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منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: APAC 10/06 - MET: AP062/10 (MET)

31 March 2010

Subject: Approval of a proposal for amendment
of the ASIA/PAC Facilities and Services Implementation
Document Vol. II, Doc 9673 (ASIA/PAC FASID)
(Serial No.: APAC 10/06 - MET)

Sir/Madam,

I have the honour to inform you that the following attached amendment proposal to the ASIA/PAC Facilities and Services Implementation Document (FASID):

- Part VI – Meteorology (MET)
- Table MET 1A – Meteorological Service Required at Aerodromes
- Table MET 1B – Meteorology Watch Offices
- Table MET 3A – Tropical Cyclone Advisory Centres
- Table MET 3B - Volcanic Ash Advisory Centres
- Table MET 3C – Selected State Volcano Observatories

has been processed according to the established procedures and is now considered approved.

The attached amendments will be incorporated in the next consolidated amendment to be issued to the Air Navigation Plan, Asia and Pacific Regions, Volume II, FASID (Doc 9673).

Accept, Sir/Madam, the assurances of my highest consideration.


Mokhtar A. Awan
Regional Director

Enclosure:

Approved Amendment of the ASIA/PAC Facilities
and Service Implementation Document (FASID)
(Serial No.: APAC 10/06 – MET)

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Part VI

METEOROLOGY (MET)

1. INTRODUCTION

1.1 The Standards, Recommended Practices and Procedures to be applied are as listed in paragraph 1.2, Part VI - MET of the ASIA/PAC Basic ANP. The material in this part complements that contained in Part I – Statement of Basic Operational Requirements and Planning Criteria (BORPC) of the ASIA/PAC Basic ANP and should be taken into consideration in the overall planning processes for the ASIA/PAC Regions.

1.2 This Part contains a detailed description/list of the facilities and/or services to be provided to fulfill the basic requirements of the Plan and are as agreed between the provider and user States concerned. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified. This element of the FASID, in conjunction with the ASIA/PAC Basic ANP, is kept under constant review by the APANPIRG in accordance with its schedule of management, in consultation with user and provider States and with the assistance of the ICAO Asia and Pacific Office, Bangkok.

2. METEOROLOGICAL SERVICE REQUIRED AT AERODROMES AND REQUIREMENTS FOR METEOROLOGICAL WATCH OFFICES (FASID Tables MET 1A and 1B)

2.1 The meteorological service to be provided to meet the requirement of international flight operations is outlined in FASID Table MET 1A. The requirements for meteorological watch offices (MWO) together with the service to be provided to flight information regions (FIR), upper flight information regions (UIR) and search and rescue regions (SRR) are listed in FASID Table MET 1B.

3. EXCHANGE OF OPERATIONAL METEOROLOGICAL INFORMATION (FASID Tables MET 2A, ROBEX Handbook and Asia/Pacific OPMET data banks interface control document)

3.1 The requirements for the exchange of METAR, SPECI and TAF, not catered for by the ROBEX Scheme, to meet the requirement of international flight operations in the ASIA/PAC Region are shown in FASID Table MET 2A.

3.2 The ROBEX Handbook sets out the Regional OPMET Bulletin Exchange (ROBEX) Scheme for the exchange of METAR, SPECI, air reports (AIREP) and TAF. The ROBEX Handbook should be updated, as necessary, by the ICAO Asia and Pacific Office (Bangkok) in coordination with the ICAO Middle East Office (Cairo).

3.3 The Asia/Pacific OPMET data banks interface control document reflects the requirements for the operation of the ASIA/PAC OPMET data banks to support the ROBEX Scheme. The Asia/Pacific OPMET data banks interface control document is maintained by the ICAO Asia and Pacific Office (Bangkok) in coordination with the regional OPMET data banks. The responsibilities of the ROBEX OPMET data banks are as follows:

- a) support the ROBEX Scheme to facilitate a regular exchange of OPMET information within the ASIA/PAC Regions;
- b) operate as Inter-regional OPMET Gateways (IROG) with responsibility of exchanging the OPMET information between ASIA/PAC Regions and other Regions; and
- c) provide request/response facilities for users to obtain non regular or occasional information.

4. TROPICAL CYCLONE AND VOLCANIC ASH ADVISORY CENTRES (FASID Tables MET 3A, MET 3B, and MET 3C and FASID Charts MET 1 and 2)

4.1 The areas of responsibility and the periods of operation of the tropical cyclone advisory centres (TCACs) Darwin, Honolulu, Miami, Nadi, New Delhi, Réunion and Tokyo, and the MWOs to which advisory information should be sent by the TCACs, are contained

in FASID Table MET 3A. The areas of responsibility of the designated TCACs in all regions are shown on FASID Chart MET 1.

4.2 The areas of responsibility of the volcanic ash advisory centres (VAAC) Anchorage, Darwin, Tokyo, Toulouse, Washington and Wellington, the MWOs and ACCs to which the advisory information should be sent by the VAACs are contained in FASID Table MET 3B. The areas of responsibility of the designated VAACs in all regions are shown on FASID Chart MET 2.

4.3 FASID Table MET 3C sets out the selected State volcano observatories designated for direct notification of significant pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash in the atmosphere and the VAACs, MWOs and ACCs to which the notification should be sent by the observatories.

Note. – Operational procedures to be used for the dissemination of information on volcanic eruptions and associated ash clouds in areas which could affect routes used by international flights and necessary pre-eruption arrangements as well as the list of operational contact points are provided in the document entitled Handbook on the International Airways Volcano Watch (IAVW) – Operational Procedures and Contact List (Doc 9766). Additional guidance material regarding the IAVW is contained in the Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Doc 9691).

5. WORLD AREA FORECAST SYSTEM (WAFS) (FASID Table MET 5)

5.1 FASID Table MET 5 sets out the ASIA/PAC Regions requirements for WAFS forecasts, to be provided by WAFCs London and Washington.



FASID TABLE MET 1A

METEOROLOGICAL SERVICE REQUIRED AT AERODROMES

EXPLANATION OF THE TABLE

Column

1 Name of the aerodrome or location where meteorological service is required

Note: The name is extracted from the *ICAO Location Indicators (Doc 7910)* updated quarterly. If a state wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.

2 ICAO location indicator of the aerodrome

3 Designation of aerodrome:

- RG - international general aviation, regular use
- RS - international scheduled air transport, regular use
- RNS - international non-scheduled air transport, regular use
- AS - international scheduled air transport, alternate use
- ANS - international non-scheduled air transport, alternate use

4 Name of the meteorological office responsible for the provision of meteorological service at the aerodrome indicated in column 1

5 ICAO location indicator of the responsible meteorological office

6 Requirement for trend forecasts

Y - Required

7 Requirement for aerodrome forecasts in TAF code

- C - Requirement for 9-hour validity aerodrome forecasts in TAF code (9H)
- T - Requirement for 18/24-hour validity aerodrome forecasts in TAF code (18/24H)
- X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)

8 Availability of OPMET information (METAR/SPECI and TAF)

- F - Full : OPMET data as listed issued for the aerodrome all through the 24-hour period
- P - Partial : OPMET data as listed not issued for the aerodrome for the entire 24-hour period
- N - None : No OPMET data issued for the time being



MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office			Forecasts be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF		
1	2	3	4	5	6	7	8	
Afghanistan								
KABUL AD	OAKB	RS	KABUL AD	OAKB	Y	T	F	
KANDAHAR	OAKN	AS	KABUL AD	OAKB		T	F	
American Samoa (United States)								
PAGO PAGO INTERNATIONAL, TUTUILA I.	NSTU	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F	
Australia								
ADELAIDE/ADELAIDE INTL	YPAD	RS	ADELAIDE/ADELAIDE INTL	YPAD	Y	X	F	
ALICE SPRINGS	YBAS	AS	DARWIN/DARWIN INTL	YPDN		T	F	
BRISBANE/BRISBANE INTL	YBBN	RS	BRISBANE/BRISBANE INTL	YBBN	Y	X	F	
CAIRNS/CAIRNS INTL	YBCS	RS	TOWNSVILLE/TOWNSVILLE INTL	YBTL	Y	T	F	
CHRISTMAS ISLAND	YPXM	RS	PERTH/PERTH INTL	YPPH		T	F	
COCOS (KEELING) ISLAND INTL	YPCC	RS	PERTH/PERTH INTL	YPPH		T	F	
DARWIN/DARWIN INTL	YPDN	RS	DARWIN/DARWIN INTL	YPDN	Y	X	F	
HOBART	YMHB	RS	HOBART	YMHB		T	F	
MELBOURNE/MELBOURNE INTL	YMML	RS	MELBOURNE/MELBOURNE INTL	YMML	Y	X	F	
NORFOLK ISLAND	YSNF	RS	SYDNEY/SYDNEY (KINGSFORD SMITH) INTL	YSSY		T	F	
PERTH/PERTH INTL	YPPH	RS	PERTH/PERTH INTL	YPPH	Y	X	F	
PORT HEDLAND	YPPD	RS	PERTH/PERTH INTL	YPPH		T	F	
ROCKHAMPTON	YBRK	AS	BRISBANE/BRISBANE INTL	YBBN	Y	T	F	
SYDNEY/SYDNEY (KINGSFORD SMITH) INTL	YSSY	RS	SYDNEY/SYDNEY (KINGSFORD SMITH) INTL	YSSY	Y	X	F	
TINDAL	YPTN	AS	DARWIN/DARWIN INTL	YPDN	Y	T	F	
TOWNSVILLE/TOWNSVILLE INTL	YBTL	RS	TOWNSVILLE/TOWNSVILLE INTL	YBTL	Y	T	F	
Bangladesh								
M.A. HANNAN INTL. CHITTAGONG	VGEG	RS	ZIA INTL.AIRPORT,DHAKA	VGZR	Y	T	F	
ZIA INTL.AIRPORT,DHAKA	VGZR	RS	ZIA INTL.AIRPORT,DHAKA	VGZR	Y	X	F	
Bhutan								
PARO/INTL	VQPR	RS	PARO/INTL	VQPR				F
Brunei Darussalam								
BRUNEI/INTL	WBSB	RS	BRUNEI/INTL	WBSB		T	F	
Cambodia								
PHNOM PENH	VDPP	RS	PHNOM PENH	VDPP	Y	T	P	
SIEM REAP	VDSR	AS	PHNOM PENH	VDPP		T	P	
Chile								
ISLA DE PASCUA/AD MATAVERI	SCIP	RS				T	P	

China							
BEIJING/CAPITAL	ZBAA	RS	BEIJING/CAPITAL	ZBAA	Y	X	F
CHANGSHA/HUANGHUA	ZGHA	RS	GUANGZHOU ACC	ZGGG		T	F
CHENGDU/SHUANGLIU	ZUUU	RS	CHENGDU/SHUANGLIU	ZUUU		T	F
CHONGQING/JIANGBEI	ZUCK	RS	CHENGDU/SHUANGLIU	ZUUU	Y	T	F
DALIAN/ZHOUSHUIZI	ZYTL	RS	SHENYANG/TAOXIAN	ZYTX		T	F
FUZHOU/CHANGLE	ZSFZ	RS	SHANGHAI/HONGQIAO	ZSSS		T	F
GAOXIONG	RCKH	RS	TAIBEI CITY/TAIBEI INTL AP	RCTP	Y	X	F
GUANGZHOU ACC	ZGGG	RS	GUANGZHOU ACC	ZGGG	Y	X	F
GUILIN/LIANJIANG	ZGKL	RS	GUANGZHOU ACC	ZGGG		T	F
HANGZHOU/XIAOSHAN	ZSHC	RS	SHANGHAI/HONGQIAO	ZSSS		T	F
HARBIN/TAIPING	ZYHB	RS	SHENYANG/TAOXIAN	ZYTX		T	F
HEFEI/LUOGANG	ZSOF	AS	SHANGHAI/HONGQIAO	ZSSS		T	F
HUHHOT/BAITA	ZBHH	RS	BEIJING/CAPITAL	ZBAA		T	F
JINAN/YAOQIANG	ZSJM	RS	SHANGHAI/HONGQIAO	ZSSS		T	F
KASHI/KASHI	ZWSH	RS	URUMQI/DIWOPU	ZWWW		X	F
KUNMING/WUJIABA	ZPPP	RS	CHENGDU/SHUANGLIU	ZUUU		X	F
LANZHOU/ZHONGCHUAN	ZLLL	AS	XI'AN/XIANYANG	ZLXY		T	F
NANJING/LUKOU	ZSNJ	RS	SHANGHAI/HONGQIAO	ZSSS		T	F
NANNING/WUXU	ZGNN	AS	GUANGZHOU ACC	ZGGG		T	F
QINGDAO/LIUTING	ZSQD	RS	SHANGHAI/HONGQIAO	ZSSS		T	F
SANYA/PHOENIX	ZJSY					T	F
SHANGHAI/HONGQIAO	ZSSS	RS	SHANGHAI/HONGQIAO	ZSSS	Y	T	F
SHANGHAI/PUDONG	ZSPD	RS	SHANGHAI/HONGQIAO	ZSSS	Y	X	F
SHENYANG/TAOXIAN	ZYTX	RS	SHENYANG/TAOXIAN	ZYTX	Y	T	F
SHENZHEN/BAOAN	ZGSZ	RS	GUANGZHOU ACC	ZGGG		X	F
TAIBEI CITY/TAIBEI INTL AP	RCTP	RS	TAIBEI CITY/TAIBEI INTL AP	RCTP	Y	X	F
TAIBEI/SONGSHAN	RCSS	AS	TAIBEI CITY/TAIBEI INTL AP	RCTP		T	F
TAIYUAN/WUSU	ZBYN	AS	BEIJING/CAPITAL	ZBAA		T	F
TIANJIN/BINHAI	ZBTJ	RS	BEIJING/CAPITAL	ZBAA		X	F
URUMQI/DIWOPU	ZWWW	RS	URUMQI/DIWOPU	ZWWW		X	F
WUHAN/TIANHE	ZHHH	RS	GUANGZHOU ACC	ZGGG	Y	T	F
XIAMEN/GAOQI	ZSAM	RS	SHANGHAI/HONGQIAO	ZSSS	Y	T	F
XI'AN/XIANYANG	ZLXY	RS	XI'AN/XIANYANG	ZLXY	Y	T	F
XICHANG/QUINGSHAN	ZUXC	RNS	CHENGDU/SHUANGLIU	ZUUU			F

