

## Table CNS 2

### AERONAUTICAL MOBILE SERVICE AND AERONAUTICAL MOBILE SATELLITE SERVICE

#### EXPLANATION OF THE TABLE

*Column*

- 1 The name of the country and the locations within the country where the service is provided.
- 2 The required functions or service

Explanation of the functions or services:

ACC	Area control service
ACC-L	Area control service for flights up to FL 250
ACC-U	Area control service for flights up to FL 450
ACC-SR-I	Surveillance radar area control service up to FL 250
ACC-SR-U	Surveillance radar area control service up to FL 450
ACC-ER	Requirement to utilize extended range technique, RCAG or repeater stations
AD	Aerodrome
APP	Approach control service
DEP	Departure
PAR	Precision approach radar
APP-L	Approach control service for flights below 120
APP-I	Approach control service for flights below 250
APP-U	Approach control service for flights up to FL 450
APP-SR-L	Surveillance radar approach control service up to FL 120
APP-SR-I	Surveillance radar approach control service up to FL 250
APP-SR-U	Surveillance radar approach control service up to FL 450
TWR	Aerodrome control service
SMC/SMR	Surface movement control, Surface movement control radar
ATIS	Automatic terminal information service

---

	ACD	Aerodrome clearance delivery
	AFIS	Aerodrome flight information services
	FIS	Flight information service
	FIS-L	Flight information service for flights up to FL 250
	FIS-U	Flight information service for flights between FL 250 and FL 450
	GP	VHF en-route general purpose system communication
	VOLMET	VOLMET broadcasts
3		Number of voice VHF channels required for the corresponding function indicated in column 2. Number of implemented channels is indicated immediately after a slash. Coverage of the service in nautical miles is indicated within parentheses.
4		Requirements and status of implementation for the functions in column 2 are shown by X with planned implementation date (month/year) in parentheses or I, to indicate that the requirement is implemented, as appropriate.
5		HF network designators for the corresponding services indicated in column 2. The number of implemented frequencies is shown immediately after a slash against the network designators.
6-9		Requirements and status of implementation for satellite voice and data links for the corresponding function listed in column 2 are shown by X with planned implementation date (month/year) in parentheses or by I, to indicate that the requirement is implemented, as appropriate.
10		Remarks

*Note. - The implementation date, where applicable, is indicated by two digits each for both month and year.*

---

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
<b>AMERICAN SAMOA (United States)</b>									
NSTU Pago Pago	TWR/APP-I FIS-U (GP)	1 (150) 1 (150)							
<b>AUSTRALIA</b>									
YPAD Adelaide	ACC APP-SR-U ACC-SR-I TWR SMC ACD ATIS  FIS FIS	3 (75) 7 (100) 1 (25) 1 (AD) 1 (25) 1 (90)  19 (FIR) 1 (FIR)	I					1 X (09)	VHF data SITA, also NDB
YBAS Alice Springs	TWR ATIS	1 (25) 1 (90)							Also NDB 335
YBBN Brisbane	APP-SR-U DEP TWR SMC ACD ATIS  ACC VOLMET	2 (75) 1 (75) 1 (25) 1 (AD) 1 (25) 1 (90)  ACC VOLMET	I						SITA VHF data, also VOR
YBBB Brisbane	ACC ACC-SR-U FIS	44 (FIR) 30 (FIR)		VASIA/4				1 X (09)  1 X (08)	SITA Coverage BN OCA Tasman & Coroal Seas
YBCS Cairns	APP/DEP TWR SMC/ACD ATIS ACC/FIS	2 (75) 1 (25) 1 (AD) 1 (90) 3 (75)							Also VOR
YPDN Darwin	APP/DEP TWR APP-SR-U SMC ACD ATIS ACC-I ACC-U	2 (75) 1 (25) 1 (100) 2 (AD) 1 (25) 1 (90) 1 (150) 1 (150)		SEA-3					
YMHB Hobart	TWR ATIS	1 (25) 2 (90)							
YMML Melbourne	APP-SR-I DEP-SR-I TWR SMC ACD ATIS	1 (75) 2 (75) 1 (25) 1 (AD) 1 (25) 1 (90)	I						SITA VHF data, also VOR
YMMM Melbourne	ACC-SR-U	25 (150)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
YSNF Norfolk Is.	ACC/FIS ACC ACC/FIS FIS FIS	7 (FIR) 4 (FIR) 3 (FIR) 22 (FIR) 1 (30)		SP-6				2 X (09)	
YPPH Perth	ACC/SR-U ACC APP-SR-U DEP TWR SMC ACD ATIS FIS	3 (150) 14 (FIR) 1 (75) 1 (75) 1 (25) 1 (AD) 2 (25) 1 (90) 26 (FIR)	I	INO-1				1 X (08)	SITA VHF data, also NDB
YPPD Port Hedland	TWR ATIS FIS	1 (25) 1 (90) 1 (100)		INO-1					Also NDB Also NDB & VOR
YBRK Rockhampton	TWR/APP FIS ATIS	1 (25) 2 (75) 1 (90)							Also on VOR
YSSY Sydney	APP-E APP-N APP-S APP-W DEP-N DEP-S DEP-W TWR SMC ACD ATIS ACC FIS	1 (50) 1 (50) 1 (50) 1 (50) 1 (50) 1 (50) 1 (50) 2 (25) 2 (AD) 1 (25) 1 (90) 3 (100) 10 (100)						1 X (09)	Also NDB, VOR
YPTN Tindal	APP-SR-I TWR SMC ATIS FIS	1 (75) 1 (25) 1 (AD) 1 (90) 1 (100)							On UHF & VOR
YBTL Townsville	APP-SR-I TWR SMC ACD ATIS FIS	2 (75) 1 (25) 1 (AD) 1 (25) 1 (90) 2 (100)		SEA-3, SP-6					Also NDB & VOR
<b>BANGLADESH</b>									
VGEG Chittagong	APP-I TWR SMC FIS-L	1/X (75) 1/1 (25) 1/1 (AD) 1/X (75)							FIS & Approach service up to F145 is provided by

