



Agenda Item 6: Review of the CAR/SAM ANP, Part VI – MET

(Presented by the Secretariat)

Summary

This working paper presents Part VI - MET of the CAR/SAM Air Navigation Plan, Volume I, Basic and Facilities and Services Implementation Document, Volume II, FASID (Doc 8733), in force, for review by the Meeting and update, if necessary.

References:

- CAR/SAM ANP Volume I, Basic and Volume II, FASID (Doc 8733);
- Report of SAM COM/MET 2009 Implementation Meeting (Lima, Peru, 10 to 12 August 2009)

1. Introduction

1.1 Part VI – Meteorology (MET) of the Caribbean and South American 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 CAR/SAM regions and considered to be the minimum necessary for effective planning of MET facilities and services. A detailed description or list of the facilities and services to be provided by States in order to fulfil the requirements of the Basic ANP is contained in the CAR/SAM Facilities and Services Implementation Document (FASID).

1.2 The main task of the Meeting with regard to Agenda Item 6, is to review the regional meteorological procedures indicated in Part VI – Meteorology of the CAR/SAM ANP Basic/FASID (Doc 8733), in accordance with the structure of the current practices of the operational requirements in the CAR/SAM Regions.

2. Discussion

CAR/SAM ANP Basic/FASID, Part VI - MET

2.1 In accordance with the procedures established for amendments to the global database (Tables MET 1A and Tables MET 2 A), subject to regional air navigation agreements, an annual regular revision will be made by the AERMET Subgroup, and every 18 months by GREPECAS. Proposals for amendment made by States or by IATA will be made at any time, to be consolidated with the annual regular revision if reasonable from the calendar point of view (that is, during the 6 months before the subgroup meeting). After the update to the referred tables by the Secretary of the SADIS Operations Group (SADISOPSG), the page of the Lima and Mexico Offices will be updated.

2.2 The global database (FASID Table MET 2A) of the aerodromes not listed in CAR/SAM FASID AOP Table, will be amended regularly based on the annual revision by the SADISOPSG and when required based on the proposals of the States concerned. In this regard, **Appendix A** to this working paper includes the amendments to CAR/SAM FASID Tables MET 1A and MET 2A that do not require regional air navigation agreement and are included in accordance with the information provided by the States.

2.3 The meeting may recall that on 23 June 2009 the ICAO South American Office circulated the State Letter LT 2/7.2.113/SA11 – Approval of proposal for amendment to ICAO CAR/SAM Air Navigation Plan (Doc 8733), Volume I, Basic (Serial No. SAM 09/1 –MET), and on 14 July 2009 circulated the State Letter LT 2/7.3.133/SA393 – Approval of proposal for amendment to ICAO CAR/SAM Air Navigation Plan (Doc 8733), Volume II, FASID (Serial No. SAM 09/2-MET). This is the first proposal circulated to States since the development of the Global MET Database – Tables MET 1A and 2A and since it is considered operational. Tables MET 1A and MET 2A will remain in the CAR/SAM ANP, pending on the decision of the future of regional air navigation plans and their relation with the new Global Plan.

2.4 The current Table MET 1A – Meteorological services required at aerodromes, includes in its column 6, the requirements of users and States for trend forecasts, and in column 7, the 24-hour validity TAF requirements. The Meeting could note that IATA has made 30-hour TAF requirement for two airports of Brazil, thus, the TAF validity period requirement for CAR/SAM Regions in ANP Basic should be amended from 24 hours to 24 and 30 hours.

2.5 The valid text of ANP Basic is presented in **Appendix B**, and the valid FASID, in accordance with the last amendment, is included as **Appendix C** to this working paper. In this regard, the Meeting is invited to review and, if necessary, update CAR/SAM FASID Tables.

2.6 The subgroup could take note that after the revision and update of Tables MET 1A and MET 2A, the SAM COM/MET 2009 Implementation Meeting formulated Conclusion COM/MET 09/11 - Updating and amendment to CAR/SAM FASID Tables MET 1A and MET 2A. Also, the referred meeting agreed that with the Global MET Database – Tables MET 1A and MET 2A, the inclusion of Table MET 2B in the CAR/SAM FASID was no longer required, and that AERMETS/10 meeting could be requested to study the possibility of excluding this Table from CAR/SAM FASID Part VI – MET, and include it as an Appendix to the CAR/SAM Guide for OPMET Exchange. In this sense, the meeting formulated Conclusion COM/MET 09/13.

2.7 Based on the above, the Meeting could formulate the following draft conclusions:

**DRAFT
CONCLUSION 10/XX – CAR/SAM FASID Table MET 2B**

That Table MET 2B of the CAR/SAM Facilities and Services Implementation Document (FASID):

- a) be eliminated from CAR/SAM FASID; and
- b) be included as an Appendix to the CAR/SAM Guide for OPMET exchange.

**DRAFT
CONCLUSION 10/XX – PROPOSAL FOR AMENDMENT TO CAR/SAM ANP
BASIC/FASID, PART VI MET**

That Part VI – MET of CAR/SAM ANP Basic and FASID is amended as shown in **Appendix XX¹** to this part of the report.

3. **Action required**

3.1 The Meeting is invited to:

- a) consider the contents of this working paper;
- b) review and, if necessary, update FASID MET;
- c) consider draft conclusions of paragraph 2.7; and
- d) agree on other actions, as necessary.

¹ Appendix XX corresponds to Appendix D of WP/07

APPENDIX A

**AMENDMENTS TO CAR/SAM FASID TABLE MET 1A
THAT DO NOT REQUIRE REGIONAL AIR NAVIGATION AGREEMENT**

1	2	3	4	5	6	7	8
.....							
Peru							
TACNA/CORONEL FAP CARLOS CIRIAN SANTA ROSA	SPTN	RG	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	PE
TRUJILLO/CAPITAN CARLOS MARTINEZ DE PINILLOS	SPRU	AS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	PE
.....							

**AMENDMENTS TO CAR/SAM FASID TABLE MET 2A
THAT DO NOT REQUIRE REGIONAL AIR NAVIGATION AGREEMENT**

1	2	3	4	5	6
.....					
Bolivia	<i>EL TROMPILLO</i>	SLLP	Y	T	PE
Cuba	<i>CAYO COCO/JARDINES DEL REY</i>	MUCC	Y	T	E
México	<i>COLIMA</i>	MMIA	Y	T	E
ZACATECAS		MMZC	Y	T	PE
Peru	<i>ILO PUCALPA/DAVID ABENSUR R</i>	SPLO	Y	T	PE
TACNA/CORONEL FAP CARLOS CIRIANI SANTA ROSA		SPCL	Y	T	PE
TRUJILLO/CAPITAN CARLOS MAREINES DE PINILLOS		SPTN	Y	T	PE
		SPRU	Y	T	PE

APPENDIX B

MET

VI-E-1

Part VI

METEOROLOGY (MET)

Basic

INTRODUCTION

1. This part of the CAR/SAM 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 CAR/SAM Regions and considered to be the minimum necessary for effective planning of MET facilities and services. A detailed description/list of the facilities and/or services to be provided by States in order to fulfill the requirements of the Basic ANP is contained in the CAR/SAM Facilities and Services Implementation Document (FASID). During the transition and pending full implementation of the future CNS/ATM systems, it is expected that the existing requirements will gradually be replaced by the new CNS/ATM related requirements. Further, it is expected that some elements of the CNS/ATM systems will be subject to amendment, as necessary, on the basis of experience gained in their implementation.

2. The Standards, Recommended Practices and Procedures to be applied are contained in Annex 3 C *Meteorological Service for International Air Navigation*.

3. Background information of importance in the understanding and effective application of the plan is contained in the *Report of the Third Caribbean/South American Regional Air Navigation Meeting* (Doc 9749), supplemented by information appropriate to the CAR/SAM Regions which is contained in the reports of the other regional air navigation meetings.

4. RAN meeting recommendations or conclusions, CAR/SAM Regional Planning and Implementation Group (GREPECAS) conclusions and ICAO operations groups conclusions shown in brackets below a heading indicate the

origin of all paragraphs following that heading. RAN Meeting Recommendations or conclusions, GREPECAS conclusions and ICAO operations groups conclusions shown in brackets below a paragraph indicate the origin of that particular paragraph.

**METEOROLOGICAL SERVICE REQUIRED
AT AERODROMES AND REQUIREMENTS FOR
METEOROLOGICAL WATCH OFFICES**

(FASID Tables MET 1A and MET 1B).

5. The service to be provided at international aerodromes listed in the Appendix to Part III of the Basic CAR/SAM ANP is set out in FASID Table MET 1A. [CAR/SAM/3, Rec. 7/7]

6. 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. [CAR/SAM/3, Rec. 7/7]

7. 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. [GREPECAS Conclusion 13/31 a)]

8. Aerodrome forecasts should be issued as TAF normally at intervals of 6 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 hours duration, to meet the requirements indicated in FASID Table MET 1A. The filing time of the forecasts should be approximately two hours before the start of the period of validity. [GREPECAS Conclusion 12/65]

9. 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. [GREPECAS Conclusion. 13/31 a)]

10. Trend forecasts should be provided at the aerodromes as indicated in FASID Table MET 1A. [CAR/SAM/3, Rec. 7/7]

11. Meteorological service should be provided on a 24-hour basis, except as otherwise agreed between the meteorological authority, the air traffic services authority and the operators concerned. [CAR/SAM/3, Rec. 7/7]

12. At aerodromes with limited hours of operation, METAR should be issued at least [1] hour 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. [GREPECAS Conclusion 13/31 a)]

13. 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. [CAR/SAM/3, Rec. 7/7]

14. Details of the service provided should be indicated in Aeronautical Information Publications in accordance with the provisions of Annex 15. [CAR/SAM/3, Rec. 7/7]

15. As far as possible, English should be among the languages used in meteorological briefing and consultation. [CAR/SAM/3, Rec. 7/7]

16. FASID Table MET 1B should be implemented as soon as possible, in the understanding that the implementation of a new MWO or changes to the area served by existing MWO indicated in FASID Table MET 1B, columns 1 and 3 respectively, should take place coincidentally with the implementation of, or changes to, the FIR/UIR/CTA/ SRR concerned. [CAR/SAM/3, Rec. 7/7]

AIRCRAFT OBSERVATIONS AND REPORTS

(FASID Table MET 1B)

17. 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 Aeronautical Information Publication (AIP), under GEN 3.5.6 C *Aircraft reports*, of the State concerned.

[CAR/SAM/3 Rec. 7/13]

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

18. The meteorological watch office (MWO) designated as the collecting centre for air-reports received by voice communications within the FIR/UIR for which they are responsible, is shown in FASID Table MET 1B, Column 1. [CAR/SAM/3 Rec. 7/13]

SIGMET AND AIRMET INFORMATION

(FASID Tables MET 3A, MET 3B and MET 3C)

19. Tropical cyclone advisory centre (TCAC) Miami has been designated to prepare advisory information. FASID Table MET 3A sets out the area of responsibility, the periods of operation of the TCAC and the MWOs to which the advisory information should be sent.. [IACWOPSG Conclusion 3/2]

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

21. 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 VAACs, MWOs and ACCs to which the notification should be sent by the observatories.

[IAVWOPSG, Conclusion 2/2]

22. AIRMET messages are not required to be issued by MWOs.

[CAR/SAM/3, Rec. 7/7]

EXCHANGE OF OPERATIONAL METEOROLOGICAL INFORMATION

(FASID Tables MET 2A and MET 2B)

International OPMET data banks

23. The International OPMET data banks in Brasilia and Washington have been designated to serve States in the CAR/SAM Regions to access OPMET information, which is required but not received.

[GREPECAS Conclusion. 13/31 a)]

Exchange of —METAR, SPECI and TAF

24. Availability of OPMET information (METAR, SPECI and TAF) required in ISCS and SADIS is included in FASID Table MET 2A.

25. METAR, SPECI and TAF which should be available at CAR/SAM meteorological offices, area control centres and flight information centres is contained in FASID Table MET 2B. Those tables should be updated, as necessary, by the ICAO Regional Offices concerned on the basis of changes in the pattern of aircraft operations and in accordance with the Statement of Basic Operational Requirements and Planning Criteria, in consultation with those States and international organizations directly concerned.

[GREPECAS, Conclusion 14/24]

26. The exchanges indicated in FASID Table MET 2B should be implemented as soon as possible to meet the requirements of current aircraft operations. The availability at meteorological offices of the required OPMET information should be reviewed continuously. 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 amend its corresponding address lists and inform the ICAO Regional Offices.

[GREPECAS, Conclusion 14/24]

WORLD AREA FORECAST SYSTEM (WAFS)

(FASID Tables MET 5, MET 6 and MET 7)

27. FASID Table MET 5 sets out the CAR/SAM Regions requirements for WAFS forecasts to be provided by WAFS Washington.

[WAFSOPSG, Conclusion 1/2]

28. FASID Table MET 6 sets out the responsibilities of WAFS London and Washington for the production of WAFS forecasts. For back-up purposes, each WAFS should have the capability to produce WAFS forecasts for all the required areas of coverage.

[WAFSOPSG, Conclusion 1/2]

29. WAFS forecasts should be disseminated by WAFS Washington using the international satellite communications system (ISCS1) covering the reception area shown in FASID Chart CNS [4].