Cook Islands							
RAROTONGA INTL.	NCRG	RS	NADI/INTL	NFFN		T	F

Democratic People's Republic of Korea							
SUNAN	ZKPY	RS	SUNAN	ZKPY	Y	T	F

Fiji							
NADI/INTL	NFFN	RS	NADI/INTL	NFFN	Y	T	F
NAUSORI/INTL	NFNA	RS	NADI/INTL	NFFN		T	F

French Polynesia (France)							
TAHITI FAAA	NTAA	RS	TAHITI FAAA	NTAA	Y	T	F

Hong Kong, China (China)							
HONG KONG/INTERNATIONAL	VHHH	RS	HONG KONG/INTERNATIONAL	VHHH	Y	X	F

India							
AHMEDABAD	VAAH	RS	AHMEDABAD	VAAH		X	F
AMRITSAR	VIAR	RS	DELHI (IGI)	VIDP		X	F
BANGALORE INTERNATIONAL	VOBL	RS	BANGALORE	VOBL	Y	X	F

AIRPORT, DEVANAHALLI, BANGALORE							
CALICUT	VOCL	RS	THIRUVANANTHAPURAM	VOTV		X	F
CHENNAI	VOMM	RS	CHENNAI	VOMM	Y	X	F
COCHIN INTERNATIONAL	VOCI	RS	THIRUVANANTHAPURAM	VOTV	Y	X	F
COIMBATORE	VOCB	RS	CHENNAI	VOMM	N	T	F
DELHI (IGI)	VIDP	RS	DELHI (IGI)	VIDP	Y	X	F
GAYA	VEGY	RS	PATNA	VEPT	N	T	F
GUWAHATI	VEGT	RS	GUWAHATI	VEGT	Y	T	F
HYDERABAD	VOHS	RS	HYDERABAD	VOHS	Y	T	F
INTERNATIONAL AIRPORT							
JAIPUR	VIJP	RS	JAIPUR	VIJP	Y	T	F
KOLKATA	VECC	RS	KOLKATA	VECC	Y	X	F
LUCKNOW	VILK	RS	LUCKNOW	VILK	Y	T	F
MANGALORE	VOML	RS	BANGALORE	VOBL	N	T	F
MUMBAI	VABB	RS	MUMBAI	VABB	Y	X	F
NAGPUR	VANP	RS	NAGPUR	VANP	Y	T	F
PATNA	VEPT	RS	PATNA	VEPT		T	F
THIRUVANANTHAPURAM	VOTV	RS	THIRUVANANTHAPURAM	VOTV		X	F
TIRUCHCHIRAPPALLI	VOTR	RS	CHENNAI	VOMM		T	F
VARANASI	VIBN	RS	LUCKNOW	VILK		T	F

Indonesia

AMBON/PATTIMURA	WAPP	RNS	UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA		T	F
BALI/NGURAH RAI	WADD	RS	BALI/NGURAH RAI	WADD		T	F
BALIK PAPAN/SEPINGGAN	WALL	RS				X	F
BANJARMASIN/SYAMSUDIN NOOR	WAOO	AS	UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA		T	F
BATAM/HANG NADIM	WIDD	AS	BATAM/HANG NADIM	WIDD		T	F
BIAK/FRANS KAISIEPO	WABB	RS	BIAK/FRANS KAISIEPO	WABB	Y	X	F
JAKARTA/HALIMPERDANA KUSUMA	WIHH	RNS	JAKARTA (ACC/FIC)	WIIF	Y	T	F
JAKARTA/SOEKARNO HATTA (COMM CENTER)	WIII	RS	JAKARTA/SOEKARNO HATTA (COMM CENTER)	WIII	Y	X	F
JAYAPURA/SENTANI	WAJJ	RS	BIAK/FRANS KAISIEPO	WABB		T	F
KUPANG/EL TARI	WATT	RS	BALI/NGURAH RAI	WADD		T	F
MANADO/SAM RATULANGI	WAMM	RS	UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA		X	F
MEDAN/POLONIA	WIMM	RS	MEDAN/POLONIA	WIMM	Y	T	F
MERAUKE/MOPAH	WAKK	RNS	UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA		T	F
PADANG/TABING	WIMG	RS				T	F
PALEMBANG/SULTAN MAHMUD BADARUDDIN II	WIPP	RNS				T	F
PEKANBARU/SULTAN SYARIF KASIM II	WIBB	RS	MEDAN/POLONIA	WIMM		T	F
PONTIANAK/SUPADIO	WIOO	RS	JAKARTA/SOEKARNO HATTA (COMM CENTER)	WIII		T	F
SURABAYA/JUANDA	WARR	RS	JAKARTA/SOEKARNO HATTA (COMM CENTER)	WIII		T	F
TANJUNG PINANG/KIJANG	WIDN	RS	JAKARTA/SOEKARNO HATTA (COMM CENTER)	WIII		T	F
TARAKAN/JUWATA	WALR	RS	BALI/NGURAH RAI	WADD		T	F
TIMIKA/MOSES KILANGIN	WABP	RNS				T	F
UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA	RNS	UJUNG PANDANG/HASANUDDIN (COMM CENTER)	WAAA	Y	X	F

Japan

CHUBU CENTRAIR INTL	RJGG	RS	TOKYO (CITY)	RJTD		X	F
FUKUOKA	RJFF	RS	TOKYO (CITY)	RJTD		T	F
HAKODATE	RJCH	AS	TOKYO (CITY)	RJTD		X	F
HIROSHIMA	RJOA	RS	TOKYO (CITY)	RJTD		T	F
KAGOSHIMA	RJFK	RS	TOKYO (CITY)	RJTD		T	F
KANSAI INTL	RJBB	RS	TOKYO (CITY)	RJTD	Y	X	F
KUMAMOTO	RJFT	RS	TOKYO (CITY)	RJTD		T	F

NAGASAKI	RJFU	RS	TOKYO (CITY)	RJTD		T	F
NAHA	ROAH	RS	TOKYO (CITY)	RJTD		X	F
NARITA INTL	RJAA	RS	TOKYO (CITY)	RJTD	Y	X	F
NIIGATA	RJSN	RS	TOKYO (CITY)	RJTD		T	F
OITA	RJFO	RS	TOKYO (CITY)	RJTD		T	F
OKAYAMA	RJOB	RS	TOKYO (CITY)	RJTD		T	F
OSAKA INTL	RJOO	AS	TOKYO (CITY)	RJTD		T	F
SAPPORO/NEW CHITOSE	RJCC	RS	TOKYO (CITY)	RJTD		X	F
SENDAI	RJSS	RNS	TOKYO (CITY)	RJTD		X	F
TAKAMATSU	RJOT	RS	TOKYO (CITY)	RJTD		T	F
TOKYO INTL	RJTT	AS	TOKYO (CITY)	RJTD		T	F

Kiribati

CHRISTMAS ISLAND	PLCH	RS	NADI/INTL	NFFN		T	F
TARAWA/BONRIKI INTL	NGTA	RS	NADI/INTL	NFFN		T	F

Lao People's Democratic Republic

VIENTIANE(WATTAY)	VLVT	RS	VIENTIANE(WATTAY)	VLVT	Y	T	P
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Macao, China (China)

MACAOU INTERNATIONAL	VMMC	RS	MACAOU INTERNATIONAL	VMMC	Y	X	F
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Malaysia