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
VGZR Dhaka	APP-SR-I TWR SMC ATIS	1/1 (50) 1/1 (25) 1/1 (AD) 1/1 (FIR)							TWR within CTG CTR
	ACC-U FIS ACC-SR-U	2/1 (FIR) 1/X (FIR) 1/X (FIR)		SEA-1A/3					FIS is provided by Dhaka Control within Dhaka FIR
<b>BHUTAN</b>									
VQPR PARO/Paro	APP TWR	1 (75) 1 (25)							
<b>BRUNEI DARUSSALAM</b>									
WBSB Brunei	APP-SR-I TWR SMC ATIS FIS-L	2/2 (75) 1/1 (25) 2/2 (AD) 1/1 (150) 1/1 (50)							
<b>CAMBODIA</b>									
VDPP Phnom-Penh	APP TWR SMC ACC-L	1 (75) 1 (25) 1 (AD) 2 (FIR)							SEA-2/3
VDSR Siem Reap/Angkor	TWR/APP	1 (50)							
<b>CHINA</b>									
ZBPE Beijing	ACC-SR-U FIS-U VOLMET	10 (FIR) 1 (FIR)							NP/4 EA-1/2 VASIA/4
ZBAA Beijing	APP-SR-L TWR SMC ATIS	6 (75) 2 (25) 3 (AD) 1 (150)							
ZYCC Changchun	APP	1 (75)							
ZYCC Chungchun/Longjia	TWR ATIS	1 (25) 1 (150)							
ZGHA Changsha	ACC-SR-U	2 (150)							
ZGHA Changsha/Huanghua	APP-SR-L TWR SMC ATIS	1 (75) 1 (25) 1 (AD) 1 (150)							
ZUUU Chengdu	ACC-SR-U	5 (150)							
ZUUU Chengdu/Shuangliu	APP-SR-L TWR SMC ATIS	2 (75) 1 (25) 1 (AD) 1 (150)							
ZUCK Chongqing	ACC	2 (150)							
ZUCK Chongqing/Jiangbei	APP	1 (75)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZYTL Dailian	ACC-SR-U	2 (150)							
ZYTL Dalian/Zhoushuizi	APP-SR-L	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZSFZ Fuzhou	APP	1 (75)							
ZSFZ Fuzhou/Changle	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
RCKH Gaoxiong	APP-SR-L	2 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
ZGZU Guangzhou	ACC-SR-U	8 (FIR)							
	FIS	1 (FIR)							
	VOLMET								
ZGGG Guangzhou/Baiyun	APP-SR-L	4 (75)							
	TWR	2 (25)							
	SMC	3 (AD)							
	ATIS	1 (150)							
ZGKL Guilin	ACC	2 (150)							
ZGKL Guilin/Liangjiang	APP	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATS	1 (150)							
ZUGY Guiyang	ACC	2 (150)							
ZUGY Guiyang/Longdongbao	APP	1 (75)							
	TWR	1 (25)							
	ATIS	1 (150)							
ZGHK Haikou	ACC	2 (150)							
ZJHK Haikou/Mailan	APP	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZBLA Hailar	ACC	1 (150)							
ZBLA Hailar/Dongshan	TWR	1 (25)							
ZSHC Hangzhou/Xiaoshan	APP-SR-L	2 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZYHB Harbin	ACC	1 (150)							
ZYHB Harbin/Taiping	APP-SR-L	2 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZSOF Hefei	ACC	2 (150)							
ZSOF Hefei/Luogang	APP-L	2 (75)							

EA-1/2  
SEA-1A/2  
VASIA/4

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZBHH Hohhot	ACC	2 (150)							
ZBHH Hohhot/Baita	APP-SR-L	1 (75)							
	TWR	1 (25)							
	ATIS	1 (150)							
	SMC	1 (AD)							
ZSJN Jinan	ACC	2 (150)							
ZSJN Jinan/Yaoqiang	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZWSH Kashi	TWR	1 (25)							
ZPKM Kunming	ACC-SR-U	3 (FIR)		EA-1/2					
	FIS-U	1 (FIR)		SEA-1A/2					
ZPPP Kunming/Wujiaba	APP-SR-L	2 (75)							
	TWR	1 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)							
ZLLL Lanzhou	ACC	2 (FIR)							
	FIS	1 (FIR)							
ZLLL Lanzhou/Zhongchuan	APP-SR-L	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
ZULS Lhasa	ACC	1 (150)		SEA-1A/3					
ZSCN Nanchang	ACC	2 (150)							
ZSNJ Nanjing/Lukou	APP	1 (75)							
	TRW	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZGNN Nanning	ACC-U	1 (150)							
ZGNN Nanning/Wuxu	APP-L	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
ZSQD Qingdao	ACC	2 (150)							
ZSQD Qingdao/Liuting	APP	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZGOW Shantou	APP	1 (75)							
ZGSY Sanya	ACC-SR-U	3 (150)							
	FIS-U	1 (FIR)							
ZGSY Sanya/Fenghuang	TWR	1 (25)							
	SMC	1 (AD)							
ZGSZ Shenzhen/Baoan	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZSHA Shanghai	ACC-SR-U	10 (FIR)		CWP-1/4					
	FIS-U	1 (FIR)		EA-1/2					

