L T/W D</b>					
3 LHR NDB	S12 47.3 E143 18.2	089/---	81	3200/3200	L	2 MDG VOR	S32 33.7 E149 35.6	---/280			
<b>ATS ROUTE W749 L/L T/W D</b>					4 DU VOR S32 13.2 E148 34.7 281/274						
2 IVL NDB	S29 53.1 E151 08.4	---/021				3 PUMPA	S31 52.1 E147 05.8	275/276	78	2600/2600	L
3 AMB NDB	S27 38.9 E152 43.4	021/---	158	6400/6400	L	3 CBA NDB	S31 32.4 E145 47.9	277/260	69	3100/2900	L
<b>ATS ROUTE W751 L/L T/W D</b>					1 YWCA ALA S31 31.6 E143 22.5 262/244						
3 KAT NDB	S33 42.6 E150 18.0	---/240				2 BHI VOR	S32 00.0 E141 28.8	245/---	101	2700/2700	L
3 RILEY	S33 56.6 E149 26.5	240/241	45	6000/6000	L	<b>ATS ROUTE W786 L/L T/W D</b>					
1 YNG NDB	S34 15.0 E148 14.8	242/240	62	5400/5600	L	1 BRL NDB	S16 04.6 E136 18.3	---/359			
4 NAR VOR	S34 42.1 E146 31.0	242/---	90	3100/3800	L	2 GTE NDB	S13 58.5 E136 27.3	359/---	126	2000/2000	L
<b>ATS ROUTE W754 L/L T/W D</b>					<b>ATS ROUTE W788 L/L T/W D</b>						
1 ORG NDB	S33 23.0 E149 07.5	---/259				3 RMD NDB	S20 41.9 E143 06.6	---/174			
1 FBS NDB	S33 21.9 E147 55.7	260/---	60	6100/6100	L	3 WTN NDB	S22 21.9 E143 05.0	174/---	100	2400/2400	L
<b>ATS ROUTE W758 LIMITED SEG D</b>					<b>ATS ROUTE W791 L/L T/W D</b>						
2 KA VOR	S20 42.9 E116 46.4	---/133				4 CRG NDB	S36 08.9 E147 51.7	---/235			
3 HOOLI	S21 56.9 E118 07.7	132/132	106	4500/4500	L	3 SBG NDB	S36 51.2 E145 44.3	237/---	111	8700/8700	L
4 NWN VOR	S23 25.3 E119 48.2	131/---	128	5500/5500	L	<b>ATS ROUTE W792 L/L T/W D</b>					
<b>ATS ROUTE W760 L/L T/W D</b>					1 YKAL AD S14 17.3 E126 37.9 ---/182						
4 DU VOR	S32 13.2 E148 34.7	---/038				2 GIB NDB	S16 25.8 E126 25.9	182/144	128	3400/3400	L
3 GDH NDB	S30 57.2 E150 14.9	037/040	114	4700/4100	L	1 HLC NDB	S18 14.0 E127 40.3	143/---	129	4700/4700	L
3 GBA NDB	S29 35.8 E152 10.7	039/035	129	6400/6400	L	<b>ATS ROUTE W793 L/L T/W D</b>					
3 GAMBL	S28 52.5 E153 02.9	035/341	63	5500/5500	L	3 MA VOR	S20 39.9 E139 29.1	---/021			
3 LAV VOR	S28 05.4 E152 55.5	341/327	47	5200/5200	L	5 SHINN	S19 10.7 E140 17.3	021/021	100	3200/3200	L
3 AMB NDB	S27 38.9 E152 43.4	327/---	28	3600/3600	L	2 NTN NDB	S17 41.7 E141 04.4	021/074	99	2100/2100	L
<b>ATS ROUTE W762 L/L T/W D</b>					2 FASIE S17 19.9 E143 10.9 073/073						
3 NATYA	S34 58.1 E143 14.0	---/075				5 MUNGA	S17 06.7 E144 23.4	072/072	71	4800/3900	L
3 TREST	S34 53.0 E144 25.3	074/074	59	2100/2100	L	3 BIB VOR	S16 55.0 E145 24.7	072/---	60	5100/4800	L
4 NAR VOR	S34 42.1 E146 31.0	072/071	104	2200/2200	L	<b>ATS ROUTE W795 L/L T/W D</b>					
1 RUG NDB	S34 23.2 E148 58.5	069/066	123	4100/3800	L	3 LVG VOR	S37 08.5 E147 33.1	---/324			

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B		
3 AY VOR	S36 04.1 E146 58.0	325/---	70	8000/8000	L	1 YLRD AD	S29 27.4 E147 59.1	338/---	35	2000/2000	L
<b>ATS ROUTE W798 L/L T/W D</b>					<b>ATS ROUTE W824 L/L T/W D</b>						
2 LM VOR	S22 14.1 E114 05.7	---/041				3 SGT NDB	S32 33.1 E151 15.5	---/046			
1 BWX NDB	S20 51.4 E115 24.4	040/083	110	2300/2300	L	2 TRE NDB	S31 53.4 E152 30.6	046/---	75	4900/4900	L
2 KA VOR	S20 42.9 E116 46.4	082/---	77	1900/1900	L	<b>ATS ROUTE W826 L/L T/W D</b>					
<b>ATS ROUTE W801 L/L T/W D</b>					<b>ATS ROUTE W827 L/L T/W D</b>						
3 YCUA ALA	S33 16.7 E148 45.8	---/098				1 YELD AD	S12 01.2 E135 34.2	---/150			
1 ORG NDB	S33 23.0 E149 07.5	097/123	19	6100/6100	L	1 YLEV AD	S12 29.9 E135 48.3	150/---	32	1900/1900	L
1 MEEGA	S33 44.0 E149 33.2	122/122	30	5900/5900	L	<b>ATS ROUTE W829 L/L T/W D</b>					
1 MUSTA	S33 53.8 E149 45.3	122/122	14	5900/5900	L	2 GTE NDB	S13 58.5 E136 27.3	---/131			
3 BIK VOR	S34 10.7 E150 06.4	122/---	24	5900/5900	L	1 MTI NDB	S16 39.5 E139 10.2	130/---	225	2000/2200	L
<b>ATS ROUTE W804 L/L T/W D</b>					<b>ATS ROUTE W830 L/L T/W D</b>						
1 MTI NDB	S16 39.5 E139 10.2	---/088				2 CMU VOR	S28 02.3 E145 37.4	---/011			
3 DRAFF	S16 45.9 E141 14.0	087/087	119	1600/1600	L	3 CV VOR	S26 25.3 E146 16.0	010/---	103	2600/2600	L
2 CRIMP	S16 50.8 E143 08.2	086/086	110	2300/2100	L	<b>ATS ROUTE W831 L/L T/W D</b>					
3 BIB VOR	S16 55.0 E145 24.7	085/---	131	5900/4700	L	1 YDAY ALA	S27 09.3 E151 16.0	---/110			
<b>ATS ROUTE W806 L/L T/W D</b>					<b>ATS ROUTE W832 L/L T/W D</b>						
2 OOM NDB	S28 06.3 E140 11.9	---/081				3 WTN NDB	S22 21.9 E143 05.0	---/252			
5 ORTOS	S28 04.5 E141 32.3	080/080	71	2100/2300	L	3 DAKUN	S22 40.1 E141 22.9	253/253	96	3400/3400	L
5 TGM NDB	S27 59.6 E143 48.9	079/046	121	3100/2200	L	3 BOU NDB	S22 54.9 E139 54.4	254/---	83	3400/3000	L
5 FREDD	S27 04.2 E145 15.7	045/046	95	2700/2500	L	<b>ATS ROUTE W834 L/L T/W D</b>					
3 CV VOR	S26 25.3 E146 16.0	045/023	66	2700/2600	L	2 FLI NDB	S40 05.7 E148 00.9	---/228			
5 ARTON	S24 38.6 E147 27.4	022/023	124	5400/4900	L	2 WYY VOR	S41 00.0 E145 43.6	230/182	118	3100/3100	L
2 EML NDB	S23 34.0 E148 10.3	022/358	75	5400/4900	L	5 SRN NDB	S42 09.2 E145 17.7	182/---	72	5600/5600	L
3 PN VOR	S20 29.8 E148 33.2	358/---	185	5500/5500	L	<b>ATS ROUTE W836 L/L T/W D</b>					
<b>ATS ROUTE W809 L/L T/W D</b>					<b>ATS ROUTE W838 L/L T/W D</b>						
2 ESL NDB	S38 06.7 E147 09.6	---/259				1 YKER AD	S35 45.1 E143 56.4	---/308			
3 MOZZA	S38 04.9 E146 05.9	260/---	50	6600/6600	L	3 SWH NDB	S35 22.8 E143 32.4	309/---	30	2300/1900	L
<b>ATS ROUTE W810 L/L T/W D</b>					<b>ATS ROUTE W839 L/L T/W D</b>						
3 JNB VOR	S30 18.8 E115 03.2	---/150				1 PH VOR	S31 56.7 E115 57.6	---/012			
1 PEA TAC	S31 40.4 E116 01.0	150/---	95	2700/2700	L	1 PEA NDB	S31 39.3 E116 01.1	011/327	18	2300/2300	L
<b>ATS ROUTE W811 L/L T/W D</b>					<b>ATS ROUTE W841 L/L T/W D</b>						
5 CBB NDB	S31 19.8 E149 16.2	---/311				3 TL VOR	S19 14.7 E146 45.5	---/279			
2 WLG VOR	S30 01.7 E148 07.7	313/---	98	5200/5200	L	5 DOTTE	S18 41.9 E144 52.7	280/280	112	4900/4900	L
<b>ATS ROUTE W812 L/L T/W D</b>					<b>ATS ROUTE W843 L/L T/W D</b>						
2 LHI NDB	S31 31.7 E159 04.4	---/268				3 GTN NDB	S18 17.7 E143 32.9	281/277	80	4800/4700	L
2 POSUM	S31 05.9 E156 47.0	270/270	120	4500/4500	L	2 NTN NDB	S17 41.7 E141 04.4	279/---	146	2800/4100	L
2 BILBY	S30 42.5 E154 52.6	271/271	101	1500/1500	L	<b>ATS ROUTE W847 L/L T/W D</b>					
2 CFS VOR	S30 19.2 E153 07.3	273/---	94	2900/2900	L	2 ESL NDB	S38 06.7 E147 09.6	---/005			
<b>ATS ROUTE W817 L/L T/W D</b>					<b>ATS ROUTE W849 L/L T/W D</b>						
3 AY VOR	S36 04.1 E146 58.0	---/043				3 TWIST	S15 44.1 E125 02.1	036/036	125	3700/3700	L
1 MUSOP	S35 31.1 E147 54.2	042/042	56	6300/6000	L	1 TST NDB	S14 05.4 E126 23.2	036/067	126	3700/3700	L
3 YAS NDB	S34 49.7 E149 02.5	041/042	70	6300/6000	L	3 PERKS	S13 26.1 E128 11.7	067/067	113	2000/2800	L
1 KEDDY	S34 34.6 E149 27.6	041/041	26	4900/4900	L	3 HANNA	S12 54.2 E129 38.0	066/066	90	1900/1500	L
3 BIK VOR	S34 10.7 E150 06.4	041/033	40	5100/5100	L	2 DN VOR	S12 25.4 E130 54.4	066/---	80	1900/1600	L
1 WATLE	S33 55.3 E150 25.2	033/---	22	5200/5200	L	<b>ATS ROUTE W850 L/L T/W D</b>					
<b>ATS ROUTE W819 L/L T/W D</b>					<b>ATS ROUTE W851 L/L T/W D</b>						
4 TN VOR	S14 31.2 E132 22.3	---/199				2 ESL NDB	S38 06.7 E147 09.6	---/005			
3 HOUND	S16 03.8 E131 42.2	199/200	100	2500/2500	L	3 LVG VOR	S37 08.5 E147 33.1	005/002	61	6500/6500	L
1 HOO NDB	S18 19.9 E130 38.2	201/---	149	3100/3100	L	4 CRG NDB	S36 08.9 E147 51.7	002/330	61	7200/7200	L
<b>ATS ROUTE W821 L/L T/W D</b>					<b>ATS ROUTE W852 L/L T/W D</b>						
3 TW VOR	S31 04.0 E150 49.8	---/091				3 WG VOR	S35 09.9 E147 28.1	330/---	62	5600/7100	L
1 PMQ NDB	S31 26.1 E152 52.0	089/---	107	6200/6200	L	<b>ATS ROUTE W853 L/L T/W D</b>					
<b>ATS ROUTE W822 L/L T/W D</b>					<b>ATS ROUTE W854 L/L T/W D</b>						
4 DU VOR	S32 13.2 E148 34.7	---/341				<b>ATS ROUTE W855 L/L T/W D</b>					
2 HILAR	S31 38.7 E148 29.2	341/341	35	2600/2600	L	<b>ATS ROUTE W856 L/L T/W D</b>					
3 CNM NDB	S30 58.5 E148 22.8	342/336	41	2600/2600	L	<b>ATS ROUTE W857 L/L T/W D</b>					
2 WLG VOR	S30 01.7 E148 07.7	337/337	58	2000/2000	L	<b>ATS ROUTE W858 L/L T/W D</b>					