[WAFSOPSG, Conclusion 4/2]

30. Each State should make the necessary arrangements to receive and make full operational use of WAFS forecasts disseminated by WAFS Washington. FASID Table MET 7 lists the authorized users of the ISCS1 satellite broadcast in the CAR/SAM Regions and location of the operational VSATs.

[WAFSOPSG, Conclusion 4/2]

APPENDIX C

VI-E-1

Part VI

METEOROLOGY (MET)

FASID

INTRODUCTION

1. The Standards, Recommended Practices and Procedures to be applied are as listed in paragraph 2, Part VI C MET of the CAR/SAM Basic ANP. The material in this part complements that contained in Part I – BORPC of the CAR/SAM Basic ANP and should be taken into consideration in the overall planning processes for the CAR/SAM regions.

2. This part contains a detailed description/list of the facilities and/or services to be provided to fulfil 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 CAR/SAM Basic ANP, is kept under constant review by the GREPECAS in accordance with its schedule of management, in consultation with user and provider States and with the assistance of the ICAO Regional Offices concerned.

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

3. The meteorological service to be provided to meet the requirements 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), control areas (CTA) and search and rescue regions (SRR) are listed in FASID Table MET 1B.

EXCHANGE OF MET INFORMATION FOR OPERATIONS

(FASID Tables MET 2A and MET 2B)

4. The requirements for availability of OPMET information METAR, SPECI and TAF on a global basis through the AFS satellite distribution system, the ISCS broadcast and the associated Internet-based distribution systems are included in FASID Table MET 2A. This table contains the aerodromes included in the CAR/SAM FASID Table AOP and those non-AOP aerodromes for which the States concerned have agreed to make available the OPMET information via the satellite distribution system on a regular basis.

5. FASID Table MET 2B contains the regional exchange requirements within the CAR/SAM regions for METAR/SPECI and TAF.

TROPICAL CYCLONE AND VOLCANIC ASH ADVISORY CENTRES

(FASID Tables MET 3A, MET 3B and MET 3C and
FASID Charts MET 1 and MET 2)

6. The area of responsibility, the period of operation of the tropical cyclone advisory centre (TCAC), Miami and the MWOs to which advisory information should be sent by the TCAC 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.

7. The areas of responsibility of the volcanic ash advisory centres (VAAC), Buenos Aires and Washington, 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.

8. 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 VACC, 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 regarding the IAVW is contained in the Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Doc 9691).

WORLD AREA FORECAST SYSTEM (WAFS)

(FASID Tables MET 5, MET 6 and MET 7)

9. FASID Table MET 5 sets out the CAR/SAM regions= requirements for WAFS forecasts to be provided by WAFC Washington.

10. FASID Table MET 6 sets out the responsibilities of WAFCs London and Washington for the production of WAFS forecasts. .

11. FASID Table MET 7 lists the authorized users of the ISCS1 satellite broadcast in the CAR/SAM regions and location of the operational VSATs. The table is included in the FASID for information purposes and kept up-to-date by the Regional Offices concerned.



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

- 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 - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
Anguilla (United Kingdom) WALLBLAKE,ANGUILLA	TQPF	RS	V.C.BIRD,ANTIGUA	TAPA		T	P
Antigua and Barbuda V.C.BIRD,ANTIGUA	TAPA	RS	V.C.BIRD,ANTIGUA	TAPA		T	F
Argentina AEROPARQUE J. NEWBERY, CABA	SABE	RS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
COMODORO RIVADAVIA/GRAL MOSCONI,CHT	SAVC	RS	COMODORO RIVADAVIA/GRAL MOSCONI,CHT	SAVC		T	F
CORDOBA/ING. A.L.V.	SACO	RS	CORDOBA/ING. A.L.V.	SACO		T	F
TARAVELLA CBA	SAEZ	RS	TARAVELLA CBA	SAEZ		T	F
EZEIZA MINISTRO PISTARINI, BA	SARI	RNS&AS	EZEIZA MINISTRO PISTARINI, BA	SAEZ		T	F
IGUAZU/CATARATAS DEL IGUAZU, MS	SARI	RNS&AS	RESISTENCIA,CHO	SARE		T	F
JUJUY,J.	SASJ	RS	CORDOBA/ING. A.L.V.	SACO		T	F
MAR DEL PLATA,BA	SAZM	RNS&AS	TARAVELLA CBA	SACO		T	F
MENDOZA/EL PLUMERILLO,MZA	SAZM	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
NEUQUEN,N	SAMZ	RS	MENDOZA/EL PLUMERILLO,MZA	SAME		T	F
RESISTENCIA,CHO	SAZN	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
RIO GALLEGOS/BRIG. GRAL. D.A. PARODI (SC)	SARE	RNS&AS	RESISTENCIA,CHO	SARE		T	F
ROSARIO,SF	SAWG	RS	COMODORO RIVADAVIA/GRAL MOSCONI,CHT	SAVC		T	F
SALTA,S.	SAAR	RS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
SAN CARLOS DE BARILOCHE,RN	SASA	RS	CORDOBA/ING. A.L.V.	SACO		T	F
SAN FERNANDO,BA	SASA	RS	TARAVELLA CBA	SACO		T	F
USHUAIA/MALVINAS ARGENTINAS (TAIS)	SAZS	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
	SADF	RG	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
	SAWH	RNS&AS	COMODORO RIVADAVIA/GRAL MOSCONI,CHT	SAVC		T	F
Aruba (Netherlands) ORANJESTAD/BEATRIX	TNCA	RS	CURACAO/AEROPUERTO HATO	TNCC		T	F
Bahamas GEORGE TOWN	MYEG	RS	NASSAU INTERNATIONAL	MYNN		T	F
GOVERNOR'S HARBOUR	MYEM	RS	NASSAU INTERNATIONAL	MYNN			N
GRAND BAHAMA INTERNATIONAL	MYGF	RS	GRAND BAHAMA INTERNATIONAL	MYGF		T	F



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
MARSH HARBOUR	MYAM	RS	NASSAU INTERNATIONAL	MYNN			N
NASSAU INTERNATIONAL	MYNN	RS	NASSAU INTERNATIONAL	MYNN		T	F
NORTH ELEUTHERA	MYEH	RS	NASSAU INTERNATIONAL	MYNN			N
SAN SALVADOR INTERNATIONAL	MYSM	RS	NASSAU INTERNATIONAL	MYNN			N
SOUTH BIMINI	MYBS	RS	NASSAU INTERNATIONAL	MYNN			N
STELLA MARIS	MYLS	RS	NASSAU INTERNATIONAL	MYNN			N
TREASURE CAY	MYAT	RS	NASSAU INTERNATIONAL	MYNN			N
Barbados GRANTLEY ADAMS, BARBADOS	TBPB	RS	GRANTLEY ADAMS, BARBADOS	TBPB	Y	T	F
Belize PHILIP S.W. GOLDSON INTERNATIONAL	MZBZ	RS	PHILIP S.W. GOLDSON INTERNATIONAL	MZBZ			P
Bolivia COCHABAMBA	SLCB	AS	COCHABAMBA	SLCB	Y	T	F
LA PAZ	SLLP	RS	LA PAZ	SLLP	Y	T	F
TARIJA	SLTJ	RNS&AS	COCHABAMBA	SLCB		T	P
TRINIDAD	SLTR	AS	LA PAZ	SLLP	Y	T	P
VIRU VIRU	SLVR	RS	VIRU VIRU	SLVR	Y	T	F
Brazil BELEM/VAL DE CANS, PA	SBBE	RS	AMAZONICA/FIR	SBAZ		T	F
BELO HORIZONTE/TANCREDO NEVES, MG	SBCF	RS	RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ	SBGL		T	F
BOA VISTA/BOA VISTA, RR	SBBV	RS	AMAZONICA/FIR	SBAZ		T	F
BRASILIA/PRES. JUSCELINO KUBITSCHKE, DF	SBBR	RS	BRASILIA/FIR	SBBS		T	F
CAMPINAS/VIRACOPOS, SP	SBKP	RS	SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR		T	F
CAMPO GRANDE/CAMPO GRANDE, MS	SBCG	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	F
CORUMBA/CORUMBA, MS	SBCR	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	P
CRUZEIRO DO SUL/CRUZEIRO DO SUL, AC	SBCZ	RS	AMAZONICA/FIR	SBAZ		T	P
CUIABA/MARECHAL RONDON, MT	SBCY	RS	BRASILIA/FIR	SBBS		T	F
CURITIBA/AFONSO PENA, PR	SBCT	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	F



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
FLORIANOPOLIS/HERCILIO LUZ,SC	SBFL		PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	F
FORTALEZA/ PINTO MARTINS, CE	SBFZ	RS	RECIFE/FIR	SBRE		T	F
FOZ DO IGUACU/CATARATAS, PR	SBFI	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	F
MACAPA/MACAPA, AP	SBMQ	RS	AMAZONICA/FIR	SBAZ		T	F
MACEIO/ZUMBI DOS PALMARES, AL	SBMO	RS	RECIFE/FIR	SBRE		T	F
MANAUS/EDUARDO GOMES, AM	SBEG	RS	AMAZONICA/FIR	SBAZ		T	F
NATAL/AUGUSTO SEVERO, RN	SBNT	AS	RECIFE/FIR	SBRE		T	F
PONTA PORA/PONTA PORA, MS	SBPP	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	P
PORTO ALEGRE/SALGADO FILHO, RS	SBPA	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	F
RECIFE/GUARARAPES - GILBERTO FREYRE, PE	SBRF	RS	RECIFE/FIR	SBRE		T	F
RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ	SBGL	RS	RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ	SBGL		T	F
SALVADOR/DEPUTADO LUIS EDUARDO MAGALHAES, BA	SBSV	RS	RECIFE/FIR	SBRE		T	F
SANTAREM/SANTAREM,PA	SBSN	AS	AMAZONICA/FIR	SBAZ		T	F
SAO LUIS/MARECHAL CUNHA MACHADO,MA	SBSL	AS	AMAZONICA/FIR	SBAZ		T	F
SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR	RS	SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR		T	F
TABATINGA/TABATINGA, AM	SBTT	RS	AMAZONICA/FIR	SBAZ		T	P
URUGUAIANA/RUBEM BERTA, RS	SBUG	RS	PORTO ALEGRE/SALGADO FILHO, RS	SBPA		T	P
British Virgin Islands (United Kingdom)							
TERRANCE B. LETTSOME,TORTOLA	TUPJ	RS	SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR.	TJSJ		T	P
VIRGIN GORDA,B.V.I	TUPW	RS	SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR.	TJSJ			N
Cayman Islands (United Kingdom)							
GERRARD SMITH INTL/CAYMAN BRAC	MWCB	RS	MIAMI INTERNATIONAL, FL	MWCR		T	F
OWEN ROBERTS INTL/GRAND CAYMAN	MWCR	RS	OWEN ROBERTS INTL/GRAND CAYMAN	MWCR		T	P



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
Chile							
ANTOFAGASTA/AD CERRO MORENO	SCFA	AS	ANTOFAGASTA/AD CERRO MORENO	SCFA	Y	T	P
ARICA/AP CHACALLUTA	SCAR	RS	ARICA/AP CHACALLUTA	SCAR		T	P
CONCEPCION/AD CARRIEL SUR	SCIE	RS	CONCEPCION/AD CARRIEL SUR	SCIE		T	F
IQUIQUE/AD DIEGO ARACENA	SCDA	RS	IQUIQUE/AD DIEGO ARACENA	SCDA		T	P
PUERTO MONTT/AD EL TEPUAL	SCTE	RS	PUERTO MONTT/AD EL TEPUAL	SCTE	Y	T	F
PUNTA ARENAS/AD PDTE. CARLOS IBANEZ	SCCI	AS	PUNTA ARENAS/AD PDTE. CARLOS IBANEZ	SCCI	Y	T	F
SANTIAGO/AP ARTURO MERINO B.	SCEL	RS	SANTIAGO/AP ARTURO MERINO B.	SCEL	Y	T	F
Colombia							
BARRANQUILLA/ATLANTICO	SKBQ	RS	BARRANQUILLA/ATLANTICO	SKBQ	Y	T	F
CALI/VALLE	SKCL	RS	CALI/VALLE	SKCL	Y	T	F
CARTAGENA/BOLIVAR	SKCG	RS	CARTAGENA/BOLIVAR	SKCG		T	F
CUCUTA/N.S/DER	SKCC	RNS&AS	CUCUTA/N.S/DER	SKCC		T	P
LETICIA/AMAZONAS	SKLT	RNS&AS	S/FE DE BOGOTA/C/MARCA	SKBO		T	P
RIONEGRO/ANTIOQUIA	SKRG	RS	RIONEGRO/ANTIOQUIA	SKRG	Y	T	F
S/FE DE BOGOTA/C/MARCA	SKBO	RS	S/FE DE BOGOTA/C/MARCA	SKBO	Y	T	F
SAN ANDRES/ILSA	SKSP	RS	SAN ANDRES/ILSA	SKSP		T	P
Costa Rica							
ALAJUELA/JUAN SANTAMARIA INTL.	MROC	RS	ALAJUELA/JUAN SANTAMARIA INTL.	MROC	Y	T	F
LIBERIA/DANIEL ODUBER QUIROS INTL.	MRLB	RNS&AS	ALAJUELA/JUAN SANTAMARIA INTL.	MROC		T	P
LIMON/INTL.	MRLM	RG	ALAJUELA/JUAN SANTAMARIA INTL.	MROC		T	P
PAVAS/TOBIAS BOLANOS INTL.	MRPV	RG	ALAJUELA/JUAN SANTAMARIA INTL.	MROC		T	P
Cuba							
CAMAGUEY/IGNACIO AGRAMONTE INTL	MUCM	RS	HABANA/JOSE MARTI INTL.	MUHA		T	F
CAYO LARGO DEL SUR/VILO ACUNA INTL.	MUCL	RS	HABANA/JOSE MARTI INTL.	MUHA		T	P
CIEGO DE AVILA/MAXIMO GOMEZ	MUCA	RS	HABANA/JOSE MARTI INTL.	MUHA		T	P
HABANA/JOSE MARTI INTL.	MUHA	RS	HABANA/JOSE MARTI INTL.	MUHA		T	F
HOLGUIN/FRANK PAIS INTL. - CIV/MIL	MUHG	RS	HABANA/JOSE MARTI INTL.	MUHA		T	F
SANTIAGO DE CUBA/ANTONIO MACEO INTL	MUCU	RS	HABANA/JOSE MARTI INTL.	MUHA		T	F



