

**WBGG AD 2.1 AERODROME LOCATION INDICATOR AND NAME****WBGG - KUCHING INTERNATIONAL****WBGG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	LAT 012905N LONG 1102016E Northern edge of RWY, about 1450 FT due South of Tower.
2	Direction and distance from city	Dist 11 KM (6 NM) South of Kuching.
3	Elevation / Reference temperature	88.5 FT (27 M) / 31.6° C
4	Geoid Undulation (ARP)	+33.711 M
5	MAG VAR / Annual change	39 min 00 sec East (2012)
6	AD Administration, address, telephone, telefax, telex, AFS	Operator: <b>Malaysia Airports Berhad</b> Kuching International Airport P.O. Box 1070 93728 Kuching Sarawak. Tel : 082 - 454242 Fax : 082 - 458587  ATC Services: <b>Department of Civil Aviation Malaysia</b> Kuching International Airport P.O. Box 1359 93728 Kuching Sarawak. Tel : 082 - 455572 / 616532 / 457979 616535 / 616536 / 616537 Fax : 082 - 453199 / 571524 / 454523 Email : <a href="mailto:atcwbgg@tm.net.my">atcwbgg@tm.net.my</a>
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	Nil

**WBGG AD 2.3 OPERATIONAL HOURS**

1	AD Administration	H24
2	Customs and immigration	Customs : 2300 to 1700 UTC daily Immigration :H24
3	Health and sanitation	On request.
4	AIS Briefing Office	Btn 2300 to 1100 UTC daily.
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	Shell : 2045 - 1600 UTC daily Petronas : 2100 - 1300 UTC
9	Handling	By prior arrangement with handling agents.
10	Security	H24
11	De-icing	Nil
12	Remarks	Nil

**WBGG AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo handling facilities	By arrangement with Malaysia Airline System.
2	Fuel / Oil types	Fuel : Jet A1
3	Fuelling facilities / capacity	Refuelling by PETRONAS and SHELL through hydrant pit and bowsers. Capacity 1200 litres per minute. PETRONAS : 1,424,000 litres per month. SHELL : 1,600,000 litres per month.
4	De-icing facilities	Nil
5	Hanger space available for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	By prior arrangement through agents.
7	Remarks	Nil

**WBGG AD 2.5 PASSENGER FACILITIES**

1	Hotels	Hotels in city.
2	Restaurants	24 hours airport restaurant / cafeteria.
3	Transportation	Taxi and public bus services.
4	Medical facilities	General Hospital - 7.4 KM fm airport.
5	Bank and Post Offices	Bank / Post Office in city.
6	Tourist Office	In city by Sarawak Tourist Board and at Terminal Building. Tel : 082 - 410944 / 410942
7	Remarks	Nil

**WBGG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	Required : CAT 9 Available: CAT 9 Trained personnel: Min 11 per shift
2	Rescue equipment	Types of vehicles: a) 1 Rapid Intervention Vehicle. b) 3 Ultra Large Foam Tender. c) Break-in and force entry equipment.
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

