INTERNATIONAL CIVIL AVIATION ORGANIZATION

CAR/SAM REGIONAL PLANNING AND IMPLEMENTATION GROUP (GREPECAS)

REPORT OF THE TENTH MEETING OF THE AERONAUTICAL METEOROLOGY SUBGROUP (AERMETSG/10)

BUENOS AIRES, ARGENTINA, 19 TO 23 OCTOBER 2009

Prepared by the Secretariat

October 2009

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

TABLE OF CONTENTS

Contents **Page**

HISTORICAL

ii.1 Place and Date of the Meeting

The Tenth Meeting of the GREPECAS Aeronautical Meteorology Subgroup (AERMETSG/10) was held at Rialto Room of Pestana Hotel, in the city of Buenos Aires, Argentina, from 19 to 23 October 2009.

ii.2 Opening Ceremony

Dr. Héctor Ciapessoni, Director of the National Meteorological Service of Argentina, welcomed the participants on behalf of this Administration. He also thanked the attendance of MET experts provided by CAR/SAM States/Territories and international organizations and opened the Meeting. Afterwards, Mrs. Nohora Arias, Aeronautical Meteorology Regional Officer of the ICAO South American Regional Office, welcomed the participants on behalf of the Organization and thanked the Administration of Argentina for sponsoring the Tenth Meeting of the AERMET Subgroup, emphasizing the importance of the issues to be discussed.

ii.3 Organization of the Meeting

The Meeting was chaired by Mr. Carlos Roberto Salinas (Paraguay), President of the AERMET Subgroup.

The Secretariat was in charge of Mrs. Nohora Arias, AERMET Subgroup Secretary and Aeronautical Meteorology Regional Officer of the ICAO SAM Office, assisted by Mr. Raul Romero, Aeronautical Meteorology Technical Officer, ICAO, Montreal and Dr. Enrique Camarillo, Aeronautical Meteorology Regional Officer of the ICAO NACC Office, Mexico.

ii.4 Working Languages

The working languages of the Meeting were Spanish and English. The Working Papers and Summary of Discussions of the Meeting were available to participants in both languages.

ii.5 Agenda

The Meeting adopted the following agenda:

Agenda Item 1: Review follow-up actions on:

a) reports of AERMETSG/9 and GREPECAS/15 Meetings; and
b) GREPECAS Conclusions in the MET field pending of implementation.

Agenda Item 2: **Implementation of the World Area Forecast System (WAFS):**

a) review the outcome of WAFSOPSG/5 Meeting;
b) review the status of implementation of ISCS; and
c) review the status of implementation and utilization of the WAFS products

Agenda Item 3: **Implementation of the International Airways Volcano Watch (IAVW)**

a) review the outcome of IAVWOPSG/4 Meeting; and
b) review the status of implementation of IAVW

Agenda Item 4: **Implementation of SIGMET**

a) review of the outcome of the METWSG/2 Meeting; and
b) implementation issues

Agenda Item 5: **Exchange of OPMET information**

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

Agenda Item7: **Regional MET requirements for ATM**

Agenda Item 8: **Implementation of MET quality system**

Agenda Item 9: **Status of MET deficiencies (GREPECAS List of MET Deficiencies)**

Agenda Item 10: **Future Work Programme**

Agenda Item 11: **Any other business**

ii.6 **Schedule and working method**

The Meeting agreed to hold its daily sessions from 09:00 to 15:30 hours, with adequate breaks.

ii.7 **Attendance**

The meeting was attended by three States of the CAR Region, ten States of the SAM Region, as well as IFALPA and the airline UALA, totaling 29 participants. A list of participants is shown in pages iii-1 to iii-6.

ii.8 **Conclusions and Decisions**

The AERMETSG records its activities in the form of Draft Conclusions, Draft Decisions and Decisions as follows:

Draft Conclusions:	*Conclusions that require approval by GREPECAS prior to their implementation.*
Draft Decisions:	*Decisions that require approval and adoption by GREPECAS prior to their implementation*
Decisions:	*Decisions that deal with matters of concern to the Contributory Body.*

ii.9 **List of Draft Conclusions and Decisions**

ii.10 List of Working, Information and Discussion Papers

WORKING PAPERS

Number	Agenda Item	Title	Date	Presented by
WP/00	---	Tentative Calendar and working method		Secretariat
WP/01	--	Tentative Agenda and Explanatory Notes	05/06/09	Secretariat
WP/02	1	Review follow-up actions on: a) reports on AERMETSG/8 and GREPECAS/14 Meetings; and b) GREPECAS Conclusions in the MET field pending of implementation		Secretariat
WP/03	2	Implementation of the World Area Forecast System (WAFS)		Secretariat
WP/04	3	Implementation of the International Airways Volcano Watch (IAVW)	28/08/09	Secretariat
WP/05	4	Implementation of SIGMET	28/08/09	Secretariat
WP/06	5	Exchange of OPMET Information	Rev. 213/09/09	Secretariat
WP/07	6	Review of the CAR/SAM ANP/FASID, Part VI – MET		Secretariat
WP/08	7	Regional MET requirements for ATM		Secretariat
WP/09	8	Implementation of MET quality system		Secretariat
WP/10	9	Status of MET deficiencies	14/09/09	Secretariat
WP/11	10	Future Work Programme		Secretariat
WP/12	2	Implementation of the World Area Forecast System (WAFS) b) review the status of implementation of ISCS Development of file server in support of International Satellite Communication System	28/08/09	United States
WP/13	2	Implementation of the World Area Forecast System (WAFS) b) review the status of implementation of ISCS Current work to further harmonize ISCS and SADIS OPMET data	28/08/09	United States
WP/14	2	Implementation of the World Area Forecast System (WAFS) b) review the status of implementation of ISCS Use of the public internet to access aeronautical meteorological data	28/08/09	United States
WP/15	2	Implementation of the World Area Forecast System (WAFS) b) review the status of implementation of ISCS Changes to user methods of accessing WAFS products via the Washington world area forecast center (WAFC)	04/09/09	United States
WP/16	2	Implementation of the World Area Forecast System (WAFS) c) review the status of implementation and utilization of the WAFS products Report of the ISCS operational efficacy	04/09/09	United States
WP/17	2	Implementation of the World Area Forecast System (WAFS) b) review the status of implementation of ISCS Summary of recent and forthcoming developments to the WAFS	04/09/09	United States
WP/18	7	Regional MET requirements for ATM Four dimensional (4-d) weather database in support of ATM	04/09/09	United States
WP/19	2	Implementation of the World Area Forecast System (WAFS) WAFS optimization	09/06/08	Chile

Number	Agenda Item	Title	Date	Presented by
WP/20	4	Implementation of SIGMET b) Implementation issues Implementation of SIGMET for accidental release of radioactive material into the atmosphere	28/08/09	United States
WP/21	11	Any other business Annex 3 – Meteorological service for international air navigation - status of implementation of Amendment 74 to Annex 3	02/10/09	Secretariat
WP/22	5	Exchange of OPMET information	02/10/09	Cuba
WP/23	5	Exchange of OPMET information	29/09/09	Brazil

INFORMATION PAPERS

Number	Agenda Item	Title	Date	Presented by
IP/01	--	General information	04/06/09	Secretariat
IP/02	--	List of Working and Information Papers		Secretariat
IP/03	3	Implementation of the International Airways Volcano Watch (IAVW) a) review the outcome of IAVWOPSG/4 Meeting Follow-up to IAVWOPSG/4 Conclusions	07/09/09	Secretariat
IP/04	4	Implementation of SIGMET Follow-up to METWSG/1 and METWSG/2 Conclusions	08/09/09	Secretariat
IP/05	5	Exchange of OPMET Information Climatology to build a better TAF *(English only)*	12/08/09	United States
IP/06	5	Exchange of OPMET Information TAF verification in the United States *(English only)*	12/08/09	United States
IP/07	5	Exchange of OPMET Information Using the internet to disseminate OPMET data *(English only)*	04/09/09	United States
IP/08	6	Review of the CAR/SAM ANP/FASID, Part VI - MET United States naming convention for the FASID TABLE MET 1A *(English only)*	12/08/09	United States
IP/09	2	Implementation of the World Area Forecast System (WAFS) a) Review of the outcome of WAFSOPSG/4 Meeting Follow-up to WAFSOPSG/4 Conclusions	12/10/09	Secretariat
NI/10	5	Intercambio de información OPMET Catálogo de datos OPMET disponibles en el banco de datos internacional de Brasilia *(Spanish only)*	26/09/09	Brazil
NI/11	5	Intercambio de información OPMET Seguimiento al análisis de los requerimientos para el nuevo formato de los mensajes OPMET (METAR/SPECI y TAF) *(Spanish only)*	12/10/09	Secretariat