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
				NP/2					
ZSSS Shanghai/Hongqiao	APP-SR-L TWR SMC ATIS	4 (75) 2 (25) 2 (AD) 1 (150)							
ZSSS Shanghai/Pudong	TWR SMC ATIS	2 (25) 2 (AD) 1 (150)							
ZYSH Shenyang	ACC-SR-U FIS-U	2 (FIR) 1 (FIR)		EA-1/3					
ZYTX Shenyang/Taoxian	APP-SR-L TWR SMC ATIS	2 (75) 1 (25) 1 (AD) 1 (150)							
RCSS Taipei	ACC-SR-U FIS-U	5 (FIR) 1 (FIR)							
RCSS Taipei/Songshan	TWR SMC	1 (25) 1 (AD)							
RCTP Taipei/Taovuan	APP-SR-L TWR SMC ATIS	2 (75) 1 (25) 1 (AD) 1 (150)							
ZBYN Taiyuan	ACC	2 (150)							
ZBYN Taiyuan/Wusu	APP-L TWR SMC	1 (75) 1 (25) 1 (AD)							
ZBTJ Tianjin/Binhai	APP-SR-L TWR SMC ATIS	1 (75) 1 (25) 1 (AD) 1 (150)							
ZWUQ Urumqi	ACC-SR-U FIS-U	3 (FIR) 1 (FIR)		MID-2/2 EA- 1/2					
ZWWW Urumqi/Diwopu	APP-SR-L TWR SMC ATIS	2 (75) 1 (25) 1 (AD) 1 (150)							
ZHHH Wuhan	ACC-SR-U FIS-U	3 (FIR) 1 (FIR)							
ZHHH Wuhan/Tianhe	APP TWR SMC ATIS	2 (75) 1 (25) 1 (AD) 1 (150)							
ZSAM Xiamen	ACC	2 (150)							
ZSAM Xiamen/Gaoqi	APP-SR-L TWR  SMC ATIS	1 (75) 1 (25)  1 (AD) 1 (150)							
ZLXY Xi'an	ACC	3 (150)							
ZLXY Xi'an/Xianyang	APP-SR-L TWR	1 (75) 1 (25)							



State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
	ATIS	1 (150)							
ZUXC Xichang/Qingshan	TWR	1 (25)							
ZHCC Zhengzhou	ACC	2 (150)							
ZHCC Zhengzhou/Xinzheng	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
ZGJD Zhuhai	APP	1 (75)							
HONG KONG, CHINA									
VHHK Hong Kong	ACC-SR-I	3 (200)							
	ACC-SR-U	16 (200)							
	ACC-SR-U	2 (250)							
	ACC-U	2 (250)							
	FIS	2 (250)							
	ATIS	2 (250)	1						
	VOLMET	1 (250)	1						
	SAR	1 (250)							
VHHH Hong Kong Int'l	SMC	5 (AD)							
	ACD	2 (AD)							
	TWR	5 (50)							
	APP-L	1 (50)							
	APP-SR-I	7 (100)							
MACAU, CHINA									
VMMC Macau Int'	APP-SR-L	3 (60)							
	TWR	1 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)							
COOK ISLANDS									
NCRG Avarua/Rarotonga Int'l	TWR	1 (25)							
	SMC	1 (AD)							
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA									
ZKKK Pyongyang	ACC-SR-U	1 (FIR)							
ZKPY Pyongyang/Sunan	TWR	1 (25)							
	APP-SR-L	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
FIJI									
NFFN Nadi	FIS-U (GP)	1 (ER)							
	ACC-U	1 (ER)							
NFFN Nadi/Int'l	APP-U	1 (100)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
NFSU Suva/Nausori	APP/TWR	1 (25)							