JOHOR BAHRU/SULTAN ISMAIL	WMKJ	RS	SEPANG/KL INTERNATIONAL AIRPORT	WMKK		T	F
KOTA KINABALU/INTL	WBKK	RS	KOTA KINABALU/INTL	WBKK	Y	T	F
KUCHING/INTL	WBGG	RS	KOTA KINABALU/INTL	WBKK		T	F
PENANG/INTL	WMKP	RS	SEPANG/KL INTERNATIONAL AIRPORT	WMKK		T	F
PULAU LANGKAWI/INTL	WMKL	RS	SEPANG/KL INTERNATIONAL AIRPORT	WMKK		T	F
SEPANG/KL INTERNATIONAL AIRPORT	WMKK	RS	SEPANG/KL INTERNATIONAL AIRPORT	WMKK	Y	X	F

Maldives

GAN/GAN INTERNATIONAL AIRPORT	VRMG	AS	MALE INTERNATIONAL AIRPORT	VRMM		X	F
MALE INTERNATIONAL AIRPORT	VRMM	RS	MALE INTERNATIONAL AIRPORT	VRMM		X	F

Marshall Islands

MARSHALL ISLANDS/INTL MAJURO ATOLL	PKMJ	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	P
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Micronesia (Federated States of)

POHNPEI INTL,POHNPEI ISLAND	PTPN	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	P
WENO ISLAND ,FM CHUUK INTL.	PTKK	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F
YAP INTL,YAP ISLAND	PTYA	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F

Mongolia

ULAANBAATAR	ZMUB	RS	ULAANBAATAR	ZMUB	Y	X	F
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Myanmar

YANGON INTERNATIONAL	VYYY	RS	YANGON INTERNATIONAL	VYYY	Y	T	F
Nauru							
NAURU I.	AUUU	RS	NAURU I.	AUUU	Y	T	F
Nepal							
KATHMANDU	VNKT	RS	KATHMANDU	VNKT	Y	T	F
New Caledonia (France)							
NOUMEA LA TONTOUTA	NWW	RS	NOUMEA LA TONTOUTA	NWWW	Y	T	F
New Zealand							
AUCKLAND INTL	NZAA	RS	WELLINGTON (AVIATION WEATHER CENTRE)	NZKL	Y	T	F
CHRISTCHURCH INTL	NZCH	RS	WELLINGTON (AVIATION WEATHER CENTRE)	NZKL	Y	T	F
WELLINGTON INTL	NZWN	RS	WELLINGTON (AVIATION WEATHER CENTRE)	NZKL	Y	T	F
Niue (New Zealand)							
NIUE INTL	NIUE	RS	NADI/INTL	NFFN		T	F
Northern Mariana Islands (United States)							
ANDERSON AFB,GUAM ISLAND	PGUA	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F
FRANCISCO C. ADA/SAIPAN INTERNATIONAL, OBYAN	PGSN	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F
GUAM INTERNATIONAL, GUAM ISLAND	PGUM	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		X	F
ROTA/INTL,ROTA I.	PGRO	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	P
Pakistan							
BENAZIR BHUTTO INTERNATIONAL AIRPORT	OPRN	RS	KARACHI/JINNAH INT'L	OPKC	Y	X	F
GWADAR/INTL.	OPGD	RS	KARACHI/JINNAH INT'L	OPKC		T	F
KARACHI/JINNAH INT'L	OPKC	RS	BINDO	OPBI		X	F
LAHORE/ALLAMA IQBAL INT'L	OPLA	RS	LAHORE/ALLAMA IQBAL INT'L	OPLA	Y	X	F
NAWABSHAH	OPNH	AS	LAHORE/ALLAMA IQBAL INT'L	OPLA		T	F
PESHAWAR/INTL.	OPPS	RS	LAHORE/ALLAMA IQBAL INT'L	OPLA		X	F
Palau							
BABELTHUAP/KOROR, BABELTHUAP ISLAND	PTRO	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F
Papua New Guinea							
PORT MORESBY INTL	AYPY	RS	PORT MORESBY INTL	AYPY		T	F
VANIMO	AYVN						F
Philippines							
DAVAO/FRANCISCO BANGYO INTL, DAVAO DEL SUR	RPMD	RNS	MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P
LAOAG, LAOAG INTL, ILOCOS	RPLI	AS	MANILA/NINYOY AQUINO INTL,	RPLL	Y	T	P

NORTE LAPU-LAPU/MACTAN, CEBU	RPVM	RS	PASAY CITY, METRO MANILA MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	X	F
MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	RS	MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	X	F
SUBIC BAY, SUBIC BAY INTL, OLONGAPO CITY, ZAMBALES	RPLB	RNS	MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P
ZAMBOANGA, ZAMBOANGA INTL, ZAMBOANGA DEL NORTE	RPMZ	RNS	MANILA/NINYOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P

Republic of Korea

CHEONGJU	RKTU	RS	INCHEON INTL	RKSI		T	F
DAEGU	RKTN	RS	INCHEON INTL	RKSI		T	F
GIMHAE INTL	RKPK	RS	INCHEON INTL	RKSI		T	F
GIMPO	RKSS	AS	INCHEON INTL	RKSI	Y	X	F
INCHEON INTL	RKSI	RS	INCHEON INTL	RKSI	Y	X	F
JEJU INTL	RKPC	RS	INCHEON INTL	RKSI		X	F
MUAN	RKJB	RS	INCHEON INTL	RKSI		X	F
YANGYANG	RKNY	RS	INCHEON INTL	RKSI		T	F

Singapore

PAYA LEBAR (RSAF)	WSAP	AS	SINGAPORE/CHANGI	WSSS		X	F
SELETAR	WSSL	RS	SINGAPORE/CHANGI	WSSS		X	F
SINGAPORE/CHANGI	WSSS	RS	SINGAPORE/CHANGI	WSSS	Y	X	F

Solomon Islands

HONIARA (HENDERSON)	AGGH	RS	PORT MORESBY INTL	AYPY	Y	T	F
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Sri Lanka

BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	RS	BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	Y	X	F
HIGURAKGODA/MINERIYA	VCCH						F

Thailand

BANGKOK/DON MUEANG INTL AIRPORT	VTBD	RS	BANGKOK/SUVARNABHUMI INTL AIRPORT	VTBS	Y	X	F
BANGKOK/SUVARNABHUMI INTL AIRPORT	VTBS	RS	BANGKOK/SUVARNABHUMI INTL AIRPORT	VTBS	Y	X	F
CHIANG MAI/CHIANG MAI INTL. AIRPORT	VTCC	RS	CHIANG MAI/CHIANG MAI INTL. AIRPORT	VTCC	Y	X	F
CHIANG RAI/CHIANG RAI INTL AIRPORT	VTCT	RS	CHIANG MAI/CHIANG MAI INTL. AIRPORT	VTCC	Y	T	F
KHON KAEN	VTUK	RS	UBON RATCHATHANI	VTUU		T	P
KRABI	VTSG	RS	PHUKET/PHUKET INTL AIRPORT	VTSP		T	F
PHITSANULOK	VTPP	RS	CHIANG MAI/CHIANG MAI INTL. AIRPORT	VTCC		T	P
PHUKET/PHUKET INTL AIRPORT	VTSP	RS	PHUKET/PHUKET INTL AIRPORT	VTSP	Y	X	F
RAYONG/U-TAPHAO INTL	VTBU	RS	RAYONG/U-TAPHAO INTL AIRPORT	VTBU		T	F
SONGKHLA/HAT YAI INTL	VTSS	RS	SONGKHLA/HAT YAI INTL AIRPORT	VTSS	Y	T	F
SURAT THANI	VTSB	RS	SONGKHLA/HAT YAI INTL AIRPORT	VTSS		T	P
UBON RATCHATHANI	VTUU	RS	UBON RATCHATHANI	VTUU	Y	T	F