List of Participants

Argentina

Carlos Manuel Benítez
Miriam Andrioli
Olver F. Boolsen
Pablo Cerutti
Rodolfo Hugo Cerutti
Carlos Iglesias
Jorge Oscar Leguizamón

Bolivia

Aníbal Castro Cárdenas
Walter Ríos Aliaga

Brasil / Brazil

Daniel Martins Neiva Filho
Valdeci Donizeti Juliar da França

Chile

Fernando Ramírez
Reinaldo Gutiérrez

Colombia

Oscar Bermúdez Gracia

Costa Rica

Guillermo Vega Gowrzong

Cuba

Juan Ayón Alfonso

Estados Unidos / United States

Steven R. Albersheim
Steve Dash
Michael Graf

Panamá / Panama

Xenia Gabriela Guardia
Celestino Lamboglia Tuñón

Paraguay

Carlos Roberto Salinas Rojas
Jorge Concepción Armoa Cañete

Perú / Peru

Baldomero Celis
Ricardo Reyes Távara

Uruguay

Raúl García Igorra

Venezuela

José Claudio Lovera Lago

IFALPA/ASPA

Christian F. Cardoso Piña

UALA Argentina

Juan Martín Gaddi

LIST OF PARTICIPANTS – GENERAL INFORMATION

NOMBRE/NAME TÍTULO/ POSITION	DATOS/ADDRESS
ARGENTINA	
Carlos Manuel Benítez Jefe Departamento Meteorología Aeronáutica y Director Operativo VAAC Ciudad Autónoma de Buenos Aires Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6767 int. 18235 Fax +5411 5167-6709 E-mail cbenitez@smn.gov.ar
Miriam Andrioli Servicio Meteorológico Nacional Miembro del IAVWOPSG de la OACI	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6707 Fax +5411 5167-6709 E-mail andrioli@smn.gov.ar
Olver F. Boolsen Dpto. Meteorología Aeronáutica Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6767 int. 18235 Fax +5411 5167-6709 E-mail boolsen@smn.gov.ar
Pablo Cerutti Jefe División Planificación Dpto. Meteorología Aeronáutica Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6707 Fax +5411 5167-6709 E-mail pcerutti@smn.gov.ar
Rodolfo Hugo Cerutti Técnico Comunicaciones Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6710 Fax +5411 5167-6709 E-mail rcerutti@smn.gov.ar
Carlos Iglesias Supervisor Operativo VAAC Ciudad Autónoma de Buenos Aires Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6767 int. 18103 Fax +5411 5167-6709 E-mail carigles@smn.gov.ar
Jorge Oscar Leguizamón Auxiliar Dpto. Meteorología Aeronáutica Servicio Meteorológico Nacional	25 de mayo 658 CP 1002 ABN, Ciudad Autónoma de Buenos Aires, República Argentina Tel. +5411 5167-6767 int. 18235 Fax +5411 5167-6709 E-mail jolegui@smn.gov.ar

NOMBRE/NAME TÍTULO/ POSITION	DATOS/ADDRESS
BOLIVIA	
Aníbal Castro Cárdenas Jefe de la Unidad de Meteorología Aeronáutica Dirección General de Aeronáutica Civil	Av. Mcal. Santa Cruz 1278 Casilla 9360, La Paz, Bolivia Tel. +5412 237 9060 int. 2621 Fax +5412 211 6405 E-mail ancastro@dgac.gov.bo anibalc_2000@yahoo.es
Walter Ríos Aliaga Jefe Regional de Meteorología Aeronáutica AASANA	Aeropuerto Internacional "El Alto" La Paz, Bolivia Tel. +5412 281 0205 Fax +5412 281 0203 E-mail waraliaga@yahoo.es
BRASIL / BRAZIL	
Daniel Martins Neiva Filho Jefe de la Sección de Normas de Meteorología Departamento de Control del Espacio Aéreo	Av. General Justo 160, 2º Andar Río de Janeiro CEP 20021-130, Brasil Tel. +5521 2101 6722 Fax +5521 2101 6198 E-mail nor3@decea.gov.br danielneivafilho@gmail.com
Valdeci Donizeti Juliar da França Jefe del Centro Meteorológico de Vigilancia de Brasilia	QI 05 Area Especial 12, Lago Sul Brasilia, DF CEP 71615-600, Brasil Tel. +5561 3364 8385 / 8386 Fax +5561 3364 7030 E-mail cmv-bs@cindacta1.aer.mil.br juliarvdf@gmail.com
CHILE	
Fernando Ramírez Valdés Asesor de Meteorología Aeronáutica Departamento de Planificación	Dirección General de Aeronáutica Civil - DGAC Miguel Claro No. 1314 – 6º Piso Providencia, Santiago, Chile Tel. +562 439 2514 Fax +562 439 2571 E-mail ferram@dgac.cl
Reinaldo Alex Gutiérrez Cisterna Jefe Sección de Meteorología Aeronáutica	Dirección General de Aeronáutica Civil – DGAC Av. Portales No. 3450, Estación Central Santiago, Chile CP 9170018 Tel. +562 436 4541 Fax +562 437 8212 E-mail rgutierrez@meteochile.cl

NOMBRE/NAME TÍTULO/ POSITION	DATOS/ADDRESS
COLOMBIA	
Oscar Bermúdez G. Jefe Grupo Meteorología Aeronáutica Unidad Administrativa Especial de Aeronáutica Civil	Aeropuerto El Dorado Dirección de Servicios a la Navegación Aérea Grupo de Meteorología Aeronáutica Apartado Aéreo 151413 Bogotá, Colombia Tel. +571 266 2257 Fax +571 413 9646 E-mail meteoro@aerocivil.gov.co obermud@aerocivil.gov.co
COSTA RICA	
Guillermo Vega Gowrzong Gestor de Meteorología - CNS/ATM Dirección General de Aviación Civil	Apartado Postal 5026-1000 San José, Costa Rica Tel. +506 2231 4924 Fax +506 2231 4924 E-mail gvega53@gmail.com
CUBA	
Juan Ayón Alfonso Especialista Principal Meteorología Aeronáutica Dirección Aeronavegación Instituto de Aeronáutica Civil de Cuba IACC	Calle 23 No. 64, Vedado Plaza de la Revolución Ciudad de La Habana, Cuba Tel. +537 838 1146 / 838 1121 Fax +537 834 4571 E-mail juan.ayon@iacc.avianet.cu dan@iacc.avianet.cu
ESTADOS UNIDOS / UNITED STATES	
Steven R. Albersheim Meteorologist International Program Leader Federal Aviation Administration	800 Independence Ave. SW Washington, D.C. 20591, United States Tel. +1202 385 7185 Fax +1202 385 7240 E-mail steven.albersheim@faa.gov
Steve Dash Manager, Telecommunications FAA	800 Independence Ave. SW Washington, D.C. 20591, United States Tel. +1202 493 5928 E-mail steve.dash@faa.gov
Michael Graf Meteorologist/International National Weather Service	1325 E-W Highway, Bldg. 2, Office 13314 Silver Spring, MD 20910 Tel. +1301 713 1726 ext. 117 Fax +1301 213 1520 E-mail michael.graf@noaa.gov

NOMBRE/NAME TÍTULO/ POSITION	DATOS/ADDRESS
PANAMÁ / PANAMA	
Xenia Gabriela Guardia B. Jefa del Departamento de Meteorología Aeronáutica	Autoridad Aeronáutica Civil Dirección de Navegación Aérea Av. Ascanio Villalaz, Edificio #611, Curundu Apartado 0843-02086 Panamá, República de Panamá Tel. +507 501 9815 Fax +507 501 9809 E-mail xguardia@aeronautica.gob.pa
Celestino Lamboglia Tuñon Jefe Sección Análisis y Pronósticos	Autoridad Aeronáutica Civil Aeropuerto Internacional de Tocumen Panamá, República de Panamá Tel. +507 238 2612 Fax +507 501 9809 E-mail clamboglia@aeronautica.gob.pa
PARAGUAY	
Carlos Roberto Salinas Rojas Gerente Int. de Normas y Fiscalización Dirección de Meteorología e Hidrología – DINAC	Mcal. López e/Vice Pte. Sánchez y 22 de septiembre Ministerio de Defensa Nacional, Tercer Piso, Asunción, Paraguay Tel. +595 21 222139 Fax +595 21 222139 E-mail roberto.salinas@meteorologia.gov.py salinascrs@gmail.com
Jorge Concepción Armoa Cañete Jefe Int. del Departamento de Meteorología Aeronáutica Dirección de Meteorología e Hidrología – DINAC	Mcal. López e/Vice Pte. Sánchez y 22 de septiembre Ministerio de Defensa Nacional, Tercer Piso, Asunción, Paraguay Tel. +59521 222139 / 646095 Fax +59521 222139 E-mail aeronautica_dmh@dinac.gov.py jarmoa@pol.una.py joarmoa@hotmail.com
PERÚ / PERU	
Baldomero Celis Jefe Area Meteorología Aeronáutica Corporación Peruana de Aeropuertos y Aviación Comercial CORPAC S. A.	Aeropuerto Internacional Jorge Chavez Apartado Postal 680 Callao, Perú Tel. +511 630 1177 Fax +511 630 1182 E-mail bcelis@corpac.gob.pe