**WBGG AD 2.7 SEASONAL AVAILABILITY - CLEARING**

**NOT APPLICABLE**

## WBGG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	<p>Main apron:  Surface : Concrete  Strength : PCN 77/R/C/W/T  Cargo apron:  Surface: Concrete  Strength: PCN 77/R/C/W/T  Gen Aviation apron:  Surface: Asphalt.  Strength: PCN 13/F/C/X/T</p>
2	Taxiway width, surface and strength	<p>Width : 23 M with 10.5 M shoulder on either side  Surface : Asphalt  Strength : PCN 82/F/C/X/T</p>
3	ACL location and elevation	<p>Location : Main apron  Elevation : 67 FT / 20.5 M</p>
4	VOR / INS checkpoint	<p>VOR :  TWY A Holding Point : 114.5 MHZ 250° 3.6 NM  TWY A1 Holding point : 114.5 MHZ 250° 3.0 NM  TWY A2 Holding Point : 114.5 MHZ 249° 2.7 NM  TWY B Holding point : 114.5 MHZ 251° 1.9 NM  TWY C Holding point : 114.5 MHZ 251° 1.7 NM</p> <p>INS :  At aircraft parking stand  Bay 1 - 01 29 14.35N 110 20 37.67E  Bay 2 - 01 29 13.87N 110 20 36.46E  Bay 3 - 01 29 13.39N 110 20 35.26E  Bay 4 - 01 29 12.81N 110 20 33.79E  Bay 4A - 01 29 12.28N 110 20 34.34E  Bay 5A - 01 29 12.17N 110 20 32.07E  Bay 5 - 01 29 12.27N 110 20 32.09E  Bay 5B - 01 29 11.27N 110 20 31.57E  Bay 6 - 01 29 11.02N 110 20 30.28E  Bay 7A - 01 29 10.83N 110 20 27.82E  Bay 7 - 01 29 10.68N 110 20 27.97E  Bay 7B - 01 29 09.83N 110 20 27.59E  Bay 8A - 01 29 09.96N 110 20 25.39E  Bay 8 - 01 29 09.83N 110 20 25.50E  Bay 8B - 01 29 09.01N 110 20 25.12E  Bay 9 - 01 29 08.93N 110 20 22.93E  Bay 10A - 01 29 21.05N 110 20 54.02E  Bay 10 - 01 29 21.36N 110 20 54.58E  Bay 10B - 01 29 21.52N 110 20 55.23E  Bay 11A - 01 29 22.00N 110 20 56.43E  Bay 11 - 01 29 22.32N 110 20 57.01E  Bay 11B- 01 29 22.48N 110 20 57.63E  Bay R1 - 01 29 14.64N 110 20 39.96E  Bay R2 - 01 29 15.24N 110 20 42.00E  Bay R3 - 01 29 15.78N 110 20 43.44E  Bay G1 - 01 29 04.37N 110 20 19.01E  Bay G2 - 01 29 04.75N 110 20 19.95E  Bay G3 - 01 29 05.42N 110 20 21.09E</p>
5	Remarks	Nil

**WBGG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Use of aircraft stand ID signs, TWY guide lines and visual docking / parking guidance system of aircraft stands	Taxiing guidance signs at intersection with TWY and RWY and at RWY Holding positions. Yellow taxiing guidelines at aprons. Visual Docking Guidance System (VDGS) and nose-in guidance for Bays 1, 2, 3, 4, 5, 6, 7, 8 and 9
2	RWY and TWY markings and LGT	RWY : Designation, THR, TDZ, Centerline, Aiming Point, Side Stripe and Turn Pad markings. RWY LGT : High Intensity edge lights, green threshold lights and red end lights. TWY : Centerline, edge and holding position markings. TWY LGT : Centerline, rapid exit and edge lightings.
3	Stop bars	At runway holding positions - Red.
4	Remarks	Nil

**WBGG AD 2.10 AERODROME OBSTACLES**

IN APCH / TKOF AREAS			IN CIRCLING AREA AND AT AD		
1			2		3
RWY / AREA Affected	TYPE ELEV Markings / LGT	Coordinates	TYPE ELEV Markings / LGT	Coordinates	
a	b	c	a	b	C
07 APCH 25 TKOF	LLZ antenna 29.1 M/95.4 FT	012848.08 N 1102003.90 E	WDI - lighted 33.27 M/109.15 FT  Glide path aerial 28.75 M / 94.32 FT.  WDI - lighted 22.34 M/73.29 FT	01 28 54.65 N 110 20 29.87 E 468 M from threshold 07 83 M from runway centerline right side.  01 29 30.41 N 110 21 59.18 E  01 29 29.39 N 110 21 55.32 E 406 M from threshold 25 and 83 M from runway centerline left side.	

RWY /Area effected	Obstacles within 10 NM of ARP - Type Elevation Markings / LGT	Coordinates
a	b	c
	Telecom Twr at Unimas Kpg. Melaban Muara, hgt 200 FT AMSL. Marked and lgted.	012730.0N 1102701.9E
	Telecom Twr at AD. Petronas depot, hgt 182 FT (55.50 M) AMSL. Marked and lgted.	012910.9N 1102020.0E
	Telecom Twr at Pending Industrial Estate, hgt 320 FT (97.40 M) AMSL. Marked and lgted.	013347.9N 1102309.9E
	Telecom Twr at Siburan, Kuching, hgt 299 FT (91.20 M) AMSL. Marked and lgted.	012116.0N 1102458.9E
	Telecom Twr at Lot 1220, Bintawa Industrial Estate, hgt 280 FT (85.34 M) AMSL. Marked and lgted.	013351.9N 1102311.9E
	Telecom Twr at Jln. Datuk Bandar Mustaffa, Kuching, hgt 174 FT (53 M) AMSL. Marked and lgted.	012957.9N 1102018.0E

