International Civil Aviation Organization

FOURTEENTH MEETING OF THE COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND METEOROLOGY SUB-GROUP OF APANPIRG (CNS/MET SG/14)

Jakarta, Indonesia, 19 – 22 July 2010

Agenda Item 13: Review of regional procedures contained in the ANP/FASID

REVIEW MET PART OF ASIA/PAC BASIC ANP AND FASID TABLES

(Presented by the Secretariat)

SUMMARY

This paper provides the meeting an opportunity to review and update the MET part of the ASIA/PAC Basic Air Navigation Plan (ANP) and FASID Tables.

This paper relates to:

Strategic Objectives:
A: Safety – Enhance global civil aviation safety
D: Efficiency – Enhance the efficiency of aviation operations

Global Plan Initiatives:
GPI/19 – Meteorological Systems

1. Introduction

1.1 Maintaining the Basic ANP and associated FASID Tables MET has many purposes which include: (1) regional planning by operators, (2) measurement of implementation which allows for proper focus in implementation strategies by many entities (Operations, States and ICAO); and (3) input to cost-recovery of MET Services provided for international aviation. Therefore, an annual review of the latest Basic ANP and FASID Tables MET is strongly encouraged.

2. Discussion

Recent updates

2.1 Several amendment proposals to the MET part of the ASIA/PAC Basic Air Navigation Plan (ANP) and FASID Tables were approved in 2009 and early 2010 that included the following main points:

- updated 30-hour TAF requirements provided by IATA
- the addition of Afghanistan due to accreditation to the region
- addition of VAAC Toulouse since 11 Meteorological Watch Offices in the western part of the Region receive volcanic ash advisories from VAAC Toulouse

- enabling of the public Internet in the retrieval of non-time critical OPMET data

- added cumulonimbus clouds, icing, and clear-air and in-cloud turbulence to the list of forecasts required in GRIB code form (became available by the end of 2009)

- reference to ROBEX HB and ICD for OPMET exchange in the region
  - removal of FASID Tables MET 4A, 4B and 4C

- removal of FASID Table MET 6 due to redundant information in global documents

- reference to SADIS and ISCS links for authorized users in the Region
  - removal of FASID Table MET 7

- guidance material on volcanic ash, radioactive material and toxic chemical clouds were referenced (Doc 9766 and 9691)

- plethora of State input in the provision of MET services in the Region

The latest ASIA/PAC Basic ANP and FASID is provided in **Attachment 1** and can also be accessed at http://www.bangkok.icao.int/edocs/index.html.

Future updates

2.2 Routine voice reporting of weather by aircraft will no longer be required (18 November 2010) which is associated with Amendment 75 to Annex 3. Therefore, Part VI (MET) of the Basic Air Navigation Plan and Part VI (MET) introduction text of the FASID will be updated in accordance with Annex 3. This amendment proposal is anticipated before the later summer/fall 2010.

2.3 Furthermore, FASID Table MET 3B and Chart MET 2 reflecting the increase in area of coverage of VAAC Wellington (IAVWOPSG/5 C5/4 refers) was updated and States notified accordingly (State letter sent 30 June 2010).

2.4 The ICAO Regional Office (RO) Air Traffic Management (ATM) has raised the issue that FASID Table ATS 2 in **Attachment 2**, HF Radiotelephony VOLMET broadcasts be maintained by MET versus the current maintenance by Air Traffic Service (ATS). Requirements for VOLMET are contained in Annex 3, Meteorological Service for International Air Navigation. Historically, this table is maintained by ATS since this is considered an air traffic service. This proposal would impact the maintenance of the FASID Table ATS 2 in all regions where applicable and thus would be subject to consideration by ICAO. Given the aforementioned, the following draft Conclusion is formulated for consideration by the CNS/MET SG/14 meeting.

Draft Conclusion 14/xx — Transfer FASID Table ATS 2 from ATS to MET

That, ICAO consider the transfer of responsibility of FASID Table ATS 2, HF Radiotelephony VOLMET broadcasts, from ATS to MET, which would involve moving the tables related to VOLMET broadcasts from the ATS part to the MET part of all ANP/FASID where applicable.

SUPPs

2.5 Current weather reporting for aircraft detailed in Chapter 12 of the SUPPs (Doc 7030) has been updated by a consequential amendment internal to ICAO Headquarters as a result of Amendment 75 (routine voice reporting of weather by aircraft will no longer be required). Furthermore, an amendment to the SUPPs in the ASIA and MID Regions to reflect current practices in the Region in terms of procedures in reporting weather information by aircraft (obsolete procedures proposed to be removed) is expected. As a result, Chapter 12 of the SUPPs for ASIA/MID will no longer contain text.

3. Action required by the Meeting

3.1 The meeting is invited to

a) review the Basic ANP and FASID Tables MET and provide input if necessary; and

b) consider adopting the draft conclusion.

– – – – – – – – – – – –

PART VI

METEOROLOGY (MET)

INTRODUCTION

1. This part of the Asia and Pacific (ASIA/PAC) Basic Air Navigation Plan contains elements of the existing planning system and introduces the basic planning principles, operational requirements and planning criteria related to aeronautical meteorology (MET) as developed for the ASIA/PAC regions.

2. As a complement to the Statement of Basic Operational Requirements and Planning Criteria (BORPC) set out in Part I, Part VI constitutes the stable guidance material and considered to be the minimum necessary for effective planning of MET facilities and services in the ASIA/PAC regions. A detailed description/list of the facilities and/or services to be provided by States in order to fulfill the requirements of the plan is contained in the ASIA/PAC Facilities and Services Implementation Document (FASID). During the transition and pending full implementation of the future communications, navigation and surveillance/air traffic management (CNS/ATM) system, it is expected that the existing requirements will gradually be replaced by new CNS/ATM-related requirements. Further, it is expected that some elements of the CNS/ATM system will be subject to amendment, as necessary, on the basis of experience gained in their implementation.

3. The Standards, Recommended Practices and Procedures to be applied are contained in:

a) Annex 3 — *Meteorological Service for International Air Navigation*; and

b) *Regional Supplementary Procedures* (Doc 7030).

4. Background information of importance in the understanding and effective application of this part of the plan is contained in the *Report of the Third Asia/Pacific Regional Air Navigation Meeting* (Doc 9614, ASIA/PAC/3 (1993)), supplemented by information appropriate to the ASIA/PAC regions which is contained in the reports of the other regional air navigation (RAN) meetings.

5. A RAN meeting recommendation or conclusion, ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG) conclusion or ICAO operations group conclusion shown in brackets below a heading indicates the origin of all paragraphs following that heading. A RAN meeting recommendation or conclusion, APANPIRG conclusion or ICAO operations group conclusion shown in brackets below a paragraph indicates the origin of that particular paragraph.

METEOROLOGICAL SERVICE REQUIRED AT AERODROMES AND REQUIREMENTS FOR METEOROLOGICAL WATCH OFFICES

(FASID Tables MET 1A and MET 1B)

6. The service to be provided at international aerodromes listed in the Appendix to Part III of the Basic ANP is set out in FASID Table MET 1A.
[ASIA/PAC/3, Recs. 8/1 and 8/16]

7. The service to be provided for flight information regions (FIRs), upper flight information regions (UIRs), control areas (CTAs) and search and rescue regions (SRRs) is set out in FASID Table MET 1B.
[ASIA/PAC/3, Recs. 8/2 and 8/16]

8. Hourly routine observations should be made at all aeronautical meteorological stations, to be issued as local routine reports and METAR, together with special observations to be issued as local special reports and SPECI. [ASIA/PAC/3, Rec. 8/16]

9. TAF should be issued, at intervals of six hours, with the period of validity beginning at one of the main synoptic hours (00, 06, 12, 18 UTC). The period of validity should be of 24 or 30 hours to meet the requirements indicated in FASID Table MET 1A. The filing time of the TAF bulletins should be one hour before the start of the period of validity.
[APANPIRG/19 Con. 19/46]

10. The forecast maximum and minimum temperature together with their respective times of occurrence should be included in TAF for certain aerodromes as agreed between the meteorological authorities and the operators concerned.
[ASIA/PAC/3, Rec. 8/16]

11. Trend forecasts should be provided at the aerodromes as indicated in FASID Table MET 1A.
[ASIA/PAC/3, Recs. 8/1 and 8/16]

12. Meteorological service should be provided on a twenty-four hour basis, except as otherwise agreed between the meteorological authority, the air traffic services (ATS) authority and the operators concerned.
[ASIA/PAC/3, Rec. 8/16]