NOMBRE/NAME TÍTULO/ POSITION	DATOS/ADDRESS
Ricardo Reyes Távara Meteorólogo – Área de Gestión de la Calidad ATS Corporación Peruana de Aeropuertos y Aviación Comercial CORPAC S. A.	Aeropuerto Internacional Jorge Chavez Apartado Postal 680 Callao, Perú Tel. +511 630 1024 Fax +511 414 1440 E-mail rreyes@corpac.gob.pe rreyest05@hotmail.com
URUGUAY	
Raúl L. García Igorra Director del Servicio Meteorológico de la Fuerza Aérea Uruguaya y Asesor en Meteorología de la DINACIA	Cno. Mendoza 5553 Casilla Postal 12400 Montevideo, Uruguay Tel: +5982 222 3385 Fax: +5982 222 4303 E-mail: rgarcia@fau.gub.uy
VENEZUELA	
José Claudio Lovera Lago Jefe Dpto. de Operaciones Meteorológicas Básicas Servicio de Meteorología de la Aviación	Av. Bolívar Este No. 75, Edif. “El Prado” Maracay ZP 2101-A, Estado Aragua, Venezuela Tel: +58243 232 8322 Fax: +58243 237 8043 E-mail: loveracj@gmail.com
IFALPA/ASPA	
Christian F. Cardoso Piña ASPA (Asociación Sindical de Pilotos Aviadores) IFALPA	ASPA de México Av. Palomas No. 110 Col. Reforma Social México, D.F., 11650, México Tel. +5255 5091 5959 Fax. +5255 5202 9160 E-mail christiancardoso@yahoo.com atecnicos@aspa.org.mx
UALA ARGENTINA	
Juan Martín Gaddi Piloto UALA Argentina	Alsina 1315, Vicente López República Argentina Tel: +5411 15 5525 9276 Fax: +5411 4795 2993 E-mail: juangaddi@fibertel.com.ar
ICAO/OACI	
Mr. Raul Romero Technical Officer, Meteorology Section Air Navigation Bureau	International Civil Aviation Organization (ICAO) 999 University St., Montreal, Quebec Canada H3C 5H7 Tel: +1514 954 8219, ext. 7079 Fax: +1514 954 6759 E-mail: rromero@icao.int

NOMBRE/NAME **TÍTULO/ POSITION**	**DATOS/ADDRESS**
Nohora Arias Oficial Regional de Meteorología Aeronáutica / Regional Officer, Aeronautical Meteorology	Oficina Regional Sudamericana Víctor Andrés Belaúnde 147, Centro Empresarial Real, Vía Principal No. 102 Edificio Real 4, Piso 4 San Isidro, Lima 27, Perú Apartado 4127 Lima 100, Perú Tel: +51 1 611-8686/103 Fax: +51 1 611-8689 E-mail: narias@lima.icao.int Web: www.lima.icao.int
Enrique Camarillo Cruz Oficial Regional de Meteorología Aeronáutica / / Regional Officer, Aeronautical Meteorology	Oficina Regional Norte América, Centro América y Caribe Av. Presidente Masaryk No. 29, 3er piso Col. Chapultepec Morales C. P. 11570 México D. F., México Apartado Postal 5-377 C. P. 06500 México D. F., México Tel: +52 55 5250 3211 Fax: +52 55 5203 2757 E-mail: ecamarillo@mexico.icao.int camarillo_enrique@yahoo.com.mx Web: www.icao.int/nacc

Agenda Item 1: Review follow-up actions on:

a) Reports of AERMETSG/9 and GREPECAS/15 Meetings

1.1 Under this Agenda Item, the Meeting reviewed the actions taken by the Air Navigation Commission (ANC), by the CAR/SAM States/Territories/International Organizations and/or ICAO Secretariat concerning draft Conclusions/Decisions formulated by the Ninth Meeting of the Aeronautical Meteorology Subgroup (AERMETSG/9), which was held in Lima, Peru, from 23 to 27 June 2008, as well as the corresponding conclusions adopted by GREPECAS/15 (Rio de Janeiro, Brazil, 13-17 October 2008). The result of the analysis is included as **Appendix A** to this part of the report.

b) Review of GREPECAS Conclusions in the MET field pending of implementation

1.2 Additionally, the Subgroup reviewed and updated the actions taken with regard to Conclusions/Decisions adopted by GREPECAS in the MET field in previous meetings, pending of implementation. **Appendix B** to this part of the report presents the results of this analysis**.**

ACTIONS TAKEN ON CONCLUSIONS OF AERMETSG/9 AND GREPECAS/15 MEETINGS IN THE MET FIELD

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/2	Conc. 15/4	**D-VOLMET aeronautical data link requirements in the CAR/SAM Regions** That the ICAO NACC and SAM Offices, in coordination with the ICAO SAM Office, amend Part VII Vol. I – ATS of the ANP to reflect the requirement for D-VOLMET aeronautical data link services in the CAR/SAM Regions.	N/A	Valid
Draft Conc. 9/3	Conc. 15/5	**Training for CAR/SAM States on the details and use of new WAFS icing, turbulence and convective cloud forecasts derived from GRIB 2 data** That the Washington WAFC, in coordination with WMO, be invited to: a) starting in 2010 or 2011, provide computer-based training on the applications and use of the new forecasts issued by the WAFS provider States; b) assist the States in English, as necessary; and c) assess the possibility of providing future training on the operation and use of the new WAFS products in English and Spanish.	The Air Navigation Commission, at the eight meeting of its 181st Session on 23 June 2009, in considering the GREPECAS/15 Report, supported the conclusion and requested the Secretary General to call upon the WAFC Washington Provider State, in coordination with WMO, to organize the required workshop in 2010.	Valid ICAO Secretary General sent on 13 July 2009 the letters: Ref.: AN 10/16.1 SWG 16/1 SWG 20/1 to the FAA; and Ref.: AN 10/16.1 SWG 16/1 to WMO Secretary General.

[1] The list of the States that provide information is included in the Annex to this Appendix