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	
<b>ATS ROUTE W848 L/L T/W D</b>					3 MK VOR	S21 10.4 E149 11.2	323/---	80	3200/3200 L	
1 MLY VOR	S26 44.7 E152 45.7	---	/347		<b>ATS ROUTE W890 L/L T/W D</b>					
3 CLAMP	S26 05.4 E152 44.0	347/347		39	3 MOG NDB	S28 03.8 E117 50.6	---	/006		
1 MYB NDB	S25 31.2 E152 42.6	347/---		34	3000/3000 L	1 YCUE ALA	S27 26.8 E117 55.1	006/033	37	
<b>ATS ROUTE W849 L/L T/W D</b>					2 MEK VOR	S26 36.4 E118 32.0	032/---	60	3200/3200 L	
2 DN VOR	S12 25.4 E130 54.4	---	/048		<b>ATS ROUTE W892 L/L T/W D</b>					
1 BLAIR	S11 34.9 E131 57.9	048/048		80	5 CBB NDB	S31 19.8 E149 16.2	---	/055		
1 YCKI AD	S11 09.9 E132 29.0	047/---		39	2100/2100 L	3 GDH NDB	S30 57.2 E150 14.9	054/---	55	
<b>ATS ROUTE W853 L/L T/W D</b>					<b>ATS ROUTE W893 L/L T/W D</b>					
2 DN VOR	S12 25.4 E130 54.4	---	/069		2 GAMBL	S28 52.5 E153 02.9	---	/224		
1 ACKER	S12 01.3 E132 12.3	069/069		80	2300/2300 L	3 GLI NDB	S29 40.3 E151 41.7	225/235	86	
1 YGBI AD	S11 39.0 E133 22.9	069/---		73	2300/2300 L	2 IVL NDB	S29 53.1 E151 08.4	235/---	32	
<b>ATS ROUTE W859 L/L T/W D</b>					<b>ATS ROUTE W894 L/L T/W D</b>					
3 SBG NDB	S36 51.2 E145 44.3	---	/090		4 NAR VOR	S34 42.1 E146 31.0	---	/309		
3 LVG VOR	S37 08.5 E147 33.1	088/093		89	7800/7600 L	3 GTH VOR	S34 15.0 E146 03.9	310/---	35	
3 MCO VOR	S37 35.8 E149 43.1	091/---		107	7800/8000 L					
<b>ATS ROUTE W864 L/L T/W D</b>					<b>ATS ROUTE Y12 U/L O/W D</b>					
1 DYS NDB	S22 35.9 E148 21.1	---	/149		3 TBD VOR	S35 14.6 E139 30.6	---	/106		
1 YBTR AD	S23 36.2 E148 48.4	148/---		65	4500/3300 L	2 HINDY	S36 10.0 E142 05.1	103/103	137	
<b>ATS ROUTE W865 L/L T/W D</b>										0/0 H
2 WYM NDB	S15 30.6 E128 09.1	---	/306		3 DANKS	S36 25.9 E142 52.1	102/102	41	0/0 H	
1 YKAL AD	S14 17.3 E126 37.9	307/---		115	2900/2900 L	1 APPLE	S36 55.7 E144 23.2	101/120	79	
<b>ATS ROUTE W866 L/L T/W D</b>										0/0 H
3 HUG VOR	S20 48.8 E144 13.4	---	/067		1 ARBEY	S37 10.1 E144 43.9	120/---	22	0/0 H	
2 DAVEY	S20 24.5 E145 45.0	066/066		89	4700/4700 L					
3 EFVEY	S20 09.4 E146 40.5	066/357		54	4700/4700 L					
1 GOLDY	S19 50.7 E146 42.2	357/357		19	5500/4000 L					
2 TL VOR	S19 14.7 E146 45.5	357/---		36	5500/4000 L					
<b>ATS ROUTE W870 L/L T/W D</b>					<b>ATS ROUTE Y13 U/L O/W D</b>					
1 YBTR AD	S23 36.2 E148 48.4	---	/147		1 MANIG	S30 51.3 E117 09.9	---	/028		
3 TAM VOR	S25 48.2 E149 53.8	146/---		144	4400/4500 L	1 COPDI	S29 33.3 E117 56.5	027/027	88	
<b>ATS ROUTE W875 L/L T/W D</b>										0/0 H
2 KU VOR	S15 46.5 E128 42.5	---	/142		2 WAGOO	S28 08.9 E118 45.4	026/026	95	0/0 H	
1 YWTL ALA	S16 37.9 E129 19.2	142/---		62	2900/2900 L	2 EZDON	S25 00.0 E120 29.9	024/024	210	
<b>ATS ROUTE W878 L/L T/W D</b>										0/0 H
3 GV VOR	S12 15.9 E136 49.0	---	/252		5 TEF NDB	S21 42.7 E122 12.8	023/---	218	0/0 H	
1 YLEV AD	S12 29.9 E135 48.3	253/---		61	2100/1900 L					
<b>ATS ROUTE W879 L/L T/W D</b>					<b>ATS ROUTE Y18 U/L O/W D</b>					
3 MA VOR	S20 39.9 E139 29.1	---	/333		1 MANIG	S30 51.3 E117 09.9	---	/042		
3 CNY NDB	S18 45.2 E138 42.2	333/007		123	3100/3100 L	2 BIMBY	S29 46.8 E118 14.5	041/041	85	
1 MTI NDB	S16 39.5 E139 10.2	007/---		128	2400/2400 L	2 SUGAB	S28 46.5 E119 13.2	040/---	79	
<b>ATS ROUTE W883 L/L T/W D</b>										0/0 H
2 CMU VOR	S28 02.3 E145 37.4	---	/262		<b>ATS ROUTE Y21 U/L O/W D</b>					
5 TGM NDB	S27 59.6 E143 48.9	263/218		96	2300/2300 L	1 CORRS	S37 55.5 E145 36.8	---	/109	
3 EVOKE	S28 43.0 E142 57.0	218/218		63	2300/2100 L	4 LOLLY	S40 08.7 E150 35.1	103/---	268	
3 TIB NDB	S29 26.8 E142 03.5	219/---		64	2300/2100 L					
<b>ATS ROUTE W884 L/L T/W D</b>					<b>ATS ROUTE Y23 U/L O/W D</b>					
1 BWX NDB	S20 51.4 E115 24.4	---	/136		1 VENEL	S33 28.4 E143 46.4	---	/060		
2 PBO VOR	S23 10.4 E117 44.2	135/---		190	5400/5200 L	3 OKAPI	S31 51.9 E148 39.2	056/056	265	
<b>ATS ROUTE W887 L/L T/W D</b>										0/0 H
1 YBRN AD	S34 37.4 E143 34.7	---	/172		3 TW VOR	S31 04.0 E150 49.8	055/035	121	0/0 H	
3 SWH NDB	S35 22.8 E143 32.4	172/138		45	1900/1900 L	3 BERNI	S28 50.3 E153 27.9	034/---	191	
3 FRANZ	S35 48.9 E143 52.5	137/---		31	1900/2700 L					
<b>ATS ROUTE W889 L/L T/W D</b>					<b>ATS ROUTE Y27 U/L O/W D</b>					
3 RK VOR	S23 23.0 E150 28.3	---	/322		1 SEDAN	S34 34.1 E139 18.5	---	/067		
5 CARON	S22 21.5 E149 51.9	322/323		70	4200/4200 L	2 UVUPU	S33 50.5 E142 32.9	065/---	167	
					<b>ATS ROUTE Y35 U/L O/W D</b>					
					1 GURAK	S30 51.9 E115 38.9	---	/013		
					2 MRW NDB	S29 12.5 E116 01.4	012/004	101	0/0 B	
					2 CULAB	S27 42.1 E116 07.6	003/003	90	0/0 B	
					2 MADOG	S23 49.6 E116 22.7	002/000	232	0/0 B	
					1 VETEL	S21 23.6 E116 25.7	000/---	146	0/0 B	
					<b>ATS ROUTE Y36 U/L O/W D</b>					
					1 MANIG	S30 51.3 E117 09.9	---	/047		
					3 KONIL	S29 59.6 E118 12.6	046/046	75	0/0 H	
					2 YEEDI	S28 52.1 E119 31.8	045/045	97	0/0 H	
					3 LST NDB	S27 50.4 E120 42.0	044/033	87	0/0 H	
					4 AGREK	S27 01.3 E121 19.4	032/032	59	0/0 H	
					2 BIDAP	S24 24.1 E123 14.7	031/---	188	0/0 H	
					<b>ATS ROUTE Y40 U/L O/W D</b>					
					2 LM VOR	S22 14.1 E114 05.7	---	/166		
					2 BINTH	S24 38.7 E114 44.1	166/166	148	0/0 B	

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
2 TINDA	S27 57.3 E115 39.5	166/166	204	0/0 B	3 ROOKS	S25 28.0 E129 41.6	060/060	74	0/0 H
2 MRW NDB	S29 12.5 E116 01.4	166/---	77	0/0 B	1 WINAL	S24 41.8 E131 22.4	059/059	102	0/0 H
<b>ATS ROUTE Y43 U/L O/W D</b>					3 HERMA	S24 00.8 E132 48.8	058/073	89	0/0 H
1 WMD VOR	S32 45.3 E151 31.9	---/012			2 AS VOR	S23 47.6 E133 52.7	072/---	60	0/0 H
3 BANDA	S30 48.0 E152 34.4	012/010	129	0/0 H	<b>ATS ROUTE Y76 U/L O/W D</b>				
3 BERNI	S28 50.3 E153 27.9	010/010	126	0/0 H	1 SCOTT	S27 52.1 E153 48.0	---/122		
1 ROONY	S28 31.5 E153 36.2	010/356	20	0/0 H	4 SIFRA	S29 48.1 E156 12.4	119/---	172	0/0 H
1 GREAV	S28 19.0 E153 38.2	356/344	13	0/0 H	<b>ATS ROUTE Y81 U/L O/W D</b>				
1 KERRI	S28 09.2 E153 37.3	344/250	10	0/0 H	1 CORRS	S37 55.5 E145 36.8	---/084		
3 CG VOR	S28 10.1 E153 30.2	250/---	6	0/0 H	4 GEMAC	S38 13.4 E150 19.5	079/---	224	0/0 H
<b>ATS ROUTE Y44 U/L O/W D</b>					<b>ATS ROUTE Y84 U/L O/W D</b>				
2 MRW NDB	S29 12.5 E116 01.4	---/015			3 SY VOR	S33 56.6 E151 10.8	---/116		
2 JANNA	S27 44.5 E116 26.0	014/014	90	0/0 B	3 OPTIC	S34 24.1 E151 53.3	115/117	45	0/0 H
3 SCRUB	S26 38.3 E116 44.1	013/013	68	0/0 B	4 TONIM	S36 01.9 E154 20.8	114/---	155	0/0 H
2 REMBO	S24 27.4 E117 18.8	012/012	134	0/0 B	<b>ATS ROUTE Y88 U/L O/W D</b>				
3 BUTON	S21 24.8 E118 05.1	012/025	187	0/0 B	1 PH VOR	S31 56.7 E115 57.6	---/074		
2 PD VOR	S20 22.7 E118 37.4	024/---	69	0/0 B	1 AMANA	S31 45.5 E116 37.7	073/048	36	0/0 H
<b>ATS ROUTE Y53 U/L O/W D</b>					1 KARAB	S31 33.3 E116 52.7	047/020	18	0/0 H
1 BURGU	S32 58.2 E118 39.3	---/114			1 MANIG	S30 51.3 E117 09.9	020/022	44	0/0 H
1 MEMUP	S33 45.2 E120 52.5	112/112	121	0/0 H	3 LAKMO	S29 49.2 E117 38.3	022/022	67	0/0 H
2 RERON	S35 04.1 E125 00.0	108/105	219	0/0 H	2 ANKEL	S27 59.0 E118 27.2	020/020	118	0/0 H
2 RIDLE	S35 45.3 E128 00.0	101/101	153	0/0 H	3 MURCH	S26 45.7 E118 58.8	020/020	78	0/0 H
2 ROMPA	S36 27.0 E131 30.0	098/098	175	0/0 H	3 WONJU	S24 55.5 E119 44.8	019/019	117	0/0 B
2 RUFLE	S37 01.9 E135 00.0	094/094	172	0/0 H	2 COOBI	S23 35.3 E120 17.4	019/019	85	0/0 B
1 BUNGY	S37 29.1 E138 19.8	090/090	162	0/0 H	2 LATUV	S20 03.3 E121 40.4	018/018	225	0/0 B
3 MTG VOR	S37 45.1 E140 47.1	087/083	118	0/0 H	1 TRILL	S18 26.2 E122 17.0	017/352	103	0/0 B
2 SPIDR	S37 48.3 E142 18.9	082/082	73	0/0 B	4 BRM NDB	S17 56.8 E122 14.1	352/---	29	0/0 B
1 WENDY	S37 50.4 E143 58.7	080/---	79	0/0 B	<b>ATS ROUTE Y89 U/L O/W D</b>				
<b>ATS ROUTE Y59 U/L O/W D</b>					2 KELPI	S22 34.2 E151 35.2	---/172		
1 DOSEL	S37 09.9 E145 23.7	---/043			1 EAGLE	S25 44.7 E151 29.5	171/---	190	0/0 H
3 EBONY	S36 10.9 E147 04.2	042/042	100	0/0 H	<b>ATS ROUTE Y97 U/L O/W D</b>				
3 ARRAN	S35 50.3 E147 38.4	041/041	35	0/0 H	2 KA VOR	S20 42.9 E116 46.4	---/169		
3 NONUP	S35 25.8 E148 17.9	041/041	40	0/0 H	3 MUNNI	S21 12.6 E116 52.0	169/---	30	0/0 B
1 CULIN	S34 44.4 E149 23.4	040/050	68	0/0 H	<b>ATS ROUTE Y98 U/L O/W D</b>				
1 TARAL	S34 30.1 E149 56.0	050/050	30	0/0 H	3 AD VOR	S34 56.8 E138 31.5	---/127		
1 RIVET	S34 16.8 E150 25.8	049/049	28	0/0 H	1 GRACY	S37 20.8 E141 34.7	123/118	207	0/0 H
3 SY VOR	S33 56.6 E151 10.8	049/---	43	0/0 H	2 SPIDR	S37 48.3 E142 18.9	117/---	45	0/0 H
<b>ATS ROUTE Y60 U/L O/W D</b>					<b>ATS ROUTE Y100 U/L O/W I</b>				
2 MRW NDB	S29 12.5 E116 01.4	---/025			4 LAMOB	S12 00.0 E108 53.0	---/160		
2 PALT	S27 51.2 E116 42.2	024/024	89	0/0 H	2 IDOKU	S18 15.5 E111 06.8	160/160	396	0/0 H
3 HALEM	S26 07.9 E117 32.4	023/018	112	0/0 H	2 CAR VOR	S24 52.9 E113 40.4	160/155	421	0/0 H
2 TEANO	S24 32.3 E118 08.3	018/018	101	0/0 H	2 MRW NDB	S29 12.5 E116 01.4	154/159	288	0/0 B
1 GUVNA	S23 02.0 E118 41.4	017/042	95	0/0 H	1 REVOP	S30 33.2 E116 37.9	159/---	87	0/0 B
3 YDFD AD	S22 17.5 E119 26.2	041/---	61	0/0 H	<b>ATS ROUTE Y108 U/L O/W D</b>				
<b>ATS ROUTE Y61 U/L O/W D</b>					1 APPLE	S36 55.7 E144 23.2	---/096		
1 POONA	S21 29.8 E149 17.0	---/150			4 GEMAC	S38 13.4 E150 19.5	090/---	294	0/0 H
3 TNG NDB	S24 29.6 E150 34.2	148/---	193	0/0 H	<b>ATS ROUTE Y135 U/L O/W D</b>				
<b>ATS ROUTE Y66 U/L O/W D</b>					1 BURGU	S32 58.2 E118 39.3	---/092		
1 CORRS	S37 55.5 E145 36.8	---/099			2 HECTO	S33 00.3 E120 30.9	091/100	94	0/0 H
4 LEPAR	S39 14.2 E150 27.6	093/---	241	0/0 H	1 STILE	S33 11.9 E121 50.6	099/101	68	0/0 H
<b>ATS ROUTE Y67 U/L O/W D</b>					3 YAHMO	S30 43.0 E118 51.8	064/087	76	0/0 H
1 BOSLI	S31 16.1 E117 31.7	---/065			1 KINTO	S30 36.8 E120 54.5	085/110	106	0/0 H
3 YAHMO	S30 43.0 E118 51.8	064/087	76	0/0 H	3 KG VOR	S30 47.4 E121 27.2	109/---	30	0/0 H
1 KINTO	S30 36.8 E120 54.5	085/110	106	0/0 H	<b>ATS ROUTE Y69 U/L O/W D</b>				
3 KG VOR	S30 47.4 E121 27.2	109/---	30	0/0 H	1 KARAB	S31 33.3 E116 52.7	---/064		
<b>ATS ROUTE Y69 U/L O/W D</b>					1 BOSLI	S31 16.1 E117 31.7	063/054	37	0/0 H
1 KARAB	S31 33.3 E116 52.7	---/064			3 YOKRA	S30 04.8 E119 19.6	052/055	117	0/0 H
1 BOSLI	S31 16.1 E117 31.7	063/054	37	0/0 H	2 LEO NDB	S28 52.7 E121 19.2	054/066	127	0/0 H
3 YOKRA	S30 04.8 E119 19.6	052/055	117	0/0 H	4 SKIPA	S26 54.4 E126 22.1	062/062	293	0/0 H
2 LEO NDB	S28 52.7 E121 19.2	054/066	127	0/0 H	3 MARIT	S26 00.8 E128 27.6	060/060	125	0/0 H
4 SKIPA	S26 54.4 E126 22.1	062/062	293	0/0 H	<b>ATS ROUTE Y153 U/L O/W D</b>				
3 MARIT	S26 00.8 E128 27.6	060/060	125	0/0 H	1 SWIFT	S18 21.2 E146 48.0	---/158		
<b>ATS ROUTE Y153 U/L O/W D</b>					3 JEMMA	S19 49.2 E147 11.5	158/158	90	0/0 L