13. At aerodromes with limited hours of operation, METAR should be issued prior to the aerodrome resuming operations to meet pre-flight and in-flight planning requirements for flights due to arrive at the aerodrome concerned as soon as it is opened for use. Furthermore, TAF should be issued with adequate periods of validity so that they cover the entire period during which the aerodrome is open for use.
[ASIA/PAC/3, Rec. 8/16]

14. When a meteorological watch office (MWO) is temporarily not functioning or is not able to meet all its obligations, its responsibilities should be transferred to another MWO and a NOTAM should be issued to indicate such a transfer and the period during which the office is unable to fulfil all its obligations.
[ASIA/PAC/3, Rec. 8/16]

15. Details of the service provided should be indicated in the Aeronautical Information Publication (AIP) in accordance with the provisions of Annex 15.
[ASIA/PAC/3, Rec. 8/16]

16. As far as possible, English should be among the languages used in meteorological briefing and consultation. [ASIA/PAC/3, Rec. 8/16]

17. FASID Tables MET 1A and MET 1B should be implemented as soon as possible. The implementation of a new MWO or changes to the area served by existing MWO indicated in FASID Table MET 1B, should take place coincidently with the implementation of, or changes to, the FIR/UIR/CTA/SRR concerned.
[ASIA/PAC/3, Rec. 8/16]

AIRCRAFT OBSERVATIONS AND REPORTS
(FASID Table MET 1B)

18. The meteorological authority should adopt the approved list of ATS/MET reporting points, as it relates to points located within and on the boundaries of the FIR for which the State is responsible. Those ATS/MET reporting points should be published in the AIP, under GEN 3.5.6 — Aircraft reports, of the State concerned.
[ASIA/PAC/3, Rec. 8/16]

Note.— The approved list of ATS/MET reporting points is published and kept up to date by the ICAO Regional Office concerned, on the basis of consultations with ATS and MET authorities in each State and the provisions of Annex 3 in this respect.

19. The MWOs designated as collecting centres for air-reports received by voice communication with the corresponding FIR/UIR are shown in FASID Table MET 1B.

SIGMET AND AIRMET INFORMATION
(FASID Tables MET 3A, MET 3B and MET 3C)

20. Tropical cyclone advisory centres (TCACs) Darwin, Honolulu, Miami, Nadi, New Delhi, Réunion and Tokyo have been designated to prepare advisory information. FASID Table MET 3A sets out the area of responsibility, the period(s) of operation of the TCAC(s) and the MWOs to which the advisory information should be sent.
[IAVWOPSG Conclusion 3/2]

21. Volcanic ash advisory centres (VAACs) Anchorage, Darwin, Tokyo, Toulouse, Washington and Wellington have been designated to prepare advisory information. FASID Table MET 3B sets out the area of responsibility of the VAACs, the MWOs and ACCs to which the advisory information should be sent.
[IAVWOPSG Conclusion 3/2]

22. In order for the VAACs to initiate the monitoring of volcanic ash from satellite data and the forecast of volcanic ash trajectories, MWOs should notify the relevant VAAC immediately on receipt of information that a volcanic eruption has occurred or volcanic ash has been observed in the FIR for which they are responsible. In particular, any special air-reports of pre-eruption volcanic activity, a volcanic eruption or volcanic ash cloud received by MWOs should be transmitted without delay to the VAAC concerned. Selected State volcano observatories have been designated for direct notification of significant pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash in the atmosphere to their corresponding ACC, MWO and VAAC. FASID Table MET 3C sets out the selected State volcano observatories and the VAACs, MWOs and ACCs to which the notification should be sent by the observatories.
[IAVWOPSG Conclusion 2/2]

23. AIRMET messages are not required to be issued by MWOs.
[APANPIRG/7, Conc. 7/22]

EXCHANGE OF OPERATIONAL METEOROLOGICAL (OPMET) INFORMATION

(FASID Tables MET 2A, ROBEX Handbook and Asia/Pacific OPMET data banks interface control document)

Exchange of METAR, SPECI and TAF

24. The ROBEX Handbook set out the Regional OPMET Bulletin Exchange (ROBEX) Scheme for the collection and dissemination of METAR, SPECI, air-reports (AIREP) and TAF. These tables contain information regarding the designated ROBEX centres and their respective areas of responsibility.
[APANPIRG/20, Conc. 20/65]

25. The ROBEX Handbook should be updated, as necessary, by the ICAO Asia and Pacific Regional Office (Bangkok) in coordination with the ICAO Middle East Regional Office (Cairo) on the basis of changes in the pattern of aircraft operations, the Statement of Basic Operational Requirements and Planning Criteria and in consultation with those States and international organizations directly concerned.
[APANPIRG/20, Conc. 20/65]

26. Requirements for METAR, SPECI and TAF not carried on the ROBEX Scheme which should be available at meteorological offices are contained in FASID Table MET 2A. This table should be updated, as necessary, by the ICAO Regional Office on the basis of changes in the pattern of aircraft operations, the Statement of Basic Operational Requirements and Planning Criteria, and in consultation with those States and international organizations directly concerned.
[ASIA/PAC/3, Recs. 9/1 and 9/8]

27. The exchanges indicated in FASID Table MET 2A should be implemented as soon as possible, but only for those related to current aircraft operations. New exchanges should be started coincidently with the introduction of new aircraft operations. Any changes in this respect (i.e. additional OPMET information needed or OPMET information no longer required) should be notified to the corresponding meteorological authority which, in turn, should inform the ICAO Regional Offices concerned.
[ASIA/PAC/3, Rec. 9/8]

OPMET data banks to support the ROBEX Scheme

28. The OPMET data banks in Bangkok, Brisbane, Nadi, Singapore and Tokyo have been designated to support the ROBEX scheme and serve States in the ASIA/PAC regions to access OPMET information which is required but not received. The Asia/Pacific OPMET data banks interface control document sets out the responsibilities of the ASIA/PAC OPMET data banks for collection and dissemination of OPMET bulletins together with procedures to be used in communicating with the data banks to support the ROBEX Scheme. The Asia/Pacific OPMET data banks interface control document is maintained by the ICAO Asia and Pacific Regional Office (Bangkok) in coordination with the regional OPMET data banks.
[APANPIRG/20, Conc. 20/66]

Exchange of SIGMET information and air-reports

29. Each MWO should arrange for the transmission to all aerodrome meteorological offices within its associated FIR of its own SIGMET messages and relevant SIGMET messages for other FIR, as required for briefing and, where appropriate, for flight documentation.
[ASIA/PAC/3, Rec. 8/16]

30. Each MWO should arrange for the transmission to its associated ACC/FIC of SIGMET information and special air-reports received from other MWOs.

31. Each MWO should arrange for the transmission of routine air-reports received by voice communication to all meteorological offices within its associated FIR. Special air-reports which do not warrant the issuance of a SIGMET should be disseminated by MWOs in the same way as SIGMET messages.

Note.— Details of the procedures regarding the exchange of SIGMET information required by FASID Table MET 1B are provided in the ASIA/PAC SIGMET Guide *prepared by the ICAO Asia and Pacific Regional Office, Bangkok.*

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

32. FASID Table MET 5 sets out the ASIA/PAC Regions requirements for WAFS forecasts to be provided by WAFC London and WAFC Washington.
[WAFSOPSG Conclusion 1/2]

33. For back-up purposes, each WAFC should have the capability to produce WAFS forecasts for all the required areas of coverage.
[WAFSOPSG Conclusion 5/2]

34. WAFS forecasts should be disseminated by WAFC London using the satellite distribution system for information relating to air navigation (SADIS) and by WAFC Washington using the international satellite communications system (ISCS2) covering the reception areas shown in the *Manual of Aeronautical Meteorological Practice* (Doc 8896) Figures A1-2 and A1-3 or using the SADIS FTP or ISCS FTP service.
[WAFSOPSG Conclusion 5/2]

35. Each State should make the necessary arrangements to receive and make full operational use of WAFS forecasts disseminated by WAFC London and WAFC Washington. The lists of the authorized users of the SADIS and ISCS2 satellite broadcasts in the ASIA/PAC regions and location of the operational VSATs are available from the following websites: www.icao.int/anb/sadisopsg (click: "Status of implementation") for SADIS www.weather.gov/iscs (click: "Documents" and "Status of implementation of ISCS listed by ICAO regions") for ISCS.
[WAFSOPSG Conclusion 5/2]

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.