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/4	Conc. 15/6	**Update on the progress made in ISCS broadcast improvements by the Washington WAFC Provider State** That the Washington WAFC provider State be invited to provide timely reports on planned changes to upgrade ISCS-G3 broadcast, taking into account: a) the resources provided by the States that need to switch over to ISCS-G3; and b) the provision of specifications to be met by the States. *Note: To keep States informed, the Washington WAFC provider State will use the ISCS list of contacts, which is kept updated by the Secretariat.*	N/A	Valid Draft Letter to Mexico to be forwarded to United States, LT 2/8.0.15/SA184 of 2 April 2008. United States as WAFS and ISCS Provider State will be efficiently providing OPMET data in harmony with Annex 1 to SADIS User guide in October 2009.
Draft Conc. 9/5	Conc. 15/7	**Data management reports** That the WAFS provider State continue providing reports on data management over their circuits, the scheduled transition date, and the scope of product changes. *Note: A DM example is provided in **Appendix A.***	N/A	Implemented
Draft Conc.9/6	Conc. 15/8	**Update to WAFC workstations to introduce changes to OPMET data** That: a) the Washington WAFC provider State provide States and workstation vendors the necessary information on changes to the broadcast of products over the ISCS; b) States take the necessary action to update their workstations for the cut-over planned for 31 August 2008, to input the set of OPMET data; and	N/A	a) Implemented United States as WAFS Provider State and ISCS operation will be efficiently providing OPMET data in harmony with Annex 1 to SADIS User guide in October 2009. b) Implemented Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
		c) States review the existing maintenance service contract for their ISCS workstations, which should provide the necessary support to update the database management programme. *Note: The Washington WAFC provider State and the ICAO Regional Offices had taken the necessary action in August 2008, to minimize the impact of these changes on ISCS users.*		c) Valid Letters to States: LT 2/8.0./15 – SA310 of 12/05/09 N 1/15 – EMX0487 of 14/05/09
Draft Conc. 9/7	Conc. 15/9	**Implementation plan for the transition from GRIB 1 TO GRIB 2 CODE FORM** That States take note and appropriate action with respect to the transition plan for the implementation of the GRIB 2 code form adopted by the Fourth Meeting of the WAFS Operations Group (WAFSOPSG/4) presented as **Appendix B** to this part of the Report.	N/A	Implemented Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009
Draft Conc. 9/8	Conc. 15/10	**Letters of agreement between civil aviation and meteorological authorities and the vulcanological agency** That in order to promptly notify all the parties involved and to mitigate the hazard to air operations within the first few hours following an eruption: a) States make full use of Doc 9766-AN/968, *Handbook on the International Airways Volcano Watch (IAVW) - Operational Procedures and Contact List*; and *b)* establish letters of agreement between the parties involved; in particular, the civil aviation and meteorological authorities and the volcanological agency, specifying the agreed responsibilities of each party. *Note: A sample letter of agreement is presented in Appendix A to Doc 9766-AN/968.*	N/A	a) Implemented b) Implemented Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/10	Conc. 15/11	**Implementation of the Volcano Observatory Notice for Aviation (VONA) format** That ICAO urges the States to implement the VONA format in order to: a) improve the transfer of information on volcanic activity to the ACC/FIC, the VAAC, and MWO; and b) provide feedback on the usefulness of the VONA and the adjustments to be considered by the International Airways Volcano Watch Operations Group.	N/A	a) Implemented b) Implemented
Draft Conc. 9/11	Conc. 15/12	**Back-up MWOs in the CAR/SAM States** That, in order to improve the implementation of an MWO in case of lack of service or service outage, the NACC and SAM Regional Offices compile a list of back-up MWOs to be included in the *CAR/SAM Regional SIGMET Guide*.	N/A	Implemented WP/05 presents a proponed list of back-up MWO to be included in CAR/SAM SIGMET Guide.
Draft Conc. 9/9	Conc. 15/13	**Increased frequency of periodic SIGMET WV tests** That, in order to maintain constant feedback and efficiency in the issuance of volcanic ash SIGMETs, the States, in coordination with the corresponding VAACs, carry out periodic tests with bi-annual frequency during the months of May and November. Tests should last 48 hours.	N/A	Implemented Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/12	Conc. 15/14	**Seminar/workshop on SIGMET information** That ICAO, in coordination with WMO and VAAC provider States, organize a seminar on the preparation, issuance, and dissemination of SIGMET information.	The Air Navigation Commission, at the eight meeting of its 181st Session on 23 June 2009, in considering the GREPECAS/15 Report, concurred with GREPECAS and requested the Secretary General to organize the required training in coordination with WMO and VAAC Washington and Buenos Aires Provider States.	Valid ICAO Secretary General sent on 13 July 2009 the letters: Ref.: AN 10/16.1 SWG 16/1 SWG 16/1 to WMO Secretary General. According with previous coordinations with WMO, it was decided to postpone the seminar for 2010. Mexico Office will make the coordinations to carry it out, if possible, in Honduras.
Draft Conc. 9/13	Párrafo 3.3.15 del Informe	N/A	N/A	N/A
Draft Conc. 9/14	Conc. 15/15	**Transition to the new TAF format** That CAR/SAM States/Territories be encouraged to visit the NWS webpage in order to learn more about the TAF format changes and test their processors with the models provided.	N/A	Implemented Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/15	Conc. 15/16	**Harmonization of the information contained in CAR/SAM FASID Table AOP 1 and in Doc 7910** That, in order to harmonize the information contained in Doc 7910 – *"Location Indicators"* and CAR/SAM FASID Table AOP 1, the ICAO NACC and SAM Offices carry out a detailed review of the information contained in both documents and, as necessary: a) update and amend CAR/SAM FASID Table AOP 1 in accordance with the ICAO amendment procedures; and b) request ICAO to update Doc 7910.	Agreed and requested the Secretary General that the CAR/SAM AOP Table and the information contained in Doc 7910 should be reviewed in order to harmonize the information contained in both documents.	Valid
Draft Conc. 9/16	Conc. 15/17	**Proposal for amendment to the CAR/SAM ANP FASID, Part VI – MET** That the ICAO NACC and SAM Regional Offices amend Part VI – MET of the CAR/SAM *Facilities and Services Implementation Document* (FASID) as indicated in **Appendix C** to this part of the report.	N/A	Implemented The South American Office communicated to States the approval of Proposal for amendment to FASID with Letter a Oficina Sudamericana comunicó LT 2/7.3.13/SA393 of 16 June 2009. On 17 June 2009, the President, on behalf of the Council, approved Proposal for amendment SAM 09/1 – MET and the South American Office communicated its approval to States with Letter LT 2/7.2.113/SA411 of 23 June 2009.

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States[1] International Organizations
Draft Conc. 9/17	Conc. 15/1	**Development of Performance Based regional and national plans** That, a) GREPECAS develop a performance-based regional plan in accordance with the Global Air Navigation Plan and the Global ATM Operational Concept. This plan should include identification of regional performance objectives and completion of performance framework forms for all air navigation areas such as ATM, CNS, AIM, MET and AGA/AOP; and b) States, Territories and International Organizations, taking into account user needs, develop performance-based national plans in accordance with the regional performance objectives included in the Regional Air Navigation Plan. These national plans should encompass identification of national performance objectives and completion of performance framework forms for all air navigation areas such as ATM, CNS, AIM, MET and AGA/AOP.	Noted and that GREPECAS and States are requested to take into account the user expectations in the development of performance framework forms.	Valid
Draft Conc. 9/23	Conc. 15/18	**Identification and application of mechanisms for the translation of MET training material and guides** That the ICAO NACC and SAM Regional Offices identify and apply mechanisms for translation of digital modules and training material from English into Spanish, as well as the refresher material and guides prepared by the AERMET Subgroup.	N/A	Implemented

STATUS OF IMPLEMENTATION OF GREPECAS/15 CONCLUSIONS BY THE STATES

STATE	15/5	15/6	15/7	15/8			15/9	15/10		15/11	15/13	15/15
				a	b	c		a	b			
WAFC Washington Provider State					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CAR REGION												
Anguilla (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Antigua and Barbuda	N/A	N/A	N/A	N/A	N/A	N/A	FS Station	N/A		N/A	N/A	Completed
Aruba (Netherlands)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Bahamas	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Barbados	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Belize	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
British Virgin Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Cayman Islands (United Kingdom)	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Costa Rica	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Cuba (OVM)	N/A	N/A	N/A	N/A	Valid	Valid	Valid	Valid	N/A	N/A	12/08 & 05/09	Completed
Dominica	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Dominican Republic (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	FS Station	Valid	N/A	N/A	05/09	Completed
El Salvador	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
French Antilles (France) (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		Valid	No	Completed
Grenada	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Haiti (OVM)	N/A	N/A	N/A	N/A	N/A	N/A	FS Station	Valid	N/A	N/A	No	Completed
Honduras (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	DP Station	Valid	Valid	Valid	12/08 & 05/09	Completed
Jamaica	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	Valid	N/A	No	Completed
Mexico (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Completed	Completed	Valid	12/08 & 05/09	Completed
Montserrat I. (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Valid	N/A	Completed
Netherlands Antilles (Netherlands) (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	N/A	N/A	12/08 & 05/09	Completed
Nicaragua	N/A	N/A	N/A	N/A	Valid	Completed	FS Station	N/A		Valid	N/A	Completed
Puerto Rico (United States)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Saint Kitts and Nevis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Saint Lucia	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Saint Vincent and the Grenadines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Trinidad and Tobago (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	Valid	Valid	12/08 & 05/09	Completed
Turks and Caicos Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Virgin Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Virgin Islands (United States)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed

STATE	15/5	15/6	15/7	15/8			15/9	15/10		15/11	15/13	15/15
				a	b	c		a	b			
SAM REGION												
Argentina	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid	12/08 & 05/09	Completed
Bolivia	N/A	N/A	N/A	N/A	Completed	Valid	Completed	N/A		N/A	12/08 & 05/09	Completed
Brazil	N/A	N/A	N/A	N/A	Completed	Valid	Valid	N/A		N/A	Valid	Completed
Chile	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid*[1]	12/08 & 05/09	Valid
Colombia	N/A	N/A	N/A	N/A	Completed	Valid	03/10	12/09	12/09	12/09	12/08 & 05/09	Valid
Ecuador	N/A	N/A	N/A	N/A	Completed	Valid	Completed	Completed	Valid	Valid	12/08 & 05/09	Completed
French Guiana (France)	N/A	N/A	N/A	N/A							No	Completed
Guandana	N/A	N/A	N/A	N/A				NA			No	Completed
Panama	N/A	N/A	N/A	N/A	Completed	Completed	Completed	01/10	01/10	N/A	No	Completed
Paraguay	N/A	N/A	N/A	N/A	Completed	Valid	Completed	NA		N/A	12/08 & 05/09	Completed
Peru	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid	12/08 & 05/09	Completed
Suriname	N/A	N/A	N/A	N/A				N/A		N/A	No	Completed
Uruguay	N/A	N/A	N/A	N/A				N/A		N/A	No	Completed
Venezuela	N/A	N/A	N/A	N/A	Completed	Valid	Completed	N/A		N/A	12/08 & 05/09	Completed

[1] The VONA form was incorporated in all MET flight documentation.