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DAH Effective Date 17 NOVEMBER 2011

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
2 STAIR	S22 41.5 E147 58.9	157/157	177	0/0 L	<b>ATS ROUTE Z18 L/L O/W D</b>				
2 VICTA	S26 28.4 E149 04.6	155/153	234	0/0 L	2 BULGI	S29 00.1 E119 40.2	---/213		
3 ROKUU	S28 11.1 E149 40.1	152/---	107	0/0 L	3 CLAYS	S29 57.3 E118 55.9	214/214	69	0/0 L
<b>ATS ROUTE Y177 U/L O/W D</b>					1 KELLA	S31 32.9 E117 39.4	216/---	116	0/0 L
3 CS VOR	S16 51.0 E145 44.6	---/139			<b>ATS ROUTE Z19 L/L O/W D</b>				
1 SWIFT	S18 21.2 E146 48.0	138/143	108	0/0 H	1 PH VOR	S31 56.7 E115 57.6	---/056		
1 WALTA	S19 41.4 E147 35.4	143/143	92	0/0 H	1 RAVON	S31 35.7 E116 31.9	055/021	36	0/0 L
2 COCKA	S23 02.5 E149 38.5	141/141	231	0/0 H	1 NORIC	S30 40.9 E116 54.5	020/026	58	0/0 L
3 TNG NDB	S24 29.6 E150 34.2	140/137	101	0/0 H	3 DUTAK	S29 30.2 E117 32.9	025/025	78	0/0 L
1 EAGLE	S25 44.7 E151 29.5	136/128	90	0/0 H	1 STURT	S28 43.4 E117 57.8	025/025	51	0/0 L
1 SMOKA	S26 52.5 E152 37.9	127/127	91	0/0 H	2 WIRAL	S27 46.5 E118 27.6	024/024	63	0/0 L
1 DAYBO	S27 07.3 E152 53.1	126/126	20	0/0 H	3 MURCH	S26 45.7 E118 58.8	023/015	67	0/0 L
3 BN VOR	S27 22.0 E153 08.4	126/---	20	0/0 H	2 YPLU AD	S25 18.8 E119 25.4	014/---	90	0/0 L
<b>ATS ROUTE Y215 U/L O/W D</b>					<b>ATS ROUTE Z21 L/L O/W D</b>				
3 HM VOR	S20 21.1 E148 57.4	---/138			1 BWX NDB	S20 51.4 E115 24.4	---/177		
3 ROWAN	S26 30.2 E153 30.7	134/151	446	0/0 H	2 HORSE	S23 12.8 E115 29.2	177/177	141	0/0 L
3 KATEB	S27 16.0 E153 47.5	151/168	48	0/0 H	2 TINDA	S27 57.3 E115 39.5	178/---	284	0/0 L
1 SCOTT	S27 52.1 E153 48.0	168/210	36	0/0 H	<b>ATS ROUTE Z22 L/L O/W D</b>				
3 CG VOR	S28 10.1 E153 30.2	210/---	24	0/0 H	2 LEO NDB	S28 52.7 E121 19.2	---/218		
<b>ATS ROUTE Y245 U/L O/W D</b>					1 MULDM	S29 47.1 E120 28.6	218/---	70	0/0 L
1 ENTRA	S33 35.0 E151 41.8	---/003			<b>ATS ROUTE Z23 L/L O/W D</b>				
3 BANDA	S30 48.0 E152 34.4	003/012	173	0/0 H	1 ROSMO	S31 26.7 E116 44.5	---/066		
2 BNA NDB	S28 50.1 E153 33.7	012/---	128	0/0 H	1 KATCM	S31 09.3 E117 27.2	065/083	40	0/0 L
<b>ATS ROUTE Y260 U/L O/W D</b>					3 SISTA	S30 57.2 E119 09.8	082/086	89	0/0 L
1 ML VOR	S37 39.6 E144 50.5	---/102			3 KG VOR	S30 47.4 E121 27.2	084/---	119	0/0 L
1 CORRS	S37 55.5 E145 36.8	101/104	40	0/0 H	<b>ATS ROUTE Z25 U/L O/W D</b>				
4 ECKHO	S39 39.5 E150 31.1	098/---	252	0/0 H	1 SWIFT	S18 21.2 E146 48.0	---/134		
<b>ATS ROUTE Y340 U/L O/W D</b>					3 BWN NDB	S20 01.3 E148 12.9	133/---	128	0/0 B
2 NYN NDB	S31 33.1 E147 11.7	---/042			<b>ATS ROUTE Z26 L/L O/W D</b>				
3 PECAN	S31 00.7 E148 00.4	041/041	53	0/0 H	3 COOLA	S25 18.0 E150 22.1	---/310		
2 RACHL	S29 32.2 E150 08.8	040/040	142	0/0 H	1 YBTR AD	S23 36.2 E148 48.4	311/---	133	0/0 L
2 MITCH	S28 56.3 E150 58.9	040/040	57	0/0 H	<b>ATS ROUTE Z32 L/L T/W D</b>				
1 CLEOS	S27 58.4 E152 17.6	039/039	90	0/0 H	1 BKT NDB	S17 45.1 E139 31.9	---/249		
2 TROTA	S27 46.8 E152 33.0	039/039	18	0/0 H	1 YDMG AD	S17 56.4 E138 49.3	249/---	42	0/0 L
3 AMB NDB	S27 38.9 E152 43.4	039/---	12	0/0 H	<b>ATS ROUTE Z35 L/L T/W D</b>				
<b>ATS ROUTE Y491 U/L O/W D</b>					3 VRD NDB	S16 24.3 E131 00.4	---/346		
1 HAWKE	S26 28.8 E151 55.7	---/112			3 JULES	S15 09.5 E130 46.6	346/357	76	0/0 L
1 SMOKA	S26 52.5 E152 37.9	111/---	45	0/0 H	3 LOUIE	S13 57.6 E130 46.7	357/001	72	0/0 L
<b>ATS ROUTE Z10 U/L O/W D</b>					2 DN VOR	S12 25.4 E130 54.4	001/---	92	0/0 L
2 ALEXA	S09 18.0 E126 57.4	125/125	83	0/0	<b>ATS ROUTE Z36 L/L T/W D</b>				
2 DONYA	S11 30.9 E129 54.4	124/130	219	0/0 B	2 AS VOR	S23 47.6 E133 52.7	---/309		
2 DN VOR	S12 25.4 E130 54.4	129/---	80	0/0 B	2 HONGI	S21 30.0 E131 21.4	311/311	196	0/0 L
<b>ATS ROUTE Z11 L/L T/W D</b>					3 YTGT AD	S20 32.9 E130 21.0	312/311	80	0/0 L
3 CS VOR	S16 51.0 E145 44.6	---/288			3 YTMN ALA	S19 58.0 E129 43.5	311/---	49	0/0 L
3 NORIS	S16 11.9 E144 20.2	289/289	90	0/0 L	<b>ATS ROUTE Z37 L/L T/W D</b>				
3 MASHA	S15 45.5 E143 24.2	290/290	60	0/0 L	1 YOLD AD	S30 29.1 E136 52.6	---/300		
2 YPMP AD	S14 53.8 E141 36.6	291/161	116	0/0 L	1 CBP NDB	S29 01.9 E134 43.4	302/---	142	0/0 L
3 KOW NDB	S15 28.8 E141 44.9	161/---	36	0/0 L	<b>ATS ROUTE Z38 L/L O/W D</b>				
<b>ATS ROUTE Z13 L/L T/W D</b>					3 LTN NDB	S28 36.7 E122 25.4	---/233		
3 BDV NDB	S25 53.8 E139 21.2	---/357			1 MULDM	S29 47.1 E120 28.6	235/235	124	0/0 L
3 YBIE AD	S24 20.8 E139 27.6	357/010	93	0/0 L	2 BUNGL	S30 20.3 E119 31.7	236/236	59	0/0 L
3 BOU NDB	S22 54.9 E139 54.4	009/---	89	0/0 L	3 YAHMO	S30 43.0 E118 51.8	237/231	41	0/0 L
<b>ATS ROUTE Z16 L/L O/W D</b>					1 KELLA	S31 32.9 E117 39.4	232/241	80	0/0 L
1 GURAK	S30 51.9 E115 38.9	---/337			2 GRENE	S31 53.4 E116 56.2	242/267	42	0/0 L
1 ONGAR	S29 12.0 E114 47.9	337/343	109	0/0 L	1 PH VOR	S31 56.7 E115 57.6	268/---	50	0/0 L
2 YKBR AD	S27 41.5 E114 15.6	343/---	95	0/0 L	<b>ATS ROUTE Z41 L/L O/W D</b>				
<b>ATS ROUTE Z17 L/L O/W D</b>					2 GEL VOR	S28 47.4 E114 42.4	---/149		
1 SWIFT	S18 21.2 E146 48.0	---/127			1 IRWIN	S29 21.3 E115 06.8	149/141	40	0/0 L
3 HM VOR	S20 21.1 E148 57.4	126/---	171	0/0 B	1 HINDS	S30 47.7 E116 32.3	140/175	114	0/0 L

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WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
1 MOROK	S31 05.6 E116 34.5	175/---	18	0/0 L	3 LIRRI	S27 19.6 E120 01.0	214/214	41	0/0 L
<b>ATS ROUTE Z42 L/L T/W D</b>					2 ENTAL	S28 28.7 E119 06.6	214/214	84	0/0 L
3 CS VOR	S16 51.0 E145 44.6	---/304			2 CAMEL	S29 12.1 E118 31.6	215/227	53	0/0 L
2 NECTA	S15 11.1 E143 48.1	306/306	150	0/0 L	1 BIU VOR	S30 35.6 E116 46.8	229/---	123	0/0 L
3 YAUR AD	S13 21.2 E141 43.2	307/---	163	0/0 L	<b>ATS ROUTE Z75 L/L T/W D</b>				
<b>ATS ROUTE Z44 L/L O/W D</b>					3 VRD NDB	S16 24.3 E131 00.4	---/006		
1 PH VOR	S31 56.7 E115 57.6	---/137			3 COFEE	S15 09.0 E131 13.4	006/356	76	0/0 L
1 CANRI	S32 22.4 E116 27.3	137/123	36	0/0 L	3 FILLY	S13 57.8 E131 13.5	357/345	71	0/0 L
1 PUMRY	S32 39.2 E116 59.5	123/107	32	0/0 L	2 DN VOR	S12 25.4 E130 54.4	345/---	94	0/0 L
3 ESP VOR	S33 40.8 E121 49.4	102/---	251	0/0 L	<b>ATS ROUTE Z79 L/L T/W D</b>				
<b>ATS ROUTE Z47 L/L O/W D</b>					3 GLA VOR	S23 51.9 E151 12.3	---/267		
3 SBG NDB	S36 51.2 E145 44.3	---/088			1 YBTR AD	S23 36.2 E148 48.4	268/---	133	0/0 L
1 YHOT AD	S37 02.9 E147 20.0	086/---	78	0/0 L	<b>ATS ROUTE Z82 L/L O/W D</b>				
<b>ATS ROUTE Z50 L/L O/W D</b>					1 YHOT AD	S37 02.9 E147 20.0	---/250		
2 AYE NDB	S25 10.4 E130 58.5	---/100			3 ELW VOR	S37 12.4 E145 50.1	251/---	73	0/0 L
1 AVMON	S25 30.1 E132 24.1	099/145	80	0/0 B	<b>ATS ROUTE Z83 L/L O/W D</b>				
3 GORKA	S26 12.7 E132 52.1	144/---	49	0/0 B	1 KATCM	S31 09.3 E117 27.2	---/058		
<b>ATS ROUTE Z51 L/L T/W D</b>					3 YOKRA	S30 04.8 E119 19.6	055/---	116	0/0 L
2 TL VOR	S19 14.7 E146 45.5	---/265			<b>ATS ROUTE Z86 U/L O/W D</b>				
2 CONOR	S19 05.8 E143 39.6	267/267	176	0/0 L	3 IKUMA	S10 25.8 E127 08.1	---/317		
2 PUDIN	S18 56.4 E141 09.5	268/268	143	0/0 L	2 MAMAL	S09 37.8 E126 27.0	317/317	63	0/0 H
3 CNY NDB	S18 45.2 E138 42.2	269/---	140	0/0 L	<b>ATS ROUTE Z87 L/L O/W D</b>				
<b>ATS ROUTE Z52 L/L O/W D</b>					1 RAVON	S31 35.7 E116 31.9	---/052		
1 HAMTN	S32 21.8 E117 39.4	---/308			1 ROSMO	S31 26.7 E116 44.5	052/022	14	0/0 L
2 GRENE	S31 53.4 E116 56.2	309/---	46	0/0 L	1 VILOD	S30 45.7 E117 02.4	021/054	44	0/0 L
<b>ATS ROUTE Z54 L/L T/W D</b>					3 KONIL	S29 59.6 E118 12.6	052/052	76	0/0 L
3 LTV NDB	S38 12.8 E146 28.5	---/025			2 BULGI	S29 00.1 E119 40.2	051/051	97	0/0 L
2 DAVOS	S36 42.8 E147 54.0	024/024	113	0/0 L	3 YDLO AD	S27 52.4 E121 16.3	050/---	108	0/0 L
3 CB VOR	S35 16.9 E149 11.7	024/---	106	0/0 L	<b>ATS ROUTE Z90 L/L T/W D</b>				
<b>ATS ROUTE Z55 L/L T/W D</b>					1 HAWKY	S34 34.5 E137 51.2	---/324		
2 KA VOR	S20 42.9 E116 46.4	---/204			3 MAKEE	S33 00.7 E136 50.7	325/325	106	0/0 L
1 VETEL	S21 23.6 E116 25.7	204/189	45	2700/4700 B	2 BANAM	S31 13.2 E135 44.3	326/---	121	0/0 L
2 POGAV	S23 30.0 E116 00.3	190/191	128	4700/5100 B	<b>ATS ROUTE Z91 L/L T/W D</b>				
3 WOLAG	S26 34.3 E115 16.0	193/193	188	5000/5000 L	3 WHA NDB	S33 03.5 E137 31.5	---/313		
2 GEL VOR	S28 47.4 E114 42.4	194/---	136	2900/2900 L	1 OLLEE	S31 47.5 E136 18.1	314/313	98	0/0 B
<b>ATS ROUTE Z56 L/L T/W D</b>					2 BANAM	S31 13.2 E135 44.3	314/331	45	0/0 B
3 WDH NDB	S25 24.7 E142 39.8	---/122			1 CBP NDB	S29 01.9 E134 43.4	332/---	141	0/0 B
1 YQLP AD	S26 36.5 E144 15.4	121/076	112	0/0 L	<b>ATS ROUTE Z92 L/L T/W D</b>				
3 CV VOR	S26 25.3 E146 16.0	075/---	109	0/0 L	1 CBP NDB	S29 01.9 E134 43.4	---/020		
<b>ATS ROUTE Z61 L/L O/W D</b>					1 RETEP	S28 29.9 E135 00.7	019/084	35	0/0 B
1 NORIC	S30 40.9 E116 54.5	---/037			1 CLYDE	S28 30.0 E135 50.1	084/114	44	0/0 B
3 LAKMO	S29 49.2 E117 38.3	036/036	64	0/0 L	3 CALAR	S29 00.0 E136 49.9	113/158	60	0/0 B
2 NALLY	S28 17.1 E118 54.2	035/035	113	0/0 L	2 GAANY	S30 26.3 E137 17.9	157/169	90	0/0 B
3 WLU NDB	S26 37.5 E120 13.2	034/---	122	0/0 L	3 WHA NDB	S33 03.5 E137 31.5	168/---	157	0/0 B
<b>ATS ROUTE Z67 L/L O/W D</b>					<b>ATS ROUTE Z93 L/L T/W D</b>				
1 KATCM	S31 09.3 E117 27.2	---/071			3 MAKEE	S33 00.7 E136 50.7	---/138		
3 YAHMO	S30 43.0 E118 51.8	070/---	77	0/0 L	3 MESER	S33 44.1 E137 27.3	137/137	53	0/0 L
<b>ATS ROUTE Z68 L/L O/W D</b>					1 MARGO	S34 24.8 E138 02.3	136/---	50	0/0 L
3 YSRD AD	S29 05.9 E122 27.3	---/242			<b>ATS ROUTE Z95 L/L O/W D</b>				
2 BUNGL	S30 20.3 E119 31.7	244/---	170	0/0 L	3 MURCH	S26 45.7 E118 58.8	---/027		
<b>ATS ROUTE Z69 L/L O/W D</b>					2 CLOVA	S25 00.8 E120 00.4	026/022	118	0/0 L
1 JULIE	S11 47.8 E129 42.2	---/305			3 YCNF AD	S21 40.4 E121 35.7	021/---	218	0/0 L
2 SELVA	S09 27.1 E126 40.8	306/306	227	0/0 L	<b>ATS ROUTE Z101 L/L T/W D</b>				
<b>ATS ROUTE Z74 L/L O/W D</b>					1 DBY NDB	S17 21.4 E123 40.0	---/041		
1 YJUN AD	S26 25.3 E120 34.6	---/197			2 ROBBI	S15 50.6 E125 08.7	040/040	124	0/0 L
1 URAMU	S26 45.8 E120 27.1	197/213	22	0/0 L	1 YKAL AD	S14 17.3 E126 37.9	040/---	127	0/0 L