HF back up  
for VHF, not  
for operational  
use

SEA-2/3

VPAC/3

RDARA 9/2

CWP-1/1  
EA- 1/1  
EA-2/X  
NCA-3/2

SP  
RDARA 9/2

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
	ATIS	1 (150)							
<b>FRENCH POLYNESIA (France)</b>									
NTTG Rangiroa/Int'l	TWR	1 (25)							
	APP-U	1 (150)							
NTTT Tahiti	ACC-U	1 (FIR)		SP/4					
NTTT Tahiti/Faaa	APP	1 (150)							
	TWR	1 (25)							
	ATIS	1 (150)							
<b>GUAM (United States)</b>									
PGUM Guam/Agana NAS	APP-I	3 (75)							
	TWR	2 (25)							
	SMC	1 (AD)							
	FIS-L	1 (150)							
<b>INDIA</b>									
VAHH Ahmedabad	ACC-U	2 (225)							
	APP-I	1 (100)							
	TWR	1 (50)							
	ATIS	1 (150)							
	TWR	1 (50)							
VOBG Bangalore	TWR	1 (50)							
	APP-I	1 (75)							
VOCL Calicut	TWR	1 (50)							
	ATIS	1 (150)							
VOMF Chennai	ACC-U	2 (250)		SEA-1B/4					
	APP-I	1 (75)							
	APP-SR-L	2 (50)							
	TWR	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
VOMM Chennai/Bangalore	ACC-U	1 (300)							
VOMM Chennai/Vishakha Patnam - Portblair	ACC-ER	1 (300)							
VOCB Coimbatore	APP	1 (100)							
	TWR	1 (50)							
VOCI Cochin Int'l	TWR/APP	1 (50)							
	SMC	1 (AD)							
VIDF Delhi	FIS-U (GP)	1 (FIR)		MID-2/4					
	ACC-U	4 (230)							
VIDF Delhi/Indir Gandhi Int'l	APP-I	1 (75)							
	APP-SR-L	2 (50)							
	TWR	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
VIDP Delhi/Khajuraho	ACC-ER	1 (300)							
VEGY Gaya	TWR/APP	1 (150)							
VEGT Guwahati	ACC-U	2 (225)							
	APP-I	1 (75)							
	TWR	1 (50)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
	ATIS	1 (150)							
VOHY Hyderabad	ACC-U	2 (225)							
	APP-I	1 (75)							
	TWR	1 (50)							
	ATIS	1 (150)							
VECF Kolkata	ACC-U	4 (200)		SEA-1A/5					
	FIS-U (GP)	1 (FIR)		VASIA/3					
	VOLMET								
VECC Kolkata/Kolkata	APP	1 (75)							
	TWR	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
VECC Kolkata/Guwahati	ACC	2 (200)							
VECC Kolkata/Vishakha Patnam-Portblair	ACC-ER	1 (300)							
VILK Lucknow	TWR	1 (50)							
	APP-L	1 (50)							
	ATIS	1 (150)							
VOML Mangalore	TWR	1 (50)							
	ACC	2 (250)							
VABF Mumbai (FIC)	ACC-U	4 (250)		MID-1/5					
	FIS-U (GP)	1 (FIR)		INO-4					
	VOLMET			VASIA 3					
VABB Mumbai/Mumbai	APP-SR-L	4 (50)							
	TWR	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
VABB Mumbai/Pratapgarh	ACC-U	2 (150)							
VABB Mumbai/Goa	ACC-ER	1 (300)							
VABB Mumbai/Porbandar	ACC-ER	1 (300)							
VANP Nagpur	ACC-SR-U	2 (200)							
	APP-L	1 (50)							
	TWR	1 (25)							
VEPT Patna	APP	1 (75)							
	TWR	1 (50)							
VOTR Tiruchchirappalli	APP	1 (75)							
	TWR	1 (50)							
VOTV Trivandrum	ACC-U	1 (200)							
	APP-I	1 (75)							
	TWR	1 (50)							
	SMC	1 (AD)							
	ATIS	1 (150)							
VOTV Trivandrum/Agatti	ACC-ER	1 (300)							
VIBN Varanasi	ACC-U	3 (250)							
	APP-L	1 (75)							
	TWR	1 (50)							
<b>INDONESIA</b>									
WAPP Ambon/Patimura	TWR	1 (25)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
	ATIS	1 (150)							
	FIS	1 (100)							
WRRZ Bali	ACC-SR-U	2 (200)		SEA-3/4					
	ACC-ER	1 (300)							
WRRR Bali/Ngurah Rai	APP-SR-I	2 (100)							
	TWR	1 (25)							
	ATIS	1 (150)							
WRLL Balikpapan/Sepinggan	APP	1 (100)							
	TWR	1 (25)							
	ATIS	1 (150)							
	FIS	1 (100)							
WRBB Banjarmasin/ Sjamsuddin Noor	TWR	1 (25)							
	APP	1 (75)							
WIKB Batam/Hang Nadim	TWR	2 (25)							
	ATIS	1 (150)							
WABB Biak/Frans Kaisieppo	APP-SR-U	2 (100)							
	TWR	1 (25)							
	ATIS	1 (150)							
WIZZ Jakarta	ACC-SR-U	5 (200)		SEA-3/4					RDARA, MWARA
	ACC-SR-I	2 (150)							
	FIS-U	2 (FIR)							
WIII Jakarta/Soekarno Hatta	APP-SR-U	2 (75)							
	APP	2 (25)							
	APP	2 (50)							
	TWR	2 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)							
WIIH Jakarta/Halim Perdanakusuma	TWR	1 (25)							
	ATIS	1 (150)							
	APP	1 (75)							
WAJJ Jayapura/Sentani	TWR	1 (25)							
	FIS-L	1 (100)							
	ATIS	1 (150)							
WRKK Kupang/El-Tari	TWR	1 (25)							
	FIS-L	1 (100)							
WAMM Manado/Sam Ratulangi	APP-SR-I	1 (75)							
	TWR	1 (25)							
	FIS-L	1 (100)							
	ATIS	1 (150)							
WIMZ Medan	ACC-SR-U	2 (200)		SEA-1B/4					
	FIS	1 (100)							
	APP	1 (75)							
WIMM Medan/Polonia	TWR	1 (75)							
	ATIS	1 (150)							
WAKK Merauke/Mopah	TWR	1 (25)							
	FIS	1 (100)							
	APP	1 (75)							
WIMG Padang/Tabling	TWR	1 (25)							
	ATIS	1 (150)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
WIPP Palembang/Sultan Mahmut	TWR APP-I ATIS	1 (25) 1 (75) 1 (150)							
WIBB Pekanbaru/Simpang Tiga	APP-SR-I TWR ATIS	1 (75) 1 (25) 1 (150)							
WIOO Pontianak/Supadio	APP-SR-I TWR FIS-L SMC ATIS	1 (75) 1 (25) 1 (100) 1 (AD) 1 (150)							
WRSJ Surabaya/Juanda	APP-SR-I APP-SR-L TWR SMC FIS-L ATIS	1 (75) 1 (50) 1 (25) 2 (AD) 1 (100) 1 (150)							