International Civil Aviation Organization

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 to 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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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/BAIYUN	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/BAIYUN	ZGGG	RS	GUANGZHOU/BAIYUN	ZGGG	Y	X	F
GUILIN/LIANJIANG	ZGKL	RS	GUANGZHOU/BAIYUN	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	ZSJN	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/BAIYUN	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/BAIYUN	ZGGG		X	F
TAIBEI CITY/TAIBEI INTL AP	RCTP	RS	TAIBEI CITY/TAIBEI INTL AP	RCTP	Y	X	F

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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/BAIYUN	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 AIRPORT, DEVENAHALLI, BANGALORE	VOBL	RS	BANGALORE INTERNATIONAL AIRPORT, DEVENAHALLI, BANGALORE	VOBL	Y	X	F
CALICUT	VOCL	RS	THIRUVANANTHAPURAM	VOTV		X	F

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
CHENNAI	VOMM	RS	CHENNAI	VOMM	Y	X	F
COCHIN INTERNATIONAL AIRPORT	VOCI	RS	THIRUVANANTHAPURAM	VOTV	Y	X	F
COIMBATORE	VOCB	RS	CHENNAI	VOMM		T	F
DELHI (IGI)	VIDP	RS	DELHI (IGI)	VIDP	Y	X	F
GAYA	VEGY	RS	PATNA	VEPT		T	F
GUWAHATI	VEGT	RS	GUWAHATI	VEGT	Y	T	F
HYDERABAD INTERNATIONAL AIRPORT (RAJIV GANDHI INTERNATIONAL AIRPORT SHAMSHABAD, HYDERABD)	VOHS	RS	HYDERABAD INTERNATIONAL AIRPORT (RAJIV GANDHI INTERNATIONAL AIRPORT SHAMSHABAD, HYDERABD)	VOHS	Y	T	F
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 INTERNATIONAL AIRPORT, DEVENAHALLI, BANGALORE	VOBL		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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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
Macao, China (China)							
MACAOU INTERNATIONAL	VMMC	RS	MACAOU INTERNATIONAL	VMMC	Y	X	F
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
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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
YAP INTL,YAP ISLAND	PTYA	RS	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC		T	F
Mongolia							
ULAANBAATAR	ZMUB	RS	ULAANBAATAR	ZMUB	Y	X	F
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	NWWW	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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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 BANGOY INTL, DAVAO DEL SUR	RPMD	RNS	MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P
LAOAG, LAOAG INTL, ILOCOS NORTE	RPLI	AS	MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P
LAPU-LAPU/MACTAN, CEBU	RPVM	RS	MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	X	F
MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	RS	MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	X	F

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
SUBIC BAY,SUBIC BAY INTL, OLONGAPO CITY, ZAMBALES	RPLB	RNS	MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA	RPLL	Y	T	P
ZAMBOANGA, ZAMBOANGA INTL, ZAMBOANGA DEL NORTE	RPMZ	RNS	MANILA/NINOY 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
Sri Lanka							
HINGURAKGODA/MINERIYA	VCCH						F
KATUNAYAKE/BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	RS	KATUNAYAKE/BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	Y	X	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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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 AIRPORT	VTBU	RS	RAYONG/U-TAPHAO INTL AIRPORT	VTBU		T	F
SONGKHLA/HAT YAI INTL AIRPORT	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
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

MET 1A - ASIAPAC

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
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

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.

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 [13)]	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/Taibei Intl AP	RCTP	Taibei 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	NTAA	Tahiti FIR and SRR	NTTT*	
INDIA				
CHENNAI	VOMM	Chennai FIR and SRR	VOMF	
DELHI/Indira Ghandi 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 (HENDERSON)	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.

International Civil Aviation Organization

FASID TABLE MET 2A

OPMET INFORMATION (METAR, SPECI AND TAF)
REQUIRED IN ISCS AND SADIS

EXPLANATION OF THE TABLE

Column

1 Aerodromes in the AOP Tables of the Air Navigation Plans

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 Aerodromes not listed in the AOP Tables of the Air Navigation Plans

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.

3 Location indicator

4 Availability of METAR/SPECI

5 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)

6 Availability of OPMET information

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 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
Afghanistan					
KABUL AD		OAKB	Y	T	F
KANDAHAR		OAKN	Y	T	F
American Samoa (United States)					
PAGO PAGO INTERNATIONAL,TUTUILA I.		NSTU	Y	T	F
Australia					
ADELAIDE/ADELAIDE INTL		YPAD	Y	X	F
ALICE SPRINGS		YBAS	Y	T	F
	AMBERLEY	YAMB	Y	T	F
	AVALON	YMAV	Y	T	F
BRISBANE/BRISBANE INTL		YBBN	Y	X	F
	BROOME/BROOME INTL	YBRM	Y	T	F
CAIRNS/CAIRNS INTL		YBCS	Y	T	F
	CANBERRA	YSCB	Y	T	F
CHRISTMAS ISLAND		YPXM	Y	T	F
COCOS (KEELING) ISLAND INTL		YPCC	Y	T	F
	COFFS HARBOUR	YCFS	Y	T	F
	CURTIN	YCIN	Y	T	F
DARWIN/DARWIN INTL		YPDN	Y	X	F
	DUBBO	YSDU	Y	T	F
	FORREST	YFRT	Y	T	F
	GOLD COAST	YBCG	Y	T	F
HOBART		YMHB	Y	T	F
	HORN ISLAND	YHID	Y	T	F
	KALGOORLIE-BOULDER	YPKG	Y	T	F
	LAUNCESTON	YMLT	Y	T	F
	LEARMONTH	YPLM	Y	T	F
MELBOURNE/MELBOURNE INTL		YMML	Y	X	F
NORFOLK ISLAND		YSNF	Y	T	F
	PEARCE	YPEA	Y	T	F
PERTH/PERTH INTL		YPPH	Y	X	F
PORT HEDLAND		YPPD	Y	T	F
	RICHMOND (NSW)	YSRI	Y	T	F
ROCKHAMPTON		YBRK	Y	T	F
SYDNEY/SYDNEY (KINGSFORD SMITH) INTL		YSSY	Y	X	F
TINDAL		YPTN	Y	T	F
TOWNSVILLE/TOWNSVILLE INTL		YBTL	Y	T	F
	WILLIAMTOWN	YWLM	Y	T	F
	WOOMERA	YPWR	Y	T	F
Bangladesh					