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<b>ATS ROUTE Z107 L/L O/W D</b>					<b>ATS ROUTE Z418 L/L T/W D</b>				
1 CORDO	S34 19.8 E150 47.1	---	/212		3 OK VOR	S27 24.0 E151 44.3	---	/257	
2 DARTS	S36 40.4 E147 50.0	214/214	202	0/0 L	3 CHAPL	S27 27.2 E150 00.0	258/258	93	0/0 L
1 YHOT AD	S37 02.9 E147 20.0	215/---	33	0/0 L	3 COLLY	S27 29.4 E147 36.4	260/260	128	0/0 L
<b>ATS ROUTE Z224 L/L O/W D</b>					<b>ATS ROUTE Z418 L/L T/W D</b>				
1 YHOT AD	S37 02.9 E147 20.0	---	/027		3 CRIST	S27 28.5 E144 27.2	262/262	168	0/0 L
2 SNOWY	S36 32.1 E147 50.7	026/029	39	0/0 L	2 YLLE AD	S27 24.5 E141 48.5	264/236	141	0/0 L
3 CB VOR	S35 16.9 E149 11.7	028/---	100	0/0 L	3 TIGGA	S27 43.6 E141 04.8	236/236	43	0/0 L
					2 OOM NDB	S28 06.3 E140 11.9	237/---	52	0/0 L

NON CHARTED ROUTES – DOMESTIC

<b>ATS ROUTE W909</b>					<b>ATS ROUTE W954</b>				
1 SU VOR	S26 35.9 E153 05.4	---	/183		2 CFS VOR	S30 19.2 E153 07.3	---	/093	
1 BORDA	S26 45.6 E153 02.7	183/183	10	0/0	1 GALON	S30 38.1 E154 32.0	092/092	76	0/0
1 BURPA	S27 04.4 E152 57.5	183/---	19	0/0	3 POSUM	S31 05.9 E156 47.0	090/090	119	0/0
<b>ATS ROUTE W934</b>					<b>ATS ROUTE W954</b>				
1 SPARK	S28 54.3 E153 40.7	---	/347		3 LHI NDB	S31 31.7 E159 04.4	088/088	120	0/0
1 ENAID	S27 22.9 E153 37.5	347/261	91	0/0	1 OCTAN	S31 44.0 E160 14.5	087/---	61	0/0
3 BN VOR	S27 22.0 E153 08.4	261/---	26	0/0	<b>ATS ROUTE ZZ781</b>				
<b>ATS ROUTE W944</b>					<b>ATS ROUTE ZZ781</b>				
3 SCO NDB	S32 02.1 E150 49.9	---	/121		4 SATNA	S11 04.2 E124 34.2	---	/144	
3 WLM NDB	S32 48.2 E151 49.7	120/---	68	0/0	4 ARG VOR	S16 37.9 E128 26.9	142/142	402	0/0
<b>ATS ROUTE W946</b>					<b>ATS ROUTE ZZ910</b>				
2 WLG VOR	S30 01.7 E148 07.7	---	/301		3 BIB VOR	S16 55.0 E145 24.7	---	/236	
2 CARBN	S29 07.4 E146 58.1	302/302	81	2000/0	2 FARMA	S17 48.9 E143 35.2	237/237	118	0/0
2 CMU VOR	S28 02.3 E145 37.4	304/312	96	0/2000	2 DEBAZ	S19 17.6 E140 27.7	238/238	199	0/0
2 EXXON	S25 46.6 E143 39.1	314/314	172	0/0	3 YGON AD	S19 46.5 E139 24.4	239/---	66	0/0
2 VALDZ	S23 27.0 E141 41.8	316/316	175	0/0	<b>ATS ROUTE ZZ929</b>				
3 MA VOR	S20 39.9 E139 29.1	318/305	207	0/0	3 TL VOR	S19 14.7 E146 45.5	---	/257	
2 TEXAN	S19 00.7 E137 29.4	306/306	150	3200/3200	2 ITORT	S19 18.1 E146 07.6	257/257	36	0/0
2 PETRL	S17 12.3 E135 21.6	307/307	163	2900/0	2 EYSAW	S19 23.0 E145 10.7	258/258	54	0/0
2 BARON	S16 14.9 E134 15.6	308/309	85	0/2900	2 APUSS	S19 33.1 E143 01.1	259/259	123	0/0
4 TN VOR	S14 31.2 E132 22.3	310/---	151	2600/2600	2 ECATT	S19 41.4 E140 55.6	260/260	119	0/0
<b>ATS ROUTE W949</b>					<b>ATS ROUTE ZZ929</b>				
1 PIGGY	S29 11.8 E153 23.8	---	/067		3 YGON AD	S19 46.5 E139 24.4	261/---	86	0/0
1 LOUEY	S29 05.0 E154 00.0	066/011	32	0/0	<b>ATS ROUTE ZZ931</b>				
1 DEWEY	S28 00.0 E154 30.0	011/309	70	0/0	2 YAMB AD	S27 38.4 E152 42.7	---	/092	
2 SAVER	S27 31.2 E154 03.6	310/278	37	0/0	2 COWIE	S27 40.4 E152 52.1	092/091	9	0/0
1 ENAID	S27 22.9 E153 37.5	278/---	25	0/0	2 MAYSO	S27 41.5 E152 57.6	091/091	5	0/0
<b>ATS ROUTE W950</b>					<b>ATS ROUTE ZZ931</b>				
4 DU VOR	S32 13.2 E148 34.7	---	/317		1 JCW VOR	S27 45.7 E153 20.1	091/149	20	0/0
2 CMU VOR	S28 02.3 E145 37.4	320/---	294	2600/2600	3 CG VOR	S28 10.1 E153 30.2	148/135	26	0/0
<b>ATS ROUTE W951</b>					<b>ATS ROUTE ZZ931</b>				
3 ROM NDB	S26 32.6 E148 46.9	---	/284		2 SEMAJ	S28 40.6 E153 53.7	134/---	37	0/0
1 DINOS	S25 58.5 E147 23.4	286/286	82	0/0	<b>ATS ROUTE ZZ932</b>				
1 ETHER	S24 45.4 E144 33.0	288/288	171	0/0	3 SEMAJ	S28 40.6 E153 53.7	---	/314	
3 VALDZ	S23 27.0 E141 41.8	290/---	175	0/0	3 CG VOR	S28 10.1 E153 30.2	315/287	37	0/0
<b>ATS ROUTE W952</b>					<b>ATS ROUTE ZZ932</b>				
1 AMOCO	S24 00.0 E152 12.5	---	/328		2 RISON	S27 52.1 E152 52.7	287/287	38	0/0
2 KELPI	S22 34.2 E151 35.2	329/332	92	0/0	1 PERSA	S27 49.7 E152 47.8	287/327	5	0/0
1 BOOMA	S20 00.0 E150 41.2	333/333	162	0/0	2 YAMB AD	S27 38.4 E152 42.7	327/---	12	0/0
2 LAMEK	S18 09.3 E150 02.6	334/334	116	0/0	<b>ATS ROUTE ZZ933</b>				
1 CALTX	S17 00.0 E149 39.2	334/---	73	0/0	1 AMB TAC	S27 38.5 E152 43.0	---	/195	
<b>ATS ROUTE W953</b>					<b>ATS ROUTE ZZ933</b>				
1 MOBIL	S17 00.0 E150 17.9	---	/153		1 BAKEL	S27 52.0 E152 35.5	195/147	15	0/0
1 OILER	S18 09.3 E150 42.1	153/154	73	0/0	2 GAMBL	S28 52.5 E153 02.9	147/125	65	0/0
1 GASSO	S20 00.0 E151 20.4	153/152	116	0/0	1 PIGGY	S29 11.8 E153 23.8	125/---	27	0/0
1 LITER	S22 34.3 E152 18.8	151/151	163	0/0	<b>ATS ROUTE ZZ975</b>				
1 HALON	S24 00.0 E152 52.3	150/---	91	0/0	1 WAYS VFM	S15 34.5 E131 02.4	---	/057	
					1 WILE VFM	S15 17.0 E131 33.9	057/032	35	0/0
					1 RESC VFM	S14 46.8 E131 56.2	032/061	37	0/0
					1 BOFOR	S14 14.0 E133 07.5	061/---	77	0/0

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL      2 ▲      3 △      4 ▴      5 ▽



## SECTION 22

## AIP AUSTRALIA

## AIR ROUTES – 37

WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B	WAYPOINT	TRACK IN/OUT	DIST NM	LSALT IN/BACK	H L B
<b>ATS ROUTE ZZ980</b>					<b>ATS ROUTE ZZ989</b>				
1 AKKER	S19 55.6 E146 25.4	---/331			2 DN VOR	S12 25.4 E130 54.4	---/185		
1 PELIS	S18 57.0 E146 01.7	332/098	63	0/0	3 MUNRO	S14 24.6 E130 36.1	185/185	120	0/0
1 CROKO	S19 03.8 E146 27.7	098/055	26	0/0	3 DICKO	S16 18.2 E130 18.4	185/185	114	0/0
1 PRANA	S18 54.6 E146 46.5	055/---	20	0/0	3 SUANN	S18 14.6 E129 59.9	185/185	117	0/0
					3 YTMN ALA	S19 58.0 E129 43.5	185/---	104	0/0

Chart Depiction. The following waypoint numbering is indicative of the presentation on Charts

1 NIL      2 ▲      3 △      4 ▴      5 ▽

DAH Effective Date 17 NOVEMBER 2011



## SECTION 23 - MILITARY SENSITIVE AREAS

(These areas are applicable to military operations only)  
(See also ERSA – Fly Neighbourly Areas)  
(Levels are AGL unless specified otherwise)

### BRISBANE FIR

#### YB/S1 Katherine Gorge

Overfly by not below 2,500FT AMSL or remain outside the area bounded by straight lines joining S14 15.9 E132 24.1 S14 14.9 E132 37.1 S14 19.9 E132 36.1 S14 19.9 E132 24.1 S14 15.9 E132 24.1

#### YB/S2 Newcastle / Stockton

Overfly not below 2,000FT or remain outside the area bounded by a line passing from S32 51.3 E151 42.3, along south bank of Hunter River to S32 52.4 E151 43.0 to S32 52.4 E151 48.6 to S32 59.7 E151 48.6 thence clockwise around arc 5NM radius centred on S32 55.9 E151 42.3.

#### YB/S3 Singleton City

Overfly not below 2000FT or remain outside a circle of 1NM radius centred on S32 23.9 E151 11.1.

#### YB/S4 Legges Camp / Bombah Pt

Overfly not below 2,000FT or remain outside a circle of 1NM radius centred on S32 29.9 E152 18.1.

#### YB/S5 Largs

Overfly not below 2,000FT or remain outside a circle of 1NM radius centred on S32 41.9 E151 36.1.

#### YB/S6 Siding Spring Observatory

Aircraft operating outside controlled airspace are to remain outside the following circular areas centred on S31 16.5 E149 04.1.

Aircraft operating in controlled airspace are to remain on track unless otherwise instructed by Air Traffic Control.

SFC to 10,000FT AMSL	3NM radius
10,000FT to FL200	5NM radius
FL200 to FL300	8NM radius
FL300 to FL450	12NM radius
above FL450	17NM radius

#### YB/S7 Leadville

Overfly not below 1,000FT or remain outside a circle of 3NM radius centred on S32 01.0 E149 30.3.

#### YB/S8 Saxonvale Mine

All military aircraft are advised caution is to be exercised flying over coal mines adjacent to west boundary Singleton firing ranges/training areas.

Mine operator advises vertical danger to unspecified heights exists during regular explosive blasting in pits. Aircraft should avoid overflying pits, but no restrictions exist overflying mine buildings, or other parts of mine operation.

Saxonvale is the southern mine of the two.

#### YB/S9 Pallarenda

Overfly not below 2,000FT or remain outside a circle of 1NM radius centred on position S19 12.1 E146 46.4.  
Aircraft departing/arriving Townsville are to comply with avoidance instructions issued by Townsville ATC.