WIKN Tanjung Pinang/Kijang	APP-SR-I APP-SR-L TWR SMC ATIS	1 (75) 1 (50) 1 (25) 1 (AD) 1 (150)							
WRLR Tarakan/Juwata	APP-L TWR SMC ATIS	1 (50) 1 (25) 1 (AD) 1 (150)							
WABB Timika/Tembagapura	TWR	1 (25)							
WAAZ Ujungpandang	ACC-SR-U FIS-U FIS-L	2 (150) 2 (FIR) 1 (100)		SEA-3/4					
WAAA Ujungpandang/Hassanudin	APP-SR-I TWR SMC ATIS	2 (75) 1 (25) 2 (AD) 1 (150)							
<b>JAPAN</b>									
RJGG Chubu	APP-SR-I TWR SMC ATIS FIS	4 (75) 3 (25) 2 (AD) 1 (150) 2(150)							
RJDG Fukuoka	ACC-SR-U	14 (FIR)							
RJJJ Air Traffic Management Center	ACC – U FIS – U (GP) FIS – U (GP)	1(200) 3(250)			NP/11 CWP – 1/5 CWP – 2/6	I	I		
RJFF Fukuoka/Fukuoka	APP-SR-I TWR SMC ATIS FIS	6 (75) 3 (25) 2 (AD) 1 (150) 4(150)	I						
RJCH Hakodate	APP-SR-I	3 (75)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
RJOA Hiroshima	TWR	3 (25)							
	ATIS	1 (150)	I						
RJOA Hiroshima	APP-SR-I	4 (75)							
	TWR	3 (25)							
	ATIS	1 (150)	I						
RJFK Kagoshima	APP - SR - I	4 (75)							
	TWR	3 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)	I						
	FIS	2(150)							
RJFT Kumamoto	APP-SR-I	4 (75)							
	TWR	4 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)	I						
RJFU Nagasaki	APP-SR-I	3 (75)							
	TWR	4 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)	I						
RORG Naha	ACC-SR-U	8 (FIR)							
ROAH Naha	PAR	4 (25)							
	TWR	3 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)	I						
	FIS	2(150)							
RJSN Niigata	APP-SR-I	2 (75)							
	TWR	3 (75)							
	ATIS	1 (150)	I						
RJFO Oita	APP-SR-I	3 (75)							
	TWR	3 (25)							
	SMC	1(AD)							
	ATIS	1 (150)	I						
RJOB Okayama	TWR	2 (25)							
RJBB Osaka/Kansai Int'l	APP-SR-I	6 (75)							
	TWR	3 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)	I						
RJOO Osaka/Int'l	TWR	3 (25)							
	SMC	2 (AD)							
	ATIS	1 (150)	I						
	FIS	3(150)							
RJCG Sapporo	ACC-SR-U	11 (FIR)							
RJCC Sapporo/New Chitose	APP-SR-I	8 (75)							
	TWR	3 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)	I						
	FIS	5(150)							
RJSS Sendai	APP-SR-I	3 (75)							
	TWR	3 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)	I						
	FIS	3(150)							
RJOT Takamatsu	APP-SR-I	3 (75)							
	TWR	4 (25)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	ATIS	1 (150)	I						
RJTG Tokyo	ACC-SR-U VOLMET	22 (FIR)		VPAC/4					
RJTT Tokyo/Haneda	APP-SR-I TWR SMC ATIS FIS	7 (75) 5 (25) 2 (AD) 1 (150) 6(150)	I						
RJAA Tokyo/Narita	APP-SR-I TWR SMC ATIS	7 (75) 5 (25) 2 (AD) 1 (150)	I						
<b>JOHNSTON ISLANDS (United States)</b>									
PJON Johnston Is.	TWR	1 (25)							
<b>KIRIBATI</b>									
NGTA Tarawa/Bonriki Int'l	TWR	1 (25)		RDARA 9/2					
<b>LAO PEOPLE'S DEMOCRATIC REPUBLIC</b>									
VLVT Vientiane	ACC-U FIS-U (GP)	1 (FIR) 1 (FIR)							
VLVT Vientiane/Wattay	APP-L TWR ATIS	1 (50) 1 (25) 1(50)							
<b>MALAYSIA</b>									
WMKA Alor Star/Sultan Abdul Halim	TWR/APP  SMC FIS	1 (75)  1 (AD) 1(75)							
WMKB Butterworth	APP-SR-I TWR SMC ATIS	4 (75) 1 (25) 1 (AD) 1 (90)							
WBGB Bintulu	TWR SMC APP ATIS	1 (75) 1 (AD) 1(75) 1 (90)							
WMGK Gong Kedak	APP TWR SMC ATIS	1 (75) 1 (25) 1 (AD) 1(90)							
WMKI Ipoh/Sultan Azlan Shah	APP/TWR SMC	1 (75) 1 (AD)							
WMKJ Johor Bharu/Sultan Ismail	TWR APP SMC ATIS	1 (75) 1(75) 1 (AD) 1 (90)							
WMKE Kerteh	TWR	1 (75)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
	APP	1(75)							
WMAP Kluang	TWR	1 (75)							
	APP	1(75)							
WMKC Kota Bharu/Sultan Ismail	APP/TWR	1 (75)							
	SMC	1 (AD)							
WBFC Kota Kinabalu	ACC-U	1 (FIR)							
	ACC-SR-U	1 (200)							
	APP-SR-I	1 (75)							
	FIS	1 (FIR)							
WBKK Kota Kinabalu Int'l	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (150)							
WMFC Kuala Lumpur	ACC-U	1 (FIR)			SEA-1B/4 SEA-2/3				
	ACC-SR-U	3 (200)							
	APP-SR-I	4 (75)							
	FIS	1 (FIR)							
	ACD	1 (75)							
WMKK Kuala Lumpur Int'l	TWR	2 (25)							
	SMC/SMR	8 (AD)							
	ATIS	1 (90)							
WMKD Kuantan	APP-SR-I	4 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (90)							
WBGG Kuching	APP	2(75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (90)							
WBKL Labuan	APP-SR-I	3 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (90)							
	ACC-SR	1(200)							
WBKD Lahad Datu	AFIS	1 (75)							
	SMC	1 (AD)							
WMKL Langkawi Int'l	APP-SR-L	1 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (90)							
WBGJ Limbang	TWR/APP	2(75)							
	SMC	1 (AD)							
WMKM Malacca	APP/TWR	1 (75)							
	SMC	1 (AD)							
WBGR Miri	APP-SR-I	2 (75)							
	TWR	1 (25)							
	SMC	1 (AD)							
	ATIS	1 (90)							
WBMU Mulu	SMC	1 (AD)							
	TWR/APP	1(75)							
WMKP Penang Int'l	APP/TWR	1 (75)							
	SMC	2 (AD)							