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
M.A. HANNAN INTL. CHITTAGONG		VGEG	Y	T	F
ZIA INTL.AIRPORT,DHAKA		VGZR	Y	X	F
Bhutan					
PARO/INTL		VQPR	Y		F
Brunei Darussalam					
BRUNEI/INTL		WBSB	Y	T	F
Cambodia					
PHNOM PENH		VDPP	Y	T	P
SIEM REAP		VDSR	Y	T	P
Chile					
ISLA DE PASCUA/AD MATAVERI		SCIP	Y	T	P
China					
BEIJING/CAPITAL		ZBAA	Y	X	F
	CHANGCHUN/LONGJIA	ZYCC	Y	T	F
CHANGSHA/HUANGHUA		ZGHA	Y	T	F
CHENGDU/SHUANGLIU		ZUUU	Y	T	F
CHONGQING/JIANGBEI		ZUCK	Y	T	F
DALIAN/ZHOUSHUIZI		ZYTL	Y	T	F
FUZHOU/CHANGLE		ZSFZ	Y	T	F
GAOXIONG		RCKH	Y	X	F
GUANGZHOU/BAIYUN		ZGGG	Y	X	F
GUILIN/LIANJIANG		ZGKL	Y	T	F
	HAIKOU/MEILAN	ZJHK	Y	X	F
HANGZHOU/XIAOSHAN		ZSHC	Y	T	F
HARBIN/TAIPING		ZYHB	Y	T	F
HEFEI/LUOGANG		ZSOF	Y	T	F
HUHHOT/BAITA		ZBHH	Y	T	F
JINAN/YAOQIANG		ZSJN	Y	T	F
KASHI/KASHI		ZWSH	Y	X	F
KUNMING/WUJIABA		ZPPP	Y	X	F
LANZHOU/ZHONGCHUAN		ZLLL	Y	T	F
NANJING/LUKOU		ZSNJ	Y	T	F
NANNING/WUXU		ZGNN	Y	T	F
QINGDAO/LIUTING		ZSQD	Y	T	F
SANYA/PHOENIX		ZJSY	Y	T	F
SHANGHAI/HONGQIAO		ZSSS	Y	T	F
SHANGHAI/PUDONG		ZSPD	Y	X	F
	SHANTOU/WAISHA	ZGOW	Y	T	F
SHENYANG/TAOXIAN		ZYTX	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
SHENZHEN/BAOAN		ZGSZ	Y	X	F
TAIBEI CITY/TAIBEI INTL AP		RCTP	Y	X	F
TAIBEI/SONGSHAN		RCSS	Y	T	F
TAIYUAN/WUSU		ZBYN	Y	T	F
TIANJIN/BINHAI		ZBTJ	Y	X	F
URUMQI/DIWOPU		ZWWW	Y	X	F
WUHAN/TIANHE		ZHHH	Y	T	F
XIAMEN/GAOQI		ZSAM	Y	T	F
XI'AN/XIANYANG		ZLXY	Y	T	F
XICHANG/QUINGSHAN		ZUXC	Y		F
Cook Islands					
RAROTONGA INTL.		NCRG	Y	T	F
Democratic People's Republic of Korea					
SUNAN		ZKPY	Y	T	F
Fiji					
NADI/INTL		NFFN	Y	T	F
NAUSORI/INTL		NFNA	Y	T	F
French Polynesia (France)					
TAHITI FAAA		NTAA	Y	T	F
Hong Kong, China (China)					
HONG KONG/INTERNATIONAL		VHHH	Y	X	F
India					
AHMEDABAD		VAAH	Y	X	F
AMRITSAR		VIAR	Y	X	F
BANGALORE INTERNATIONAL AIRPORT, DEVENAHALLI, BANGALORE		VOBL	Y	X	F
	BHUBANESHWAR	VEBS	Y	T	F
CALICUT		VOCL	Y	X	F
CHENNAI		VOMM	Y	X	F
COCHIN INTERNATIONAL AIRPORT		VOCI	Y	X	F
COIMBATORE		VOCB	Y	T	F
DELHI (IGI)		VIDP	Y	X	F
GAYA		VEGY	Y	T	F
GUWAHATI		VEGT	Y	T	F
HYDERABAD INTERNATIONAL AIRPORT (RAJIV GANDHI INTERNATIONAL AIRPORT SHAMSHABAD, HYDERABD)		VOHS	Y	T	F
JAIPUR		VIJP	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	**2**	**3**	**4**	**5**	**6**
KOLKATA		VECC	Y	X	F
LUCKNOW		VILK	Y	T	F
MANGALORE		VOML	Y	T	F
MUMBAI		VABB	Y	X	F
NAGPUR		VANP	Y	T	F
	PATHANKOT (IAF)	VIPK	Y	T	F
PATNA		VEPT	Y	T	F
THIRUVANANTHAPURAM		VOTV	Y	X	F
TIRUCHCHIRAPPALLI		VOTR	Y	T	F
VARANASI		VIBN	Y	T	F
Indonesia					
AMBON/PATTIMURA		WAPP	Y	T	F
BALI/NGURAH RAI		WADD	Y	T	F
BALIK PAPAN/SEPINGGAN		WALL	Y	X	F
BANJARMASIN/SYAMSUDIN NOOR		WAOO	Y	T	F
BATAM/HANG NADIM		WIDD	Y	T	F
BIAK/FRANS KAISIEPO		WABB	Y	X	F
JAKARTA/HALIMPERDANA KUSUMA		WIHH	Y	T	F
JAKARTA/SOEKARNO HATTA (COMM CENTER)		WIII	Y	X	F
JAYAPURA/SENTANI		WAJJ	Y	T	F
	JOGYAKARTA/ADISUCIPTO	WARJ	Y	T	F
KUPANG/EL TARI		WATT	Y	T	F
MANADO/SAM RATULANGI		WAMM	Y	X	F
	MATARAM/SELAPARANG	WADA	Y	T	F
MEDAN/POLONIA		WIMM	Y	T	F
MERAUKE/MOPAH		WAKK	Y	T	F
PADANG/TABING		WIMG	Y	T	F
PALEMBANG/SULTAN MAHMUD BADARUDDIN II		WIPP	Y	T	F
PEKANBARU/SULTAN SYARIF KASIM II		WIBB	Y	T	F
PONTIANAK/SUPADIO		WIOO	Y	T	F
	SOLO/ADI SUMARMO	WARQ	Y	T	F
	SORONG/JEFMAN	WASS		T	F
SURABAYA/JUANDA		WARR	Y	T	F
TANJUNG PINANG/KIJANG		WIDN	Y	T	F
TARAKAN/JUWATA		WALR	Y	T	F
TIMIKA/MOSES KILANGIN		WABP	Y	T	F
UJUNG PANDANG/HASANUDDIN (COMM CENTER)		WAAA	Y	X	F
Japan					
CHUBU CENTRAIR INTL		RJGG	Y	X	F
FUKUOKA		RJFF	Y	T	F
HAKODATE		RJCH	Y	X	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	**2**	**3**	**4**	**5**	**6**
HIROSHIMA		RJOA	Y	T	F
KAGOSHIMA		RJFK	Y	T	F
KANSAI INTL		RJBB	Y	X	F
KUMAMOTO		RJFT	Y	T	F
NAGASAKI		RJFU	Y	T	F
NAHA		ROAH	Y	X	F
NARITA INTL		RJAA	Y	X	F
NIIGATA		RJSN	Y	T	F
OITA		RJFO	Y	T	F
OKAYAMA		RJOB	Y	T	F
OSAKA INTL		RJOO	Y	T	F
SAPPORO/NEW CHITOSE		RJCC	Y	X	F
SENDAI		RJSS	Y	X	F
TAKAMATSU		RJOT	Y	T	F
TOKYO INTL		RJTT	Y	T	F
Johnston Island (United States)					
	JOHNSTON I./JOHNSTON ATOLL	PJON			N
Kiribati					
CHRISTMAS ISLAND		PLCH	Y	T	F
TARAWA/BONRIKI INTL		NGTA	Y	T	F
Lao People's Democratic Republic					
VIENTIANE(WATTAY)		VLVT	Y	T	P
Macao, China (China)					
MACAOU INTERNATIONAL		VMMC	Y	X	F
Malaysia					
	ALOR STAR/SULTAN ABDUL HALIM	WMKA	Y	T	F
	BINTULU	WBGB	Y	T	F
	BUTTERWORTH (RMAF)	WMKB	Y	T	F
	IPOH/SULTAN AZLAN SHAH	WMKI	Y	T	F
JOHOR BAHRU/SULTAN ISMAIL		WMKJ	Y	T	F
	KERTEH (PETRONAS)	WMKE	Y	T	F
	KOTA BHARU/SULTAN ISMAIL PETRA	WMKC	Y	T	F
KOTA KINABALU/INTL		WBKK	Y	T	F
	KUALA TERENGGANU/SULTAN MAHMUD	WMKN	Y	T	F
	KUANTAN	WMKD	Y		F
KUCHING/INTL		WBGG	Y	T	F
	LABUAN (RMAF)	WBKL	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
	MALACCA	WMKM	Y		F
	MIRI	WBGR	Y	T	F
PENANG/INTL		WMKP	Y	T	F
PULAU LANGKAWI/INTL		WMKL	Y	T	F
	SANDAKAN	WBKS	Y	T	F
SEPANG/KL INTERNATIONAL AIRPORT		WMKK	Y	X	F
	SIBU	WBGS	Y	T	F
	SUBANG/SULTAN ABDUL AZIZ SHAH	WMSA	Y	T	F
	TAWAU	WBKW	Y	T	F
Maldives					
GAN/GAN INTERNATIONAL AIRPORT		VRMG	Y	X	F
MALE INTERNATIONAL AIRPORT		VRMM	Y	X	F
Marshall Islands					
	KWAJALEIN ATOLL/BUCHOLZ AAF, KIRIBATI	PKWA	Y	T	F
MARSHALL ISLANDS/INTL MAJURO ATOLL		PKMJ	Y	T	P
Micronesia (Federated States of)					
	KOSRAE,KOSRAE ISLAND	PTSA	Y	T	F
POHNPEI INTL,POHNPEI ISLAND		PTPN	Y	T	P
WENO ISLAND ,FM CHUUK INTL.		PTKK	Y	T	F
YAP INTL,YAP ISLAND		PTYA	Y	T	F
Midway (United States)					
	MIDWAY NAF (HENDERSON FIELD) ,SAND ISLAND	PMDY	Y	T	F
Mongolia					
ULAANBAATAR		ZMUB	Y	X	F
Myanmar					
	MANDALAY INTERNATIONAL	VYMD	Y	T	P
	SITTWE	VYSW	Y	T	F
YANGON INTERNATIONAL		VYYY	Y	T	F
Nauru					
NAURU I.		AUUU	Y	T	F
Nepal					
KATHMANDU		VNKT	Y	T	F
New Caledonia (France)					
NOUMEA LA TONTOUTA		NWWW	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
New Zealand					
AUCKLAND INTL		NZAA	Y	T	F
CHRISTCHURCH INTL		NZCH	Y	T	F
WELLINGTON INTL		NZWN	Y	T	F
Niue (New Zealand)					
NIUE INTL		NIUE	Y	T	F
Northern Mariana Islands (United States)					
ANDERSON AFB,GUAM ISLAND		PGUA	Y	T	F
FRANCISCO C. ADA/SAIPAN INTERNATIONAL, OBYAN		PGSN	Y	T	F
GUAM INTERNATIONAL, GUAM ISLAND		PGUM	Y	X	F
ROTA/INTL,ROTA I.		PGRO	Y	T	P
	WEST TINIAN,TINIAN ISLAND	PGWT	Y	T	F
Pakistan					
BENAZIR BHUTTO INTERNATIONAL AIRPORT		OPRN	Y	X	F
	FAISALABAD/INTL.	OPFA	Y	T	F
GWADAR/INTL.		OPGD	Y	T	F
KARACHI/JINNAH INT'L		OPKC	Y	X	F
LAHORE/ALLAMA IQBAL INT'L		OPLA	Y	X	F
	MULTAN/INTL.	OPMT	Y	T	F
NAWABSHAH		OPNH	Y	T	F
	PASNI	OPPI	Y	T	F
PESHAWAR/INTL.		OPPS	Y	X	F
	QUETTA/INTL.	OPQT	Y	T	F
Palau					
BABELTHUAP/KOROR, BABELTHUAP ISLAND		PTRO	Y	T	F
Papua New Guinea					
	DARU	AYDU	Y	C	F
	GOROKA	AYGA	Y	C	F
	MADANG	AYMD	Y	C	F
	MOMOTE	AYMO	Y	C	F
	MOUNT HAGEN	AYMH	Y	C	F
	NADZAB	AYNZ	Y	C	F
PORT MORESBY INTL		AYPY	Y	T	F
VANIMO		AYVN	Y		F
	WEWAK	AYWK	Y		F
Philippines					