RWY /Area effected	Obstacles within 10 NM of ARP - Type Elevation Markings / LGT	Coordinates
a	b	c
	Telecom Twr at Samarahan, hgt 236 FT (72 M) AMSL. Marked and lgted.	012722.0N 1102734.9E
	Telecom Twr at Taman Malihah, hgt 174 FT (53 M) AMSL. Marked and lgted.	013319.0N 1101530.0E
	Telecom Twr at Kpg. Siburan, hgt 181 FT (55 M) AMSL. Marked and lgted.	012123.0N 1102445.9E
	Telecom Twr at Semongok, hgt 174 FT (53 M) AMSL. Marked and lgted.	012353.0N 1102020.0E
	Telecom Twr at Serian Road, Kuching, hgt 181 FT (55 M) AMSL. Marked and lgted.	012301.0N 1102245.9E
	Telecom Twr at Matang Road, Kuching, hgt 89 FT (27 M) AMSL. Marked and lgted.	013416.9N 1101833.0E
	Telecom Twr at Bintawa, hgt 210 FT (63.58 M) AMSL. Marked and lgted.	013405.9N 1102311.9E
	Telecom Twr at Kenyalang Park, hgt 209 FT (63.70 M) AMSL. Marked and lgted.	013205.9N 1102127.0E
	Telecom Twr at Tan Villa Matang, hgt 175 FT (53.44 M ) AMSL. Marked and lgted.	013436.9N 1101527.0E
	Telecom Twr at Kg. Muara Tuang, hgt 157 FT (47.76 M) AMSL. Marked and lgted.	012730.0N 1102940.9E
	Telecom Twr at Kung Phin Road, hgt 190 FT (58 M) AMSL. Marked and lgted.	013002.9N 1101939.0E
	Telecom Twr at Sentah-Segu Land District, hgt 206 FT (62.72 M) AMSL. Marked and lgted.	012354.0N 1102017.0E
	Telecom Twr at Petra Jaya, hgt 120 FT (36.48 M) AMSL. Marked and lgted.	013434.9N 1101940.0E
	Telecom Twr at Siburan, hgt 184 FT (56.22 M) AMSL. Marked and lgted.	012116.0N 1102458.9E
	Telecom Twr at Batu Kawa, hgt 298 FT (90.7 M) AMSL. Marked and lgted.	012943.9N 1101727.0E
	Telecom Twr at Mile 10, Kuching, hgt 517 FT ( 157.48 M) AMSL. Marked and lgted.	012509.0N 1101955.0E
	Telecom Twr at Petra Jaya, hgt 248 FT (48.72 M) AMSL. Marked and lgted.	013640.9N 1102048.0E
	Telecom Twr at Kuching, hgt 521 FT (158.92 M) AMSL. Marked and lgted.	013223.9N 1102105.0E
	Telecom Twr at Muara Tabuan, hgt 213 FT (64.96 M) AMSL. Marked and lgted.	013134.9N 1102350.9E
	Telecom Twr at Sejingkat, hgt 160 FT (48.72 M) AMSL.	013512.5N 1102423.9E
	Telecom Twr at Kuching - Serian Road, hgt 166 FT (50.72 M) AMSL.	012352.9N 1102009.2E
	Telecom Twr at Petra Jaya, hgt 163 FT (49.72 M) AMSL.	013418.0N 1101901.7E
	Telecom Twr at Petra Jaya, hgt 166 FT (50.72 M) AMSL.	013714.9N 1102017.6E
	Telecom Twr at Samarahan, hgt 176 FT (53.72 M) AMSL.	012730.8N 1102658.8E
	Telecom Twr, hgt 36.5 M (40.5 M) AMSL. Marked and lgted.	012958.5N 1102305.4E