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
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1	2	3	4	5	6	7	8
VARADERO/JUAN G. GOMEZ INTL	MUVR	RS	HABANA/JOSE MARTI INTL.	MUHA		T	F
Dominica MELVILLE HALL,DOMINICA ROSEAU,DOMINICA	TDPD TDPR	RS RS	GRANTLEY ADAMS,BARBADOS GRANTLEY ADAMS,BARBADOS	TBPB TBPB		T	P N
Dominican Republic BARAHONA LA ROMANA/INTL PUERTO PLATA PUNTA CANA SANTIAGO/CIBAO SANTO DOMINGO/HERRERA SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ	MDBH MDLR MDPP MDPC MDST MDHE MDSD	RS RS RS RS RS RS RS	SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ	MDSB MDSB MDSB MDSB MDSB MDSB MDSB		T T T T T T T	P P F F F N F
Ecuador GUAYAQUIL LATACUNGA MANTA QUITO	SEGU SELT SEMT SEQU	RS RNS&AS RS RS	GUAYAQUIL GUADUAL QUITO QUITO	SEGU SEGD SEQU SEQU	Y Y	T T T T	F P F F
El Salvador AEROPUERTO INTERNACIONAL DE ILOPANGO AEROPUERTO INTERNACIONAL EL SAVADOR	MSSS MSLP	RG RS	AEROPUERTO INTERNACIONAL EL SAVADOR AEROPUERTO INTERNACIONAL EL SAVADOR	MSLP MSLP		T T	P F
French Antilles (France) FORT-DE-FRANCE-LE LAMENTIN POINTE-A-PITRE-LE RAIZET SAINT-BARTHELEMY SAINT-MARTIN-GRAND CASE	TFFF TFFR TFFJ TFFG	RS RS RS RS	FORT-DE-FRANCE-LE LAMENTIN POINTE-A-PITRE-LE RAIZET POINTE-A-PITRE-LE RAIZET POINTE-A-PITRE-LE RAIZET	TFFF TFFR TFFR TFFR	Y Y	T T T T	F F N N
French Guiana (France) CAYENNE-ROCHAMBEAU	SOCA	RS	CAYENNE-ROCHAMBEAU	SOCA	Y	T	F
Grenada							



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
LAURISTON, CARRIACOU, GRENADA, GRENADINES POINT SALINES, GRENADA	TGPZ	RS	POINT SALINES, GRENADA	TGPY			N
	TGPY	RS	POINT SALINES, GRENADA	TGPY		T	F
Guatemala LA AURORA PUERTO BARRIOS PUERTO DE SAN JOSE	MGGT	RS	LA AURORA	MGGT	Y	T	F
	MGPB	RG&AS	LA AURORA	MGGT		T	F
	MGSJ	RG&AS	LA AURORA	MGGT		T	F
Guyana CHEDDI JAGAN INTERNATIONAL	SYCJ	RS	CHEDDI JAGAN INTERNATIONAL	SYCJ	Y	T	F
Haiti CAP HAITIEN PORT-AU-PRINCE/INTL	MTCH	RS	PORT-AU-PRINCE/INTL	MTPP			N
	MTPP	RS	PORT-AU-PRINCE/INTL	MTPP		T	P
Honduras LA CEIBA/GOLOSON INTL ROATAN INTL. SAN PEDRO SULA/LA MESA TEGUCIGALPA/TONCONTIN	MHLC	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
	MHRO	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	P
	MHLM	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
	MHTG	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
Jamaica KINGSTON/NORMAN MANLEY MONTEGO BAY/SANGSTER	MKJP	RS	KINGSTON/NORMAN MANLEY	MKJP		T	F
	MKJS	RS	KINGSTON/NORMAN MANLEY	MKJP		T	F
Mexico ACAPULCO AEROPUERTO DEL NORTE BAHIAS DE HUATULCO CAMPECHE CANCUN CD. JUAREZ CHETUMAL CHIHUAHUA CIUDAD ACUNA COZUMEL CULIACAN DURANGO GUADALAJARA GUAYMAS	MMAA	RS	MEXICO	MMMX		T	F
	MMAN	RG&AS	MEXICO	MMMX		T	P
	MMBT	RNS&AS	MEXICO	MMMX		T	P
	MMCP	RG	MEXICO	MMMX		T	P
	MMUN	RS	MEXICO	MMMX		T	F
	MMCS	RG&AS	MEXICO	MMMX		T	P
	MMCM	RS	MEXICO	MMMX		T	P
	MMCU	RS	MEXICO	MMMX		T	P
	MMCC	RG	MEXICO	MMMX			N
	MMCZ	RS	MEXICO	MMMX		T	F
	MMCL	RS	MEXICO	MMMX		T	P
	MMDO	RS	MEXICO	MMMX		T	P
	MMGL	RS	MEXICO	MMMX	Y	T	F
	MMGM	RS	MEXICO	MMMX		T	P



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
HERMOSILLO	MMHO	RS	MEXICO	MMM		T	P
IXTAPA-ZIHUATANEJO	MMZH	RS	MEXICO	MMM		T	P
LA PAZ	MMLP	RS	MEXICO	MMM		T	P
LEON	MMLO	RS	MEXICO	MMM		T	P
LORETO	MMLT	RS	MEXICO	MMM		T	P
MANZANILLO	MMZO	RS	MEXICO	MMM		T	P
MATAMOROS	MMMA	RG&AS	MEXICO	MMM		T	P
MAZATLAN	MMMZ	RS	MEXICO	MMM		T	F
MERIDA	MMMD	RS	MEXICO	MMM		T	F
MEXICALI	MMML	RG	MEXICO	MMM		T	P
MEXICO	MMM	RS	MEXICO	MMM	Y	T	F
MONTERREY	MMMY	RS	MEXICO	MMM		T	F
MORELIA	MMMM	RS	MEXICO	MMM		T	P
NOGALES	MMNG	RG	MEXICO	MMM			N
NUEVO LAREDO	MMNL	RG	MEXICO	MMM		T	P
PIEDRAS NEGRAS	MMPG	RG	MEXICO	MMM		T	P
PUERTO VALLARTA	MMPR	RS	MEXICO	MMM		T	F
REYNOSA	MMRX	RG	MEXICO	MMM		T	P
SAN FELIPE	MMSF	RG	MEXICO	MMM			N
SAN JOSE DEL CABO	MMSD	RS	MEXICO	MMM		T	P
TAMPICO	MMTM	RS	MEXICO	MMM		T	P
TAPACHULA	MMTP	RNS	MEXICO	MMM		T	P
TIJUANA	MMTJ	RS	MEXICO	MMM		T	F
TOLUCA	MMTO	RNS	MEXICO	MMM		T	F
TORREON	MMTC	RS	MEXICO	MMM		T	P
VERACRUZ	MMVR	RS	MEXICO	MMM		T	F
VILLAHERMOSA	MMVA	RS	MEXICO	MMM		T	P
ZACATECAS	MMZC	RS	MEXICO	MMM		T	F
Montserrat (United Kingdom) GERALD'S AIRPORT, MONTSERRAT	TRPG	RS	GERALD'S AIRPORT, MONTSERRAT	TRPG		T	P
Netherlands Antilles (Netherlands) BONAIRE/FLAMINGO	TNCB	RS	CURACAO/AEROPUERTO HATO	TNCC		T	P
CURACAO/AEROPUERTO HATO	TNCC	RS	CURACAO/AEROPUERTO HATO	TNCC		T	F
ST. EUSTATIUS/F.D ROOSEVELT	TNCE	RS	CURACAO/AEROPUERTO HATO	TNCC			P
ST. MAARTEN/PRINCESS JULIANA	TNCM	RS	SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR.	TJSJ		T	F



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
Nicaragua							
MANAGUA//MANAGUA	MNMG	RS	MANAGUA//MANAGUA	MNMG		T	F
PUERTO CABEZAS/ZELAYA	MNPC	AS	MANAGUA//MANAGUA	MNMG		T	
Panama							
BOCAS DEL TORO/BOCAS DEL TORO	MPBO	RG&AS	PANAMA/TOCUMEN	MPTO			P
CHANGUINOLA/MANUEL NINO	MPCH	RG&AS	PANAMA/TOCUMEN	MPTO			P
DAVID/ENRIQUE MALEK	MPDA	RS	PANAMA/TOCUMEN	MPTO		T	P
PANAMA/MARCOS A. GELABERT	MPMG	RG&AS	PANAMA/TOCUMEN	MPTO		T	P
PANAMA/TOCUMEN	MPTO	RS	PANAMA/TOCUMEN	MPTO		T	F
Paraguay							
ASUNCION/S.PETTIROSSI	SGAS	RS	ASUNCION/S.PETTIROSSI	SGAS		T	F
CIUDAD DEL ESTE/GUARANI	SGES	RS	ASUNCION/S.PETTIROSSI	SGAS		T	F
Peru							
AREQUIPA/RODRIGUEZ BALLON	SPQU	AS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM	Y	T	F
CHICLAYO/CAP. JOSE ABELARDO QUINONES GONZALEZ	SPHI	AS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	F
CUSCO/VELAZCO ASTETE	SPZO	RS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM	Y	T	F
IQUITOS/CORONEL FAP FRANCISCO SECADA VIGNETTA	SPQT	RS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM	Y	T	F
LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM	RS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM	Y	T	F
PISCO	SPSO	AS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	F
TACNA/CORONEL FAP CARLOS CIRIANI SANTA ROSA	SPTN	RG	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	P
TRUJILLO/CAPITAN CARLOS MARTINEZ DE PINILLOS	SPRU	AS	LIMA-CALLAO/INTL JORGE CHAVEZ	SPIM		T	P
Puerto Rico (United States)							
AGUADILLA/RAPHAEL HERNANDEZ PR.	TJBQ	RS	NWS WFO San Juan, PR	KWBC		T	F
FAJARDO/DIEGO JIMENEZ TORRES PR.	TJFA	RS	NWS WFO San Juan, PR	KWBC		T	N
PONCE/MERCEDITA,PR.	TJPS	AS	NWS WFO San Juan, PR	KWBC		T	P
SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR.	TJSJ	RS	NWS WFO San Juan, PR	KWBC		T	F



MET 1A - ANP/FASID Region - CARSAM

Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
VIEQUES, ISLA DE VIQUES, PR.	TJVQ	RS	SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR.	TJSJ			N
Saint Kitts and Nevis ROBERT L. BRADSHAW, ST. CHRISTOPHER (ST. KITTS) AND NEVIS	TKPK	RS	NWS WFO San Juan, PR	KWBC		T	P
VANCE WINKWORTH AMORY, ST. CHRISTOPHER (ST. KITTS) AND NEVIS	TKPN	RS	V.C.BIRD,ANTIGUA	TAPA		T	P
Saint Lucia GEORGE CHARLES, SAINT LUCIA	TLPC	RS	HEWANORRA SAINT LUCIA	TLPL		T	P
HEWANORRA SAINT LUCIA	TLPL	RS	HEWANORRA SAINT LUCIA	TLPL		T	F
Saint Vincent and the Grenadines CANOUAN,ST.VINCENT AND THE GRENADINES	TVSC	RS	GRANTLEY ADAMS, BARBADOS	TBPB		T	N
E.T.JOSHUA, ST.VINCENT, AND THE GRENADINES	TVSV	RS					P
J.F. MITCHELL, BEQUIA ST.VINCENT AND THE GRENADINES	TVSB	RS					N
MUSTIQUE, ST.VINCENT AND THE GRENADINES	TVSM	RNS					N
UNION ISLAND, ST.VINCENT AND THE GRENADINES	TVSU	RS					N
Suriname J.A. PENGEL INTL.AIRP	SMJP	RS	J.A. PENGEL INTL.AIRP	SMJP		T	F
NICKERIE/MAJ. FERNANDES	SMNI	AS	J.A. PENGEL INTL.AIRP	SMJP		T	P
ZORG EN HOOP	SMZO	RG	J.A. PENGEL INTL.AIRP	SMJP		T	P
Trinidad and Tobago CROWN POINT, TOGAGO	TTCP	RS	PIARCO, TRINIDAD	TTPP		T	F
PIARCO, TRINIDAD	TTPP	RS	PIARCO, TRINIDAD	TTPP		T	F
Turks and Caicos Islands (United Kingdom) GRAND TURK	MBGT	RS	NASSAU INTERNATIONAL	MYNN		T	P
PROVIDENCIALES	MBPV	RS	NASSAU INTERNATIONAL	MYNN		T	P
SOUTH CAICOS	MBSC	RS	NASSAU INTERNATIONAL	MYNN		T	P