CONCLUSIONS/DECISIONS IN THE MET FIELD OF GREPECAS PREVIOUS MEETINGS

Reference Report Conc./Dec.	Conclusions/Decisions	Subsequent Action by ICAO and/or by States/Territories International Organizations
Conc. 10/39	**Training of Aeronautical Meteorological personnel** That ICAO develop and implement a joint project with the WMO to provide short and long term solutions to the lack of trained personnel in the aeronautical meteorological field faced by most of the States in the CAR/SAM Regions.	**Valid**
Conc. 12/67	**Quality assurance systems for Meteorological services in the CAR/SAM Regions** That CAR/SAM States/Territories/International Organizations make utmost efforts to establish quality assurance systems for meteorological services provided in support of international air navigation in the CAR/SAM Regions.	**Valid**
Conc. 13/16	**Cost recovery of MET services in the CAR/SAM Regions** That the States/Territories/International Organizations, in coordination with the aeronautical meteorological authorities: a) establish a method for recovering the costs of aeronautical meteorological services provided in their territory, through the application of charges for air navigation services; and b) include the cost related to the reception and provision of WAFS products, especially charges for the replacement or improvement of workstations and the WAFS software required for receiving these products in GRIB and BUFR codes, and maintenance of the ISCS1 (VSAT) workstation.	**Superseded**
Dec. 13/23	**Development of a Guide for the drafting of emergency plans for aerodromes that might be affected by volcanic ash in the CAR/SAM Regions** That the AERMET Subgroup, in coordination with the Secretariat, develop a guide for the drafting of emergency plans for aerodromes that might be affected by volcanic ash in the CAR/SAM Regions.	**Superseded**
Dec. 13/28	**Guide for the exchange of OPMET information in the CAR/SAM Regions** That the AERMETSG Subgroup, in coordination with the Secretariat, develop a Guide for the exchange of OPMET information in the CAR/SAM Regions.	**Implemented**

Agenda Item 2: Implementation of the World Area Forecast System (WAFS):

a) Review the outcome of WAFSOPSG/5 Meeting

2.1 Under this Agenda Item the Meeting took note of the Executive Summary of the Fifth Meeting of the WAFS Operations Group (WAFSOPSG/5), carried out from 16 to 18 September 2009 in Paris, France, which is included as **Appendix A** to this part of the report. It was also noted that the complete report is available at the WAFSOPSG website: http://www.icao.int/anb/wafsopsg.

Review of ANP/FASID procedures

2.2 The Meeting noted that during its fifth meeting, the Group reviewed the global WAFS procedures and approved a draft modification to introduce the following changes:

a) introduction of a reference to the ISCS and SADIS FTP services used in parallel with the satellite broadcasts;

b) deletion of FASID Tables MET 6 concerning the responsibilities of world area forecast centres (WAFC); these tables had become redundant since such responsibilities were now global and included in detail in Annex 3; and

c) replacement of FASID Tables MET 7 by links to the appropriate websites containing the up-to-date lists of international satellite communications system (ISCS) and satellite distribution system for information relating to air navigation (SADIS) users.

2.3 In this regard, it was noted by the Meeting that the amendments proposed as a follow-up to Conclusion 5/2, WAFS-related regional procedures, have been forwarded to the ICAO Regional Offices and would be included in the consolidated proposal for amendment, which is normally prepared and circulated to CAR/SAM States and international organizations annually by the South American Regional Office of Lima.

2.4 Concerning the distribution of WAFS forecast the Meeting noted that the new gridded forecasts for CB clouds, icing and turbulence in the GRIB 2 code form would be available in the ISCS and SADIS FTP services with a disclaimer that would identify them as “GRIB2 trial forecasts” or similar and that they would be available to authorized users on the FTP services in the GRIB 2 code form by March 2010. The Meeting noted that the WAFSOPSG had developed draft guidance to use the gridded forecasts, but that additional work was still necessary to reflect the expected changes and that the WAFSOPSG will now look into issues such as visualization and interpretation of the gridded forecasts (Conclusion 5/11 refers).

2.5 The WAFSOPSG/5 Meeting agreed that a new deliverable entitled “Migration plan to the NextGen/SESAR” be added to its work programme (Conclusion 5/20) to take account of the influence of such concepts as “4-dimensional weather data cube” and “single authoritative source” included in the United States Federal Aviation Administration (FAA) NextGen/EUROCONTROL SESAR programmes.

ISCS User Guide

2.6 The Meeting noted that to ensure the currency of information of the ISCS User Guide, as a follow-up of WAFSOPSG Conclusion 5/3 the WAFSOPSG Secretary will replace the *ISCS User Guide* on the WAFSOPSG website by a link to the NOAA website: www.nws.noaa.gov/iscs.

Harmonization between ISCS and SADIS

2.7 The Meeting additionally noted the improvements that had been made by the ISCS Provider State towards harmonizing the OPMET data content of the ISCS broadcast with that of the SADIS broadcast. In this regard, the latest efforts to harmonize the International Satellite Communication System (ISCS) and Satellite Distribution System for Information Related to Air Navigation (SADIS) presented by the WAFC Washington Provider State were reviewed by the group, taking note as an important development that ISCS is now using the SADIS User Guide (SUG) as the requirement baseline for all operational meteorological data (OPMET).

b) Review the status of implementation of ISCS

2.8 The Subgroup was provided by the WAFC Washington Provider State with complete information concerning WAFS developments since the last AERMETSG/9 Meeting. In this regard, the Subgroup noted that some of these developments have had direct impact on users. The main developments were related to WAFS upper-air data in the GRIB 2 code form coordination between WAFCs and the tropical cyclones advisory centers (TCACs) and WAFC back-up tests.

2.9 The Meeting was also provided with updated information about the plan by the ISCS Provider State to replace its second-generation ISCS (ISCS-G2), since the existing service contract for the ISCS-G2 could not be extended beyond 2012. It was also noted that the future methods of dissemination of WAFS forecasts and OPMET data had not been established and that two scenarios were envisaged:

a) use of a combination of the third-generation ISCS (ISCS-G3) and an Internet-based service called “WAFS Internet File Server (WIFS)”; or

b) exclusive use of the WIFS.

2.10 The Meeting noted that under the ISCS Provider State proposal, the WIFS would allow States, through the use of the Public Internet, to have access to all WAFS forecasts and OPMET data currently available through the ISCS and that in view of the cost effectiveness of Internet-based distribution systems, both for the service provider and users, the WIFS will be implemented by the ISCS Provider State no later than March 2010. In this context, users would be responsible for arranging their own access to the public internet, and also for any required modifications to WAFS workstation software necessary to download WAFS products off of the WIFS.

2.11 In support of the WIFS proposal, it was noted that the Thirteenth Meeting of the CNS/MET Subgroup of APANPIRG (Bangkok, Thailand, 22-24 July 2009) had developed a decision considering the use of the public Internet, to access OPMET data and WAFS forecasts, as non-time critical if only used for flight planning and, therefore, can be accessed through the public Internet.

2.12 When discussing this proposal, the Meeting noted with satisfaction that the migration to the WIFS was beneficial for WAFS implementation, but that the States should take the necessary actions to ensure the availability of the Internet. In this regard, the Meeting formulated the following draft conclusions:

DRAFT
CONCLUSION 10/01 MIGRATION FROM ISCS-G2 TO WIFS

That, taking into consideration the proposed migration from ISCS-G2 to WIFS, ICAO encourages States to take appropriate measures to obtain access using the WIFS to the WAFS products provided by WAFC Washington.

DRAFT
CONCLUSION 10/02 TRANSITION OF ISCS-G2 AND IMPLEMENTATION OF THE WAFS FILE SERVER

That, with the goal of providing to the users enough time to undertake an orderly transition, the WAFC Washington Provider State is invited to:

a) extend the service ISCS-G2 until 30 June 2012; and

b) provide an operational WAFS Internet File Server (WIFS) no later than March 2010.

2.13 The Meeting also noted that users would be provided by the ISCS Provider State with a WIFS users guide covering details such as user access, file formats and directory structures. In this regard, concerns were expressed by the Subgroup concerning language issues. The Subgroup felt that this important guidance should also be available in Spanish to support Spanish speaking States in the implementation, thus formulated the following draft conclusion:

DRAFT
CONCLUSION 10/03 WIFS USER GUIDE

That,

a) the WAFC Washington Provider State be invited to consider the possibility of providing the WIFS User Guide also in Spanish; and

b) if the request in paragraph a) is not possible, ICAO take the necessary actions for the translation of the referred guide.