### WBGG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	KUCHING
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Kuching Meteorological Office 24
4	Type of landing forecast Interval of issuance	TREND Half hourly
5	Briefing / consultation provided	Provided
6	Flight documentation Language(s) used	Charts, Tabular Form and Abbreviated Plain Language Text English
7	Charts and other information available for briefing or consultation	Flight Level Wind/Temp FL50, FL100, FL140, FL180, FL250, FL320, and FL360, SIGWX, Volcanic Ash/Tropical Cyclone Advisory, SIGMET, AIRMET, Aerodrome Warning, METAR Bulletin, TAFOR Bulletin, WBGG Take-Off Data, Radar and Satellite Pictures.
8	Supplementary equipment available for providing information	Self-Briefing Terminals (Internet)
9	ATS units provided with information	Kuching ACC and Control Tower
10	Additional information	Tel : 6082 - 617730 / 617736 Fax : 6082 - 617730 / 617703

**WBGG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designation RWY NR	TRUE and MAG BRG	Dimensions of RWY (M)	Strength (PCN) Surface of RWY and SWY	THR Coordinates	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
07	068.46° T 067.73° M	3780 x 46	PCN 82/F/C/X/T Asphalt	012851.59N 1102012.86E	THR elevation 27.33 M 89.66 FT
25	248.46° T 247.73° M	3780 x 46	PCN 82/F/C/X/T Asphalt	012936.79N 1102206.61E	THR elevation 13.11 M 43.01 FT TDZ elevation 15.09 M 49.50 FT

Slope of RWY - SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strips Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.004%	Nil	60 x 180	3900 x 300	Provided	-
0.004%	Nil	60 x 180	3900 x 300	Provided	-

**WBGG AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	RESA (M)
1	2	3	4	5	6
07	3780	3840	3780	3780	90 X 90
25	3780	3840	3780	3780	90 X 90

RWY TORA FROM TAXIWAY INTERSECTION		
RWY DESIGNATION	TORA	
1	2	
07	FROM	TORA (M)
	C	3610
	B	3031
	A3	2367
	A2	1854
25	A1	2740
	A2	1925
	A3	1394

**WBGG AD 2.14 APPROACH AND RUNWAY LIGHTING**

RWY Designator	APCH Lgt	THR Lgt	VASIS (MEHT) PAPI	TDZ Lgt	RWY Centre Line Lgt	RWY Edge Lgt	RWY End Lgt WBAR	SWY Lgt	Remarks
1	2	3	4	5	6	7	8	9	10
07	Nil	Green	PAPI Slope 3°	Nil	Nil	White / Yellow	Red	Nil	Nil
25	CAT 1 High Intensity Approach Lights	Green	PAPI Slope 3°	Nil	Nil	White / Yellow	Red	Nil	Nil

**WBGG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

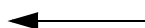
1	ABN / IBN location, characteristics and hours of operation	Flashing Green and White AD beacon.
2	LDI location and LGT Anemometer location and LGT	WDI RWY 07 : Right side, lighted. WDI RWY 25 : Left side, lighted.
3	TWY edge and centre line lighting	TWY Edge Lights - Blue. TWY Centreline Lights - Green.
4	Secondary power supply / switch-over time	Automatic standby generator avbl for ACC, Control Tower and equipments. Max switch over time 10 sec. Automatic standby generator avbl for airfield lightings and terminal building. Max switch over time 15 sec.
5	Remarks	Apron Edge Light - Blue Apron Lead-In Light - Green

**WBGG AD 2.16 HELICOPTER LANDING AREA**

NIL

**WBGG AD 2.17 ATS AIRSPACE**

1	Designation and lateral limits	Kuching CTR A major arc of a circle radius 25 NM centred on VKG commencing at 0125N 10953.6E clockwise to 0103.5N 10115.3E thence along Malaysia - Indonesia border to 0125N 10953.6E.
2	Vertical limits	Gnd Level/Sea Level to 3000 FT.
3	Airspace classification	C
4	ATS unit call sign Language(s)	Kuching Approach. English.
5	Transition altitude	11000 FT
6	Remarks	Nil



**WBGG AD 2.18 ATS COMMUNICATION FACILITIES**

Service Designation	ID	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	KUCHING GROUND	121.9 MHZ	H24	Acft to contact SMC on 121.9 MHZ for start-up and ATC clearance.
TWR/APP	KUCHING TOWER KUCHING DIRECTOR	118.1 MHZ (P) 121.70 MHZ (S) 120.2 MHZ (P) 123.85 MHZ (S)		All IFR Departure must contact Kuching Director after airborne unless instructed otherwise.
ACC	KUCHING RADAR	134.5 MHZ (P) 125.35 MHZ (S)		Area of responsibility : 108 E to to abeam VBU within WBFC FIR.
ATIS	KUCHING INFORMATION	128.4 MHZ		-