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Aerodrome where service is to be provided			Responsible MET Office		Forecasts to be provided		Availability of OPMET
AeroName	ICAO Location Indicator	Use	Name	ICAO Location Indicator	TR	TAF	
1	2	3	4	5	6	7	8
Uruguay							
COLONIA/INTL "LAGUNA DE LOS PATOS"	SUCA	RG	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU		T	P
MALDONADO/ INTL C/C CARLOS A.CURBELO "LAGUNA DEL SAUCE"	SULS	RS	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU		T	F
MONTEVIDEO/AD ANGEL S. ADAMI	SUAA	RG	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU		T	P
MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU	RS	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU	Y	T	F
RIVERA/INTL. PRESIDENTE GENERAL (PILOTO AVIADOR MILITAR) DON OSCAR D. GESTIDO	SURV	RS	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU		T	P
SALTO/INTL.NUEVA HESPERIDES	SUSO	RG	MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"	SUMU		T	P
Venezuela							
BARCELONA, ANZOATEGUI	SVBC	RNS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI		T	F
MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI	RS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI	Y	T	F
MARACAIBO, ZULIA	SVMC	RS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI		T	F
MARGARITA, NUEVA ESPARTA	SVMG	RS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI		T	F
PARAGUANA, JOSEFA CAMEJO, FALCON	SVJC	RS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI		T	P
SAN ANTONIO DEL TACHIRA, TACHIRA	SVSA	RS	MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS	SVMI		T	P
VALENCIA, CARABOBO	SVVA	RS	VALENCIA, CARABOBO	SVVA		T	P
Virgin Islands (United States)							
CHARLOTTE AMALIE ST. THOMAS/CYRIL E. KING, VI.	TIST	RS	NWS WFO SAN JUAN, PR	KWBC		T	F
HENRY.E.ROHLSSEN	TISX	RS	NWS WFO SAN JUAN, PR	KWBC		T	F

FASID Table MET 1B — Tableau MET 1B — Tabla MET 1B DEL FASID

METEOROLOGICAL WATCH OFFICES CENTRES DE VEILLE MÉTÉOROLOGIQUE OFICINAS DE VIGILANCIA METEOROLÓGICA

EXPLANATION OF THE TABLE

Column

- | | |
|---|--|
| 1 | Location of the meteorological watch office (MWO) |
| 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. — 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.

EXPLICATION DU TABLEAU

Colonne

- | | |
|---|--|
| 1 | Emplacement du centre de veille météorologique (MWO) |
| 2 | Indicateur d'emplacement OACI du MWO |
| 3 | Nom de la FIR, de l'UIR et/ou de la région de recherches et de sauvetage (SRR) desservie(s) par le MWO |
| 4 | Indicateur d'emplacement OACI des organismes ATS desservant la FIR, l'UIR et/ou les SRR |
| 5 | Remarques |

Note.— Sauf indication contraire dans la colonne 5, le MWO indiqué dans la colonne 1 est le centre collecteur désigné des comptes rendus en vol reçus dans la FIR/UIR figurant dans la colonne 3.

EXPLICACIÓN DE LA TABLA

Columna

- 1 Lugar de la oficina de vigilancia meteorológica (MWO)
- 2 Indicador de lugar de la OACI asignado a la MWO
- 3 Nombre de las FIR, UIR o región de búsqueda y salvamento (SRR) a las que presta servicio la MWO
- 4 Nombre del indicador de lugar asignado a la dependencia ATS que presta servicio a las FIR, UIR o SRR
- 5 Observaciones

Nota.— Salvo indicación distinta en la Columna 5, la MWO que figura en la Columna 1 es el centro colector designado para las aeronotificaciones recibidas en las FIR/UIR correspondientes reseñadas en la Columna 3.

MWO location Emplacement du MWO Lugar de la MWO	ICAO loc.ind. Ind. d'empl. OACI Ind. lugar OACI	Area served/Région desservie/Zona atendida		Remarks Remarques Observaciones
		Name Nom Nombre	ICAO loc. ind. Ind. d'empl. OACI Ind. lugar OACI	
1	2	3	4	5
ARGENTINA				
BUENOS AIRES/Aeroparque, Jorge Newbery	SABE	Ezeiza FIR/SRR Ezeiza ACC/UIR	SAEF SAEU	
COMODORO RIVADAVIA/General Mosconi	SAVC	Comodoro Rivadavia FIR/SRR Comodoro Rivadavia ACC/UIR	SAVF SAVU	
CORDOBA/Ing. Aer. A.L. Taravela	SACO	Córdoba FIR/SRR Córdoba ACC/UIR	SACF SACU	
MENDOZA/EI Plumerillo	SAME	Mendoza FIR/SRR Mendoza ACC/UIR	SAMF SAMV	
RESISTENCIA/Resistencia	SARE	Resistencia FIR/SRR Resistencia ACC/UIR	SARR SARU	
BOLIVIA				
LA PAZ/EI Alto Intl	SLLP	La Paz FIR/SRR	SLLP	
BRAZIL				
BRASILIA/CINDACTA I	SBBS	Brasilia FIR/UIR/SRR	SBBS	
CURITIBA/CINDACTA II	SBCW	Curitiba FIR/UIR/UTA/SRR	SBCW	
MANAUS/CINDACTA IV	SBAZ	Amazónica FIR/UIR/SRR	SBAZ	
RECIFE/CINDACTA III	SBRE	Recife FIR/UIR/SRR Atlántico FIR/UIR/SRR	SBRE SBAO	
CHILE				
ANTOFAGASTA/Cerro Moreno SANTIAGO/Arturo Merino Benitez	SCFA SCEL	Antofagasta FIR/SRR	SCFZ	During the night SCEL assumes functions of Meteorological Watch Office for SCFZ FIR / En horario nocturno SCEL asume las funciones de oficina de vigilancia meteorológica para la FIR SCFZ
PUERTO MONTT/EI Tepual	SCTE	Puerto Montt FIR/SRR	SCTZ	
PUNTA ARENAS/Pdte. C. Ibañez del Campo	SCCI	Punta Arenas FIR/SRR	SCCZ	
SANTIAGO/Arturo Merino Benitez	SCEL	Santiago FIR/SRR	SCEZ	
COLOMBIA				
BOGOTÁ/Eldorado	SKBO	Bogotá FIR/UIR/SRR Barranquilla FIR below/por debajo de FL200 (cf. Bogotá UIR)	SKED SKEC	
CUBA				
HABANA/José Martí Intl	MUHA	Habana FIR/SRR	MUFH	
DOMINICAN REPUBLIC				
SANTO DOMINGO/De Las Américas Intl	MDSO	Santo Domingo FIR/SRR	MDCS	
ECUADOR				
GUAYAQUIL/José Joaquín de Olmedo	SEGU	Guayaquil FIR/SRR	SEGU	

MWO location Emplacement du MWO Lugar de la MWO	ICAO loc.ind. Ind. d'empl. OACI Ind. lugar OACI	Area served/Région desservie/Zona atendida		Remarks Remarques Observaciones
		Name Nom Nombre	ICAO loc. ind. Ind. d'empl. OACI Ind. lugar OACI	
1	2	3	4	5
FRENCH GUIANA (France)				
CAYENNE/Rochambeau	SOCA	Rochambeau FIR Cayenne SRR	S000	
GUYANA				
TIMEHRI/Cheddi Jagan Intl	SYCJ	Georgetown FIR/SRR	SYGC	
HAITI				
PORT-AU-PRINCE/Port-au-Prince Intl	MTPP	Port-au-Prince FIR/SRR	MTEG	
HONDURAS				
TEGUCIGALPA/Toncontin Intl	MHTG	Central American FIR/SRR FIR/SRR Centroamericana	MHTG	The Tegucigalpa MWO serves Central American FIR/SSR, which is under the Corporación Centroamericana para los Servicios de Navegación Aérea (COCESNA)'s responsibility, comprising Belize, Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua./ La MWO de Tegucigalpa presta servicios a la FIR/SSR de Centroamérica, que está a cargo de la Corporación Centroamericana para los Servicios de Navegación Aérea (COCESNA) conformada por Belice, Costa Rica, El Salvador, Guatemala, Honduras y Nicaragua.
JAMAICA				
KINGSTON/Norman al Manley Intl	MKJP	Kingston FIR/SRR	MKJK	
MÉXICO				
MEXICO/Lic. Benito Juárez Intl	MMMX	Mazatlán Oceanic FIR/UIR México FIR/UIR/SRR	MMZT MMEX	
NETHERLANDS ANTILLES (Netherlands)				
WILLEMSTAD/Hato, Curaçao I.	TNCC	Curaçao FIR/SRR	TNCF	
PANAMA				
PANAMA/Tocumen Intl	MPTO	Panamá FIR/SRR	MPZL	
PARAGUAY				
ASUNCION/Silvio Pettrossi	SGAS	Asunción FIR/UIR/SRR	SGFA	
PERU				
LIMA-CALLAO/Jorge Chávez Intl	SPIM	Lima FIR/UIR/SRR	SPIM	
SURINAME				
ZANDERY/Johan Adolf Pengel Intl	SMJP	Paramaribo FIR/UIR	SMPM	
TRINIDAD AND TOBAGO				
PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP	Piarco FIR/SRR	TTZP	

MWO location Emplacement du MWO Lugar de la MWO	ICAO loc.ind. Ind. d'empl. OACI Ind. lugar OACI	Area served/Région desservie/Zona atendida		Remarks Remarques Observaciones
		Name Nom Nombre	ICAO loc. ind. Ind. d'empl. OACI Ind. lugar OACI	
1	2	3	4	5
UNITED STATES				
Kansas City Aviation Weather Center	KKCI	Houston Oceanic FIR Miami Oceanic FIR/SRR San Juan FIR/SRR	KZHU KZMA TJZS	
URUGUAY				
MONTEVIDEO/Carrasco Intl Gral. Cesáreo L. Berisso	SUMU	Montevideo FIR/SRR	SUEO	
VENEZUELA				
CARACAS/Simon Bolivar Intl, Maiquetia	SVMI	Maiquetia FIR/UIR/SRR	SVZM	



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 - CARSAM

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
GRANTLEY ADAMS, BARBADOS		TBPB	Y	T	F
Belize PHILIP S.W. GOLDSON INTERNATIONAL		MZBZ	Y	T	F
Bolivia COCHABAMBA	<i>COBIJA</i>	SLCO	Y	T	P
		SLCB	Y	T	F
LA PAZ	<i>EL TROMPILLO</i>	SLET	Y	T	P
		SLLP	Y	T	
	<i>PUERTO SUAREZ</i>	SLPS	Y	T	P
TARIJA	<i>SUCRE</i>	SLSU	Y	T	P
TRINIDAD		SLTJ	Y	T	P
VIRU VIRU		SLTR	Y	T	P
		SLVR	Y	T	F
Brazil BELEM/VAL DE CANS, PA		SBBE	Y	T	F
BELO HORIZONTE/TANCREDO NEVES, MG		SBCF	Y	T	F
BOA VISTA/BOA VISTA, RR		SBBV	Y	T	F
BRASILIA/PRES. JUSCELINO KUBITSCHEK, DF		SBBR	Y	T	F
CAMPINAS/VIRACOPOS, SP		SBKP	Y	T	F
CAMPO GRANDE/CAMPO GRANDE, MS		SBCG	Y	T	F
CORUMBA/CORUMBA, MS		SBCR	Y	T	P
CRUZEIRO DO SUL/CRUZEIRO DO SUL, AC		SBCZ	Y	T	P
CUIABA/MARECHAL RONDON, MT		SBCY	Y	T	F
CURITIBA/AFONSO PENA, PR		SBCT	Y	T	F
FLORIANOPOLIS/HERCILIO LUZ, SC		SBFL	Y	T	F
FORTALEZA/ PINTO MARTINS, CE		SBFZ	Y	T	F
FOZ DO IGUAÇU/CATARATAS, PR		SBFI	Y	T	F
MACAPA/MACAPA, AP		SBMQ	Y	T	F
MACEIO/ZUMBI DOS PALMARES, AL		SBMO	Y	T	F
MANAUS/EDUARDO GOMES, AM		SBEG	Y	T	F
NATAL/AUGUSTO SEVERO, RN		SBNT	Y	T	F
PONTA PORA/PONTA PORA, MS		SBPP	Y	T	P
PORTO ALEGRE/SALGADO FILHO, RS		SBPA	Y	T	F
RECIFE/GUARARAPES - GILBERTO FREYRE, PE		SBRF	Y	T	F
RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ		SBGL	Y	T	F
SALVADOR/DEPUTADO LUIS EDUARDO MAGALHAES, BA		SBSV	Y	T	F
SANTAREM/SANTAREM, PA		SBSN	Y	T	F
SAO LUIS/MARECHAL CUNHA MACHADO, MA		SBSL	Y	T	F