State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	ATIS	1 (90)							
WBKS Sandakan	APP TWR SMC	1 (75) 1 (25) 1 (AD)							
WBG5 Sibu	APP TWR SMC ATIS	1 (75) 1 (25) 1 (AD) 1 (90)							
WMKF Simpang	TWR SMC	1 (75) 1 (25)							
WMSA Subang/Sultan Abdul Aziz Shah	APP/TWR  SMC ATIS	1 (75)  3 (25) 1 (150)							
WBKW Tawau	APP TWR SMC	1 (75) 1 (25) 1 (AD)							
WMKN Terengganu/Sultan	APP TWR SMC ATIS	1 (75) 1 (25) 1 (AD) 1 (90)							
<b>MALDIVES</b>									
VRMM Male	ACC APP TWR SMC FIS	1 (200) 1 (75) 1 (20) 1 (AD) 1 (200)							
VRGN Gan	TWR SMC	1 (20) 1 (AD)							
<b>MARIANA ISLANDS (United States)</b>									
PGRO Rota	AFIS	1 (25)							
PGSN Saipan	AFIS	1 (25)							
<b>MARSHALL ISLANDS</b>									
PKWA Kwajelein	TWR	1 (25)							
PKMJ Majuro Atoll/Marshall Is. Int'l	AFIS	1 (25)							
<b>MICRONESIA (FEDERATED STATES OF</b>									
PTTK Kosrae	AFIS	1 (25)							
PTTK Moen Island/Chuuk Int'l	AFIS	1 (25)							
PTPN Pohnpei	AFIS	1 (25)							
PTYA Yap Int'l	AFIS	1 (25)							
<b>MONGOLIA</b>									
ZMUB Ulaan Baatar	ACC-U	1 (150)							NCA-3/2 EA-1/2 EA- 2/2

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
ZMUB Ulaan Baatar/Buyant Ukhaa	APP-I TWR	1 (75) 1 (25)							
<b>MYANMAR</b>									
VYYY Yangon	ACC-U FIS-U	2 (FIR) 1 (ER)		SEA-1A/4					
VYYY Yangon/Mingaladon	APP-I TWR	1 (75) 1 (25)							
<b>NAURU</b>									
ANAV Nauru	FIS			CWP-2/X RDARA 9/2					
ANAV Nauru	TWR	1 (25)							
<b>NEPAL</b>									
VNSM Kathmandu	ACC-U ACC-SR-U FIS-U	2 (150) 2 (150) 1 (150)		SEA-1A/X MID-2/X					
VNKT Kathmandu/Tribhuvan Int'l	APP-SR-I TWR/APP-I SMC ATIS	1 (75) 1 (75) 1 (AD) 1 (150)							
<b>NEW CALEDONIA (France)</b>									
NWWW Noumea	FIS-L	2 (200)							
NWWW Noumea/Tontouta	APP-I TWR ATIS	1 (200) 1 (25) 1 (150)							
<b>NEW ZEALAND</b>									
NZZO Auckland	ACC-SR-U VOLMET	9 (200)		SP/5 VPAC/3		I	I		Long distance AOC/6
NZAA Auckland Int'l	APP-SR-L APP TWR SMC ACD ATIS	2 (75) 3 (150) 2 (25) 1 (AD) 1 (25) 1 (200)						1 (250)	
NZZC Christchurch	ACC-SR-U FIS	5 (200) 14 (200)				I		6 (250)	
NZCH Christchurch	APP-SR-L APP TWR SMC ACD ATIS	3 (75) 3 (150) 1 (25) 1 (AD) 1 (25) 1 (200)						1 (250)	
NZDN Dunedin	APP TWR ATIS	2(75) 1(25) 1(200)							
NZHN Hamilton	APP-SR-L TWR	3(75) 1(25)						1(250)	