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
	CAGAYAN DE ORO, MISAMIS ORIENTAL	RPML	Y	T	P
DAVAO/FRANCISCO BANGOY INTL, DAVAO DEL SUR		RPMD	Y	T	P
	DUMAGUETE/SIBULAN, NEGROS ORIENTAL	RPVD	Y		P
LAOAG, LAOAG INTL, ILOCOS NORTE		RPLI	Y	T	P
LAPU-LAPU/MACTAN, CEBU		RPVM	Y	X	F
MANILA/NINOY AQUINO INTL, PASAY CITY, METRO MANILA		RPLL	Y	X	F
	PAMPANGA/DIOSDADO MACAPAGAL INTERNATIONAL MABALACAT, PAMPANGA	RPLC	Y	T	F
	PUERTO PRINCESA, PALAWAN	RPVP	Y	T	P
SUBIC BAY,SUBIC BAY INTL, OLONGAPO CITY, ZAMBALES		RPLB	Y	T	P
	TAMBLER,GEN. SANTOS,SOUTH COTABATO	RPMR	Y	T	P
ZAMBOANGA, ZAMBOANGA INTL, ZAMBOANGA DEL NORTE		RPMZ	Y	T	P
Republic of Korea					
CHEONGJU		RKTU	Y	T	F
DAEGU		RKTN	Y	T	F
GIMHAE INTL		RKPK	Y	T	F
GIMPO		RKSS	Y	X	F
	GUNSAN	RKJK	Y	T	F
	GWANGJU	RKJJ	Y	T	F
INCHEON INTL		RKSI	Y	X	F
JEJU INTL		RKPC	Y	X	F
MUAN		RKJB	Y	X	F
	OSAN	RKSO	Y	T	F
YANGYANG		RKNY	Y	T	F
Singapore					
PAYA LEBAR (RSAF)		WSAP	Y	X	F
SELETAR		WSSL	Y	X	F
SINGAPORE/CHANGI		WSSS	Y	X	F
Solomon Islands					
HONIARA (HENDERSON)		AGGH	Y	T	F
Sri Lanka					
HINGURAKGODA/MINERIYA		VCCH	Y		F
	KANKESANTURAI/JAFFNA	VCCJ	Y	T	F
KATUNAYAKE/BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO		VCBI	Y	X	F
	RATMALANA/COLOMBO	VCCC	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
Thailand					
BANGKOK/DON MUEANG INTL AIRPORT		VTBD	Y	X	F
BANGKOK/SUVARNABHUMI INTL AIRPORT		VTBS	Y	X	F
	BURI RAM	VTUO	Y	T	P
CHIANG MAI/CHIANG MAI INTL. AIRPORT		VTCC	Y	X	F
CHIANG RAI/CHIANG RAI INTL AIRPORT		VTCT	Y	T	F
	CHUMPHON/TAB GAI	VTSE	Y	T	P
KHON KAEN		VTUK	Y	T	P
KRABI		VTSG	Y	T	F
	LAMPANG	VTCL	Y	T	P
	LOEI	VTUL	Y	T	P
	MAE HONG SON	VTCH	Y	T	P
	NAKHON PHANOM	VTUW	Y	T	P
	NAKHON RATCHASIMA	VTUQ	Y	T	P
	NAKHON SI THAMMARAT	VTSF	Y	T	P
	NAN	VTCN	Y	T	P
	NARATHIWAT	VTSC	Y	T	P
	PATTANI	VTSK	Y	T	P
	PHETCHABUN	VTPB	Y	T	P
PHITSANULOK		VTPP	Y	T	P
	PHRAE	VTCP	Y	T	P
PHUKET/PHUKET INTL AIRPORT		VTSP	Y	X	F
	PRACHUAP KHIRI KHAN/HUA HIN	VTPH	Y	T	P
	RANONG	VTSR	Y	T	P
RAYONG/U-TAPHAO INTL AIRPORT		VTBU	Y	T	F
	ROI ET	VTUV	Y	T	P
	SAKON NAKHON/BAN KHAI	VTUI	Y	T	P
	SONGKHLA	VTSH	Y	T	P
SONGKHLA/HAT YAI INTL AIRPORT		VTSS	Y	T	F
	SUKHOTHAI	VTPO	Y	T	P
	SURA TAHNI/SAMUI	VTSM	Y	T	P
SURAT THANI		VTSB	Y	T	P
	TAK	VTPT	Y	T	P
	TAK/MAE SOT	VTPM	Y	T	P
	TRANG	VTST	Y	T	P
UBON RATCHATHANI		VTUU	Y	T	F
	UDON THANI	VTUD	Y	T	P
Tonga					
FUA'AMOTU INTL.		NFTF	Y	T	F
VAVA'U		NFTV	Y	T	F
Tuvalu					
FUNAFUTI/INTL		NGFU	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	2	3	4	5	6
United States					
	ADAK ISLAND/ADAK NAF,AK.	PADK	Y	X	F
ANCHORAGE/ELMENDORF AFB,AK.		PAED	Y	T	F
	ANNETTE ISLAND,AK.	PANT	Y	T	F
	BARROW/WILEY POST-WILL ROGERS MEM,AK.	PABR	Y	T	F
	BARTER ISLAND LRRS,AK.	PABA	Y	T	F
	BETHEL,AK.	PABE	Y	T	F
	BETTLES,AK.	PABT	Y	T	F
	CAPE LISBURNE LRRS,AK.	PALU	Y	T	F
	CAPE NEWENHAM LRRS,AK.	PAEH	Y	T	F
	CAPE ROMANZOF LRRS,AK.	PACZ	Y	T	F
COLD BAY,AK.		PACD	Y	T	F
	CORDOVA/MERLE K (MUDHOLE) SMITH,AK.	PACV	Y	T	F
	DEADHORSE,AK.	PASC	Y	T	F
	DELTA JUNCTION/ALLEN AAF,AK.	PABI	Y	T	F
	DILLINGHAM APRT,AK.	PADL	Y	T	F
FAIRBANKS INTERNATIONAL, AK.		PAFA	Y	X	F
FAIRBANKS/EIELSON AFB,AK.		PAEI	Y	T	F
	FAIRBANKS/FT WAINWRIGHT	PAFB	Y	T	F
	GALENA,AK.	PAGA	Y	T	F
	GULKANA,AK.	PAGK	Y	T	F
HILO INTERNATIONAL, HILO HI.		PHTO	Y	T	F
	HOMER,AK.	PAHO	Y	T	F
HONOLULU INTERNATIONAL, OAHU, HI.		PHNL	Y	X	F
	ILIAMNA,AK.	PAIL	Y	T	F
	JUNEAU INTERNATIONAL, AK.	PAJN	Y	T	F
KAHULUI, HI.		PHOG	Y	T	F
	KENAI/MUNI,AK.	PAEN	Y	T	F
	KETCHIKAN INTL,AK.	PAKT	Y	T	F
KING SALMON,AK.		PAKN	Y	T	F
	KODIAK,AK.	PADQ	Y	T	F
	KONA/KEAHOLE KAILUA,HI.	PHKO	Y	T	F
	KOTZEBUE/RALPH WIEN MEMORIAL AK.	PAOT	Y	T	F
	LAHAINA/KAPALUA-WEST MAUI, HI.	PHJH	Y	T	F
	LANAI CITY, LANAI,HI.	PHNY	Y	T	F
	LIHUE, KAUAI,HI.	PHLI	Y	T	F
	MCGRATH,AK.	PAMC	Y	T	F
	MOLOKAI, KAUNAKAKAI,HI.	PHMK	Y	T	F
	NOME,AK.	PAOM	Y	T	F
	NORTHWAY,AK.	PAOR	Y	T	F
	SITKA,AK.	PASI	Y	T	F
	SKAGWAY,AK.	PAGY	Y	T	F
	ST. PAUL ISLAND,AK.	PASN	Y	T	F