MET 2A - CARSAM

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
Costa Rica ALAJUELA/JUAN SANTAMARIA INTL. LIBERIA/DANIEL ODUBER QUIROS INTL. LIMON/INTL. PAVAS/TOBIAS BOLANOS INTL.	<i>CAYO COCO/JARDINES DEL REY</i>	MROC	Y	T	F
		MRLB	Y	T	P
		MRLM	Y	T	P
		MRPV	Y	T	P
Cuba CAMAGUEY/IGNACIO AGRAMONTE INTL CAYO LARGO DEL SUR/VILO ACUNA INTL. CIEGO DE AVILA/MAXIMO GOMEZ HABANA/JOSE MARTI INTL. HOLGUIN/FRANK PAIS INTL. - CIV/MIL SANTIAGO DE CUBA/ANTONIO MACEO INTL VARADERO/JUAN G. GOMEZ INTL		MUCM	Y	T	P
		MUCC	Y	T	F
		MUCL	Y	T	P
		MUCA	Y	T	P
		MUHA	Y	T	F
		MUHG	Y	T	F
		MUCU	Y	T	F
		MUVR	Y	T	F
Dominica MELVILLE HALL,DOMINICA ROSEAU,DOMINICA		TDPD	Y	T	F
		TDPR	Y	T	F
Dominican Republic BARAHONA LA ROMANA/INTL PUERTO PLATA PUNTA CANA SANTIAGO/CIBAO SANTO DOMINGO/HERRERA SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ		MDBH	Y	T	F
		MDLR	Y	T	F
		MDPP	Y	T	F
		MDPC	Y	T	F
		MDST	Y	T	F
		MDHE	Y	T	F
		MDSD	Y	T	F
Ecuador GUAYAQUIL LATACUNGA MANTA QUITO	SEGU	Y	T	F	
	SELT	Y	T	P	
	SEMT	Y	T	F	
	SEQU	Y	T	F	
El Salvador AEROPUERTO INTERNACIONAL DE ILOPANGO AEROPUERTO INTERNACIONAL EL SAVADOR	MSSS	Y	T	P	
	MSLP	Y	T	F	
French Antilles (France) FORT-DE-FRANCE-LE LAMENTIN POINTE-A-PITRE-LE RAIZET SAINT-BARTHELEMY	TFFF	Y	T	F	
	TFFR	Y	T	F	
	TFFJ	Y	T	F	



MET 2A - CARSAM

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
SAINT-MARTIN-GRAND CASE		TFFG	Y	T	F
French Guiana (France) CAYENNE-ROCHAMBEAU		SOCA	Y	T	F
Grenada LAURISTON, CARRIACOU, GRENADA, GRENADINES POINT SALINES, GRENADA		TGPZ	Y	T	F
		TGPY	Y	T	F
Guatemala LA AURORA PUERTO BARRIOS PUERTO DE SAN JOSE		MGGT	Y	T	F
		MGPB	Y	T	F
		MGSJ	Y	T	F
		MGTK	Y	T	F
Guyana CHEDDI JAGAN INTERNATIONAL		SYCJ	Y	T	F
Haiti CAP HAITIEN PORT-AU-PRINCE/INTL		MTCH	Y	T	F
		MTPP	Y	T	F
Honduras LA CEIBA/GOLOSON INTL ROATAN INTL. SAN PEDRO SULA/LA MESA TEGUCIGALPA/TONCONTIN		MHLC	Y	T	F
		MHRO	Y	T	P
		MHLM	Y	T	F
		MHTG	Y	T	F
Jamaica KINGSTON/NORMAN MANLEY MONTEGO BAY/SANGSTER		MKJP	Y	T	F
		MKJS	Y	T	F
Mexico ACAPULCO AEROPUERTO DEL NORTE		MMAA	Y	T	F
		MMAN	Y	T	P
		MMAS	Y	T	P
		MMBT	Y	T	P
		MMCP	Y	T	P
		MMUN	Y	T	F
		MMCS	Y	T	P
		MMCV	Y	T	P
		MMCM	Y	T	P
		MMCU	Y	T	P
		MMCC			N
	<i>TIKAL</i>				
	<i>AGUASCALIENTES</i>				
	<i>CD. VICTORIA</i>				



MET 2A - CARSAM

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
	<i>CIUDAD DEL CARMEN</i>	MMCE	Y	T	P
	<i>CIUDAD OBREGON</i>	MMCN	Y	T	P
	<i>COLIMA</i>	MMIA	Y	T	F
COZUMEL		MMCZ	Y	T	F
	<i>CUERNAVACA</i>	MMCB	Y	T	P
CULIACAN		MMCL	Y	T	P
DURANGO		MMDO	Y	T	P
GUADALAJARA		MMGL	Y	T	F
GUAYMAS		MMGM	Y	T	P
HERMOSILLO		MMHO	Y	T	P
IXTAPA-ZIHUATANEJO		MMZH	Y	T	P
LA PAZ		MMLP	Y	T	P
LEON		MMLO	Y	T	P
LORETO		MMLT	Y	T	P
	<i>LOS MOCHIS</i>	MMLM	Y	T	P
MANZANILLO		MMZO	Y	T	P
MATAMOROS		MMMA	Y	T	P
MAZATLAN		MMMZ	Y	T	F
MERIDA		MMMD	Y	T	F
MEXICALI		MMML	Y	T	P
MEXICO		MMMX	Y	T	F
	<i>MINATITLAN</i>	MMMT	Y	T	P
MONTERREY		MMMY	Y	T	F
MORELIA		MMMM	Y	T	P
NOGALES		MMNG			N
NUEVO LAREDO		MMNL	Y	T	P
	<i>OAXACA</i>	MMOX	Y	T	P
PIEDRAS NEGRAS		MMPG	Y	T	P
	<i>POZA RICA</i>	MMPA	Y	T	P
	<i>PUEBLA</i>	MMPB	Y	T	P
	<i>PUERTO ESCONDIDO</i>	MMPS	Y	T	P
PUERTO VALLARTA		MMPR	Y	T	F
	<i>QUERETARO</i>	MMQT	Y	T	P
REYNOSA		MMRX	Y	T	P
	<i>SALTILLO</i>	MMIO	Y	T	F
SAN FELIPE		MMSF			N
SAN JOSE DEL CABO		MMSD	Y	T	P
	<i>SAN LUIS POTOSI</i>	MMSP	Y	T	F
TAMPICO		MMTM	Y	T	P
TAPACHULA		MMTP	Y	T	P
	<i>TEPIC</i>	MMEP	Y	T	P
TIJUANA		MMTJ	Y	T	F
TOLUCA		MMTO	Y	T	F
TORREON		MMTC	Y	T	P



MET 2A - CARSAM

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
VERACRUZ VILLAHERMOSA ZACATECAS	<i>TUXTLA GUTIERREZ (CIV)</i> <i>URUAPAN</i>	MMTG MMPN MMVR MMVA MMZC	Y Y Y Y Y	T T T T T	P P F P P
Montserrat (United Kingdom) GERALD'S AIRPORT, MONTSERRAT		TRPG	Y	T	P
Netherlands Antilles (Netherlands) BONAIRE/FLAMINGO CURACAO/AEROPUERTO HATO ST. EUSTATIUS/F.D ROOSEVELT ST. MAARTEN/PRINCESS JULIANA		TNCB TNCC TNCE TNCM	Y Y Y Y	T T T T	P F P F
Nicaragua MANAGUA/MANAGUA PUERTO CABEZAS/ZELAYA		MNMG MNPC	Y Y	T T	F P
Panama BOCAS DEL TORO/BOCAS DEL TORO CHANGUINOLA/MANUEL NINO DAVID/ENRIQUE MALEK PANAMA/MARCOS A. GELABERT PANAMA/TOCUMEN		MPBO MPCH MPDA MPMG MPTO	Y Y Y Y Y	 T T T	P P P P F
Paraguay ASUNCION/S.PETTIROSSI CIUDAD DEL ESTE/GUARANI		SGAS SGES	Y Y	T T	F F
Peru AREQUIPA/RODRIGUEZ BALLON	<i>ANDAHUAYLAS</i>	SPHY SPQU SPHO	Y Y Y	T T T	P F P
	<i>AYACUCHO/CORONEL FAP ALFREDO MENDIVIL DUARTE</i> <i>CAJAMARCA/MAYOR GENERAL FAP ARMANDO REVOREDO IGLESIAS</i>	SPJR	Y	T	P
CHICLAYO/CAP. JOSE ABELARDO QUINONES GONZALEZ CUSCO/VELAZCO ASTETE		SPHI	Y	T	F
IQUITOS/CORONEL FAP FRANCISCO SECADA VIGNETTA	<i>ILO</i>	SPZO SPLO SPQT	Y Y Y	T T T	F F F



MET 2A - CARSAM

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
LIMA-CALLAO/INTL JORGE CHAVEZ PISCO	JUANJUI JULIACA	SPJI SPJL SPIM SPSO	Y Y Y Y	T T T T	P P F F
TACNA/CORONEL FAP CARLOS CIRIANI SANTA ROSA	PTO. MALDONADO/PADRE ALDAMIZ PUCALLPA/DAVID ABENSUR R.	SPTU SPCL SPTN	Y Y Y	T T T	P P P
TRUJILLO/CAPITAN CARLOS MARTINEZ DE PINILLOS	TALARA/CAPITAN MONTES TARAPOTO/CDTE. GUILLERMO DEL CASTILLO PAREDES TINGO MARIA	SPYL SPST SPGM SPRU	Y Y Y Y	T T T T	P P P P
Puerto Rico (United States) AGUADILLA/RAPHAEL HERNANDEZ PR. FAJARDO/DIEGO JIMENEZ TORRES PR. PONCE/MERCEDITA,PR. SAN JUAN/LUIS MUNOZ MARIN INTERNATIONAL, PR. VIEQUES,ISLA DE VIQUES,PR.	TUMBES/PEDRO CANGA YURIMAGUAS/MOISES BENZAQUEN RENGIFO MAYAGUEZ/EUGENIO MARIA DE HOSTOS, PR. ROOSEVELT ROADS NAS,PR.	SPME SPMS TJBQ TJFA TJMZ TJPS TJNR TJSJ TJVQ	Y Y Y Y Y Y Y Y	T T T T T T T	P P P N P F N F N
Saint Kitts and Nevis ROBERT L. BRADSHAW, ST. CHRISTOPHER (ST. KITTS) AND NEVIS VANCE WINKWORTH AMORY, ST. CHRISTOPHER (ST. KITTS) AND NEVIS		TKPK TKPN	Y Y	T T	P P
Saint Lucia GEORGE CHARLES, SAINT LUCIA HEWANORRA SAINT LUCIA		TLPC TLPL	Y Y	T T	P F
Saint Vincent and the Grenadines CANOUAN,ST.VINCENT AND THE GRENADINES E.T.JOSHUA,ST.VINCENT, AND THE GRENADINES J.F. MITCHELL,BEQUIA ST.VINCENT AND THE GRENADINES MUSTIQUE,ST.VINCENT AND THE GRENADINES		TVSC TVSV TVSB TVSM	 Y Y	 T T	 N P N N



MET 2A - CARSAM

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
UNION ISLAND,ST.VINCENT AND THE GRENADINES		TVSU			N
Suriname J.A. PENGEL INTL.AIRP NICKERIE/MAJ. FERNANDES ZORG EN HOOP		SMJP SMNI SMZO	Y Y Y	T T T	F P P
Trinidad and Tobago CROWN POINT,TOGAGO PIARCO,TRINIDAD		TTCP TTPP	Y Y	T T	F F
Turks and Caicos Islands (United Kingdom) GRAND TURK PROVIDENCIALES SOUTH CAICOS		MBGT MBPV MBSC	Y Y Y	T T T	P P P
United Kingdom	MOUNT PLEASANT	EGYP	Y	C	F
Uruguay COLONIA/INTL "LAGUNA DE LOS PATOS"		SUCA SUDU	Y Y	T T	P F
MALDONADO/ INTL C/C CARLOS A.CURBELO "LAGUNA DEL SAUCE"	DURAZNO/SANTA BERNARDINA INTL. DE ALTERNATIVA	SULS	Y	T	F
MONTEVIDEO/AD ANGEL S. ADAMI		SUAA	Y	T	P
MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO"		SUMU	Y	T	F
RIVERA/INTL. PRESIDENTE GENERAL (PILOTO AVIADOR MILITAR) DON OSCAR D. GESTIDO		SURV	Y	T	P
SALTO/INTL.NUEVA HESPERIDES		SUSO	Y	T	P
Venezuela	ACARIGUA, PORTUGUESA	SVAC	Y	T	F
	B.A. GENERALISIMO FRANCISCO DE MIRANDA, CARACAS, MIRANDA	SVFM	Y	T	F
BARCELONA, ANZOATEGUI		SVBC	Y	T	F
	BARINAS, BARINAS	SVBI	Y	T	F
	BARQUISIMETO, LARA	SVBM	Y	T	F
	CALABOZO, GUARICO	SVCL	Y	T	F
	CIUDAD BOLIVAR, BOLIVAR	SVCB	Y	T	F
	CORO, FALCON	SVCR	Y	T	F
	CUMANA, SUCRE	SVCU	Y	T	F