2.14 During the discussions, the Subgroup realized that there will be a number of complex tasks with regard to the WIFS transition, such as protocols to be used, workstations capabilities, authorized users, etc. The Subgroup felt that it would be prudent the establishment of a Task Force to take care of the different issues.

2.15 Finally, the Meeting emphasized, particularly, the support among the States for WAFS implementation, and the improvement of MET services in general, through technical visits, as a follow up to GREPECAS Conclusion 9/10.

FIFTH MEETING

WORLD AREA FORECAST SYSTEM OPERATIONS GROUP

(Paris, France, 16 to 18 September 2009)

EXECUTIVE SUMMARY[1]

1. INTRODUCTION

1.1 The fifth meeting of the World Area Forecast System Operations Group (WAFSOPSG/5) was held in the European and North Atlantic (EUR/NAT) Regional Office, Paris, 16 to 18 September 2009. The meeting was attended by thirty three experts from fifteen States and three international organizations, (the International Air Transport Association (IATA), the International Federation of Air Line Pilots' Associations (IFALPA) and the World Meteorological Organization (WMO)).

1.2 The Chairman, Mr. Dorinel Visoiu, presided over the meeting throughout its duration.

2. FOLLOW-UP OF WAFSOPSG/3 CONCLUSIONS

2.1 With regard to the follow-up of the conclusions, the group noted that action had been completed on all the issues except for Conclusions 4/11 related to the further development of WAFS output performance indicators, and 4/19 a) related to draft Amendment 76. Work on the outstanding issues would be pursued for review by the WAFSOPSG/6 (Decision 5/1).

3. REVIEW OF ICAO PROVISIONS RELATED TO WAFS

3.1 Under this agenda item, the group reviewed the regional procedures related to world area forecast system (WAFS) and proposed amendments regarding, inter alia, the introduction of a reference to the international satellite communications system (ISCS) and satellite distribution system for information relating to air navigation (SADIS) file transfer protocol (FTP) services used in parallel with the satellite broadcasts (Conclusion 5/2).

4. OPERATION OF THE WAFS

4.1 The group took note of the WAFS management report which had been prepared by the WAFC Provider States and placed on the WAFSOPSG website. The group reviewed the management report, noted its content and expressed satisfaction with the scope of information provided.

4.2 The group noted that the updated version of the *ISCS User Guide* could be retrieved at: www.nws.noaa.gov/iscs. To ensure the currency of the information contained, the group agreed that the *ISCS User Guide* on the WAFSOPSG website should be replaced by a link to the NOAA website (Conclusion 5/3).

[1]The full report is available at the following website: www.icao.int/anb/wafsopsg

4.3 The group reviewed the progress report by world area forecast centre (WAFC) Provider States which outlined their compatibility with Quality Management System (QMS) principles as far as the update of the forecasts was concerned. In order to render their practices in compliance with the Quality Management System (QMS) principles the group agreed to support the implementation of corrections to WAFS significant weather (SIGWX) (Conclusion 5/4).

4.4 With regard to the harmonisation of the information on tropical cyclones (TC) in the WAFS SIGWX forecasts and TC advisories the group noted that a web chat trial between the WAFCs and tropical cyclone advisory centres had taken place. The group considered that the trial had been beneficial for the WAFS and, agreed that such coordination should continue on an operational basis (Decision 5/5).

4.5 The group addressed the implementation of the dissemination of GRIB 2 coded WAFS forecasts on the ISCS and SADIS satellite broadcasts. With regard to the GRIB 2 WAFS forecasts for CB clouds, icing and turbulence the group considered that they were currently experimental in character and should not yet be used operationally. It was agreed that only the fully operational WAFS upper wind/temperature/humidity/tropopause forecasts in the GRIB 2 code form should be available on the ISCS and SADIS broadcasts (Decision 5/6). The introduction of the WAFS forecasts for CB clouds, icing and turbulence therein would be postponed until such a time that the new forecasts would reach a standard deemed acceptable by the WAFSOPSG for flight planning applications.

4.6 The group noted that performance indicators for wind and temperature for the WMO defined area of Australia and New Zealand had been added to the WAFCs websites In this regard it was noted that the WAFC Washington site depicted performance indicators for Flight Levels 050, 100, 180, 240, 300, 320, 360, 390, 450 and 530 while information related to Flight Level 340 was provided by both WAFCs. The group agreed that WAFC London should implement the performance indicators for the additional levels, with the understanding that it would increase their costs by about £ 5000 (Conclusion 5/7).

4.7 In view of ensuring that all SIGWX forecasts contain consistent information at all times, in particular with regard to volcanic ash (VA) and TC, the group agreed to harmonize the issuance times of all SIGWX forecast (Conclusion 5/8).

4.8 The group considered the possibility of allowing the use of the public Internet for the distribution of all WAFS forecasts and OPMET data for flight planning purposes and agreed that the use of the public Internet for disseminating OPMET data for such purposes was non-time-critical (Decision 5/9) and thus in full agreement with the ICAO provisions which were expected to become applicable in 2010.

5. DEVELOPMENT OF THE WAFS

5.1 The group noted a progress report prepared by the WAFCs Provider States dealing with issues concerning the new gridded forecasts for convective clouds, icing and turbulence. The group concurred that the development of gridded (GRIB 2) forecasts for CB clouds, icing and turbulence had progressed well; however, feed-back from the user organizations and user States during the WAFS workshop related to the visualization of the new gridded forecasts indicated that further work was still necessary to improve these forecasts (Conclusion 5/10).

5.2 The group also noted that draft guidance on the intended use of the gridded WAFS forecasts for CB clouds, icing and turbulence in flight documentation had been developed; the group considered that this draft guidance while it was a good starting point, further work by the WAFC

Provider States was required to reflect the expected changes in the visualisation, and to assist in the interpretation, of the gridded forecasts (Conclusion 5/11).

5.3 The group noted that need for training related to the "roll-out" of the new gridded forecasts had been recognized by most planning and implementation regional groups (PIRGs) which had formulated conclusions calling for the WAFC Provider States to organize training seminars on the use of the new gridded WAFS forecasts for CB clouds, icing and turbulence . In addition to these seminars, the group agreed that the availability of continuous training would be highly useful; therefore, it was considered important to develop computer-based training products for distribution to States and a web-based training package (Conclusion 5/12).

5.4 With regard to the development of a web-based distribution service (which would provide a minimum set of WAFS charts, intended for flight planning), the group felt that the products that were proposed to be included therein were unsuitable for use in flight documentation and that therefore, the further development of this service should be temporarily suspended until such a time that visualisation standards were resolved to the full satisfaction of the users (Decision 5/13).

5.5 The continued need for receiving information presented similar to the existing SIGWX charts was reiterated by the users; therefore, the group agreed that the WAFC Provider States should develop a proposal for the future visualisation of SIGWX forecasts making increased use of automated forecast data which would allow the presentation of the information similar to the current SIGWX charts (Conclusion 5/14).

5.6 Concerning the use of concatenated WAFS forecasts to meet the needs for long-haul flights the group agreed that it would be desirable to develop Annex 3 provisions to enable the provision of concatenated route-specific gridded forecast charts of CB clouds, icing and turbulence, generated from interpolating data from consecutive forecast times and that the production of such forecasts would be technically feasible as soon as the visualisation standards have been resolved. (Decision 5/15).

5.7 The group considered that there was a need to include, in the legend box of flight documentation, the name of the centre supplying the WAFS forecast to the end user, in view of ensuring traceability. The group realized that to achieve this, a revision to the model charts in Annex 3 would be required (Conclusion 5/16). It was noted that the implementation of this revision would require minor software updates on end-user workstation software.

5.8 Concerning the distribution of WAFS forecast the group agreed that, in view of their trial nature, the new gridded forecasts for CB clouds, icing and turbulence in the GRIB 2 code form should not yet be made available on satellite broadcasts where their experimental nature could not be indicated. However, the group concurred that the gridded WAFS forecasts for CB clouds, icing and turbulence should be included in the ISCS and SADIS FTP services with a disclaimer that would identify them as "GRIB2 trial forecasts" or similar. It was noted that the gridded forecasts would be available to authorized users on the FTP services in the GRIB 2 code form by March 2010(Conclusion 5/17).

6. LONG-TERM PLANNING OF THE WAFS IMPLEMENTATION

6.1 The group reviewed the WAFS 5-year plan to take into account the latest developments and to add expected milestones for the year 2013. (Decision 5/18).

7. FUTURE WORK PROGRAMME

7.1 The group endorsed its work programme where tasks related to the replacement of WAFS SIGWX forecasts and the migration plan to the GRIB 2 code form had been merged into closely related deliverables (Decision 5/19**)**.