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	ATIS	1(200)							
NZPM Palmerston North	APP-SR-L TWR SMC ATIS	4(75) 1(25) 1(AD) 1(200)						1(250)	
NZQN Queenstown	APP TWR SMC ATIS FIS	2(75) 1(25) 1(AD) 1(200) 1(75)							
NZWN Wellington Int'l	APP-SR-L APP TWR SMC ACD ATIS	3 (75) 3 (150) 2 (25) 1 (AD) 1 (25) 1 (200)						1 (250)	
<b>NIUE (New Zealand)</b>									
NIUE Alofi/Niue Int'l	TWR	1 (25)		RDARA 9/2					
<b>PAKISTAN</b>									
OPFA Faisalabad	SMC TWR	1 (AD) 2 (25)							
OPGD Gawadar	TWR SMC	2 (25) 1 (AD)							
OPRN Islamabad/Chaklala	APP-SR-I TWR ATIS SMC	2 (50) 1 (25) 1 (150) 1 (AD)							
OPKR Karachi	ACC-SR-U (E) ACC-SR-U (W) ACC-SR-U (N) VOLMET	1 (150) 1 (150) 1 (150)			MID-2/4 VASIA/3	I	I		
OPKC Karachi Quaid-E- Azam Int'l	APP-SR-I TWR SMC ATIS	3 (75) 2 (25) 3 (AD) 1 (150)							
OPLR Lahore	ACC-SR-U (E) ACC-SR-U (W)	1 (150) 1 (150)			MID-2/4	I	I		
OPLA Lahore Int'l	APP-SR-I TWR SMC ATIS	3 (50) 1 (25) 2 (AD) 1 (150)							
OPMT Multan	TWR SMC	1 (25) 1 (AD)							
OPPI Pasni	TWR SMC	1 (25) 1 (AD)							
OPPS Peshawar	APP TWR SMC	1 (75) 1 (25) 1 (AD)							
OPQT Quetta	TWR SMC	2 (25) 1 (AD)							
OPTU Turbat	TWR	1 (25)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	SMC	1 (AD)							
<b>PALAU</b>									
PTRO Koror	AFIS	1 (25)							
<b>PAPUA NEW GUINEA</b>									
AYGA Goroka	TWR	1 (15)							
AYMD Madang	TWR ATIS FIS	1 (50) 1 (50) 4 (FIS)							
AYMH Mount Hagen	TWR ATIS	1 (15) 1 (15)							
AYNZ Nadzab	APP TWR/SMC ATIS FIS	1 (50) 1 (30) 1 (50) 3 (FIS)							
AYPY Port Moresby/Jacksons	ACC FIS APP TWR SMC ATIS	2 (CTA) 3 (FIS) 1 (70) 1 (25) 1 (AD) 1 (70)		CWP-2/4					
<b>PHILIPPINES</b>									
RPLC Pampanga/Clark Int'l	APP TWR SMC ATIS	1(75) 2(25) 1(AD) 1(150)							
RPMD Davao/Francisco Bangoy Int'l	APP-I TWR Smc ATIS	1 (75) 2 (25) 1(AD) 1 (150)							
RPLI Laoag Int'l	APP TWR	1 (75) 1 (25)							
RPVM Mactan Cebu Int'l	APP TWR SMC FIS ATIS	2 (75) 1 (25) 1 (AD) 2 (150) 1/1 (75)							
RPLL Manila/Ninoy Aquino Int'l	ACC ACC FIS  APP TWR SMC ACD ATIS	4 (250) 2 (200) 2 (AD)  2 (75) 2 (25) 1 (AD) 1 (AD) 1 (150)		CWP/6 SEA-2/5					
RPLB Olongapo/Subic Bay Int'l	APP TWR SMC ACD	1 (50) 1 (25) 1(AD) 1(AD)							
RPMZ Zamboanga Int'l	APP TWR	1 (50) 2 (25)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
<b>REPUBLIC OF KOREA</b>									
RKPK Busan/Gimhae	APP TWR SMC ATIS	4 (75) 2 (25) 2 (AD) 1 (150)	I						
RKTU Cheongju Int'l	APP TWR SMC ATIS	3 (75) 2 (25) 1 (AD) 1 (150)	I						
RKTN Daegu Int'l	APP TWR SMC  ATIS	3 (75) 2 (25) 1 (AD)  1 (150)	I						
RKRR Incheon	ACC FIS	19 (200) 3 (FIR)							
RKSI Incheon Int'l	APP TWR SMC ATIS	5 (75) 2 (25) 7 (AD) 2 (150)	I						
RKPC Jeju Int'l	APP TWR SMC ATIS	4 (75) 3 (25) 1 (AD) 1 (150)	I						
RKSS Seoul/Gimpo Int'l	APP TWR SMC ATIS FIS	8 (75) 2 (25) 3 (AD) 1 (150) 1 (FIR)	I		CWP-1/6 NCA-3/2				
RKNY Yangyang Int'l	APP TWR SMC	2 (75) 3 (25) 1 (AD)							
<b>SAMOA</b>									
NSFA Apia/Faleolo	TWR SMC	2 (25) 1 (AD)		RDARA 9/2					
<b>SINGAPORE</b>									
WSIC Singapore	ACC-SR-U ACC-U FIS-U  VOLMET	4 (150) 5 (250) 1 (250)  			SEA-1/2 SEA-2/3 SEA-3/1 VASIA/2		I (CPDLC)		
WSSS Singapore/Changi	APP-SR-U APP-SR-U/DEP APP-SR-I APP-SR-I/DEP TWR TWR/SMC SMC ACD/SMC ATIS	1 (150) 2(150) 1 (75) 1(75) 3 (25) 1(25) 3 (AD) 1(AD) 1 (150)							
WSAP Singapore/Paya Lebar	TWR SMC	1 (25) 1 (AD)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	APP-L	2 (50)							
WSSL Singapore/Seletar	TWR SMC	3 (25) 1 (AD)							
<b>SOLOMON ISLANDS</b>									
AGGH Honiara/Henderson	TWR	2 (25)		RDARA 9/2					
<b>SRI LANKA</b>									
VCBI Colombo/Katunayake	APP-SRI-I TWR SMC ATIS	1 (150) 1 (25) 1 (AD) 1 (80)							
VCCC Colombo/Ratmalana	ACC-SR-U ACC-U FIS-L TWR	1 (200) 1 (200) 1 (200) 1 (25)		SEA-1B/4 INO-1/3		I	I (CPDLC)		
<b>THAILAND</b>									
VTBB Bangkok	ACC-SR-U VOLMET	8 (FIR)		VASIA/3					
VTBD Bangkok Don Mueng Int'l	APP-SR-L TWR SMC ACD ATIS	4 (50) 2 (25) 2 (AD) 4 (AD) 1 (150)							
VTCC Chiang Mai Int'l	APP-SR-L TWR SMC ATIS	1 (38) 2 (25) 1 (AD) 1 (150)							
VTCT Chiang Rai Int'l	APP-L TWR ATIS	1 (30) 2 (25)							NDB Broadcast
VTSP Phuket Int'l	APP-SR-L TWR SMC ATIS	1 (30) 2 (25) 1 (AD) 1 (150)							
VTBU Rayong/U-Tapho	APP-SR-U TWR SMC	3 (50) 3 (25) 1 (AD)							
VTSS Songkhla/Hat Yai Int'l	APP-SR-L TWR SMC ATIS	1 (35) 2 (25) 1 (AD) 1 (150)							
VTBS Suvarnabhumi Int'l	APP-SR-L TWR ACD SMC ATIS	6 (50) 2 (25) 5 (AD) 3 (AD) 1 (150)							
<b>TIMOR LESTE</b>									
WPDL Dili/Komoro	TWR APP-L APP-U FIS-U SMC	1 (25) 1 (50) 1 (150) 1 (150) 1 (AD)							
<b>TONGA</b>									