MET 2A - CARSAM

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	
MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS MARACAIBO, ZULIA MARGARITA, NUEVA ESPARTA PARAGUANA, JOSEFA CAMEJO, FALCON SAN ANTONIO DEL TACHIRA, TACHIRA VALENCIA, CARABOBO Virgin Islands (United States) CHARLOTTE AMALIE ST. THOMAS/CYRIL E. KING, VI. HENRY.E.ROHLSSEN	GUANARE, PORTUGUESA GUIRIA, SUCRE	SVGU SVGI SVMI	Y Y Y	T T T	F F F	
	MATURIN, MONAGAS MERIDA, MERIDA	SVMC SVMG SVMT SVMD SVJC	Y Y Y Y Y	T T T T T	F F F F P	
		PUERTO AYACUCHO, AMAZONAS	SVPA	Y	T	F
		SAN FERNANDO DE APURE, APURE SAN JUAN DE LOS MORROS, GUARICO SANTO DOMINGO, B.A.MAYOR BUENAVENTURA VIVAS, TACHIRA TUMEREMO, BOLIVAR	SVSA SVSR SVJM SVSO	Y Y Y Y	T T T T	P F F F
		VALLE DE LA PASCUA, GUARICO	SVTM SVVA SVVP	Y Y Y	T T T	F P F
			TIST	Y	T	F
			TISX	Y	T	F

FASID Table MET 2B — Tabla MET 2B DEL FASID

REGIONAL EXCHANGE OF OPERATIONAL METEOROLOGICAL INFORMATION WITHIN THE CAR/SAM REGIONS INTERCAMBIO REGIONAL DE INFORMACIÓN METEOROLÓGICA OPERACIONAL DENTRO DE LAS REGIONES CAR/SAM

EXPLANATION OF THE TABLE

Column 1:	Name of the aerodrome
Column 2:	Location indicator
Column 3:	F = METAR/SPECI + TAF S = METAR/SPECI T = TAF

EXPLICACIÓN DE LA TABLA

Columna 1:	Nombre del aeródromo
Columna 2:	Indicador de lugar
Columna 3:	F = METAR/SPECI + TAF S = METAR/SPECI T = TAF

Note: Aerodromes not included in Table AOP 1 are in italics/los aeródromos que no están listados en la Tabla AOP 1 aparecen en letra cursiva.

FASID Table MET 3A — Tabla MET 3A DEL FASID**TROPICAL CYCLONE ADVISORY CENTRE
CENTRO DE AVISOS DE CICLONES TROPICALES****EXPLANATION OF THE TABLE**

- 1 Location of the tropical cyclone advisory centre (TCAC).
- 2 ICAO location indicator of TCAC.
- 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 MWO to which the advisory information on tropical cyclones should be sent.
- 6 Location indicator assigned to the MWO in Column 4.

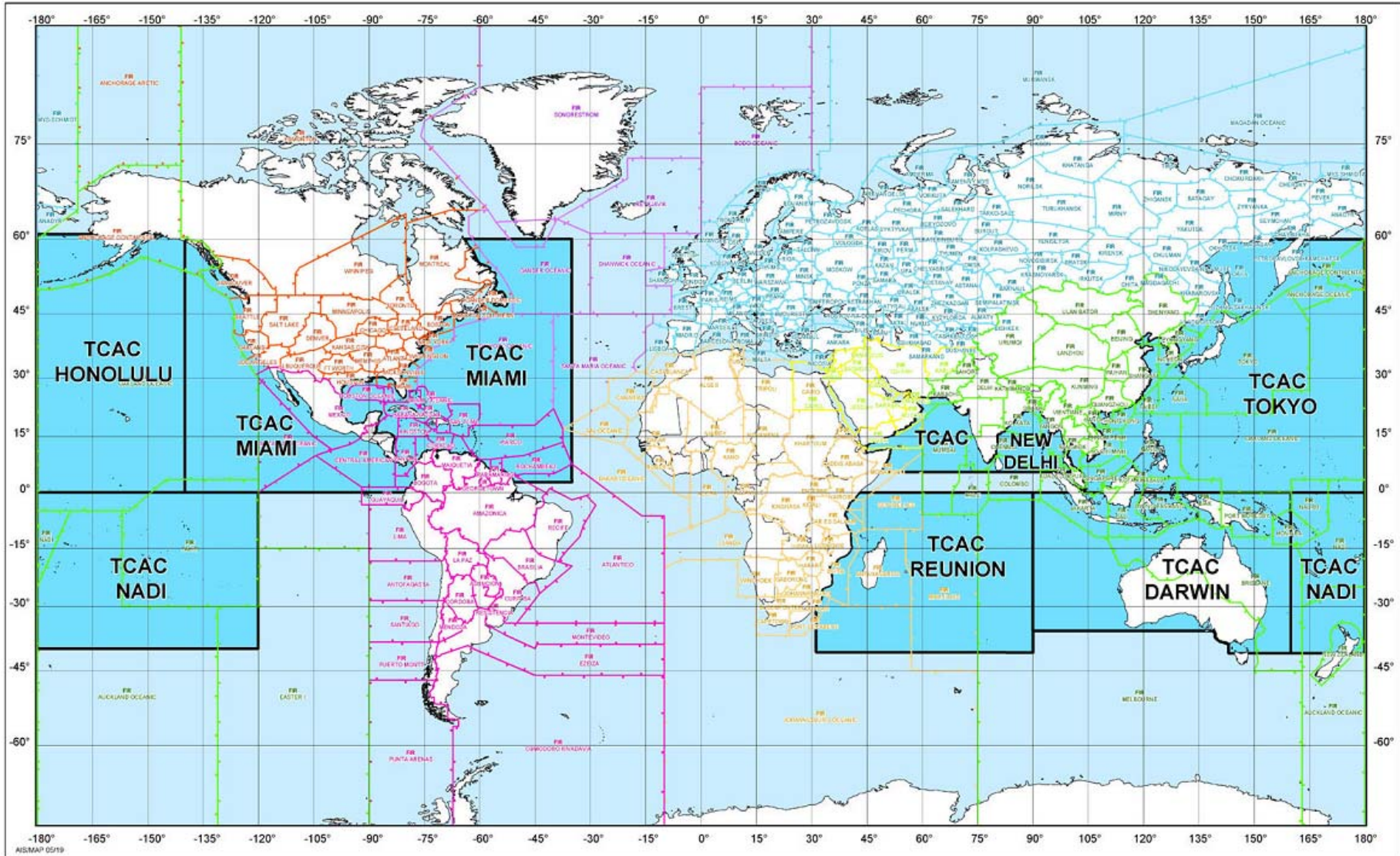
EXPLICACIÓN DE LA TABLA*Columna*

- 1 Lugar del centro de avisos de ciclones tropicales (TCAC).
- 2 Indicador de lugar del TCAC
- 3 Zona de responsabilidad para la preparación de la información de asesoramiento sobre ciclones tropicales por el TCAC en la Columna 1.
- 4 Período de operación del TCAC.
- 5 MWO a la que debe enviarse la información de asesoramiento sobre ciclones tropicales.
- 6 Indicador de lugar de la OACI asignado a la MWO de la Columna 4.

FASID Table MET 3A — Tabla MET 3A DEL FASID

Tropical cyclone advisory centre/Centro de avisos de ciclones tropicales	ICAO Loc. Ind. / Ind. De Lugar OACI	Area of responsibility/ Zona de responsabilidad	Period of operation/ Período de operación	MWO to which advisory information is to be sent/ MWO a la que debe enviarse información de asesoramiento	
				Name/ Nombre	ICAO Loc. Ind./ Ind. de Lugar OACI
1	2	3	4	5	6
Miami (United States) (Estados Unidos)	KWBC	Tropical Atlantic, Caribbean Sea, Gulf of Mexico Relevant parts of the Pacific East of E140° Atlántico Tropical, Mar del Caribe, Golfo de México Partes pertinentes del Pacífico al este de los 140° E	1 June – 30 November 1 de junio – 30 noviembre	Amazónico/CINDACTA IV Bogotá Brasilia/CINDACTA I Caracas Cayenne Curitiba/CINDACTA II Timehri Habana Kingston México Kansas City Panama Port of Spain Port-au-Prince Recife Santo Domingo Tegucigalpa Willemstad Zandery	SBAZ SKBO SBBS SVMJ SOCA SBCW SYCJ MUHA MKJP MMMX KKCI MPTO TTPP MTPP SBRE MDSO MHTG TNCC SMJP

CURRENT STATUS OF ICAO TROPICAL CYCLONE ADVISORY CENTRES (TCAC) – AREAS OF RESPONSIBILITY
SITUATION ACTUELLE DES CENTRES D'AVIS DE CYCLONES TROPICAUX (TCAC) OACI – ZONES DE RESPONSABILITÉ
SITUACIÓN ACTUAL DE LOS CENTROS DE AVISOS DE CICLONES TROPICALES, OACI (TCAC) – ZONAS DE RESPONSABILIDAD



FASID Table MET 3B — Tableau MET 3B — Tabla MET 3B DEL FASID**VOLCANIC ASH ADVISORY CENTRE
CENTRO DE AVISOS DE CENIZAS VOLCÁNICAS**

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 VAAC, WMOs and ACCs/FICs are located.
- 6 MWOs to which the advisory information on volcanic ash should be sent.
- 7 ICAO location indicator of the MWOs in Column 6.
- 8 ACCs/FICs to which the advisory information on volcanic ash should be sent.
- 9 ICAO location indicator of the ACCs/FICs in Column 8.

EXPLICACIÓN DE LA TABLA

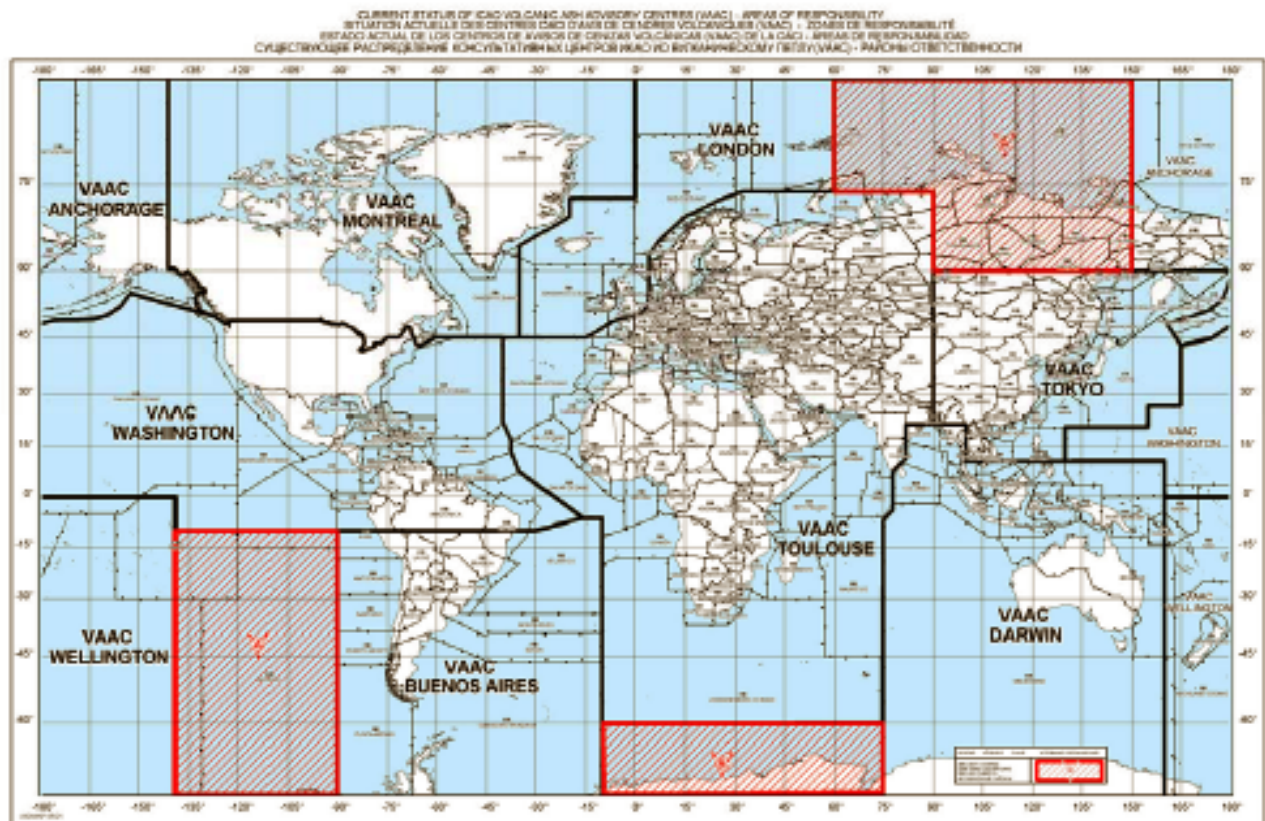
Columna

- 1 Nombre del centro de aviso de cenizas volcánicas (VAAC)
- 2 Indicador de lugar de la OACI del VAAC (para uso en el encabezamiento abreviado de la OMM de los boletines de los avisos).
- 3 Zona de responsabilidad para la preparación de la información de asesoramiento sobre cenizas volcánicas por el VAAC de la Columna 1.
- 4 Estado Contratante de la OACI donde las MWO y los ACC/FIC están localizados.
- 5 Región de la OACI donde el VAAC, la MWO y el ACC/FIC están localizados.
- 6 MWO a las que debe enviarse la información de asesoramiento sobre cenizas volcánicas.
- 7 Indicador de lugar de la OACI de la MWO de la Columna 6.
- 8 ACC a las que debe enviarse la información de asesoramiento sobre cenizas volcánicas.
- 9 Indicador de lugar de la OACI de los ACC/FIC de la Columna 8.