Tonga

FUA'AMOTU INTL.	NFTF	RS	NADI/INTL	NFFN		T	F
VAVA'U	NFTV	RS	NADI/INTL	NFFN		T	F

Tuvalu

FUNAFUTI/INTL	NGFU	RS				T	F
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United States

ANCHORAGE/ELMENDORF AFB,AK.	PAED	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
COLD BAY,AK.	PACD	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
FAIRBANKS INTERNATIONAL, AK.	PAFA	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	X	F
FAIRBANKS/EIELSON AFB,AK.	PAEI	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
HILO INTERNATIONAL, HILO HI.	PHTO	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
HONOLULU INTERNATIONAL, OAHU, HI.	PHNL	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	X	F
KAHULUI, HI.	PHOG	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
KING SALMON,AK.	PAKN	AS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	T	F
TED STEVENS ANCHORAGE INTERNATIONAL, AK.	PANC	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	X	F

Vanuatu

PORT VILA/BAUERFIELD	NVVV	RS	PORT VILA/BAUERFIELD	NVVV	T	F
SANTO/PEKOA	NVSS	RS	PORT VILA/BAUERFIELD	NVVV	T	F

Viet Nam

DA NANG	VVDN	AS	DA NANG	VVDN	Y	T	F
HA NOI/NOI BAI	VVNB	RS	HA NOI/NOI BAI	VVNB	Y	T	F
HO CHI MINH/TAN SON NHAT	VVTS	RS	HO CHI MINH/TAN SON NHAT	VVTS	Y	X	F
HUE/PHU BAI	VVPB	RS	HUE/PHU BAI	VVPB	Y	T	F

Wallis and Futuna Islands (France)

WALLIS HIHIFO	NLWW	RS	NADI/INTL	NFFN	T	F
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FASID Table MET 1B

METEOROLOGICAL WATCH OFFICES

EXPLANATION OF THE TABLE

Column

1. Location of the meteorological watch office (MWO). Locations, other than aerodromes, where an MWO is to be established are shown in parentheses.
2. ICAO location indicator, assigned to the MWO.
3. Name of the FIR, UIR and/or search and rescue region (SRR) served by the MWO.
4. ICAO location indicator assigned to the ATS unit serving the FIR, UIR and/or SRR.
5. Remarks.

Note (1). — Unless otherwise stated in column 5, the MWO listed in column 1 is the designated collecting centre for the air-reports received within the corresponding FIR/UIR listed in column 3.

Note (2). — Non-implementation of a required MWO is a serious deficiency.

MWO Location	ICAO loc. ind.	Area served		Remarks
		Name	ICAO loc. ind.	
1	2	3	4	5
AFGHANISTAN				
KABUL AD	OAKB	Kabul FIR and SSR	OAKX	
AUSTRALIA				
ADELAIDE (REGIONAL FORECASTING CENTRE)	YPRM	Melbourne FIR ¹⁾	YMMM	MWOs have areas of responsibility (AOR) defined by specific forecast area boundaries. These boundaries are not aligned with FIR boundaries MWO Darwin is designated to issue VA SIGMET for the whole Brisbane and Melbourne FIR
BRISBANE (REGIONAL FORECASTING CENTRE)	YBRF	Brisbane FIR ²⁾	YBBB	
CAIRNS	YBCS	Brisbane FIR ³⁾	YBBB	
DARWIN (REGIONAL FORECASTING CENTRE)	YPDM	Brisbane FIR ⁴⁾ Melbourne FIR ⁵⁾	YBBB YMMM	
HOBART (REGIONAL FORECASTING CENTRE)	YMHF	Melbourne FIR ⁶⁾	YMMM	
MELBOURNE (WORLD MET CENTRE, BUREAU OF METEOROLOGY)	YMMC	Brisbane FIR Melbourne FIR	YBBB YMMM	
MELBOURNE (REGIONAL FORECASTING CENTRE)	YMRF	Brisbane FIR ⁷⁾ Melbourne FIR ⁸⁾	YBBB YMMM	
PERTH (REGIONAL FORECASTING CENTRE)	YPRF	Brisbane FIR ⁹⁾ Melbourne FIR ¹⁰⁾	YBBB YMMM	
SYDNEY (REGIONAL FORECASTING CENTRE)	YSRF	Brisbane FIR ¹¹⁾ Melbourne FIR ¹²⁾	YBBB YMMM	
BANGLADESH				
ZIA INTL.AIRPORT, DHAKA	VGZR	Dhaka FIR and SRR	VGFR	
CAMBODIA				
PHNOM PENH	VDPP	Phnom Penh FIR and SRR	VDPP	MWO not implemented, however, arrangement made for issuance of SIGMET by Kunming MWO
CHINA				
BEIJING/Capital	ZBAA	Beijing FIR and SRR	ZBPE	
GUANGZHOU/Baiyun	ZGGG	Guangzhou FIR and SRR	ZGZU	
KUNMING/Wujiaba	ZPPP	Kunming FIR and SRR	ZPKM	
LANZHOU/Zhongchuan	ZLLL	Lanzhou FIR and SRR	ZLHW	
HAIKOU/Meilan	ZJHK	Sanya FIR and SRR	ZJSA	
SHANGHAI/Hongqiao	ZSSS	Shanghai FIR and SRR	ZSHA	
SHENYANG/Taoxian	ZYTX	Shenyang FIR and SRR	ZYSH	
TAIBEI CITY/Taipei Intl AP	RCTP	Taipei FIR and SRR	RCAA*	
URUMQI/Diwopu	ZWWW	Urumqi FIR and SRR	ZWUQ	
WUHAN/Tianhe	ZHHH	Wuhan FIR and SRR	ZHWH	
HONG KONG/International	VHHH	Hong Kong FIR and SRR	VHHK	

MWO Location	ICAO loc. ind.	Area served		Remarks
		Name	ICAO loc. ind.	
1	2	3	4	5
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA				
SUNAN	ZKPY	Pyongyang FIR and SRR	ZKKP	
FIJI				
NADI/Intl	NFFN	Nadi FIR and SRR	NFFF	
FRENCH POLYNESIA				
TAHITI/Faaa	NAAA	Tahiti FIR and SRR	NTTT*	
INDIA				
CHENNAI	VOMM	Chennai FIR and SRR	VOMF	
DELHI/Indira Gandhi Intl	VIDP	Delhi FIR and SRR	VIDF	
KOLKATA/Kolkata	VECC	Kolkata FIR and SRR	VECF	
MUMBAI/Chhatrapati Shivaji Intl.	VABB	Mumbai FIR and SRR	VABF	
INDONESIA				
JAKARTA/Soekarno-Hatta (Comm Center)	WIII	Jakarta FIR/UIR and SRR	WIIF	
UJUNG PANDANG/Hasanuddin (Comm Center)	WAAA	Ujung Pandang FIR/UIR and SRR	WAAF	
JAPAN				
TOKYO (CITY)	RJTD	Fukuoka FIR and Tokyo SRR	RJJJ	
LAO PEOPLE'S DEMOCRATIC REPUBLIC				
VIENTIANE/Wattay	VLVT	Vientiane FIR and SRR	VLVT	MWO not implemented
MALAYSIA				
SEPANG/KL International Airport	WMKK	Kota Kinabalu FIR and SRR Kuala Lumpur FIR and SRR	WBFC WMFC	
MALDIVES				
MALE/Intl	VRMM	Male FIR and SRR	VRMF	
MONGOLIA				
ULAANBAATAR	ZMUB	Ulaanbaatar FIR and SRR	ZMUB	
MYANMAR				
YANGON INTERNATIONAL	VYYY	Yangon FIR and SRR	VYYY	
NAURU				
NAURU I.	AUUU	Nauru FIR and SRR	AUUU	MWO not implemented
NEPAL				
KATHMANDU	VNKT	Kathmandu FIR and SRR	VNSM	
NEW ZEALAND				
WELLINGTON (AVIATION WEATHER CENTRE)	NZKL	Auckland Oceanic FIR and SRR New Zealand FIR AND SRR	NZZO NZZC	
PAKISTAN				