#### YB/S10 Great Barrier Reef Marine Park (Far Northern Section)

Overfly not below 3,000FT or remain outside the following circular areas of 3NM radius centred on the following co-ordinates:

Ashmore Banks	S11 47.9 E143 38.3
	S11 51.3 E143 35.6
	S11 53.9 E143 39.1
Boydong Islet & Reef	S11 28.9 E143 01.1
	S11 29.9 E143 05.1
Bird Islet	S11 45.9 E143 05.6
Burkitt Island.	S13 56.9 E143 45.3
Bushy Island & Reef	S11 14.9 E142 53.1
	S11 34.9 E142 54.1
	S11 43.9 E142 58.1
Cairncross Island & Reef	S11 13.9 E142 55.1
Cholmondeley Islet & Reef	S11 21.9 E143 03.1
Clack Island & Reef	S14 03.9 E144 15.1
Combe Island & Reef	S14 24.2 E144 54.4
Coquet Island.	S14 32.4 E144 59.6
Davie Reef	S13 58.7 E144 26.9
Douglas Island & Reef	S11 13.9 E142 59.1
Fife Island & Reef	S13 38.9 E143 43.1
Hannah Island.	S13 51.9 E143 43.1
Hay Island.	S13 40.1 E143 41.6
Houghton Island.	S14 31.4 E144 58.6
Howick Island.	S14 30.1 E144 58.6
Ingham Island	S14 25.1 E144 53.3
King Island & Reef	S14 05.9 E144 20.1
Lloyd Island & Reef	S12 45.9 E143 24.1
Lowrie Islet.	S13 16.4 E143 35.8
MacArthur Islands	S11 43.9 E142 59.1
MacLennan Reef	S11 24.2 E143 46.6
Magra Islet & Reef	S11 51.9 E143 17.1
Morris Island & Reef	S13 28.9 E143 43.1
Moulter Reef	S11 24.7 E143 59.6
Newton Island	S14 30.4 E144 55.1
Night Island	S13 10.9 E143 34.6
Pelican Island & Reef	S13 54.7 E143 50.1
Pipon Island & Reef.	S14 06.9 E144 31.1
Quoin Island	S12 24.3 E143 29.6
Raine Island	S11 36.1 E144 01.9
Reef	S13 26.2 E143 58.3
Reef	S13 21.6 E143 57.6
Saunders Islet	S11 41.9 E143 11.1
	S11 42.9 E143 12.1
Sinclair Island & Reef	S14 32.9 E144 54.1
Sinclair Islet & Reef	S11 06.9 E143 01.1
Sir Charles Hardy Island	S11 53.9 E143 28.1
Stainer Islet	S13 57.4 E143 50.1
Tydemann Reef	S13 59.0 E144 30.3
Wallace Island & Reef	S11 26.9 E143 02.1
West Hannibal Lighthouse	S11 35.9 E142 57.1
Wilke Island	S13 46.3 E143 38.5

#### YB/S11 Great Barrier Reef Marine Park (Cairns Section)

Overfly not below 3,000FT or remain outside the following circular areas of 3NM radius centred on the following co-ordinates:

Agincourt Reefs	S15 59.8 E145 50.0
Beaver Reef	S17 50.1 E146 29.1
Eagle Island & Reef	S14 41.9 E145 23.1
Green Island	S16 45.5 E145 58.1
Hastings Reef	S16 31.2 E146 01.4
Hope Islands	S15 44.9 E145 27.1
Low Islets	S16 23.1 E145 34.3

Low Wooded Island & Reef	S15 05.9 E145 23.1
Mackay Reef	S16 02.9 E145 39.1
Michaelmas Reef	S16 36.3 E145 59.0
Nymph Island	S14 38.9 E145 15.1
Rocky Islets	S14 51.6 E145 29.0
Stephens Island & Reef	S17 43.9 E146 10.1
Taylor Reef	S17 50.1 E146 33.7
Three Isles	S15 06.9 E145 25.6
Turtle Island	S14 43.2 E145 11.5
Two Islands	S15 01.2 E145 26.9
Undine Reef	S16 06.9 E145 40.1

#### YB/S12 Great Barrier Reef Marine Park (Central Section)

Overfly not below 3,000FT or remain outside the following circular areas of 3NM radius centred on the following coordinates:

Brook Islands	S18 08.6 E146 17.3
Dunk Island	S17 56.6 E146 09.4
Eshelby Island	S20 01.2 E148 37.6
Family Islands	S18 02.3 E146 10.8
Hardy Reef	S19 45.7 E149 13.9
John Brewer Reef	S18 38.1 E147 03.8

#### YB/S13 Great Barrier Reef Marine Park (Mackay / Capricorn Section)

Overfly not below 3,000FT or remain outside the following circular areas of 3NM radius centred on the following coordinates:

Bell Cay	S21 48.8 E151 14.9
Bushy Island	S20 57.5 E150 05.1
Bylund Cay	S21 47.2 E152 24.7
Gannett Cay	S21 44.4 E152 25.1
Frigate Cay	S21 44.4 E152 25.1
Price Cay	S21 47.2 E152 26.6
Redbill Island	S20 58.4 E150 05.1
Thomas Cay	S21 38.9 E152 21.6

#### YB/S14 Great Barrier Reef Marine Park (Southern Section)

Overfly not below 3,000FT or remain outside the following circular areas of 3NM radius centred on the following co-ordinates:

Fairfax Islands	S23 51.4 E152 22.4
Heron Island	S23 26.5 E151 54.8
Hoskyn Islands	S23 48.2 E152 17.8
Lady Elliot Island	S24 06.9 E152 42.6
Lady Musgrave Island	S23 54.4 E152 23.6
Masthead Islet	S23 32.2 E151 44.6
North Reef	S23 11.0 E151 54.4
North West Island	S23 17.8 E151 42.4
One Tree Island	S23 30.4 E152 05.5
Tryon Island	S23 14.8 E151 46.6
Wilson Island	S23 18.3 E151 54.9
Wreck Island	S23 19.9 E151 57.3

#### YB/S15 Pelican Rock / Akens Island

During the months October to March, the rock is a nesting area for pelicans.

Pilots of low-flying aircraft are requested to avoid the area over and near S22 20.4 E150 15.6 as far as practicable during this period.

#### RESTRICTED AREAS.

The existing Defence Restricted Areas which are located within the Park have been identified in the Zoning Plans. The conduct of Defence operations within declared restricted areas is not restricted, however, the Zoning Plans call for prior notification to the Marine Park Authority

The Queensland State Marine Parks Act, Hervey Bay Zoning Plan, restricts aircraft operations within the area depicted in the Park

Zoning Plan as follows:

The pilot in command shall not manoeuvre an aircraft lower than 1000FT above an area within 300M of any humpback whale between 01 August and 30 November each year without a permit.

Permits and other information may be obtained from the Assistant Director Marine Parks, Queensland Department of Environment and Heritage, PO Box 155 North Quay Queensland.

The Zoning Plan prohibits the operation of helicopters due to the disturbing effects of downdraft on the whales.

Military pilots are requested to comply with the above requirements.

#### MELBOURNE FIR

##### YM/S1 Altona

Overfly not below 500FT and preferably by 1500FT or remain outside a circle of .5 NM radius centred on S37 51.1 E144 48.4

##### YM/S2 Sarsfield

Overfly not below 1,000FT or remain 5NM outside a circle extending 5NM laterally centred on the position ESL 040034 (S37 44.9 E147 42.8).

##### YM/S3 Clyde River Valley

Overfly not below 4,000FT or remain outside an area bounded by a semicircle of 2NM radius centred on Nelligen (S35 38.9 E150 08.1) thence 2NM either side of the Clyde river, Northbound to join a semi-circle of 2NM radius centred on Brooman (S35 27.9 E150 14.4)

##### YM/S4 Mt Stromlo Observatory

Aircraft operating outside controlled airspace are to remain outside the following circular areas centred on S35 19.2 E149 00.4.

Aircraft operating in controlled airspace are to remain on track unless otherwise instructed by Air Traffic Control.

SFC to 10,000FT AMSL	1NM radius
10000FT to FL200	5NM radius
FL 200 to FL300	8NM radius
FL300 to FL450	12NM radius
Above FL450	17NM radius

#### PERMANENT DRILLING RIGS

Oil and Gas platforms (land and sea) are declared sensitive areas. They are to be avoided by an airspace of 1,000FT vertically and one nautical mile horizontally. Permanent Drilling Rigs are listed in below.

Barracoota A	S38 17.8 E147 40.5
Barrow Island	S20 49.9 E115 25.1
Cobia Platform	S38 27.0 E148 18.5
Flounder Platform	S38 18.9 E148 26.4
Fortescue Platform	S38 24.9 E148 16.7
Halibut A	S38 24.3 E148 19.3
Kingfish A	S38 35.8 E148 08.7
Kingfish B	S38 35.8 E148 11.3
Kingfish West	S38 35.6 E148 06.3
Mackerel	S38 28.8 E148 20.6
Marlin A	S38 13.8 E148 13.2
North Rankin A	S19 35.1 E116 08.2
Snapper	S38 11.6 E148 01.5
Tuna	S38 10.2 E148 25.2

## SECTION 24 – MILITARY AAR AND AEW&C AIRSPACE

1. **GENERAL.** The conduct of Air to Air Refuelling (AAR) and Airborne Early Warning and Control (AEW&C) operations is based on the strict requirement that participating aircraft remain within specifically designated airspace. In general AAR and AEW&C operations in Australian airspace are conducted on tracks and in anchor patterns published in this document. Where mission requirements necessitate operations outside of published areas refer to Australian Defence Force General Planning Australia (ADF GPA) for planning information.

2. AAR operations will be conducted under instrument flight rules. The tanker aircraft is responsible for requesting altitude clearance and routing, if different than flight plan routing, for the receiver(s) and tanker beyond the AR Exit point. Throughout the refuelling operation, controller initiated heading assignments may not be effected without a clearance from the tanker. Each aircraft must receive a specific clearance prior to leaving the refuelling track/anchor if outside Military Restricted airspace.

3. **EXPLANATION OF TERMS.**

a. **Refuelling Tracks:**

RVIP – Rendezvous Initial Point. A planned geographic point prior to the RVCP to which tankers and receivers time independently to effect an arrival at the RV control time.

RVCP –Rendezvous Control Point. The planned geographic point over which the receiver(s) arrive in the observation/astern position with respect to the assigned tanker.

Navigation Checkpoints – Designated points where required to provide a means for adequate navigation along track.

Exit – The point at which the refuelling track terminates.

Communication / Rendezvous Plan (C/R Plan) –

- i. Primary UHF,
- ii. Backup UHF,
- iii. APN 69/134/135 Settings,
- iv. APX 78/Encode/Decode,
- v. TACAN Channels Receiver/Tanker,
- vi. N/R = Not required.

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Refuelling Altitudes – The block of airspace within which refuelling operations may be conducted.

Scheduling Unit – The military unit responsible for scheduling AAR operations along the route.

Assigned Centre – Primary airspace control authority.

SODAR – Simultaneous Opposite Direction Air Refuelling.

**b. Refuelling Anchors:**

Entry Points – Designated points where tanker aircraft may enter the anchor area without the assistance of radar. When tanker is actively controlled by ATC or GCI the tanker may proceed to the anchor point without crossing an Entry point.

Anchor Point / Inbound Course / Leg length – The geographic point upon which the anchor pattern is oriented and the inbound course to the anchor point and the length of the inbound leg.

Anchor Pattern – A left hand pattern with the four defining points of the pattern.

Exit Point – Designated points where tanker and receiver aircraft may depart the anchor area after refuelling is complete. Under positive radar control tanker and receiver aircraft may exit anchor pattern without crossing an exit point.

## AMBERLEY AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
AM11	None specified	None specified	26 06.09S 154 47.98E (AM11C) 48° 45nm	26 06.09S 154 47.98E 25 48.85S 154 36.63E 26 11.84S 153 53.51E 26 29.08S 154 04.89E	None specified	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL200/FL300	33SQN OPS  07 5361 0033	RAAF CRU (Freq TBA) if R637C/D active  Brisbane (As assigned) if R637C/D deactivated	NOTAM

**AIRSPACE:** 26 46.72S 153 53.48E (AMX100) to 26 15.70S 153 29.93E (AMX101) to 25 31.45S 154 17.82E (AMX108) to 24 49.70S 155 02.05E (AMX105) to 25 39.53S 155 54.00E (AMX106) to 26 12.25S 154 55.97E (AMX107) to 26 46.72S 153 53.48E (AMX100).

**REMARKS:** Pattern size: 45nm x 20nm. Pattern exists within R637C and D (5000-FL600).

AM12	None specified	None specified	24 52.17S 155 20.16E (AM12C) 125° 50nm	24 52.17S 155 20.16E 24 38.23S 155 35.96E 24 02.06S 154 57.88E 24 16.00S 154 42.17E	None specified	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL200/FL300	33SQN OPS  07 5361 0033		NOTAM
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**AIRSPACE:** 23 47.77S 154 50.22E (AMX200) to 24 45.46S 155 51.04E (AMX201) to 25 06.43S to 155 27.59E (AMX202) to 24 08.34S 154 26.68E (AMX203) to 23 47.77S 154 50.22E (AMX200).

**REMARKS:** Pattern size: 50nm x 20nm. Airspace size: 80nm x 30nm. No current procedure available for anchor AAR operations outside Military controlled airspace.

AM13	None specified	None specified	27 06.92S 155 54.25E (AM13C) 45° 45nm	27 06.92S 155 54.25E 26 50.14S 155 41.99E 27 14.77S 154 59.61E 27 31.56S 155 11.92E	None specified	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL200/FL300	33SQN OPS  07 5361 0033	RAAF CRU (Freq TBA) if R650B active  Brisbane (As assigned) if R650B deactivated	NOTAM
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**AIRSPACE:** 27 13.20S 154 44.48E (AMX109) to 26 33.38S 155 46.92E (AMX110) to 26 15.83S 156 30.38E (AMX111) to 27 16.57S 157 31.05E (AMX112) to 28 50.17S 156 37.88E (AMX113) to 27 46.47S 154 44.48E (AMX114) to 27 13.20S 154 44.48E (AMX109).

**REMARKS:** Pattern size: 45nm x 20nm. Pattern exists within R650B (5000-FL600).

AM14	None specified	None specified	27 00.42S 157 29.24E (AM14C) 125° 50nm	27 00.42S 157 29.24E 26 46.75S 157 45.61E 26 09.94S 157 07.60E 26 23.62S 156 51.32E	None specified	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL200/FL300	33SQN OPS  07 5361 0033		NOTAM
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**AIRSPACE:** 25 55.47S 157 00.45E (AMX204) to 26 54.23S 158 01.16E (AMX205) to 27 14.78S 157 36.76E (AMX206) to 26 15.93S to 156 35.69E (AMX207) to 25 55.47S 157 00.45E (AMX204).

**REMARKS:** Pattern size: 50nm x 20nm. Airspace size: 80nm x 30nm. No current procedure available for anchor AAR operations outside Military controlled airspace.