FASID Table MET 3B — Tableau MET 3B — Tabla MET 3B DEL FASID

Volcanic ash advisory centre/Centro de aviso de ceniza volcánica		Area of responsibility/ Zona de responsabilidad	State/ Estado	ICAO Region/ Región de la OACI	MWO to which the information is to be sent/MWO a la que se enviará la información		ACC/FIC to which the information is to be sent/ACC/FIC a la que se enviará la información		
Name/ Nombre	ICAO Loc. Ind. de Lugar OACI				Name/ Nombre	ICAO Loc. Ind. de Lugar OACI	Name/ Nombre	ICAO Loc. Ind. de Lugar OACI	
1	2	3	4	5	6	7	8	9	
Buenos Aires (Argentina)	SABM	South of S10° between W10° and W90° Al sur de los 10°S entre 10°W y 90°W	Argentina	SAM	Buenos Aires (Aeroparque)	SABE	Ezeiza	SAEF/ SAEU	
					Comodoro Rivadavia	SAVC	Comodoro Rivadavia	SAVF/ SAVU	
					Córdoba	SACO	Córdoba	SACF/ SACU	
					Mendoza	SAME	Mendoza	SAMF/ SAMV	
					Resistencia	SARE	Resistencia	SARR/ SARU	
					Bolivia	La Paz	SLLP	La Paz	SLLF
					Brazil	Amazónico/CINDACTA IV	SBAZ	Amazónica	SBAZ
						Brasília/CINDACTA I	SBBS	Brasília	SBBS
						Curitiba/CINDACTA II	SBCW	Curitiba	SBCW
						Recife/CINDACTA III	SBRE	Recife	SBRE
						Recife/CINDACTA III	SBRE	Atlántico	SBAO
						Antofagasta	SCFA	Antofagasta	SCFZ
						Puerto Montt	SCTE	Puerto Montt	SCTZ
						Punta Arenas	SCCI	Punta Arenas	SCCZ
						Santiago	SCEL	Santiago	SCEZ
						Paraguay	SGAS	Asunción	SGFA
						Peru	SPIM	Lima	SPIM
		Uruguay	SUMU	Montevideo	SUEO				
Washington (United States)	KNES	North of S10° 140°W Al norte de los 10°S 140°W New York Oceanic* Oakland Oceanic* United States Continental FIRs*	Brazil	SAM	Amazónico/CINDACTA IV	SBAZ	Amazónica	SBAZ	
					Recife/CINDACTA III	SBRE	Recife	SBRE	
					Recife/CINDACTA III	SBRE	Atlántico	SBAO	
				Colombia	SAM	Santa Fe de Bogotá	SKBO	Barranquilla	SKEC
						Santa Fe de Bogotá	SKBO	Bogotá	SKED
				Cuba	CAR	Habana	MUHA	Habana	MUFH
				Dominican Republic	CAR	Santo Domingo	MDSJ	Santo Domingo	MDCS
				Ecuador	SAM	Guayaquil	SEGU	Guayaquil	SEGU
				French Guiana (France)	SAM	Cayenne	SOCA	Rochambeau	SOOO
				Guyana	SAM	Timehri	SYCJ	Georgetown	SYGC
				Haiti	CAR	Port-au-Prince	MTPP	Port-au-Prince	MTEG
				Honduras	CAR	Tegucigalpa	MHTG	Central American	MHTG
				Jamaica	CAR	Kingston	MKJP	Kingston	MKJK
				Mexico	CAR	México	MMMX	Mazatlán	MMZT
						México	MMMX	México	MMEX
						Willemstad	TNCC	Curacao	
									TNCF
						Panamá	MPTO	Panamá	MPZL
						Peru	SPIM	Lima	SPIM
						Suriname	SMJP	Paramaribo	SMPM
						Trinidad and Tobago	TTPP	Piarco	TTZP
						United States	NAM	Kansas City	KZHU
								Kansas City	KZMA
					Kansas City	TJZS			
					Caracas	SVZM			
			Venezuela	SAM		Maiquetía	SVZM		

**MAP OF AREAS OF RESPONSIBILITY OF VAAC AND CORRESPONDING FIR/
MAPA DE LAS ZONAS DE RESPONSABILIDAD DE LOS VAAC Y SUS
CORRESPONDIENTES FIR**



**FASID Table MET 3C
TABLA MET 3C DEL FASID**

**SELECTED STATE VOLCANO OBSERVATORIES
OBSERVATORIOS DE VOLCANES DE ESTADOS SELECCIONADOS**

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 the 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 in Column 4. |
| 6. | MWO to which information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent. |
| 7 | ICAO location indicator assigned to the MWO in Column 6. |

EXPLICACIÓN DE LA TABLA

Columna

- | | |
|---|--|
| 1 | Nombre del Estado Proveedor del observatorio de volcanes designado para la notificación directa de actividad volcánica. |
| 2 | Nombre del observatorio de volcanes. |
| 3 | VAAC al cual se debe enviar la información relacionada con actividad volcánica previa a una erupción, una erupción volcánica y/o nubes de ceniza volcánica. |
| 4 | ACC al cual se debe enviar la información relacionada con actividad precursora de erupción volcánica, una erupción volcánica y/o nubes de ceniza volcánica. |
| 5 | Indicador de lugar de la OACI del ACC de la Columna 4. |
| 6 | MWO a la cual se debe enviar la información relacionada con actividad volcánica previa a una erupción, una erupción volcánica y/o nubes de ceniza volcánica. |
| 7 | Indicador de lugar de la OACI asignado a la MWO de la Columna 6. |

Table MET 3C — Tabla MET 3C

Provider State of volcano observatory Estado Proveedor del observatorio de volcanes	Volcano observatory Observatorio de volcanes	VAAC to which the information is to be sent VAAC al cual se debe enviar la información	ACC to which the information is to be sent ACC a la cual se debe enviar la información		MWO to which information is to be sent MWO a la cual se debe enviar la información	
			Name Nombre	ICAO Loc Ind. Ind. de lugar OACI	Name Nombre	ICAO Loc Ind. Ind. De lugar OACI
1	2	3	4	5	1	2
Argentina	Servicio Geológico y Minero Argentino (SEGEMAR)	Buenos Aires	Ezeiza	SAEF/ SAEU	Buenos Aires (Aeroparque)	SABE
			Comodoro Rivadavia	SAVF/ SAVU	Comodoro Rivadavia	SAVC
			Córdoba	SACF/ SACU	Córdoba	SACO
			Mendoza Resistencia	SAMF/ SAMV SARR/ SARU	Mendoza Resistencia	SAME SARE
Chile	Southern Andes Volcano Observatory (SAVO) Departamento de Ciencias Físicas, Temuco Servicio Nacional de Geología y Minería (SERNAGEOMIN), Santiago	Buenos Aires	Antofagasta	SCFZ	Antofagasta	SCFA
			Puerto Montt	SCTZ	Puerto Montt	SCTE
			Punta Arenas	SCCZ	Punta Arenas	SCCI
			Santiago	SCEZ	Santiago	SCEL
Colombia	INGEOMINAS - Observatorio de volcanes de Colombia, Manizales	Washington	Barranquilla Bogotá	SKEC SKED	Santa Fe de Bogotá Santa Fe de Bogotá	SKBO SKBO
Costa Rica	Observatorio de volcanes y Sismológico de Costa Rica, (OVSI-CORI-UNA), Heredia	Washington	Central American	MHTG	Tegucigalpa	MHTG
Ecuador	Instituto Geofísico, Quito	Washington	Guayaquil	SEGU	Guayaquil	SEGU
El Salvador	Servicio Nacional de Estudios Territoriales (SNET), Ministerio de Medio Ambiente y Recursos Naturales, (MARN), El Salvador	Washington	Central American	MHTG	Tegucigalpa	MHTG
French Antilles (France)	GUADELOUPE, Observatoire volcanologique de la Soufriere MARTINIQUE, Observatoire volcanologique de la Pelée	Washington	Piarco	TTZP	Port of Spain	TTPP
		Washington				
Guatemala	INSIVUMEH Sección Vulcanología, Ciudad de Guatemala	Washington	Central American	MHTG	Tegucigalpa	MHTG
Guyana	Guyana Geology and Mines Commission	Washington	Georgetown	SYGC	Timheri	SYCJ
México	Centro Nacional de Prevención de Desastres (CENAPRED) Centro Universitario de Investigaciones en Ciencias del Ambiente, Universidad de Colima Instituto de Geofísica, UNAM Observatorio de volcanes, Universidad de Colima	Washington	Mazatlán	MMZT	México	MMMX
			México	MMEX	México	MMMX

Provider State of volcano observatory Estado Proveedor del observatorio de volcanes	Volcano observatory Observatorio de volcanes	VAAC to which the information is to be sent VAAC al cual se debe enviar la información	ACC to which the information is to be sent ACC a la cual se debe enviar la información		MWO to which information is to be sent MWO a la cual se debe enviar la información	
			Name Nombre	ICAO Loc Ind. Ind. de lugar OACI	Name Nombre	ICAO Loc Ind. Ind. De lugar OACI
1	2	3	4	5	1	2
Montserrat (U.K.)	Montserrat Volcano Observatory	Washington	Piarco	TTZP	Port of Spain Port of Spain Port of Spain Port of Spain	TTPP TTPP TTPP TTPP
Nicaragua	Dirección General del Inst. Nicaragüense de Estudios Territoriales (INETER), Managua Dirección de Vulcanología	Washington	Central American	MHTG	Tegucigalpa	MHTG
Panamá	Instituto de Geociencias	Washington	Panamá/Tocumen	MPZL	Panamá	MPTO
Perú	Instituto Geofísico del Perú (IGP), Arequipa	Buenos Aires and/y Washington	Lima	SPIM	Lima	SPIM
Trinidad y Tabago	Seismic Research Unit, University of Indies St. Augustine	Washington	Piarco	TTZP	Port of Spain	TTPP

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

Nota.- El AFTN no está disponible en todos los observatorios de volcanes seleccionados y por lo tanto es responsabilidad de cada Estado efectuar los arreglos de comunicaciones correspondientes.

FASID TABLE MET 5/TABLA MET 5 DEL FASID
REQUIREMENTS FOR WAFS FORECASTS
REQUISITOS DE PRONÓSTICOS ELABORADOS POR EL WAFS

EXPLANATION OF THE TABLE

Column

- 1 WAFS forecasts required by the CAR/SAM States, to be provided by WAFC Washington.
- 2 Area of coverage required for the WAFS forecasts, to be provided by WAFC Washington.

EXPLICACIÓN DE LA TABLA

Columna

- 1 Pronósticos del WAFS requeridos por los Estados CAR/SAM, que ha de proporcionar el WAFC de Washington.
- 2 Zona de cobertura requerida para los pronósticos del WAFS, que ha de proporcionar el WAFC de Washington.

Forecast required/Pronóstico requerido	Areas required/Zonas requeridas
1	2
SWH forecasts (FL 250 – 630) in the BUFR code form/ Pronósticos de SWH (FL 250 – 630) en la clave BUFR	Global/Mundial
SWM forecasts (FL 100 – 250) in the BUFR code form/ Pronósticos de SWM (FL 100 – 250) en la clave BUFR	NIL
Forecasts of upper-air wind, temperature and humidity, cumulonimbus cloud, icing, and clear-air and in-cloud turbulence and of altitude of flight levels in the GRIB code form Pronósticos de vientos temperatura y humedad en altitud, nubes cumulonimbus, engelamiento, y turbulencia en aire claro y en las nubes y de niveles de vuelo en altitud en la clave GRIB	Global/ Mundial

Note 1. — SWM forecasts are provided for limited geographical areas as determined by regional air navigation agreement.

Nota 1. — Se proporcionan pronósticos SWM para zonas geográficas limitadas según se determine por acuerdo regional de navegación aérea.

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.

Nota 2. — Los WAFc continúan emitiendo mapas PNG pronosticados de SIGWX con fines de respaldo para zonas de cobertura según se especifica en el ANEXO 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.

Nota 3. — Los pronósticos de nubes cumulonimbus, engelamiento, y turbulencia en aire claro y en las nubes son experimentales los cuales se espera estén disponibles a finales de 2009.