MWO Location	ICAO loc. ind.	Area served		Remarks
		Name	ICAO loc. ind.	
1	2	3	4	5
KARACHI/Jinnah Int'l	OPKC	Karachi FIR and SRR	OPKR	
LAHORE/Allama Iqbal Int'l	OPLA	Lahore FIR and SRR	OPLR	
PAPUA NEW GUINEA				
PORT MORESBY INTL	AYPY	Port Moresby FIR and SRR	AYPY	
PHILIPPINES				
MANILA/Ninoy Aquino Intl, Pasay City, Metro Manila	RPLL	Manila FIR and SRR	RPHI	
REPUBLIC OF KOREA				
INCHEON	RKSI	Incheon FIR and SRR	RKRR	
SINGAPORE				
SINGAPORE/Changi	WSSS	Singapore FIR and SRR	WSJC	
SOLOMON ISLANDS				
HONIARA (ENDERSON)	AGGH	Honiara FIR and SRR	AGGG	MWO not implemented
SRI LANKA				
BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	Colombo FIR and SRR	VCBI	
THAILAND				
BANGKOK/Suvarnabhumi Intl Airport	VTBS	Bangkok FIR and SRR	VTBB	
UNITED STATES				
ANCHORAGE	PAWU	Anchorage FIR	PAZA	
HONOLULU	PHFO	Oakland Oceanic and Honolulu SRR.	KZOA	FIR South of 30N, East of 130E and West of 140W, Honolulu SRR
KANSAS CITY	KKCI	Oakland Oceanic FIR	KZOA	North of 30N of Oakland FIR South of 30N between 120W and 140W
VIET NAM				
GIA LAM	VVGL	Hanoi FIR and SRR Ho-Chi-Minh FIR and SRR	VVNB VVTS	

- 1) limited by the coordinates: 27S/128E;27S/135E;26S/138E; 2806S/14012E;29S/142E; 3414S/14205E;3345S/14045E; 40S/14045E;45S/14045E; 45S/129E;33S/129E;30S/129E; 2715S/12830E.
- 2) outside the AOR of YBTL MWO and limited by the coordinates: 0937S/14102E;0916S/14203E; 0913S/14206E;0911S/14214E; 0914S/14217E;0922S/14230E; 0922S/14230E;0923S/14236E; 0919S/14248E;0908S/14352E; 0924S/14414E;0957S/14405E; 1130S/14402E;1144S/14404E; 12S/144E;12S/155E;14S/155E; 14S/16115E;1740S/163E; 2830S/163E;2830S/155E; 2850S/15316E;29S/150E; 29S/14330E;26S/138E; 14S/138E;0937S/14102E.
- 3) limited by the coordinates: 26S/138E;29S/143E;29S/142E; 2806S/14012E;26S/138E.
- 4) limited by the coordinates: 1055S/12447E;0920S/12650E; 07S/135E;0950S/13940E; 0950S/141E;14S/138E; 18S/138E;2215S/138E; 26S/138E;2218S/13638E; 2128S/13609E;2111S/13134E; 2151S/13058E;2313S/12828E; 2322S/12629E;2327S/12415E; 2250S/12330E;2030S/12330E; 20S/129E;16S/12915E; 1528S/12806E;1450S/12825E; 14S/12730E;1345S/12609E; 14S/124E;1055S/12447E.
- 5) limited by the coordinates: 2250S/12330E;2327S/12415E; 2322S/12629E;2313S/12828E; 2151S/13058E;2111S/13134E; 2128S/13609E;2218S/13638E; 26S/138E;27S/135E; 2715S/12830E;25S/12815E; 25S/12330E;2250S/12330E.
- 6) limited by the coordinates: 40S/14045E;40S/143E; 3953S/14353E;4006S/14759E; 40S/150E;45S/150E; 45S/14045E;40S/14045E.
- 7) limited by the coordinates: 3730S/15033E;3730S/163E; 45S/163E;45S/150E; 4434S/150E;4351S/15040E; 43S/151E;3811S/15019E; 3730S/15033E.

- 8) limited by the coordinates: 3345S/14045E;3414S/14205E; 3510S/14728E;3730S/150E; 3730S/15033E;3811S/15019E; 43S/151E;4351S/15040E; 4434S/150E;40S/150E; 4006S/14759E;3953S/14353E; 40S/143E;40S/14045E; 3811S/14045E;3345S/14045E.
 - 9) limited by the coordinates: 2311S/12831E; 2313S/12827E; 2321S/12631E; 2326S/12414E; 2133S/12226E; 2015S/12113E; 1858S/1203E; 1752S/11821E; 148S/1158E; 12S/11430E; 12S/12319E; 12S/12320E; 1055S/12446E; 140S/1240E; 1345S/1268E; 140S/12730E; 1449S/12825E; 1528S/1286E; 16S/12915E; 20S/1290E;
 - 10) limited by the coordinates: 12S/11430E; 148S/1158E; 1752S/11821E; 1858S/1203E; 2015S/12113E; 2133S/12226E; 2326S/12414E; 2321S/12631E; 2313S/12827E; 2311S/12831E; 25S/12815E; 2715S/12830E; 30S/1290E; 50S/1290E; 50S/75E; 60S/75E; 20S/78E; 20S/92E; 12S/107E;
 - 11) limited by the coordinates: 29S/14632E;29S/150E; 2850S/15328E;2830S/155E; 2830S/163E;3730S/163E; 3730S/15033E 3657S/15045E; then east of the minor arc of a circle of 120NM radius centred on 3457S/15032E; 3519S/15256E;3421S/15140E; 3359S/15201E;3351S/15154E; 3328S/15148E;3315S/15126E; 3312S/15114E;3320S/15042E; 3327S/15033E;3206S/14850E; 29S/14632E.
 - 12) limited by the coordinates: 29S/142E;29S/14330E; 29S/14632E;3206S/14850E; 3327S/15033E;3320S/15042E; 3312S/15114E;3315S/15126E; 3328S/15148E;3351S/15154E; 3359S/15201E;3421S/15140E; 3519S/15256E; then east of the minor arc of a circle of 120NM radius centred on 3457S 15032E; 3657S/15045E;3730S/15033E; 3730S/150;3510S/14728E; 3414S/14205E;29S/142E.
 - 13) limited by the coordinates: 14S/138E;10S/141E;09S/142E; 09S/144E;13S/145E;15S/147E; 1817S/148E;2309S/15252E; 2334S/14811E;1818S/14332E; 18S/138E;14S/138E.
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FASID Table MET 3A

TROPICAL CYCLONE ADVISORY CENTRES

EXPLANATION OF THE TABLE

Column

1. Location of the tropical cyclon advisory centre (TCAC).
2. ICAO location indicator of TCAC (for use in the WMO heading of advisory bulletin).
3. Area of responsibility for the preparation of advisory information on tropical cyclones by the TCAC in column 1.
4. Period of operation of the TCAC.
5. MWOs to which the advisory information on tropical cyclones should be sent.
6. ICAO location indicator of the MWOs in Column 5.