MET 2A - ASIAPAC

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	**Not Listed in AOP Tables**	**ICAO Location**	**SA/SP**	**TAF**	**Availability**
1	**2**	**3**	**4**	**5**	**6**
	TALKEETNA,AK.	PATK	Y	T	F
	TANANA/RALPH CALHOUN MEM,AK.	PATA	Y	T	F
TED STEVENS ANCHORAGE INTERNATIONAL, AK.		PANC	Y	X	F
	TIN CITY LRRS,AK.	PATC	Y	T	F
	UNALAKLEET,AK.	PAUN	Y	T	F
	UNALASKA,AK.	PADU	Y	T	F
	VALDEZ,AK.	PAVD	Y	T	F
	YAKUTAT,AK.	PAYA	Y	T	F
Vanuatu					
PORT VILA/BAUERFIELD		NVVV	Y	T	F
SANTO/PEKOA		NVSS	Y	T	F
Viet Nam					
	CAM RANH	VVCR	Y	C	P
	DA LAT/LIEN KHUONG	VVDL	Y	C	P
DA NANG		VVDN	Y	T	F
	DIEN BIEN PHU	VVDB	Y	C	P
HA NOI/NOI BAI		VVNB	Y	T	F
HO CHI MINH/TAN SON NHAT		VVTS	Y	X	F
HUE/PHU BAI		VVPB	Y	T	F
Wake Island (United States)					
	WAKE ISLAND AIRFIELD,WAKE I.	PWAK	Y	X	P
Wallis and Futuna Islands (France)					
WALLIS HIHIFO		NLWW	Y	T	F

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.

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	*Anchorage* Honolulu *Kansas City* Tahiti	*PAWU* PHFO *KKCI* NTAA
Miami (United States)	KNHC	Eastern Pacific: N: 60°N S: 0°N W: 140°W E: Coastline	May – November	Honolulu *Kansas City* Tahiti	PHFO *KKCI* 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	*Bahrain* Chennai Colombo Dhaka *Emirates* Jakarta *Jeddah* Karachi Kuala Lumpur *Kuwait* Male Mumbai *Muscat* *Tehran* *Sana'a* Yangon	*OBBI* VOMM VCBI VGZR *OMAE* WIII *OEJN* OPKC WMKK *OKBK* VRMM VABB *OOMS* *OIII* *OYSN* VYYY
Réunion (France)	FMEE	Southwest Indian Ocean N: 0°S S: 40°S W: African Coastline E: 90°E	Throughout the year	*Antananarivo* *Bloemfontein* Mumbai *Dar-es-Salaam* *Durban* *Gaborone* *Harare* *Johannesburg* *Lilongwe* *Mahé* Male *Maputo* *Mauritius* Melbourne (World Met Centre, BoM)[3)] *Nairobi* Perth	*FMMI* *FABL* VABB *HTDA* *FADN* *FBSK* *FVHA* *FAJS* *FWLI* *FSIA* VRMM *FQMA* *FIMP* YMMC *HKJK* 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	VTBS
				Beijing	ZBAA
				Gia Lam	VVGL
				Guangzhou	ZGGG
				Haikou	ZJHK
				Hong Kong	VHHH
				Honolulu	PHFO
				Incheon	RKSI
				Jakarta	WIII
				Kansas City	*KMKC*
				Kuala Lumpur	WMKK
				Manila	RPLL
				Nadi	NFFN
				Phnom-Penh [5)]	VDPP
				Shanghai	ZSSS
				Singapore	WSSS
				Sunan	ZKPY
				Taibei	RCTP
				Tokyo	RJTD
				Ujung Pandang	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	MWO 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, Yangon 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

VAAC		AREA OF RESPONSIBILITY	STATE	ICAO REGION	MWO 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
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	*Artiom (Vladivostok)*	*UHWW*	*Vladivostok*	*UHWW*
			Thailand	APAC	Bangkok	VTBS	Bangkok	VTBB
			Russian Federation	EUR	*Blagoveshchensk*	*UHBB*	*Blagoveshchensk*	*UHBB*
			China	APAC	Beijing	ZBAA	Beijing Huhhot Taiyuan	ZBPE ZBHH ZBYN
			Russian Federation	EUR	*Chita*	*UIAA*	*Chita*	*UIAA*
			Russian Federation	EUR	*Chulman (Nerungri)*	*UELL*	*Chulman*	*UELL*
			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	*Irkutsk*	*UIII*	*Irkutsk*	*UIII*
			Russian Federation	EUR	*Khabarovsk*	*UHHH*	*Khabarovsk*	*UHHH*
			China	APAC	Kunming	ZPPP	Kunming Chengdu Chongqing	ZPKM ZUDS ZUCK
			China	APAC	Lanzhou	ZLLL	Lanzhou Xi'an	ZLAN ZLSN
			Russian Federation	EUR	*Magadan*	*UHMM*	*Magadan*	*UHMM*
			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

VAAC		AREA OF RESPONSIBILITY	STATE	ICAO REGION	MWO 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
			China	APAC	Shenyang	ZYTX	Shenyang Dalian Hailar Harbin	ZYSH ZYTL ZBLA ZYHB
			China	APAC	Taibei	RCTP	Taibei	RCAA
			Japan	APAC	Tokyo	RJTD	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG
			Mongolia	APAC	Ulaanbaatar	ZMUB	Ulaanbaatar	ZMUB
			China	APAC	Urumqi	ZWWW	Urumqi	ZWWW ZWUQ
			Lao PDR	APAC	Vientiane	VLVT	Vientiane	VLVT
			China	APAC	Wuhan	ZHHH	Wuhan	ZHWH
			Russian Federation	EUR	*Yelizovo (Petropavlovsk-Kamchatsky)*	*UHPP*	*Petropavlovsk-Kamchatsky*	*UHPP*
			Russian Federation	EUR	*Yuzhno-Sakhalinsk*	*UHSS*	*Yuzhno-Sakhalinsk*	*UHSS*
Toulouse (France)	LFPW	Africa Continental Europe West Asia	India	APAC	Chennai	VOMM	Chennai FIR and SRR	VOMF
			India	APAC	Delhi/Indira Ghandi Intl	VIDP	Delhi FIR and SRR	VIDF
			Afghanistan	APAC	Kabul AD	OAKM	Kabul FIR and SRR	OAKX
			Pakistan	APAC	Karachi/ Jinnah Int'l	OPKC	Karachi FIR and SRR	OPKR
			Nepal	APAC	Kathmandu	VNKT	Kathmandu FIR and SRR	VNSM
			India	APAC	Kolkata	VECC	Kolkata FIR and SRR	VECF
			Pakistan	APAC	Lahore/Allama Iqbal Int'l	OPLA	Lahore FIR and SRR	OPLR
			Maldives	APAC	Male/Intl	VRMM	Male FIR and SRR	VRMM
			India	APAC	Mumbai/ Chhatrapati Shivaji Intl.	VABB	Mumbai FIR and SRR	VABF
			China	APAC	Urumqi/Diwopu	ZWWW	Urumqi FIR and SSR	ZMUQ
			Bangladesh	APAC	Zia Intl. Airport, Dhaka	VGZR	Dhaka FIR and SRR	VGFR

VAAC		AREA OF RESPONSIBILITY	STATE	ICAO REGION	MWO 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
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, and Southward from S10 and from W140 to W90	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.