**WBGG AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid	ID	Frequency	Hours of operation	Coordinates	DME Elevation	Remarks
1	2	4	5	6	7	8
ILS/LLZ	IKG	110.3 MHZ	H24	012848.08N 1102003.90E	-	-
GP/DME		335 MHZ CH 40X		012930.41N 1102159.18E	28.75 M	G/P - 3° slope. DME colocated with GP.
NDB	AN	402 KHZ		014303.8N 1101833.8E	-	350° MAG / 14 NM fm airfield 500W.
DVOR/DME	VKG	114.5 MHZ CH 92X		012821.9N 1101842.9E	-	VOR/DME opr 5 consecutive VKG codings. VOR opr 4 consecutive VKG codings flw by short pulse. DME opr 1 VKG coding followed by long pulse.



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## WBGG AD 2.20 LOCAL TRAFFIC REGULATIONS

### 1. Local Flying Restrictions

- 1.1 Not less than 1500 FT over Kuching town, unless using marine alighting area.

### 2. Departing Aircraft / Start Up and Push Back

- 2.1 To regulate the movement of aircraft with respect to other aircraft on the apron, departing aircraft shall contact Kuching Ground on 121.9 MHz for start-up and push back.
- 2.2 The pilot-in-command and aircraft marshalls shall be responsible for the safety of aircraft with respect to all other aircraft, vehicles, persons and other obstructions on the apron during docking, engine start-up, push back, taxiing and also ensuring the appropriate blast zone behind the aircraft is clear during engine start-up.
- 2.3 The pilot-in-command shall contact ATC for taxiing instructions prior to entering the manoeuvring areas. ATC Clearance will be issued on taxiing.
- 2.4 Clearance to enter active runway and departure clearance shall be issued by the TWR on 118.1 MHz.
- 2.5 All IFR departures shall contact KUCHING DIRECTOR on 120.2 MHz immediately on departure unless instructed otherwise.

### 3. Arriving Aircraft Parking Arrangement

- 3.1 Arriving schedule aircraft will be allocated a Stand / Bay number by SMC.
- 3.2 Upon entering the apron the pilot shall look out for the marshaller to guide the aircraft to the assigned parking stand or be guided by the VGDS.
- 3.3 General aviation aircraft will normally be allocated open bay (Bay G1, G2 or G3) at General Aviation apron. Aircraft operator shall make their own arrangement if marshalling service is required.
- 3.4 Arriving foreign state aircraft (including foreign military aircraft) intending to park at the RMAF apron shall make their own arrangement.
- 3.5 Bay number 01 and 02 at Kuching RMAF dispersal is not to be used for C130 aircraft category.

### 4. Power In Power Out Arrangement

- 4.1 Bay 4A is established to accommodate aircraft the size of ATR-72 or smaller for Power In Power Out (PIPO).
- 4.2 Aircraft at PIPO configuration shall start up and taxi at minimum power until clearing the appropriate blast zone.

### 5. Removal of Aircraft

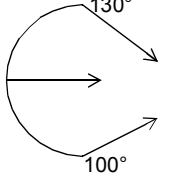
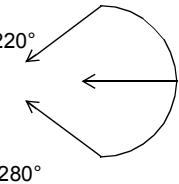
- 5.1 Removal of a crashed / disabled aircraft is the responsibility of the airport operator and the aircraft owner or operator. In the case of a reportable accident, the permission of the DCA Chief Inspector of Accidents is required prior to the removal.

## WBGG AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

**WBGD AD 2.22 FLIGHT PROCEDURES**

**1. VOR / DME Arrival Procedures For Kuching International Airport**

MAGNETIC TRACK OR SECTOR	TO	DME CHECK POINT	MINIMUM IFR ENROUTE LEVEL OR ALTITUDE	DESCEND STEPS AT DME DISTANCE ..... NM DESCEND TO ..... FT ON QNH		REMARKS	
	VKG	Not Required	7000 FT	30 ↓ 4200	5 ↓ 4000	Execute Standard Instrument Approach procedure for duty RWY or as directed by ATC	
089°	VKG	Not Required	7000 FT	17 ↓ 5100	11 ↓ 3000	4 ↓ 2000	If not visual at 4 DME climb on 080° to 4000 FT then track to EGOMO hold for ILS approach RWY 25 or as directed by ATC
	VKG	Not Required	7000 FT	30 ↓ 4000	20 ↓ 1600	Execute ILS approach for RWY 25. Missed approach : similar to EGOMO hold missed approach procedure	