Note. - MWOs in italics are situated outside the Asia/Pacific Region.

TROPICAL CYCLONE ADVISORY CENTRE	ICAO LOC. IND.	AREA OF RESPONSIBILITY	PERIOD OF OPERATION ²⁾	MWOs TO WHICH ADVISORY INFORMATION IS TO BE SENT	
				Name	ICAO LOC. IND.
1	2	3	4	5	6
Darwin (Australia)	YPDM	South-East Indian Ocean N: 0°S S: 36°S W: 90°E E: 141°E South-West Pacific Ocean N: 0°S S: 40°S W: 141°E E: 160°E	November – April	Adelaide ³⁾ Brisbane Colombo Darwin Hobart ³⁾ Honiara ⁴⁾ Jakarta Melbourne ³⁾ Perth Port Moresby Sydney ³⁾ Cairns ³⁾ Ujung Pandang Melbourne (World Met Centre, BoM) ³⁾	YPRM YBRF VOMM YDRM YMHF AGGH WIII YMRF YPRF AYPY YSRF YBCS WAAA YMMC
Honolulu (United States)	PHFO	Central Pacific: N: 60°N S: 0°N W: 180°W E: 140°W	May – November	<i>Anchorage</i> Honolulu <i>Kansas City</i> Tahiti	<i>PAWU</i> PHFO <i>KKCI</i> NTAA
Miami (United States)	KNHC	Eastern Pacific: N: 60°N S: 0°N W: 140°W E: Coastline	May – November	Honolulu <i>Kansas City</i> Tahiti	PHFO <i>KKCI</i> NTAA
Nadi (Fiji)	NFFN	Southern Pacific: N: 0°S S: 40°S W: 160°E E: 120°W	November – April	Brisbane Cairns ³⁾ Hobart ³⁾ Honiara ⁴⁾ Honolulu Melbourne ³⁾ Melbourne (World Met Centre, BoM) ³⁾ Nadi Nauru ⁴⁾ Sydney ³⁾ Tahiti Wellington (Aviation Weather Centre)	YBRF YBCS YMHF AGGH PHFO YMRF YMMC NFFN AUUU YSRF NTAA NZKL

TROPICAL CYCLONE ADVISORY CENTRE	ICAO LOC. IND.	AREA OF RESPONSIBILITY	PERIOD OF OPERATION ²⁾	MWOs TO WHICH ADVISORY INFORMATION IS TO BE SENT	
				Name	ICAO LOC. IND.
1	2	3	4	5	6
New Delhi (India)	VIDP	1) Bay of Bengal 2) Arabian Sea N: Coastline S: 5°N W: Coastline E: 100°E	April – June October – December	<i>Bahrain</i>	<i>OBBI</i>
				Chennai	VOMM
				Colombo	VCBI
				Dhaka	VGZR
				<i>Emirates</i>	<i>OMAE</i>
				Jakarta	WIII
				<i>Jeddah</i>	<i>OEJN</i>
				Karachi	OPKC
				Kuala Lumpur	WMKK
				<i>Kuwait</i>	<i>OKBK</i>
				Male	VRMM
				Mumbai	VABB
				<i>Muscat</i>	<i>OOMS</i>
				<i>Tehran</i>	<i>OIII</i>
				<i>Sana'a</i>	<i>OYSN</i>
Yangon	VYYY				
Réunion (France)	FMEE	Southwest Indian Ocean N: 0°S S: 40°S W: African Coastline E: 90°E	Throughout the year	<i>Antananarivo</i>	<i>FMMI</i>
				<i>Bloemfontein</i>	<i>FABL</i>
				Mumbai	VABB
				<i>Dar-es-Salaam</i>	<i>HTDA</i>
				<i>Durban</i>	<i>FADN</i>
				<i>Gaborone</i>	<i>FBSK</i>
				<i>Harare</i>	<i>FVHA</i>
				<i>Johannesburg</i>	<i>FAJS</i>
				<i>Lilongwe</i>	<i>FWLI</i>
				<i>Mahé</i>	<i>FSIA</i>
				Male	VRMM
				<i>Maputo</i>	<i>FQMA</i>
				<i>Mauritius</i>	<i>FIMP</i>
				Melbourne (World Met Centre, BoM) ³⁾	YMMC
				<i>Nairobi</i>	<i>HKJK</i>
Perth	YPRF				

TROPICAL CYCLONE ADVISORY CENTRE	ICAO LOC. IND.	AREA OF RESPONSIBILITY	PERIOD OF OPERATION ²⁾	MWOs TO WHICH ADVISORY INFORMATION IS TO BE SENT	
				Name	ICAO LOC. IND.
1	2	3	4	5	6
Tokyo (Japan)	RJTD	Western Pacific (incl. South China Sea) N: 60°N S: 0°N W: Coastline E: 180°E		Bangkok Beijing Gia Lam Guangzhou Haikou Hong Kong Honolulu Incheon Jakarta <i>Kansas City</i> Kuala Lumpur Manila Nadi Phnom-Penh ⁵⁾ Shanghai Singapore Sunan Taibei Tokyo Ujung Pandang	VTBS ZBAA VVGL ZGGG ZJHK VHHH PHFO RKSI WIII <i>KMCK</i> WMKK RPLL NFFN VDPP ZSSS WSSS ZKPY RCTP RJTD WAAA

NOTES:

- 1) Co-ordinates of the area of responsibility of the Nadi Tropical Cyclone Advisory Centre to be confirmed.
- 2) Indicates approximately the main seasons for tropical cyclones.
- 3) Tropical cyclone SIGMET for the Australian FIRs is issued by MWOs: Brisbane, Darwin and Perth.
- 4) MWO not implemented.
- 5) MWO not implemented, however, arrangement made for issuance of SIGMET by Kunming MWO

FASID Table MET 3B

VOLCANIC ASH ADVISORY CENTRES

EXPLANATION OF THE TABLE

Column

1. Name of the volcanic ash advisory centre (VAAC).
2. ICAO location indicator of VAAC (for use in the WMO heading of advisory bulletin).
3. Area of responsibility for the preparation of advisory information on volcanic ash by the VAAC in column 1.
4. ICAO Contracting State where the MWOs and ACCs/FICs are located.
5. ICAO region where the MWOs and ACCs are located.
6. MWOs to which the information on volcanic ash should be sent.
7. ICAO location indicator of the MWOs in column 6.
8. ACCs to which the information on volcanic ash should be sent.
9. ICAO location indicator of the ACCs in column 8.