## SECTION 24

## AIP AUSTRALIA

## MAAA AMBERLEY - 2

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION	
<b>AM15</b>	None specified	None specified	29 24.53S 154 40.67E	29 24.53S 154 40.67E	None specified	a. 301.500	FL200/FL300	33SQN OPS	RAAF CRU (Freq TBA) if R668A active	NOTAM	
			(AM15C)	29 15.36S 154 20.33E							b. TBA
			15°	29 55.46S 153 56.53S							c. reserved
			45nm	30 04.64S 154 17.01E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 28 29.22S 153 57.65E (AMX116) to 28 33.78S 154 09.33E (AMX117) to 29 13.35S 155 07.17E (AMX118) to 29 48.27S 155 59.37E (AMX119) to 30 38.42S 155 31.42E (AMX120) to 30 28.17S 154 25.88E (AMX121) to 30 18.88S 153 29.53E (AMX122) to 29 41.65S 153 19.12E (AMX123) to 29 41.02S 153 39.40E (AMX124) to 29 22.27S 153 58.83E (AMX125) to 29 03.09S 153 59.32E (AMX126) to 28 52.22S 153 49.65E (AMX127) to 28 29.22S 153 57.65E (AMX116).											
<b>REMARKS:</b> Pattern size: 45nm x 20nm. Pattern exists within R668A (5000-FL600).											
<b>AM16</b>	None specified	None specified	30 04.44S 156 23.97E	30 04.85S 156 27.85E	None specified	a. 301.500	FL200/FL300	33SQN OPS	RAAF CRU (Freq TBA) if R626C active	TBA	
			(AM16C)	29 56.40S 156 06.96E							b. TBA
			17°	30 37.31S 155 44.89E							c. reserved
			45nm	30 45.76S 156 05.93E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 29 53.51S 156 40.37E (AMX208) to 31 01.50S 156 04.02E (AMX209) to 30 48.67S 155 32.28E (AMX210) to 29 40.48S 156 09.35E (AMX211) to 29 53.51S 156 40.37E (AMX208).											
<b>REMARKS:</b> Pattern size: 45nm x 20nm. Airspace size: 75nm x 30nm. No current procedure available for anchor AAR operations outside Military controlled airspace.											
<b>AM17</b>	None specified	None specified	28 16.52S 150 53.44E	28 16.52S 150 53.44E	None specified	a. 301.500	FL200/FL300	33SQN OPS	RAAF CRU (Freq TBA) if R626C active	NOTAM	
			(AM17C)	28 07.45S 150 33.26E							b. TBA
			338°	28 47.68S 150 09.98E							c. reserved
			45nm	28 56.75S 150 30.29E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 29 22.15S 150 09.28E (AMX128) to 28 10.00S 149 48.00 (AMX129) to 27 51.47S 150 57.40E (AMX133) to 28 12.56S 151 02.67E (AMX134) to 28 32.55S 151 18.62E to 29 22.15S 150 09.28E (AMX128).											
<b>REMARKS:</b> Pattern size: 45nm x 20nm. Pattern exists within R626C (10000-FL310).											
<b>AM18</b>	None specified	None specified	27 39.30S 149 34.51E	27 39.30S 149 34.51E	None specified	a. 301.500	FL200/FL300	33SQN OPS	RAAF CRU (Freq TBA) if R626C active	NOTAM	
			(AM18C)	27 41.26S 149 12.10E							b. TBA
			344°	28 31.15S 149 17.55E							c. reserved
			50nm	28 29.19S 149 40.14E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 27 23.99S 149 38.93E (AMX212) to 28 43.90S 149 47.09E (AMX213) to 28 46.83S 149 13.23E (AMX214) to 27 26.62S 149 05.40E (AMX215) to 27 23.99S 149 38.93E (AMX212).											
<b>REMARKS:</b> Pattern size: 50nm x 20nm. Airspace size: 80nm x 30nm. No current procedure available for anchor AAR operations outside Military controlled airspace.											



## SECTION 24

## AIP AUSTRALIA

## MAAA AMBERLEY - 3

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
<b>AM19</b>	None specified	None specified	27 22.52S 150 43.33E	27 22.52S 150 43.33E	None specified	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL200/FL300	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R626B active	NOTAM
			(AM19C)	27 10.28S 150 25.55E						
			27°	27 42.03S 149 57.95E						
			40nm	27 54.28S 150 15.81E						
<b>AIRSPACE:</b> 28 10.00S 149 48.00E (AMX129) to 26 51.27S 149 43.73E (AMX130) to 27 05.08S 150 55.07E (AMX131) to 27 25.96S 150 52.34E (AMX132) to 27 51.47S 150 57.40E (AMX133) to 28 10.00S 149 48.00E (AMX129).										
<b>REMARKS:</b> Pattern size: 40nm x 20nm. Pattern exists within R626B (10000-FL310).										
<b>AM91</b>	None specified	None specified	26 49.56S 152 58.00E	26 49.56S 152 58.00E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM91C)	26 59.66S 152 38.67E						
			319°	28 00.16S 153 18.36E						
			70nm	27 50.06S 153 37.87E						
<b>AIRSPACE:</b> 26 33.85S 152 54.17E (AMX900) to 26 48.78S 152 25.17E (AMX901) to 28 15.68S 153 21.23E (AMX902) to 28 00.60S 153 50.53E (AMX903) to 26 33.85S 152 54.17E (AMX900).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>AM92</b>	None specified	None specified	26 52.21S 153 25.92E	26 52.21S 153 25.92E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM92C)	26 47.00S 153 03.20E						
			359°	27 59.01S 152 48.97E						
			70nm	27 59.66S 153 11.19E						
<b>AIRSPACE:</b> 28 10.18S 152 40.64E (AMX904) to 28 15.44S 153 14.12E (AMX905) to 26 36.50S 153 33.50E (AMX906) to 26 31.28S 153 00.43E (AMX907) to 28 10.18S 152 40.64E (AMX904).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>AM93</b>	None specified	None specified	24 59.65S 155 59.38E	24 59.65S 155 59.38E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM93C)	25 13.62S 155 43.56E						
			305°	26 03.80S 156 37.53E						
			70nm	25 49.83S 156 53.45E						
<b>AIRSPACE:</b> 26 18.29S 156 44.84E (AMX908) to 25 57.33S 157 08.58E (AMX909) to 24 45.29S 155 51.85E (AMX910) to 25 05.99S 155 27.94E (AMX911) to 26 18.29S 156 44.84E (AMX908).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## SECTION 24

## AIP AUSTRALIA

## MAAA AMBERLEY - 4

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/		EXIT POINTS		REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
			IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	CR PLAN					
<b>AM94</b>	None specified	None specified	28 51.83S 157 27.60E	28 51.83S 157 27.60E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM94C)	28 42.09S 157 07.70E						
			16°	29 43.40S 156 28.51E						
			70nm	29 53.13S 156 48.60E						
<b>AIRSPACE:</b> 29 54.17S 156 15.67E (AMX912) to 30 08.83S 156 46.00E (AMX913) to 28 41.17S 157 41.00E (AMX914) to 28 26.84S 157 11.00E (AMX915) to 29 54.17S 156 15.67E (AMX912).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>AM95</b>	None specified	None specified	28 54.49S 149 16.68E	28 54.49S 149 16.68E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM95C)	28 49.49S 149 38.74E						
			335°	29 57.40S 149 58.95E						
			70nm	30 02.40S 149 36.64E						
<b>AIRSPACE:</b> 30 18.47S 149 34.98E (AMX916) to 30 11.10S 150 08.78E (AMX917) to 28 33.76 149 40.63E (AMX918) to 28 40.89S 149 07.56E (AMX919) to 30 18.47S 149 34.98E (AMX916).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>AM96</b>	None specified	None specified	26 56.17S 149 01.35E	26 56.17S 149 01.35E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(AM96C)	26 54.71S 149 23.66E						
			346°	28 04.71S 149 29.56E						
			70nm	28 06.17S 149 07.01E						
<b>AIRSPACE:</b> 28 21.54S 149 02.39E (AMX920) to 28 19.47S 149 36.39E (AMX921) to 26 39.36S 149 28.35E (AMX922) to 26 41.53S 148 54.81E (AMX923) to 28 21.54S 149 02.39E (AMX920).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## DARWIN AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
DN91	None specified	None specified	09 39.40S 132 20.00E (DN91C) 302° 70nm	09 39.40S 132 20.00E 09 56.00S 132 09.60E 10 37.40S 133 06.80E 10 20.70S 133 17.70E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 09 26.80S 132 10.40E (DNX900) to 09 50.70S 131 52.90E (DNX901) to 10 49.10S 133 14.20E (DNX902) to 10 25.60S 133 32.10E (DNX903) to 09 26.80S 132 10.40E (DNX900).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
DN92	None specified	None specified	14 28.22S 128 06.31E (DN92C) 312° 70nm	14 28.22S 128 06.31E 14 14.17S 128 20.96E 15 04.05S 129 11.81E 15 18.15S 128 57.08E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 13 59.80S 128 13.69E (DNX904) to 14 21.00S 127 51.80E (DNX905) to 15 32.23S 129 04.80E (DNX906) to 15 10.82S 129 26.75E (DNX907) to 13 59.80S 128 13.69E (DNX904).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
DN93	None specified	None specified	12 09.74S 127 26.58E (DN93C) 352° 70nm	12 09.74S 127 26.58E 12 08.03S 127 46.92E 13 18.08S 127 53.07E 13 19.79S 127 32.63E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 11 52.67S 127 50.67E (DNX908) to 11 55.16S 127 20.17E (DNX909) to 13 35.45S 127 29.06E (DNX910) to 13 32.87S 127 59.87E (DNX911) to 11 52.67S 127 50.67E (DNX908).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## EAXA AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
<b>NW91</b>	None specified	None specified	36 13.40S 153 22.00E (NW91C) 30° 70nm	36 13.40S 153 22.00E 35 59.40S 153 04.30E 36 49.30S 152 03.20E 37 03.30S 152 21.00E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 35 45.20S 153 13.20E(NWX900) to 36 56.00S 151 45.30E(NWX901) to 37 17.50S 152 11.80E(NWX902) to 36 06.40S 153 39.50E(NWX903) to 35 45.20S 153 13.20E(NWX900)										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>NW92</b>	None specified	None specified	35 33.50S 150 23.10E (NW92C) 342° 70nm	35 33.50S 150 23.10E 35 35.20S 149 58.60E 36 45.00S 150 05.80E 36 43.30S 150 30.60E	None specified	N/A	FL260/FL320	2SQN	Melbourne	TBA
<b>AIRSPACE:</b> 35 18.40S 150 26.90E(NWX904) to 35 21.10S 149 50.40E(NWX905) to 37 00.70S 150 00.90E(NWX906) to 36 58.20S 150 37.70E(NWX907) to 35 18.40 150 26.90E(NWX904).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## TINDAL AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION	
TN11	None specified	None specified	14 15.50S 132 19.00E	14 15.50S 132 19.00E	None specified	a. 301.500	F160/F190	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R249 Active	NOTAM	
			(TN11C)	14 25.37S 132 07.33E							b. TBA
			315°	14 48.11S 132 27.59E							c. reserved
			30nm	14 38.24S 132 39.28E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 30TAC circle based on TDL.											
<b>REMARKS:</b> Pattern exists within R249 (10000-NOTAM) remaining 2.5NM clear of boundary. Pattern size: 30nm x 15nm.											
TN12	None specified	None specified	13 35.69S 130 45.44E	13 35.69S 130 45.44E	None specified	a. 301.500	F160/F190	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R225 Active	NOTAM	
			(TN12C)	13 53.77S 130 45.54E							b. TBA
			266°	13 53.54S 131 21.48E							c. reserved
			35nm	13 35.46S 131 21.38E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 14 00.00S 130 22.43E (TNX 101) to 13 25.42S 130 35.65E (TNX102) then along the minor arc of a circle of 62.50NM radius centred on 12 25.40S 130 54 .39E (DN/DME) to 13 21.60S 131 22.87E (TNX103) to 14 00 00S 131 49.70E (TNX104) to 14 00 00S 130 22.43E (TNX101)											
<b>REMARKS:</b> Pattern exists within R225 (9500-NOTAM). Pattern size: 35nm x 18nm. Tanker to remain North of latitude S14 and South of 62.5DME DN.											
TN91	None specified	None specified	14 57.10S 135 31.90E	14 57.10S 135 31.90E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA	
			(TN91C)	14 50.60S 135 11.80E							
			195°	15 57.10S 134 48.10E							
			70nm	16 03.60S 135 07.40E							
<b>AIRSPACE:</b> 14 44.90S 135 41.90E (TNX900) to 14 33.90S 135 13.10E (TNX901) to 16 09.30S 134 37.70E (TNX902) to 16 19.80S 135 06.50E (TNX903) to 14 44.90S 135 41.90E (TNX900).											
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.											

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
<b>TN92</b>	None specified	None specified	16 34.70S 130 00.00E (TN92C) 304° 70nm	16 34.70S 130 00.00E 16 18.80S 130 12.60E 17 01.60S 131 10.50E 17 17.90S 130 57.90E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 16 05.20S 130 03.70E (TNX904) to 16 29.00S 129 44.00E (TNX905) to 17 31.10S 131 06.30E (TNX906) to 17 07.10S 131 25.80E (TNX907) to 16 05.20S 130 03.70E (TNX904).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>TN93</b>	None specified	None specified	13 27.67S 130 01.60E (TN93C) 17° 70nm	13 27.67S 130 01.60E 13 34.75S 130 20.81E 14 40.53S 129 55.37E 14 33.44S 129 36.07E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 13 11.80S 130 02.55E (TNX908) to 13 22.50S 130 31.18E (TNX909) to 14 56.30S 129 54.46E (TNX910) to 14 45.40S 129 25.61E (TNX911) to 13 11.80S 130 02.56E (TNX908)										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## TOWNSVILLE AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
TL11	None specified	None specified	19 36.16S 145 05.38E (TL11C)  256° 40nm	19 36.16S 145 05.38E 19 56.11S 145 07.76E  19 51.53S 145 49.84E 19 31.58S 145 47.46E	None specified	a. 301.500 b. TBA  c. reserved d. reserved e. 33/96	Within NOTAM vertical limits	33SQN OPS  07 5361 0033	RAAF CRU (Freq TBA) if R737 Active  Brisbane (As assigned) if R737 Deactivated	NOTAM
<b>AIRSPACE:</b> 19 52.00S 146 37.00E (TLX100) to 20 01.20S 145 50.00E (TLX101) to 20 11.90S 144 53.70E (TLX102) to 19 26.70S 144 39.30E (TLX103) to 19 21.90S 145 31.90E (TLX104) to 19 19.00S 146 01.70E (TLX105) to 19 35.00S 146 04.50E (TLX106) to 19 45.10S 146 12.60E (TLX107) to 19 52.00S 146 37.00E (TLX100).										
<b>REMARKS:</b> Pattern exists within R737A and R737B (7000-NOTAM). Pattern size: 40nm x 20nm. Check status of R741B (5000-NOTAM).										
TL12	None specified	None specified	18 34.06S 145 12.10E (TL12C)  295° 40nm	18 34.06S 145 12.10E 18 51.00S 145 00.79E  19 12.48S 145 36.38E 18 55.54S 145 47.71E	None specified	a. 301.500 b. TBA  c. reserved d. reserved e. 33/96	Within NOTAM vertical limits	33SQN OPS  07 5361 0033	RAAF CRU (Freq TBA) if R737 Active  Brisbane (As assigned) if R737 Deactivated	NOTAM
<b>AIRSPACE:</b> 19 26.70S 144 39.30E (TLX103) to 19 21.90S 145 31.90E (TLX104) to 19 19.00S 146 01.70E (TLX105) to 19 06.00S 146 10.00E (TLX111) to 18 38.60S 145 42.10E (TLX110) to 18 18.17S 145 12.43E (TLX109) to 18 14.50S 144 56.20E (TLX108) to 19 26.70S 144 39.300E (TLX103).										
<b>REMARKS:</b> Pattern exists within R737C and R737D (7000-NOTAM). Pattern size: 40nm x 20nm.										
TL91	None specified	None specified	19 46.87S 144 06.96E (TL91C)  349° 70nm	19 46.87S 144 06.96E 19 45.58S 144 28.12E 18 35.50S 144 23.26E 18 36.75S 144 02.25E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 18 19.80S 144 27.17E (TLX900) to 18 22.00S 143 55.66E (TLX901) 20 02.40S 144 02.87E (TLX902) to 20 00.33S 144 34.56E (TLX903) to 18 19.80S 144 27.17E (TLX900).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										