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
NFTF Tongatapu/Fua'amotu Int'l	TWR	2 (25)		RDARA/ 94					
<b>TUVALU</b>									
NGFU Funafuti Int'l	TWR	1 (25)		RDARA 9/4					
<b>UNITED STATES OF AMERICA</b>									
PAZA Anchorage	ACC-SR-L	14 (FIR)	I			I	I		
PANC Anchorage Int'l	APP-SR-L TWR SMC ATIS	4 (75) 2 (25) 1 (AD) 1 (150)							
PAED Anchorage/Elemendorf AFB	TWR SMC ATIS	1 (75) 2 (AD) 1 (150)							
PHZH Honolulu	ACC-SR-LU VOLMET  ACC	7		VPAC/4  SP/6 NP/12 CEP/11 CWP-1/4 CWP-2/4		I	I		KZAK Oakland ACC
PHNL Honolulu Int'l	APP-SR-I TWR SMC ATIS	5 (75) 3 (25) 3 (AD) 1 (150)							
PHOG Kahului	TWR SMC ATIS	1 (75) 1 (25) 1 (150)							
<b>VANUTAU</b>									
NVVV Port Vila/Baurfield	APP-L TWR FIS-L	1 (50) 1 (25) 1 (50)		RDARA 9/2					
NVSS Santo/Pekoe	APP	1 (50)							
<b>VIET NAM</b>									
VVDN Danang	APP-SR-I TWR SMC	2 (75) 1 (25) 1 (AD)							
VVNB Hanoi	ACC-SR-I TWR SMC	2 (FIR) 1 (25) 1 (AD)		SEA-2/4					
VVTS Hanoi/Noi Bai	APP-SR-I TWR SMC	1 (75) 1 (25) 1 (AD)							
VVTS Ho Chi Minh	ACC-SR-U FIS	5 (FIR) 1 (FIR)		SEA-2/4					
VVTS Ho Chi Minh/Tan Son Nhat	APP-SR-I  TWR SMC ATIS	2 (75)  2 (25) 1 (AD) 1 (150)							

State and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
WALLIS ISLANDS (France) NLWW Wallis/Hihifo	AFIS	1 (25)		RDARA 9/2					