FASID TABLE MET 3C

SELECTED STATE VOLCANO OBSERVATORIES

EXPLANATION OF THE TABLE

Column

1 Name of the Provider State of the volcano observatory designated for direct notification of volcanic activity.

2 Name of the volcano observatory.

3 VAAC to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

4 ACC to which information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

5 ICAO location indicator of the ACC listed in Column 4.

6 MWO to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

7 ICAO location indicator of the MWO listed in Column 6.

FASID TABLE MET 3C

SELECTED STATE VOLCANO OBSERVATORIES

EXPLANATION OF THE TABLE

Column

1 Name of the Provider State of the volcano observatory designated for direct notification of volcanic activity.

2 Name of the volcano observatory.

3 VAAC to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

4 ACC to which information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

5 ICAO location indicator of the ACC listed in Column 4.

6 MWO to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.

7 ICAO location indicator of the MWO listed in Column 6.

Provider State of volcano observatory	Volcano observatory	VAAC to which the information is to be sent	ACC to which the information is to be sent		MWO to which the information is to be sent	
			Name	ICAO Loc Ind	Name	ICAO Loc Ind
1	2	3	4	5	6	7
Japan	Sapporo Volcano Observations and Information Center, Japan Meteorological Agency	Tokyo	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG	Tokyo	RJTD
	Sendai Volcano Observations and Information Center, Japan Meteorological Agency	Tokyo	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG	Tokyo	RJTD
	Tokyo Volcano Observations and Information Center, Japan Meteorological Agency	Tokyo	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG	Tokyo	RJTD
	Fukuoka Volcano Observations and Information Center, Japan Meteorological Agency	Tokyo	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG	Tokyo	RJTD
	Kagoshima Local Meteorological observatory, Japan Meteorological Agency	Tokyo	Sapporo Tokyo Fukuoka Naha	RJCG RJTG RJDG RORG	Tokyo	RJTD
China	Heilongjiang Wudalianchi Volcano Observatory	Tokyo	Shenyang Dalian Harbin Hailar	ZYSH ZYTL ZYHB ZBLA	Shenyang	ZYTX
	Jilin Changbai Mountain Tianchi Volcano Observatory	Tokyo	Shenyang Dalian Harbin Hailar	ZYSH ZYTL ZYHB ZBLA	Shenyang	ZYTX
Philippines	Philippine Institute of Volcanology and Seismology (PHIVOLCS) Central Office	Tokyo Darwin	Manila	RPHI	Manila	RPLL
Papua New Guinea	Rabaul*	Darwin	Port Moresby	AYPM	Port Moresby	AYPY

Indonesia	Directorate of Volcanology and Geological Hazard Mitigation (DVGHM)	Darwin	Jakarta Ujung Pandang	WIIF WAAF	Jakarta Ujung Pandang	WIII WAAA
India	TBD	Darwin				
New Zealand	Wairakei Research Centre Institute of Geological and Nuclear Sciences	Wellington	Christchurch	NZZC	Wellington (Aviation Weather Centre)	NZKL
Russian Federation	*KVERT***	*Tokyo Anchorage*	*Petropavlovsk-Kamchatski*	*UHPP*	*Petropavlovsk-Kamchatski*	*UHPP*
United States	*Alaska Volcano Observatory*	*Anchorage Washington*	*Anchorage Guam*	*PAZA PGZU*	*Anchorage Honolulu*	*PAWU PHFO*
	Cascade Volcano Observatory	*Washington*	*Seattle Oakland*	*KZSE KZOA*	*Kansas City*	*KKCI*
	Hawaiian Volcano Observatory	*Washington*	*Honolulu*	*PHZH*	*Honolulu*	*PHFO*

* Required by the VAAC, but not confirmed by the Provider State
** To be coordinated with ICAO Office, Paris

Note. - AFTN is not available at all selected volcano observatories and therefore it is the responsibility of each State to make appropriate communication arrangements.

FASID TABLE MET 5

REQUIREMENTS FOR WAFS FORECASTS

EXPLANATION OF THE TABLE

Column

1 WAFS forecasts required by the ASIA/PAC States, to be provided by WAFCs London and Washington

2 Area of coverage required for the WAFS forecasts, to be provided by WAFCs London and Washington

FORECAST REQUIRED	AREAS REQUIRED
1	2
SWH forecasts (FL 250-630) in the BUFR code form	GLOBAL
SWM forecasts (FL 100-250) in the BUFR code form	ASIA SOUTH
Forecasts of upper-air wind, temperature and humidity, cumulonimbus clouds, icing, and clear-air and in-cloud turbulence and of altitude of flight levels in the GRIB code form	GLOBAL

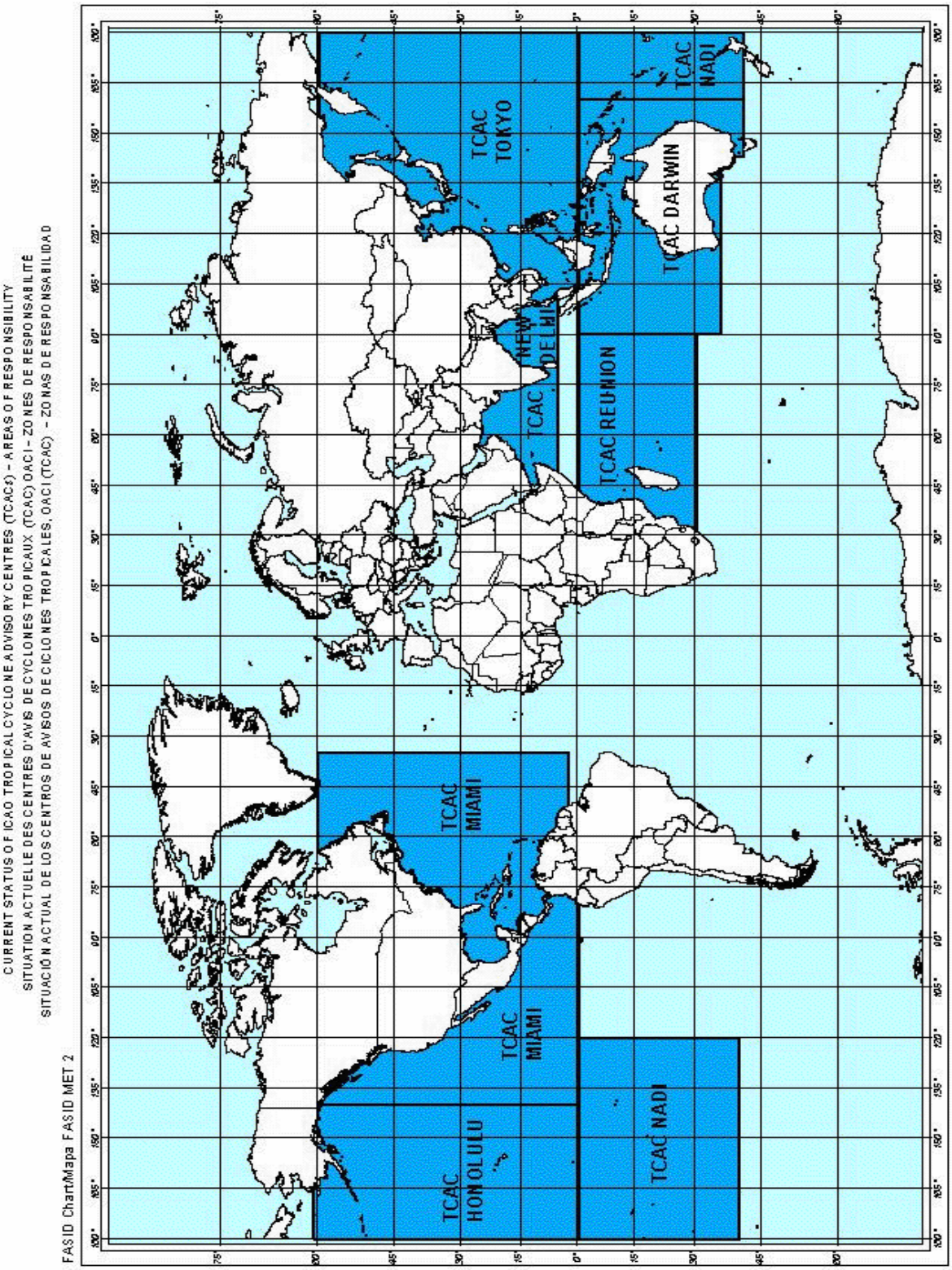
Note 1. – SWM forecasts are provided for limited geographical areas as determined by regional air navigation agreement. Areas "ASIA SOUTH", "EUR" and "MID" provided by WAFC London; area "NAT" provided by WAFC Washington.