## WILLIAMTOWN AAR and AEW&amp;C AIRSPACE

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION	
WM11	None specified	None specified	30 55.73S 153 51.38E	30 55.73S 153 51.38E	None specified	a. 301.500	F130/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R574 Active	NOTAM	
			(WM11C)	31 04.78S 154 48.25E							b. TBA
			277°	31 24.72S 154 43.80E							c. reserved
			50nm	31 15.45S 153 46.97E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 30 46.40S 153 26.20E (WMX116) to 30 55.23S 154 20.20E (WMX126) to 31 03.72S 155 14.58E (WMX117) to 31 34.87S 155 04.40E (WMX118) to 31 54.15S 154 02.43E (WMX125) to 32 15.92S 152 49.88E (WMX114) to 32 02.50S 152 47.80E (WMX115) to 30 46.40S 153 26.20E (WMX116).											
<b>REMARKS:</b> Pattern exists within R574 (G/L) (SFC-FL600). Pattern size: 50nm x 20nm.											
WM12	None specified	None specified	31 46.49S 153 01.49E	31 46.49S 153 01.49E	None specified	a. 301.500	F130/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R574 Active	NOTAM	
			(WM12C)	31 54.45S 153 23.04E							b. TBA
			191°	31 17.66S 153 41.47E							c. reserved
			40nm	31 09.70S 153 20.06E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 30 46.40S 153 26.20E (WMX116) to 30 55.23S 154 20.20E (WMX126) to 31 54.15S 154 02.43E (WMX125) to 32 15.92S 152 49.88E (WMX114) to 32 02.50S 152 47.80E (WMX115) to 30 46.40S 153 26.20E (WMX116).											
<b>REMARKS:</b> Pattern exists within R574 (G) (SFC-FL600). Pattern size: 40nm x 20nm.											
WM13	None specified	None specified	32 26.10S 152 51.39E	32 26.10S 152 51.39E	None specified	a. 301.500	F130/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R574 Active	NOTAM	
			(WM013)	32 43.20S 152 58.46E							b. TBA
			238°	32 31.40S 153 37.38E							c. reserved
			35nm	32 14.38S 153 30.33E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 32 15.92S 152 49.88E (WMX114) to 31 54.15S 154 02.43E (WMX125) to 32 41.95S 153 47.72E (WMX124) to 32 49.98S 152 55.20E (WMX113) to 32 48.87S 152 19.63E (WMX104) to 32 40.25S 152 18.25E (WMX103) to 32 34.55S 152 15.12E (WMX102) to 32 28.00S 152 27.75E (WMX134) to 32 15.92S 152 49.88E (WMX114).											
<b>REMARKS:</b> Pattern exists within R574 (B/H) (SFC-FL600). Pattern size: 35nm x 18nm.											



## SECTION 24

## AIP AUSTRALIA

## MAAA WILLIAMTOWN - 2

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION	
<b>WM14</b>	None specified	None specified	32 55.52S 152 42.41E	32 55.52S 152 42.41E	None specified	a. 301.500	F130/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R574 Active	NOTAM	
			(WM14C)	33 13.54S 152 43.24E							b. TBA
			255°	33 12.21S 153 21.22E							c. reserved
			32nm	32 54.19S 153 20.39E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 32 48.87S 152 19.63E (WMX104) 32 49.98S 152 55.20E (WMX113) to 32 41.95S 153 47.72E (WMX124) to 33 17.70S 153 32.32E (WMX123) to 33 21.22S 152 42.07E (WMX112) to 33 03.05S 152 13.58E (WMX106) to 32 57.37S 152 17.43E (WMX105) to 32 48.87S 152 19.63E (WMX104).											
<b>REMARKS:</b> Pattern exists within R574 (C/J) (SFC-FL600). Pattern size: 32nm x 18nm.											
<b>WM15</b>	None specified	None specified	33 30.50S 153 04.00E	33 30.50S 153 04.00E	None specified	a. 301.500	F130/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R574 Active	NOTAM	
			(WM15C)	33 45.53S 153 03.97E							b. TBA
			257°	33 45.45S 153 51.81E							c. reserved
			40nm	33 30.42S 153 51.84E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 33 17.70S 153 32.32E (WMX123) to 33 13.97S 154 20.98E (WMX120) to 33 49.00S 154 00.08E (WMX121) to 33 49.00S 153 18.67E (WMX122) to 33 49.00S 152 40.25E (WMX111) to 33 21.22S 152 42.07E (WMX112) to 33 17.70S 153 32.32E (WMX123).											
<b>REMARKS:</b> Pattern exists within R574 (K/P) (SFC-FL600). Pattern size: 40nm x 15nm.											
<b>WM16</b>	None specified	None specified	32 09.78S 150 36.07E	32 09.78S 150 36.07E	None specified	a. 301.500	A100/F330	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R559 A/F active	NOTAM	
			(WM16C)	32 11.88S 150 12.63E							b. TBA
			342°	32 51.73S 150 17.51E							c. reserved
			40nm	32 49.63S 150 41.16E							d. reserved
											e. 33/96
<b>AIRSPACE:</b> 33 16.22S 150 32.89E (WMX200) to 32 33.11S 149 43.40E (WMX201) to 31 38.27S 150 29.09E (WMX202) to 32 04.01S 150 43.97E (WMX203) to 33 07.43S 150 51.30E (WMX204) to 33 16.22S 150 32.89E (WMX200).											
<b>REMARKS:</b> Pattern exists within R559A (7500-FL260) and R559F (FL260-FL600). Pattern size: 40nm x 20nm.											

## SECTION 24

## AIP AUSTRALIA

## MAAA WILLIAMTOWN - 3

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
WM17	None specified	None specified	31 54.36S 150 05.13E	31 54.36S 150 05.13E	None specified	a. 301.500	A110/F240	33SQN OPS 07 5361 0033	RAAF CRU (Freq TBA) if R559 A/B active	NOTAM
			(WM17C)	32 05.06S 149 45.24E	b. TBA					
			316°	32 43.10S 150 13.59E	c. reserved					
			45nm	32 32.40S 150 33.61E	d. reserved					
					e. 33/96					

**AIRSPACE:** 33 16.22S 150 32.89E (WMX200) to 32 33.11S 149 43.40E (WMX201) to 31 51.00S 149 30.37E (WMX205) to 31 24.84S 150 21.26E (WMX206) to 31 38.27S 150 29.09E (WMX202) to 32 04.01S 150 43.97E (WMX203) to 33 07.43S 150 51.30E (WMX204) to 33 16.22S 150 32.89E (WMX200).

**REMARKS:** Pattern exists within R559 A (7500-FL260) and R559B (10000 – FL260). Pattern size: 45nm x 20nm.

WM91	None specified	None specified	32 01.90S 152 37.90E	32 01.90S 152 37.90E	None specified	N/A	FL260/FL340	2SQN	Brisbane	TBA
			(WM91C)	31 18.60S 152 59.60E						
			10°	31 13.50S 152 45.60E						
			47nm	31 56.70S 152 23.90E						

**AIRSPACE:** 31 04.20S 152 47.10E (WMX900) to 31 11.20S 153 06.40E (WMX901) to 32 11.10S 152 36.50E (WMX902) to 32 04.00S 152 17.00E (WMX903) to 31 04.20S 152 47.10E (WMX900).

**REMARKS:** Pattern exists within R587A and R578B (FL125-FL600 NOTAM). Pattern size: 47nm x 13nm. Airspace size 65nm x 18nm

WM92	None specified	None specified	30 51.47S 155 02.83E	30 51.47S 155 02.83E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
			(WM92C)	30 39.07S 153 44.15E						
			98°	30 19.12S 153 47.55E						
			70nm	30 31.50S 155 06.17E						

**AIRSPACE:** 30 40.88S 153 25.03E (WMX904) to 30 59.18S 155 18.77E (WMX905) to 30 29.40S 155 25.03E (WMX906) to 30 11.28S 153 31.68E (WMX907) to 30 40.88S 153 25.03E (WMX904).

**REMARKS:** Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.

## SECTION 24

## AIP AUSTRALIA

## MAAA WILLIAMTOWN - 4

NUMBER	ENTRY POINTS	RVIP	ANCHOR POINT/ IB COURSE/ PATTERN LENGTH	ANCHOR PATTERN	EXIT POINTS	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE	TIMES OF OPERATION
<b>WM93</b>	None specified	None specified	31 24.34S 155 44.99E (WM93C) 2° 70nm	31 24.34S 155 44.99E 31 18.88S 155 22.48E 32 26.37S 154 59.78E 32 31.84S 155 22.53E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 32 39.50S 154 49.07E (WMX908) to 32 47.78 155 23.20E (WMX909) to 31 11.30S 155 55.30E (WMX910) to 31 02.91S 155 21.81E (WMX911) to 32 39.50S 154 49.07E (WMX908).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>WM94</b>	None specified	None specified	32 47.14S 155 15.82E (WM94C) 12° 70nm	32 47.14S 155 15.82E 32 38.41S 154 54.48E 33 41.50S 154 17.73E 33 50.23S 154 39.32E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 33 52.85S 154 04.18E (WMX912) to 34 05.88S 154 36.65E (WMX913) to 32 35.62S 155 28.90E (WMX914) TO 32 22.43S 154 56.78E (WMX915) to 33 52.85S 154 04.18E (WMX912).										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>WM95</b>	None specified	None specified	30 56.50S 150 00.00E (WM95C) 234° 70nm	30 56.50S 150 00.00E 30 38.30S 149 50.40E 31 07.00S 148 35.80E 31 25.20S 148 45.40E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 30 54.90S 150 18.40E(WMX916) to 30 27.40S 150 03.90E(WMX917) to 31 07.80S 148 17.30E(WMX918) to 31 35.60S 148 31.40E(WMX919) to 30 54.90S 150 18.40E(WMX916)										
<b>REMARKS:</b> Pattern size: 70nm x 20nm. Airspace size: 100nm x 30nm.										
<b>WM96</b>	None specified	None specified	31 55.50S 155 41.90E (WM95C) 003° 90nm	31 55.50S 155 41.90E 31 49 80S 155 19.20E 33 16.50S 154 49.50E 33 21.10S 155 12.40E	None specified	N/A	FL260/FL320	2SQN	Brisbane	TBA
<b>AIRSPACE:</b> 31 43.90S 155 54.50E (WMX920) to 31 34.30S 155 17.30E (WMX921) to 33 26.70S 154 36.30E (WMX922) to 33 36.40S 155 14.30E (WMX923) to 31 43.90S 155 54.50E (WMX920)										
<b>REMARKS:</b> Pattern size: 90nm x 20nm. Airspace size: 118nm x 33nm.										

DAH Effective Date 17 NOVEMBER 2011

## MILITARY AAR and AEW&C AIRSPACE ANCHOR WAYPOINTS

### AMBERLEY

Waypoint	Latitude/Longitude	Waypoint	Latitude/Longitude	Waypoint	Latitude/Longitude
AMX100	26 46.72S 153 53.48E	AMX200	23 47.77S 154 50.22E	AM11C	26 06.09S 154 47.98E
AMX101	26 15.70S 153 29.93E	AMX201	24 45.46S 155 51.04E	AM12C	24 52.17S 155 20.16E
AMX102	25 43.75S 153 05.93E	AMX202	25 06.43S 155 27.59E	AM13C	27 06.92S 155 54.25E
AMX103	24 50.93S 153 38.63E	AMX203	24 08.34S 154 26.68E	AM14C	27 00.42S 157 29.24E
AMX104	23 59.02S 154 10.23E	AMX204	25 55.47S 157 00.45E	AM15C	29 24.53S 154 40.67E
AMX105	24 49.70S 155 02.05E	AMX205	26 54.23S 158 01.16E	AM16C	30 04.85S 156 27.85E
AMX106	25 39.53S 155 54.00E	AMX206	27 14.78S 157 36.76E	AM17C	28 16.52S 150 53.44E
AMX107	26 12.25S 154 55.97E	AMX207	26 15.93S 156 35.69E	AM18C	28 24.26S 149 19.68E
AMX108	25 31.45S 154 17.82E	AMX208	29 53.51S 156 40.37E	AM19C	27 22.52S 150 43.33E
AMX109	27 13.20S 154 44.48E	AMX209	31 01.50S 156 04.02E		
AMX110	26 33.38S 155 46.92E	AMX210	30 48.67S 155 32.28E	AM91C	26 49.56S 152 58.00E
AMX111	26 15.83S 156 30.38E	AMX211	29 40.48S 156 09.35E	AM92C	26 52.21S 153 25.92E
AMX112	27 16.57S 157 31.05E	AMX212	27 23.99S 149 38.93E	AM93C	24 59.65S 155 59.38E
AMX113	28 50.17S 156 37.88E	AMX213	28 43.90S 149 47.09E	AM94C	28 51.83S 157 27.60E
AMX114	27 46.47S 154 44.48E	AMX214	28 46.83S 149 13.23E	AM95C	28 54.49S 149 16.68E
AMX115	27 23.00S 154 28.87E	AMX215	27 26.62S 149 05.40E	AM96C	26 56.17S 149 01.35E
AMX116	28 29.22S 153 57.65E	AMX900	26 33.85S 152 54.17E		
AMX117	28 33.78S 154 09.33E	AMX901	26 48.78S 152 25.17E		
AMX118	29 13.35S 155 07.17E	AMX902	28 15.68S 153 21.23E		
AMX119	29 48.27S 155 59.37E	AMX903	28 00.60S 153 50.53E		
AMX120	30 38.42S 155 31.42E	AMX904	28 10.18S 152 40.64E		
AMX121	30 28.17S 154 25.88E	AMX905	28 15.44S 153 14.12E		
AMX122	30 18.88S 153 29.53E	AMX906	26 36.50S 153 33.50E		
AMX123	29 41.65S 153 19.12E	AMX907	26 31.28S 153 00.43E		
AMX124	29 41.02S 153 39.40E	AMX908	26 18.29S 156 44.84E		
AMX125	29 22.27S 153 58.83E	AMX909	25 57.33S 157 08.58E		
AMX126	29 03.09S 153 59.32E	AMX910	24 45.29S 155 51.85E		
AMX127	28 52.22S 153 49.65E	AMX911	25 05.99S 155 27.94E		
AMX128	29 22.15S 150 09.28E	AMX912	29 54.17S 156 15.67E		
AMX129	28 10.00S 149 48.00E	AMX913	30 08.83S 156 46.00E		
AMX130	26 51.27S 149 43.73E	AMX914	28 41.17S 157 41.00E		
AMX131	27 05.08S 150 55.07E	AMX915	28 26.84S 157 11.00E		
AMX132	27 25.96S 150 52.34E	AMX916	30 18.47S 149 34.98E		
AMX133	27 51.47S 150 57.40E	AMX917	30 11.10S 150 08.78E		
AMX134	28 12.56S 151 02.67E	AMX918	28 33.76S 149 40.63E		
AMX135	28 32.55S 151 18.62E	AMX919	28 40.89S 149 07.56E		
AMX136	28 01.18S 152 01.50E	AMX920	28 21.54S 149 02.39E		
AMX137	27 32.96S 151 52.50E	AMX921	28 19.47S 149 36.39E		
AMX138	27 17.20S 152 00.63E	AMX922	26 39.36S 149 28.35E		
AMX139	27 46.30S 151 53.80E	AMX923	26 41.53S 148 54.81E		