7.2 With regard to need for additional items, the group agreed that a new deliverable entitled "migration plan to the NextGen/SESAR" be added to its work programme (Conclusion 5/20) to take account of the influence of such concepts as "4-dimensional weather data cube" and "single authoritative source" included in the United States Federal Aviation Administration (FAA) NextGen/EUROCONTROL SESAR programmes.

— END —

Agenda Item 3: Implementation of the International Airways Volcano Watch (IAVW)

3.1 To deal with this part of the agenda the Meeting recalled that the IAVW Operations Group (IAVWOPSG) develop proposals for the development of the International Airways Volcano Watch (IAVW) in order to ensure that it continues to meet evolving operational requirements, under ICAO procedures for the amendments to Annex 3, and that the Air Navigation Planning and Implementation Groups (PIRGs) should review the results of the IAVWOPSG meetings and identify any necessary follow-up action at regional level. Additionally, issues related to IAVW implementation raised by the PIRGs should be referred to the IAVWOPSG for consideration.

a) Review the outcome of IAVWOPSG/4 Meeting

3.2 The Subgroup reviewed the outcome of the Fourth Meeting of the International Airways Volcano Watch Operations Group (IAVWOPSG/4) which was carried out from 15 to 19 September 2008 in Paris, France. The Subgroup noted that such meeting had formulated 29 conclusions and 2 decisions, which are included in the executive summary of the Report of such meeting. It was also noted that complete information regarding IAVWOPSG meetings can be found at the IAVWOSG website: http://www.icao.int/anb/iavwopsg.

3.3 At the Fourth Meeting of the Group (IAVWOPSG/4), the IAVW-related regional procedures have been reviewed and Conclusion 4/2 – Amendment to the IAVW-related regional procedures in the ANP/FASID has been formulated.

3.4 The Subgroup noted that following the referred conclusion, the Lima Regional Office has consolidated and processed the amendment (SAM 09/01-MET to ANP, Volume I Basic and SAM 09/02 MET to ANP, Volume II, FASID) which included, among others, amendments to CAR/SAM FASID Tables MET 3A, 3B and MET 3C and to ANP Basic, with regard to International Airways Volcanic Watch (IAVW). In this regard, the meeting noted that the State Letters with the approval of these amendments has been sent on 23 June and 14 July 2099, respectively.

b) Review the status of implementation of IAVW

3.5 The Meeting highlighted the operational importance of keeping up-to-date Doc 9766, *Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List* and that States could make a follow up and take actions with regard to IAVWOPSG conclusions by accessing into its website.

3.6 In this regard, the Meeting agreed in the need to have Doc 9766 available in Spanish and if this could not be possible, the Secretariat could develop guidance on the international airways volcano watch, which could be placed in ICAO Lima and Mexico Offices websites. In view of the above, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/04 GUIDE ON THE INTERNATIONAL AIRWAYS VOLCANO WATCH (IAVW)

That the Secretariat develops regional guidance in Spanish, to explain the contents of Doc 9766, *Handbook on the International Airways Volcano Watch (IAVW) – Operational Procedures and Contact List.*

Agenda Item 4: Implementation of SIGMET

4.1 Under this agenda item, the Meeting took note that the main task of the ICAO Meteorological Warning Study Group (METWSG) is to review the current provisions in Annex 3 – *Meteorological Services for International Air Navigation* concerning the content and issuance of SIGMET to meet the evolving needs of flight operations and with a view to resolving the persistent implementation problems with the availability of SIGMET. In addition, the Group assesses the need to develop criteria for the provision of warnings for rotor zones in the terminal area and the need to provide information on low-level temperature inversions.

4.2 The Meeting also noted that complete information on METWSG meetings can be found in its website: http://www2.icao.int/en/anb/met-aim/met/metwsg/Lists/Meetings/AllItems.aspx.

a) Review of the outcome of the METWSG/2 Meeting

4.3 When discussing Agenda Item 5 – Content and issuance of SIGMET, the METWSG/2 Meeting recalled that the Thirteenth Meeting of the Satellite Distribution Systems Operations Group (SADISOPSG/13, May 2008), noted with concern the results of the global monitoring that had shown occurrences of significant deficiencies in SIGMET format compliance and in the incorrect routing format with particular reference to the first line of the SIGMET. The results had been disappointing in that only 29 per cent of the samples during a 14-day period had been in compliance as far as the identification of the FIR was concerned.

4.4 In this regard, and considering that the Brasilia International OPMET Databank carries out four annual controls of OPMET information received from the CAR/SAM Regions, and that in their control it analyzes the most common errors in the headings of the messages, the Meeting agreed to request the referred bank that when developing the afore mentioned analysis give priority to SIGMET errors and, as included in their procedures, send this information to the SAM Office for its further submission to the States concerned. In this context, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/05 MONITORING OF SIGMET RECEIVED IN BRASILIA INERNATIONAL OPMET DATABANK

That, in the controls of OPMET information carried out by the Brasilia International Databank:

a) priority is given to the analysis of most common errors in the headings of SIGMET;

b) the results be sent to ICAO SAM Office; and

c) ICAO Lima and Mexico offices submit the monitoring results to the corresponding States for them to take the pertinent actions to correct the deficiencies detected.

4.5 During the Second Meeting of the Meteorological Warning Study Group (METWSG/2), carried out from 19 to 21 May 2009 in Montreal, Canada, it was agreed that the ad hoc Group established in the METWSG/1 by Action agreed 1/2, should consider the improvement of the existing framework and the development of draft provisions with a view to use regional cooperation, in particular where resources at MWOs are deemed insufficient to cope with the requirements.

4.6 The group also agreed that it was prudent to conduct a feasibility study during a reasonable period in a region where this type of problems have occurred, in order to introduce SIGMET advisory information to be issued by designated regional centres, similar to volcanic ash advisories and tropical cyclones.

4.7 The Meeting recalled that ICAO regions are represented in ICAO Operations Groups and Panels in Montreal, nevertheless, sometimes the States do not send their experts to the meetings. Consequently, it was agreed to formulate the following draft conclusion:

DRAFT
CONCLUSION 10/06 PARTICIPATION OF STATES' MEMBERS IN THE MEETINGS OF ICAO OPERATIONS GROUPS OR PANELS IN MONTREAL

That, States that have experts in ICAO Operations Groups and Panels in Montreal are encouraged to make the maximum efforts for them to participate in the meetings.

b) Implementation issues

4.8 With regard to GREPECAS Conclusion 15/11 – Implementation of the Volcano Observatory Notice for Aviation (VONA), the Meeting was aware that this format has not yet been implemented in the CAR/SAM Regions, thus, agreed that the States that have volcano observatories be urged to invite the vulcanological authorities involved, to implement the VONA format.

4.9 In respect to Conclusion 15/12 – Back-up MWOs in the CAR/SAM States, the Meeting reviewed and updated the list prepared by ICAO NACC and SAM Regional Offices in order to include them in the CAR/SAM Regional SIGMET Guide, and formulated the following draft conclusion:

DRAFT
CONCLUSIÓN 10/07 BACK-UP MWOs IN THE CAR/SAM STATES

That,

a) in order to comply with paragraph 13 of ANP Basic, Part VI – MET, if a MWO is temporarily not functioning another could face its obligations, the back-up list included as **Appendix A** to this part of the report should be taken into account;

b) the Secretariat make the necessary updates to CAR/SAM Regional SIGMET Guide.

4.10 The Meeting also considered pertinent to carry out an ATS/MET Coordination Meeting to deal with MWOs contingency and their inclusion in the ATS/MET letters of agreement, which would be included in the regular meeting programme of the Lima and Mexico offices, if possible for 2010.

4.11 With regard to Conclusion 15/13 – Increased frequency of bi-annual periodic SIGMET WV tests, the Meeting took note that in compliance with the referred conclusion, the days 17 and 18 of December 2008 and 20 and 31 May 2009 the corresponding SIGMET tests were carried out. The results of the analysis of the referred tests were examined by the Subgroup and noted with concern that the main problems detected were:

- delays in SIGMET issuance;
- errors in the preparation; and
- lack of cancellation of SIGMET

4.12 The Subgroup also considered that the SIGMET tests should be carried out once a year, during the month of September, in which not only the issuance and reception of volcanic ash SIGMET should be analyzed, but also the report itself. In this regard, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/08 SIGMET WV TESTS

That, in order to keep a constant feedback and efficiency in the issuance of volcanic ash SIGMET, starting 2010, the States, in coordination with the corresponding VAACs, carry out the SIGMET WV test during the month of September. The test should have a duration of 48 hours.

4.13 The Meeting reviewed and updated the contact information of the ACC, MWO and NOTAM international offices (NOF) under the responsibility of VAAC Buenos Aires and Washington, in Appendices K and L of the Guide for the preparation, dissemination and use of SIGMET messages, which is also included in Part 5 of Doc 9766-AN/69 – *Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List*, and is presented in **Appendices B** and **C** to this part of the report.