FASID TABLE MET 6/TABLA MET 6 DEL FASID**RESPONSIBILITIES OF THE WORLD AREA FORECAST CENTRES
RESPONSABILIDADES DE LOS CENTROS MUNDIALES DE PRONÓSTICOS DE ÁREA*****EXPLANATION OF THE TABLE****Column*

- 1 Name of the world area forecast centre (WAFC).
- 2 Area of coverage of significant weather (SIGWX) forecasts in the BUFR code form prepared or relayed by the WAFC in Column 1.
- 3 Area of coverage of forecasts of upper-wind, temperature, cumulonimbus clouds, icing, clear-air and in-cloud turbulence, and humidity, and of altitude of flight levels in the GRIB code form issued by the WAFC in Column 1.

EXPLICACIÓN DE LA TABLA*Columna*

- 1 Nombre del centro mundial de pronósticos de área (WAFC).
- 2 Zona de cobertura de los pronósticos del tiempo significativo (SIGWX) en la clave BUFR preparados o retransmitidos por el WAFC indicado en la Columna 1.
- 3 Zona de cobertura de los pronósticos en altitud de viento, temperatura, nubes cumulonimbus, engelamiento, turbulencia en aire claro y en las nubes, y humedad, y de la altitud de los niveles de vuelo en la clave BUFR, emitidos por el WAFC indicado en la Columna 1.

WAFc	Areas of coverage of/Zonas de cobertura de	
	SIGWX forecasts/ Pronósticos de SIGWX	Forecasts of upper-air wind, temperature, cumulonimbus clouds, icing, and clear-air and in-cloud turbulence, humidity, and of altitude of flight levels/ Pronósticos de vientos en altitud, temperatura, nubes de cumulonimbus, engelamiento y turbulencia en aire claro y en las nubes, humedad y de la altitud de los niveles de vuelo
	In the BUFR code form/ En la clave BUFR	In the GRIB code form/En la clave GRIB
1	2	3
London	SWH (FL 250 – 630): global/mundial SWM (FL 100 – 250): ASIA SOUTH, EUR and/y MID	Global /mundial
Washington	SWH: (FL 250 – 630): global/mundial SWM (FL 250 – 250): NAT	Global /mundial

Note 1. - WAFcS 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 2. – Forecasts of cumulonimbus clouds, icing, and clear-air and in-cloud turbulence are experimental products which are expected to become available by the end of 2009.

Nota 1. - Los WAFc continúan emitiendo mapas pronosticados PNG de SIGWX con fines de respaldo para zonas fijas tal como se especifica en el Anexo 3.

Nota 2. – Los pronósticos de cumulonimbus, engelamiento y turbulencia en aire claro y en las nubes son productos experimentales los cuales se espera estén disponibles a fines de 2009.

FASID Table MET 7 / Tabla MET 7 DEL FASID

AUTHORIZED USERS OF THE ISCS/1 SATELLITE BROADCAST AND THE INTERNET-BASED WAFS FTP SERVICE IN THE CAR/SAM REGIONS

AUTORISÉ DES UTILISATEURS DE L'ISCS/1 AUX DIFFUSIONS PAR SATELLITE ET LE SERVICE FTP DU WAFS BASÉ ON INTERNET DANS LES RÉGIONS CAR/SAM

USUARIOS AUTORIZADOS PARA LA RADIODIFUSIÓN POR SATÉLITE ISCS/1 Y EL SERVICIO FTP DEL WAFS BASADO EN INTERNET EN LAS REGIONES CAR/SAM

EXPLANATION OF THE TABLE

Column

- 1 Name of the State or territory.
- 2 User of the satellite broadcast. Abbreviations used:
 CAA — civil aviation authority
 NMS — national meteorological service
 O — other than the civil aviation authority or the national meteorological service.
- 3 Location of VSAT: town and, where applicable, aerodrome to be indicated.
- 4 Indication whether the equipment is operational:
 2w — two-way VSAT operational
 1w — one-way VSAT operational
 F — only Internet-based FTP service
 [blank] — no.

EXPLICATION DU TABLEAU

Colonne

- 1 Nom de l'État ou du territoire
- 2 Utilisateur des diffusions par satellite. Abréviations:
 CAA – administration de l'aviation civile
 NMS – service météorologique national
 O – autre que l'administration de l'aviation civile ou le service météorologique national
- 3 Emplacement du VSAT: les noms de la localité et, le cas échéant, de l'aérodrome doivent être indiqués.
- 4 Indication d'équipement opérationnel:
 2w – VSAT bidirectionnel opérationnel
 1w – VSAT unidirectionnel opérationnel
 F – seulement le service FTP basé on Internet
 [néant] – no

*EXPLICACIÓN DE LA TABLA**Columna*

- 1 Nombre del Estado o territorio.
- 2 Usuario de la radiodifusión por satélite. Las abreviaturas empleadas son:
 - CAA — administración de aviación civil
 - NMS — servicio meteorológico nacional
 - O — otros que no sean la administración de aviación civil o el servicio meteorológico nacional.
- 3 Lugar de la VSAT: ha de indicarse la ciudad y, de ser aplicable, el aeródromo.
- 4 Indicación si el equipo está operativo:
 - 2w — VSAT operativa en ambos sentidos
 - 1w — VSAT operativa en un sentido
 - F — sólo el servicio FTP basado en Internet
 - [en blanco] — no.

International Satellite Communication System (ISCS/1) provided by the United States Système de communications internationales par satellite (ISCS/1) fourni par les États-Unis Sistema Internacional de comunicaciones por satélite (ISCS/1) proporcionado por Estados Unidos			
State/Territory État/Territoire Estado/Territorio	User of satellite broadcast Utilisateur des diffusions par satellite Usuario de la radiodifusión por satélite	Location of VSAT Emplacement du VSAT Lugar del la VSAT	Equipment operational Équipement opérationnel Equipo operativo
1	2	3	4
ANGUILLA (United Kingdom)	CAA	Headquarters NMS Antigua Saint Johns/V.C. Bird Airport	Relayed by/ Retransmis par/ Retransmitido por Antigua 2w
ANTIGUA AND BARBUDA	NMS	Saint Johns/V.C. Bird Airport	2w
ARGENTINA	NMS	Sede Central del Servicio Meteorológico Nacional (Buenos Aires)	1w
ARUBA (Netherlands)	NMS	MET Headquarters/Hato Airport (Curaçao)	Relayed by/ Retransmis par/ Retransmitido por Curaçao 2w
BAHAMAS	NMS	Nassau/New Providence Intl. Airport	2w
BARBADOS	NMS	Bridgetown/Grantley Adams Intl Airport	2w
BELIZE	NMS	Caribbean Meteorological Institute	2w
BOLIVIA	NMS	Belize/Philip S.W. Goldson Intl Airport	2w
BRAZIL	CAA	La Paz/El Alto Int. Airp.	1w
CAYMAN ISLANDS (United Kingdom)	NMS	CNMA	1w
	CAA	MET Headquarters, Brasília	1w
CHILE	CAA	Georgetown/Owen Roberts Intl.	2w
COLOMBIA	NMS	Edificio Aeronáutico/Arturo Merino Intl Airport	1w
	NMS	Headquarters of the Hydrology and Met Institute, Bogotá Bogotá/Eldorado	2w 1w
COSTA RICA	NMS	Headquarters in San José	2w
CUBA	CAA	Met Office/MWO, La Habana/ José Martí Intl. Airport	1w
	NMS	Met. Institute, La Habana	2w
DOMINICA	CAA	Headquarters NMS Barbados Bridgetown/Grantley Adams Intl Airport	Relayed by/ Retransmis par/ Retransmitido por Barbados 2w
DOMINICAN REPUBLIC	NMS	Sto. Domingo National Met. Office	2w
EL SALVADOR	NMS	San Salvador/Ilopango Intl. Airport	2w
ECUADOR	NMS	Headquarters in Quito	1w
	CAA	Quito/Mariscal Sucre	1w
	CAA	Guayaquil/José Joaquín de Olmedo	
FRENCH ANTILLES (France)	NMS	Le Raizet Airport (Guadeloupe)	2w
	NMS	Le Lamentin Airport (Martinique)	2w
FRENCH GUIANA (France)	NMS	Cayenne - Rochambeau Airport	2w
GRENADA	NMS	Saint Georges/Point Salines Airport	2w
GUATEMALA	NMS	Guatemala/La Aurora Intl. Airport	2w
GUYANA	NMS	Timheri/Cheddi Jagan Intl. Airport	2w
HAITI	NMS	Port-au-Prince Intl. Airport	2w
HONDURAS	NMS	Tegucigalpa/Toncontin Intl. Airport	2w

International Satellite Communication System (ISCS/1) provided by the United States Système de communications internationales par satellite (ISCS/1) fourni par les États-Unis Sistema Internacional de comunicaciones por satélite (ISCS/1) proporcionado por Estados Unidos			
State/Territory État/Territoire Estado/Territorio	User of satellite broadcast Utilisateur des diffusions par satellite Usuario de la radiodifusión por satélite	Location of VSAT Emplacement du VSAT Lugar del la VSAT	Equipment operational Équipement pérationnel Equipo operativo
1	2	3	4
JAMAICA	NMS	Kingston/Norman Manley Intl.	2w
MEXICO	CAA NMS	Mexico/Benito Juárez Intl. Airport Headquarters in Mexico City	1w 2w
MONTserrat (United Kingdom)	NMS	Headquarters NMS Antigua Saint Johns/V.C. Bird Airport	Relayed by/ Retransmis par/ Retransmitido por Antigua
NETHERLANDS ANTILLES (Netherlands)	NMS NMS	MET Headquarters/Hato Airport (Curaçao) MET Philipsburg/Princess Juliana Airport (St. Maarten)	2w 2w
NICARAGUA	NMS	Managua/Managua Intl. Airport	2w
PANAMA	CAA	Panama/Tocumen Int. Airport	2w
PARAGUAY	NMS	Asunción/Silvio Pettrossi Airport	1w
PERU	CAA NMS	Lima-Callao/Jorge Chávez Int. Airport Headquarters	1w 1w
PUERTO RICO (United States)	NMS	National Weather Service Forecast Office	2w
SAINT KITTS AND NEVIS	CAA	Headquarters NMS Antigua Saint Johns/V.C. Bird Airport	Relayed by/ Retransmis par/ Retransmitido por Antigua
SAINT LUCIA	NMS	Vieux-Fort/Hewanorra Intl Airport	2w
SAINT VINCENT AND THE GRENADINES	CAA	Headquarters NMS Barbados Bridgetown/Grantley Adams Intl Airport	Relayed by/ Retransmis par/ Retransmitido por Barbados
SURINAME	NMS	Zandery/Johan Adolf Pengel	1w
TORTOLA (United Kingdom)		Headquarters NMS Antigua Saint Johns/V.C. Bird Airport	Relayed by/ Retransmis par/ Retransmitido por Antigua
TRINIDAD AND TOBAGO	NMS	Port of Spain, Piarco Intl. Airport	1w
TURKS AND CAICOS IS. (United Kingdom)			2w
URUGUAY	NMS	MET Office, Montevideo/ Carrasco Intl Gral Cesareo L. Berisso Airport	1w
VENEZUELA	NMS INAC	Servicio Meteorológico de la Aviación Militar Venezolana MWO Maiquetía	1w 1w

Editorial Note 1.— The contents of FASID Table MET 7 is to be kept up-to-date by the PIRGs and regional offices concerned.

Nota editorial 1.— El contenido de la Tabla MET 7 del FASID es para que sea actualizado por los PIRG y por las oficinas regionales concernientes.

APPENDIX D

AMENDMET TO ANP BASIC, PART VI – MET

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8. Aerodrome forecasts should be issued as TAF normally at intervals of 6 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 and 30 hours duration, to meet the requirements indicated in FASID Table MET 1A. The filing time of the forecasts should be approximately two hours before the start of the period of validity. [GREPECAS Conclusion 12/65]

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CAR/SAM FASID TABLE MET 1A

1	2	3	4	5	6	7	8
.....							
Brazil							
RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ	SBGL	RS	RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ	SBGL		FX	F
SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR	RS	SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR		FX	F
Ecuador							
LATACUNGA	SELT	RN&AS	GUADUAL QUITO	SECDQU		T	P
Panama							
PANAMA/MARCOS A GELABERT	MPMG	RN&AS	PANAMA/TOCUMEN	MPTO	<u>Y</u>	T	P
PANAMA/TOCUMEN	MPTO	RS	PANAMA/TOCUMEN	MPTO	<u>Y</u>	T	F
Peru							
AREQUIPA/RODRIGUEZ BALLON	SPQU	AS	LIMA-CALLAO JORGE CHAVEZ AREQUIPA/RODRIGUEZ BALLON	SPIMQU	Y	T	F
CUSCO/VELAZCO ASTETE	SPZO	RS	LIMA-CALLAO JORGE CHAVEZ CUSCO/VELAZCO ASTETE	SPIMZO	Y	T	F
IQUITOS/CORONEL FAP	SPQT	RS	LIMA-CALLAO JORGE CHAVEZ IQUITOS/CORONEL FAP	SPIMQT	Y	T	F
.....							

CAR/SAM FASID TABLE MET 2A

1	2	3	4	5	6
.....					
Brazil RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP		SBGL SBGR	Y Y	FX FX	F F
Bolivia	<i>COBIJA</i>	SLCO	Y		
Peru	<i>YURIMAGUA/MOISÉS BENZANQUEN RENGIFO</i>	SPMS	Y	<u>I</u>	P
.....					