## DARWIN

Waypoint	Latitude/Longitude
DNX900	09 26.80S 132 10.40E
DNX901	09 50.70S 131 52.90E
DNX902	10 49.10S 133 14.20E
DNX903	10 25.60S 133 32.10E
DNX904	13 59.80S 128 13.69E
DNX905	14 21.00S 127 51.80E
DNX906	15 32.23S 129 04.80E
DNX907	15 10.82S 129 26.75E

Waypoint	Latitude/Longitude
DNX908	11 52.67S 127 50.67E
DNX909	11 55.16S 127 20.17E
DNX910	13 35.45S 127 29.06E
DNX911	13 32.87S 127 59.87E

Waypoint	Latitude/Longitude
DN91C	09 39.40S 132 20.00E
DN92C	14 28.22S 128 06.31E
DN93C	12 09.74S 127 26.58E

## EAXA

Waypoint	Latitude/Longitude
NWX900	35 45.20S 153 13.20E
NWX901	36 56.00S 151 45.30E
NWX902	37 17.50S 152 11.80E
NWX903	36 06.40S 153 39.50E

Waypoint	Latitude/Longitude
NWX904	35 18.40S 150 26.90E
NWX905	35 21.10S 149 50.40E
NWX906	37 00.70S 150 00.90E
NWX907	36 58.20S 150 37.70E

Waypoint	Latitude/Longitude
NW91C	36 10.90S 153 18.92E
NW92C	37 04.00S 152 22.50E

## TINDAL

Waypoint	Latitude/Longitude
TNX101	14 00.00S 130 22.43E
TNX102	13 25.42S 130 35.65E
TNX103	13 21.60S 131 22.87E
TNX104	14 00 00S 131 49.70E

Waypoint	Latitude/Longitude
TNX900	14 44.90S 135 41.90E
TNX901	14 33.90S 135 13.10E
TNX902	16 09.30S 134 37.70E
TNX903	16 19.80S 135 06.50E
TNX904	16 05.20S 130 03.70E
TNX905	16 29.00S 129 44.00E
TNX906	17 31.10S 131 06.30E
TNX907	17 07.10S 131 25.80E
TNX908	13 11.80S 130 02.55E
TNX909	13 22.50S 130 31.18E
TNX910	14 56.30S 129 54.46E
TNX911	14 45.40S 129 25.61E

Waypoint	Latitude/Longitude
TN11C	14 15.50S 132 19.00E
TN12C	13 35.69S 130 45.44E
TN91C	14 57.10S 135 31.90E
TN92C	16 34.70S 130 00.00E
TN93C	13 27.67S 130 01.60E

## TOWNSVILLE

Waypoint	Latitude/Longitude
TLX100	19 52.00S 146 37.00E
TLX101	20 01.20S 145 50.00E
TLX102	20 11.90S 144 53.70E
TLX103	19 26.70S 144 39.30E
TLX104	19 21.90S 145 31.90E
TLX105	19 19.00S 146 01.70E
TLX106	19 35.00S 146 04.50E
TLX107	19 45.10S 146 12.60E
TLX108	18 14.50S 144 56.20E
TLX109	18 18.17S 145 12.43E
TLX110	18 38.60S 145 42.10E
TLX111	19 06.00S 146 10.00E

Waypoint	Latitude/Longitude
TLX900	18 19.80S 144 27.17E
TLX901	18 22.00S 143 55.66E
TLX902	20 02.40S 144 02.87E
TLX903	20 00.33S 144 34.56E

Waypoint	Latitude/Longitude
TL11C	19 36.16S 145 05.38E
TL12C	18 34.06S 145 12.10E
TL91C	19 46.87S 144 06.96E

(WMX916) to (WMX917) (WMX918) to (WMX919) to 30 54.90S 150 18.40E(WMX916)

## WILLIAMTOWN

Waypoint	Latitude/Longitude
WMX101	32 28.75S 152 09.18E
WMX102	32 34.55S 152 15.12E
WMX103	32 40.25S 152 18.25E
WMX104	32 48.87S 152 19.63E
WMX105	32 57.37S 152 17.43E
WMX106	33 03.05S 152 13.58E
WMX107	33 07.68S 152 08.10E
WMX108	33 11.72S 151 58.95E
WMX109	33 32.20S 152 01.80E
WMX110	33 49.00S 152 09.97E
WMX111	33 49.00S 152 40.25E
WMX112	33 21.22S 152 42.07E
WMX113	32 49.98S 152 55.20E
WMX114	32 15.92S 152 49.88E
WMX115	32 02.50S 152 47.80E
WMX116	30 46.40S 153 26.20E
WMX117	31 03.72S 155 14.58E
WMX118	31 34.87S 155 04.40E
WMX119	32 32.72S 154 45.18E
WMX120	33 13.97S 154 20.98E
WMX121	33 49.00S 154 00.08E
WMX122	33 49.00S 153 18.67E
WMX123	33 17.70S 153 32.32E
WMX124	32 41.95S 153 47.72E
WMX125	31 54.15S 154 02.43E
WMX126	30 55.23S 154 20.20E
WMX127	31 02.87S 153 17.98E
WMX128	31 02.73S 152 47.13E

Waypoint	Latitude/Longitude
WMX129	31 35.67S 152 25.77E
WMX130	32 05.55S 152 16.47E
WMX131	32 02.50S 152 22.85E
WMX132	32 11.35S 152 04.35E
WMX133	32 24.67S 152 01.27E
WMX134	32 28.00S 152 27.75E
WMX200	33 16.22S 150 32.89E
WMX201	32 33.11S 149 43.40E
WMX202	31 38.27S 150 29.09E
WMX203	32 04.01S 150 43.97E
WMX204	33 07.43S 150 51.30E
WMX205	31 51.00S 149 30.37E
WMX206	31 24.84S 150 21.26E
WMX900	31 04.20S 152 47.10E
WMX901	31 11.20S 153 06.40E
WMX902	32 11.10S 152 36.50E
WMX903	32 04.00S 152 17.00E
WMX904	30 40.88S 153 25.03E
WMX905	30 59.18S 155 18.77E
WMX906	30 29.40S 155 25.03E
WMX907	30 11.28S 153 31.68E
WMX908	32 39.50S 154 49.07E
WMX909	32 47.78S 155 23.20E
WMX910	31 11.30S 155 55.30E
WMX911	31 02.91S 155 21.81E

Waypoint	Latitude/Longitude
WMX912	33 52.85S 154 04.18E
WMX913	34 05.88S 154 36.65E
WMX914	32 35.62S 155 28.90E
WMX915	32 22.43S 154 56.78E
WMX916	30 54.90S 150 18.40E
WMX917	30 27.40S 150 03.90E
WMX918	31 07.80S 148 17.30E
WMX919	31 35.60S 148 31.40E
WMX920	31 43.90S 155 54.50E
WMX921	31 34.30S 155 17.30E
WMX922	33 26.70S 154 36.30E
WMX923	33 36.40S 155 14.30E
WM11C	30 55.73S 153 51.38E
WM12C	31 46.49S 153 01.49E
WM13C	32 26.10S 152 51.39E
WM14C	32 55.52S 152 42.41E
WM15C	33 27.64S 153 01.63E
WM16C	32 09.78S 150 36.07E
WM17C	31 54.36S 150 05.13E
WM91C	31 05.09S 152 40.06E
WM92C	30 50.33S 155 07.96E
WM93C	31 24.34S 155 44.99E
WM94C	32 47.14S 155 15.82E
WM95C	31 06.60S 148 36.60E
WM96C	31 55.50S 155 41.90E

## REFUELLING TRACKS

NUMBER	RVIP	RVCP	NAVIGATION CHECK POINTS	EXIT	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE
<b>W946</b> (North)	WLG 30 01.7S 148 07.7E	CARBN 29 06.8S 146 58.7E	CMU 28 02.3S 145 37.4E EXXON 25 46.6S 143 39.1E VALDZ 23 27.0S 141 41.8E MA 20 39.9S 139 29.1E TEXAN 19 00.7S 137 29.4E PETRL 17 11.7S 135 22.1E	BARON 16 14.9S 134 15.6E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)

**REMARKS:** Simultaneous Opposite Direction Refuelling operations are authorised on W946.

<b>W946</b> (South)	BARON 16 14.9S 134 15.6E	PETRL 17 11.7S 135 22.1E	TEXAN 19 00.7S 137 29.4E MA 20 39.9S 139 29.1E VALDZ 23 27.0S 141 41.8E EXXON 25 46.6S 143 39.1E CMU 28 02.3S 145 37.4E CARBN 29 06.8S 146 58.7E	WLG 30 01.7S 148 07.7E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
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**REMARKS:** Simultaneous Opposite Direction Refuelling operations are authorised on W946.

## SECTION 24

## AIP AUSTRALIA

## MAAA TRACK - 2

NUMBER	RVIP	RVCP	NAVIGATION CHECK POINTS	EXIT	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE
<b>W951</b> (West)	ROM 26 32.6S 148 46.9E	DINOS 25 59.0S 147 23.2E	ETHER 24 44.3S 144 33.6E	VALDZ 23 27.0S 141 41.8E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Simultaneous Opposite Direction Refuelling operations are authorised on W951. Track refuelling may continue on W946 if required								
<b>W951</b> (East)	VALDZ 23 27.0S 141 41.8E	ETHER 24 44.3S 144 33.6E	DINOS 23 27.0S 141 41.8E	ROM 26 32.6S 148 46.9E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Simultaneous Opposite Direction Refuelling operations are authorised on W951.								
<b>W952</b> (North)	AMOCO 24 00.0S 152 12.5E	KELPI 22 34.2S 151 35.2E	BOOMA 20 00.0S 150 41.2E LAMEK 18 09.3S 150 02.6E	CALTX 17 00.0S 149 39.4E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Track runs parallel to W953.								
<b>W952</b> (South)	CALTX 17 00.0S 149 39.4E	LAMEK 18 09.3S 150 02.6E	BOOMA 20 00.0S 150 41.2E KELPI 22 34.2S 151 35.2E	AMOCO 24 00.0S 152 12.5E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Track runs parallel to W953.								

DAH Effective Date 17 NOVEMBER 2011



NUMBER	RVIP	RVCP	NAVIGATION CHECK POINTS	EXIT	CR PLAN	REFUELLING ALTITUDES	SCHEDULING UNIT	ASSIGNED CENTRE
<b>W953</b> (South)	MOBIL 17 00.0S 150 17.9E	OILER 18 09.3S 150 42.1E	GASSO 20 00.0S 151 20.4E LITER 22 34.2S 152 14.8E	HALON 24 00.0S 152 52.3E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Track runs parallel to W952.								
<b>W953</b> (North)	HALON 24 00.0S 152 52.3E	LITER 22 34.2S 152 14.8E	GASSO 20 00.0S 151 20.4E OILER 18 09.3S 150 42.1E	MOBIL 17 00.0S 150 17.9E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Track runs parallel to W952.								
<b>W954</b> (East)	CFS 30 19.2S 153 07.0E	GALON 30 38.1S 154 32.0E	POSUM 31 05.9S 156 47.0E LHI 31 31.3S 159 03.9E	PINTO 31 44.0S 160 14.5E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Simultaneous Opposite Direction Refuelling operations are authorised on W954.								
<b>W954</b> (West)	PINTO 31 44.0S 160 14.5E	LHI 31 31.3S 159 03.9E	POSUM 31 05.9S 156 47.0E GALON 30 38.1S 154 32.0E	CFS 30 19.2S 153 07.0E	a. 301.500 b. TBA c. reserved d. reserved e. 33/96	FL250/FL300	33SQN OPS 07 5361 0033	Brisbane (Freq as assigned)
<b>REMARKS:</b> Simultaneous Opposite Direction Refuelling operations are authorised on W954.								

## MILITARY AAR TRACK WAYPOINTS

W946			
WAYPOINT	LAT / LONG	TR OUT (°M)	DIST (nm)
WLG	30 01.7S 148 07.7E	302	
CARBN	29 06.8S 146 58.7E	302	81
CMU	28 02.3S 145 37.4E	312	96
EXXON	25 46.6S 143 39.1E	314	172
VALDZ	23 27.0S 141 41.8E	316	175
MA	20 39.9S 139 29.1E	305	207
TEXAN	19 00.7S 137 29.4E	306	150
PETRL	17 11.7S 135 22.1E	306	163
BARON	16 14.9S 134 15.6E	309	85
TN	14 31.2S 132 22.3E		151

W951			
WAYPOINT	LAT / LONG	TR OUT (°M)	DIST (nm)
ROM	26 32.6S 148 46.9E	284	
DINOS	25 59.0S 147 23.2E	286	82
ETHER	24 44.3S 144 33.6E	287	171
VALDZ	23 27.0S 141 41.8E		175

W952			
WAYPOINT	LAT / LONG	TR OUT (°M)	DIST (nm)
AMOCO	24 00.0S 152 12.5E	328	
KELPI	22 34.2S 151 35.2E	332	92
BOOMA	20 00.0S 150 41.2E	333	162
LAMEK	18 09.3S 150 02.6E	334	116
CALTX	17 00.0S 149 39.4E		72

W953			
WAYPOINT	LAT / LONG	TR OUT (°M)	DIST (nm)
MOBIL	17 00.0S 150 17.9E	153	
OILER	18 09.3S 150 42.1E	153	72
GASSO	20 00.0S 151 20.4E	153	116
LITER	22 34.2S 152 14.8E	148	162
HALON	24 00.0S 152 52.3E		92

W954			
WAYPOINT	LAT / LONG	TR OUT (°M)	DIST (nm)
CFS	30 19.2S 153 07.0E	093	
GALON	30 38.1S 154 32.0E	091	76
POSUM	31 05.9S 156 47.0E	090	119
LHI	31 31.3S 159 03.9E	088	120
PINTO	31 44.0S 160 14.5E		61

### MILITARY AAR and AEW&C PATTERNS