**2 PROCEDURES FOR VFR FLIGHTS WITHIN KUCHING CONTROL ZONE**

All VFR flights shall be conducted in accordance with the visual flight rules and obtain ATC clearance. Departure from airport onto the VFR lane and arrivals from VFR lanes into the airport shall be as instructed by ATC. ATC shall assigned the VFR lane to be followed. Any deviation from the VFR lane must obtain prior clearance from ATC.

Two way radio communication shall be established and maintained on the appropriate Frequency.

## WBGG AD 2.23 ADDITIONAL INFORMATION

### 1 Bird Concentration In The Vicinity Of The Airport

1.1 Flock of birds observed around the airport.

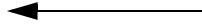
### 2 Release of Radio Sonde

2.1 Release time of Radio Sonde : 2300 UTC, 1100 UTC

### 3. List Of Way-points

3.1 The following list contains the way-points related to SID, RNAV STAR and IAP procedures at Kuching International Airport.

ID	REFERENCE FM VKG VOR/DME	LATITUDE(N)	LONGITUDE (E)	REMARKS
TEMES	RDL 309/41.99D	01 54 55.41	109 46 06.73	
IGEVU	RDL 286/47.17D	01 41 25.35	109 33 25.93	
MOXUN	RDL 269/30.20D	01 27 49.90	109 48 33.61	
OVKES	RDL 289/14.02D	01 32 57.07	110 05 28.63	
DUKIP(IAF)	RDL 045/16.98D	01 40 26.03	110 30 42.59	
ENREX(IF)	RDL 069/15.61D	01 33 59.10	110 33 16.01	
RUNVO	RDL 166/10.69D	01 17 56.48	110 21 17.85	
DULAK(IAF)	RDL 093/17.18D	01 27 27.62	110 35 50.74	
FAF(RWY 25)	RDL 069/10.57D	01 32 10.28	110 28 34.21	
IDSAG	RDL 069/21.00D	01 35 55.60	110 38 17.72	
KIKAK	RDL 052/37.00D	01 51 15.29	110 47 50.28	
LUTMO	RDL 065/37.00D	01 44 04.53	110 52 12.48	
OROMA	RDL 085/37.00D	01 31 36.03	110 55 31.57	
DOTUG	RDL 003/15.00D	01 43 25.15	110 19 29.96	
GUTEK	RDL 160/15.00D	01 14 11.93	110 23 50.29	
EGOMO	RDL 070/21.07D	01 35 36.28	110 38 29.18	
MUPEP	RDL 247/8.77D	01 24 55.27	110 10 39.25	
URKIV	RDL 296/17.06D	01 35 52.69	110 03 24.29	
AGTEB	RDL 030/25.18D	01 50 16.63	110 31 17.35	
OLTOB	RDL 065/50.08D	01 49 35.59	111 03 58.67	
IDUNO	RDL 105/25.01D	01 21 51.45	110 42 50.32	
LEGIL	RDL 199/17.07D	01 12 08.69	110 13 09.96	
IRNIM (IAF)	RDL 283/16.63D	01 32 07.38	110 02 32.07	
GUMIT (IAF)	RDL 258/15.09D	01 25 12.66	110 03 58.50	
NIPOD(IF)	RDL 258/9.66D	01 26 20.70	110 09 16.45	
VAGTI (IAF)	RDL 233/16.64D	01 18 17.92	110 05 26.58	
ENGIX	RDL 352/9.89D	01 38 12.39	110 17 20.44	



ID	REFERENCE FM VKG VOR/DME	LATITUDE(N)	LONGITUDE (E)	REMARKS
VEGMU	RDL 119/8.12D	01 24 24.61	110 25 48.23	
PEGDU	RDL 036/16.75D	01 41 59.24	110 28 33.09	
PAMRA	RDL 069/14.26D	01 33 30.07	110 32 00.82	
UBLIG	RDL 102/17.12D	01 24 47.15	110 35 26.47	
PAPSA	RDL 211/19D	01 11 57	100 08 30	