Note: MWOs and ACCs in italics are situated outside the ASIA/PAC Region

VAAC		AREA OF RESPONSIBILITY	STATE	ICAO REGION	MWOs TO WHICH INFORMATION IS TO BE SENT		ACC/FIC TO WHICH INFORMATION IS TO BE SENT	
NAME	ICAO LOC. IND.				Name	ICAO LOC. IND.	Name	ICAO LOC. IND.
1	2	3	4	5	6	7	8	9
Anchorage (United States)	PAWU	Anchorage Oceanic Anchorage Continental Anchorage Arctic and west to E150, north of N60	China	APAC	Haikou/Meilan	ZJHK	Sanya	ZJSA
			Russian Federation	EUR	Anadyr	UHMA	Anadyr Shmidta Cape	UHMA UHMI
					Chersky	UESS	Chersky	UESS
					Chokurdakh	UESO	Chokurdakh	UESO
					Magadan	UHMM	Magadan	UHMM
					Tiksi	UEST	Tiksi	UEST
					Zyryanka	UESU	Zyryanka	UESU
			USA	NAM	Anchorage	PAWU	Anchorage	PAZA
Kansas City	KKCI	Kansas City	KKCI					
Darwin (Australia)	YPDM	Southward from N10 and from E100 to E160 and the Melbourne FIR between E100 and E75, Colombo FIR and those parts of the Kuala Lumpur, Bangkok, Chennai, Yangan and Kolkata FIRs lying within N10 E100 to N20 E100 to N20 E82 to N10 E82 to N6 E78 to S2 E78 to S6 E75	Australia	APAC	Adelaide ³⁾	YPRM	Adelaide	YPAD
			Thailand	APAC	Bangkok	VTBS	Bangkok	VTBB
			Australia	APAC	Brisbane ³⁾	YBRF	Brisbane Cairns	YBBN YBCS
			Australia	APAC	Cairns ³⁾	YBCS	Townsville	YBTL
			India	APAC	Chennai	VOMM	Chennai	VOMF
			Australia	APAC	Darwin	YDRM	Darwin	YPDN
			Viet Nam	APAC	Gia Lam	VVGL	Hanoi Ho-Chi-Minh	VVNB VVTS
			Australia	APAC	Hobart ³⁾	YMHF	Hobart	YMHB
			Solomon I.	APAC	Honiara ¹⁾	AGGH	Honiara	AGGH
			Indonesia	APAC	Jakarta	WIII	Jakarta	WIIF
			Malaysia	APAC	Kuala Lumpur	WMKK	Kota Kinabalu Kuala Lumpur	WBFC WMFC
			Philippines	APAC	Manila	RPLL	Manila	RPHI
			Australia	APAC	Melbourne (World Met Centre, BoM)	YMMC	Melbourne	YMMM
			Australia	APAC	Melbourne ³⁾	YMRF	Melbourne	YMMM
			Australia	APAC	Perth ³⁾	YPRF	Perth	YPPH
			Papua New Guinea	APAC	Port Moresby	AYPY	Port Moresby	AYPM
			Singapore	APAC	Singapore	WSSS	Singapore	WSJC
			Australia	APAC	Sydney ³⁾	YSRF	Sydney	YSSY
Indonesia	APAC	Ujung Pandang	WAAA	Ujung Pandang	WAAF			
Myanmar	APAC	Yangon	VYYY	Yangon	VYYY			

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1	2	3	4	5	6	7	8	9
Tokyo (Japan)	RJTD	N60 to N10 – and from E90 to Oakland Oceanic and Anchorage Oceanic and Continental FIR boundaries minus the region bounded by N10, N20, E90 and E100	Russian Federation	EUR	<i>Artiom (Vladivostok)</i>	<i>UHWW</i>	<i>Vladivostok</i>	<i>UHWW</i>
			Thailand	APAC	Bangkok	VTBS	Bangkok	VTBB
			Russian Federation	EUR	<i>Blagoveshchensk</i>	<i>UHBB</i>	<i>Blagoveshchensk</i>	<i>UHBB</i>
			China	APAC	Beijing	ZBAA	Beijing Huhhot Taiyuan	ZBPE ZBHH ZBYN
			Russian Federation	EUR	<i>Chita</i>	<i>UIAA</i>	<i>Chita</i>	<i>UIAA</i>
			Russian Federation	EUR	<i>Chulman (Nerungri)</i>	<i>UELL</i>	<i>Chulman</i>	<i>UELL</i>
			Viet Nam	APAC	Gia Lam	VVGL	Hanoi Ho-Chi-Minh	VVNB VVTS
			China	APAC	Guangzhou	ZGGG	Guangzhou Changsha Guilin Nanning	ZGZU ZGCS ZGKL ZGNN
			China	APAC	HAIKOU/Meilan	ZJHK	Sanya	ZJSA
			China	APAC	Hong Kong	VHHH	Hong Kong	VHHK
			Republic of Korea	APAC	Incheon	RKSI	Incheon	RKRR
			Russian Federation	EUR	<i>Irkutsk</i>	<i>UIII</i>	<i>Irkutsk</i>	<i>UIII</i>
			Russian Federation	EUR	<i>Khabarovsk</i>	<i>UHHH</i>	<i>Khabarovsk</i>	<i>UHHH</i>
			China	APAC	Kunming	ZPPP	Kunming Chengdu Chongqing	ZPKM ZUDS ZUCK
			China	APAC	Lanzhou	ZLLL	Lanzhou Xi'an	ZLAN ZLSN
			Russian Federation	EUR	<i>Magadan</i>	<i>UHMM</i>	<i>Magadan</i>	<i>UHMM</i>
			Philippines	APAC	Manila	RPLL	Manila	RPHI
			Cambodia	APAC	Phnom Penh ²⁾	VDPP	Phnom-Penh	VDPP
			DPR Korea	APAC	Sunan	ZKPY	Pyongyang	ZKKP
China	APAC	Shanghai	ZSSS	Shanghai Hefei Jinan Nanchang Nanjing Xiamen Qingdao	ZSHA ZSOF ZSTN ZSCN ZSNJ ZSAM ZSQD			

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Washington (United States)	KNES	Oakland Oceanic FIR	USA	NAM	Honolulu Kansas City	PHFO KKCI	Oakland	KZOA
							Guam	PGZU
			Fiji	APAC	Nadi	NFFF	Nadi	NFFF
Wellington (New Zealand)	NZKL	Southward from the Equator and from E160 to W140 ⁴⁺	Australia	APAC	Brisbane ³⁾	YBRF	Brisbane	YBBN
			Australia	APAC	Darwin	YDRM	Darwin	YPDN
			USA	APAC	Honolulu	PHFO	Oakland	KZOA
			Solomon I.	APAC	Honiara ¹⁾	AGGH	Honiara	AGGH
			Australia	APAC	Melbourne ³⁾	YMRF	Melbourne	YMMM
			Fiji	APAC	Nadi	NFFN	Nadi	NFFF
			Nauru	APAC	Nauru ¹⁾	ANAU	Nauru	ANAU
			Australia	APAC	Sydney ³⁾	YSRF	Sydney	YSSY
			French Polynesia	APAC	Tahiti	NTAA	Tahiti	NTTT
New Zealand	APAC	Wellington (Aviation Weather Centre)	NZKL	Auckland Christchurch	NZZO NZZC			

Notes: –

1) MWO not implemented.

2) MWO not implemented, however, arrangement made for issuance of SIGMET by Kunming MWO.

3) MWO Darwin is designated to issue VA SIGMET for Brisbane and Melbourne FIRs.