Note 2. – WAFCs will continue to issue forecasts of SIGWX in PNG chart form for back-up purposes for fixed areas of coverage as specified in Annex 3.

Note 3. – Forecasts of cumulonimbus clouds, icing, and clear-air and in-cloud turbulence are experimental forecasts which are expected to become available by the end of 2009.

_____

FASID CHART MET 1 - AREAS OF RESPONSIBILITY OF THE TCACs



FASID CHART MET 2 – MAP OF AREAS OF RESPONSIBILITIES OF VAAC AND CORRESPONDING FIR

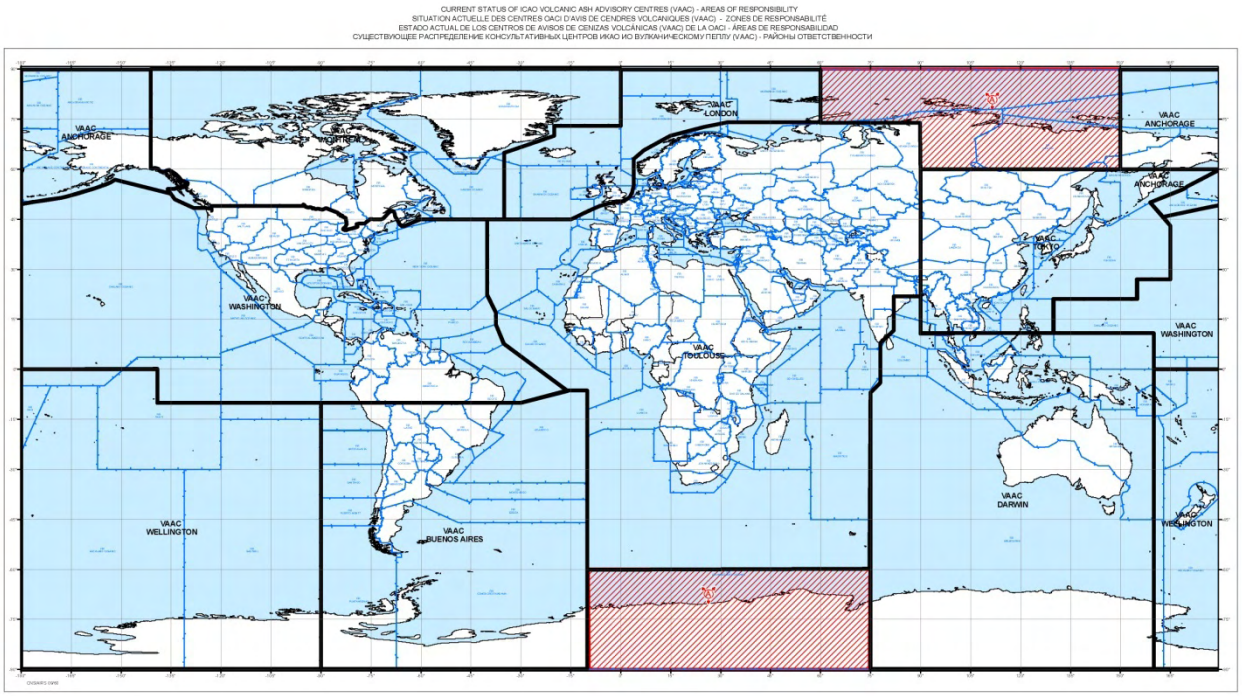


TABLE ATS 2

HF RADIOTELEPHONY VOLMET BROADCASTS

EXPLANATION OF THE TABLE

The transmitting station appears at the top of each block. Names in lower-case letters indicate aerodromes for which reports (routine or selected special) are required. Names in upper-case letters indicate aerodromes for which forecasts are required.

PAC

FREQUENCIES 2863, 6679, 8828, 13282 kHz

Tokyo	Hong Kong	Auckland	
10-15 40-45	15-20 45-50	20-25	50-55
Tokyo (Narita) Tokyo (Haneda) Sapporo Nagoya (Chubu Centrair) Osaka (Kansai) Fukuoka Incheon	Hong Kong Naha Taibei Gaoxiong Manila Mactan Guangzhou	Auckland Christchurch Wellington Nadi Faleolo * Noumea Rarotonga * Tahiti	Auckland Christchurch Wellington Nadi Faleolo * Noumea Pago Pago * Tahiti
TOKYO (NARITA) OSAKA (KANSAI)	HONG KONG	NADI NOUMEA	AUCKLAND CHRISTCHURCH

* No TREND available

PAC

FREQUENCIES 2863, 6679, 8828, 13282KHz

Honolulu		
10-15 40-45	15-20 45-50	25-30 50-55
Honolulu Hilo Kahului Agana SIGMET HONOLULU HILO AGANA	San Francisco Los Angeles Seattle Portland Sacramento Ontario Las Vegas SIGMET SAN FRANCISCO SEATTLE LOS ANGELES	Anchorage Fairbanks King Salmon Elmendorf Cold Bay Vancouver SIGMET ANCHORAGE FAIRBANKS VANCOUVER COLD BAY

ASIA

FREQUENCIES 2965, 6676, 11387 kHz

Brisbane	Kolkata	Bangkok	Karachi	Singapore	Mumbai
00-05 30-35	05-10 35-40	10-15 40-45	15-20 45-50	20-25 50-55	25-30 55-60
Sydney Brisbane Cairns Melbourne Townsville Adelaide Darwin Perth	Kolkata Delhi Dhaka Yangon Kathmandu KOLKATA DELHI HO-CHI-MINH	Bangkok Yangon Ha Noi Ho-Chi-Minh Phnom-Penh Utapao Vientiane BANGKOK YANGON	Karachi Islamabad Lahore Delhi Mumbai KARACHI LAHORE MUMBAI DELHI SINGAPORE	Singapore Sebang Jakarta Kuching Brunei Kota Kinabalu Denpasar Penang 20-25 SINGAPORE KUALA LUMPUR 50-55 SINGAPORE JAKARTA	Mumbai Ahmadabad Chennai Colombo Karachi Male MUMBAI COLOMBO MALE

ASIA

FREQUENCIES 3458, 5673, 8849, 13285 kHz

Guangzhou			Beijing		
00-05 30-35	05-10 35-40	10-15 40-45	15-20 45-50	20-25 50-55	25-30 55-60
Xianmen	Guangzhou Nanning GUANGZHOU	Changsha Chengdu Kunming Wuhan CHENGDU	Beijing Harbin Dalian Shenyang Hohhot Taiyuan Tianjin BEIJING	Hangzhou Shanghai SHANGHAI	Lanzhou Xian Urumqi XIAN

EUR/ASIA

FREQUENCIES 3461, 4663, 5676, 10090, 13279 kHz

Tashkent	Novosibirsk	Khabarovsk	Moskva	Kyiv
05-10	10-15	15-20	25-30	
TASHKENT ALMA-ATA Tashkent Alma-Ata Dushanbe Samarkand Aktyubinsk	NOVOSIBIRSK KHAVAROVSK Novosibirsk Khabarovsk Irkutsk	KHAVAROVSK IRKUTSK Khabarovsk Novosibirsk Irkutsk Chita Vladivostok	MOSKVA/SHEREME KIEV RYAZAN ULAANBAATOR	
35-40	40-45	45-50	55-60	
DUSHANBE SAMARKAND AKTYUBINSK Tashkent Alma-Ata Dushanbe Samarkand Aktyubinsk	IRKUTSK Novosibirsk Khabarovsk Irkutsk	CHITA NOVOSIBIRSK Khabarovsk Novosibirsk Irkutsk Chita	MOSKVA/VNUKOVO LENINGRAD Moskva/Sheremetyevo Moskva/Vnukovo Kyiv Leningrad Ryazan	