4.14 In addition, the Meeting was aware of the need that the meteorological authorities review their procedures, in particular those regarding meteorological watch offices, in order to inform Lima and Mexico regional offices about changes in the contact information of the area control centres (ACC), NOTAM international offices (NOF), vulcanological observatories or in meteorological watch offices, in order to update the information of the Regional SIGMET Guide, as well as the List of Doc 9766.

4.15 The Meeting agreed that is was necessary to take into account another implementation issue in order that the IAVW Operations Group (IAVWOPSG) should provide more information regarding the issuance of SIGMET for toxic clouds and radioactive material, through the development of an information template, similar to VAA and TCA templates, which could be used for the issuance of these SIGMET, as well as the development of guidance material on the procedures for their notification.

4.16 In this regard, the Meeting took note that this issue had been raised by APANPIRG/20, in its Conclusion 20/69, which will be tabled for consideration by the Air Navigation Commission in due course.

BACK-UP METEOROLOGICAL WATCH OFFICE (MWO)

Meteorological Watch Office	ICAO Location Ind.	Back-up Meteorological Watch Office	ICAO Location Ind.
ARGENTINA		**ARGENTINA**	
BUENOS AIRES/Aeroparque, Jorge Newbery	SABE	COMODORO RIVADAVIA/General Mosconi	SAVC
COMODORO RIVADAVIA/General Mosconi	SAVC	BUENOS AIRES/Aeroparque, Jorge Newbery	SABE
CORDOBA/Ing. Aer. A.L. Taravela	SACO	RESISTENCIA/Resistencia	SARE
MENDOZA/El Plumerillo	SAME	BUENOS AIRES/Aeroparque, Jorge Newbery	SABE
RESISTENCIA/Resistencia	SARE	CORDOBA/Ing. Aer. A.L. Taravela	SACO
BOLIVIA		**PERÚ**	
LA PAZ/El Alto Intl	SLLP	LIMA-CALLAO/Jorge Chávez Intl	SPIM
BRAZIL		**BRAZIL**	
BRASILIA/CINDACTA I	SBBS	MANAUS/CINDACTA IV	SBAZ
CURITIBA/CINDACTA II	SBCW	RECIFE/CINDACTA III	SBRE
RECIFE/CINDACTA III	SBRE	CURITIBA/CINDACTA II	SBCW
MANAUS/CINDACTA IV	SBAZ	BRASILIA/CINDACTA I	SBBS
CHILE		**CHILE**	
ANTOFAGASTA/Cerro Moreno	SCFA	SANTIAGO/Arturo Merino Benítez	SCEL
PUERTO MONTT/El Tepual	SCTE	SANTIAGO/Arturo Merino Benítez	SCEL
PUNTA ARENAS/Pdte. C. Ibáñez del Campo	SCCI	SANTIAGO/Arturo Merino Benítez	SCEL
SANTIAGO/Arturo Merino Benítez	SCEL	PUERTO MONTT/El Tepual	SCTE
COLOMBIA		**PANAMÁ**	
BOGOTÁ/Eldorado	SKBO	PANAMA/Tocumen Intl	MPTO
CUBA		**UNITED STATES**	
HABANA/José Martí Intl	MUHA	Kansas City Aviation Weather Center	KKCI
DOMINICAN REPUBLIC		**UNITED STATES**	
SANTO DOMINGO/De Las Américas Intl	MDSD	Kansas City Aviation Weather Center	KKCI
ECUADOR		**BOLIVIA**	
GUAYAQUIL/José Joaquín de Olmedo	SEGU	LA PAZ/El Alto Intl	SLLP
FRENCH GUIANA (France)		**FRENCH GUIANA (France)**	
CAYENNE/Rochambeau	SOCA	PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP
GUYANA		**TRINIDAD AND TOBAGO**	
TIMEHRI/Cheddi Jagan Intl	SYCJ	PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP
HAITI		**JAMAICA**	
PORT-AU-PRINCE/Port-au-Prince Intl	MTPT	KINGSTON/Norman al Manley Intl	MKJP
HONDURAS		**PANAMA**	
TEGUCIGALPA/Toncontin Intl	MHTG	PANAMA/Tocumen Intl	MPTO
JAMAICA		**UNITED STATES**	
KINGSTON/Norman al Manley Intl	MKJP	Kansas City Aviation Weather Center	KKCI
MEXICO		**UNITED STATES**	
MEXICO/Lic. Benito Juárez Intl	MMMX	Kansas City Aviation Weather Center	KKCI
NETHERLANDS ANTILLES (Netherlands)		**JAMAICA**	
WILLEMSTAD/Hato, Curaçao I.	TNCC	KINGSTON/Norman al Manley Intl	MKJP
PANAMA		**COLOMBIA**	
PANAMA/Tocumen Intl	MPTO	BOGOTÁ/Eldorado	SKBO
PARAGUAY		**ARGENTINA**	
ASUNCION/Silvio Pettirossi	SGAS	RESISTENCIA/Resistencia	SARE

Meteorological Watch Office	ICAO Location Ind.	Back-up Meteorological Watch Office	ICAO Location Ind.
PERU		**BRAZIL**	
LIMA-CALLAO/Jorge Chávez Intl	SPIM	MANAUS/CINDACTA IV	SBAZ
SURINAME		**TRINIDAD AND TOBAGO**	
ZANDERY/Johan Adolf Pengel Intl	SMJP	PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP
TRINIDAD AND TOBAGO		**UNITED STATES**	
PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP	Kansas City Aviation Weather Center	KKCI
UNITED STATES			
Kansas City Aviation Weather Center	KKCI		
URUGUAY		**ARGENTINA**	
MONTEVIDEO/Carrasco Intl Gral. Cesáreo L. Berisso	SUMU	BUENOS AIRES/Aeroparque, Jorge Newbery	SABE
VENEZUELA		**BRAZIL**	
CARACAS/Simon Bolivar Intl, Maiquetia	SVMI	MANAUS/CINDACTA IV	SBAZ

Contact information of the ACC, MWO, NOF and Volcano Observatories of CAR/SAM States under the responsibility of VAAC Buenos Aires

VAAC BUENOS AIRES:
AFTN: SAZZMAMX Tel. (5411) 5167 6767 Ext. 18238/18233
Tel: (5411) 5167 6767 Ext. 18238/18233/18103 / 5167 6705
Tel. Optional: (5411) 5167 6767 Ext. 18235 / 5167 6707 Fax: (5411) 5167 6709
Website: http://www.ssd.noaa.gov/VAAC/OTH/AG/messages.html
E-mail Operational: vmsr@smn.gov.ar / bue.vacc@smn-gov.ar / sovaacbue@smn.gov.ar (Mr. Carlos Severo Iglesias, VAAC Supervisor)
E-mail Optional: metaer@smn.gov.ar / cbenitez@smn.gov.ar (Lic. Carlos Manuel Benítez, VAAC Director)

STATE	Name	ICAO Location Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
ARGENTINA						
Observatorio u Organismo de Vulcanología	Servicio Geológico y Minero Argentino (SEGEMAR)	N/A	N/A	(5411) 4349 3176	(5411) 4349 3176	olapid@secind.mecon.gov.ar
FIR EZEIZA						
ACC	Ezeiza	SAEF	SAEZZRZX	(5411) 4480 2203	(54 11) 4480 2203	
MWO	Aeroparque	SABE	SABEYMYX SAZZMAMX	(5411) 4514 1612	(54 11) 4514 1612	omaaer@smn.gov.ar
FIR CORDOBA						
ACC	Córdoba	SACF	SACOZRZX	(54351) 4335 350	(54351) 4335 350	acccba@hotmail.com
MWO	Córdoba	SACO	SACOYMYX SAZZMAMX	(54351) 4341 479	(54 351) 4756 427	omacba@smn.gov.ar
FIR MENDOZA						
ACC	Mendoza	SAMF	SAMEZRZX	(54261) 4487 486	(54261) 4487 486	apelplumerillo@ciudad.com.ar
MWO	Mendoza	SAME	SAMEYMYX SAZZMAMX	(54261) 4487 468	(54 261) 4487 468	omadoz@smn.gov.ar
FIR COMODORO RIVADAVIA						
ACC	Comodoro Rivadavia	SAVF	SAVCZRZX	(54297) 4548 375		
MWO	Comodoro Rivadavia	SAVC	SAVCYMYX SAZZMAMX	(54297) 4548 018	(54297) 4548 018	omacrv@smn.gov.ar
FIR RESISTENCIA						
ACC	Resistencia	SARR	SAREZRZX	(54372) 2440 939	(54372) 2440 939	
MWO	Resistencia	SARE	SAREYMYX SAZZMAMX	(54372) 2436 278	(54372) 2436 285	omasis@smn.gov.ar
NOF	Ezeiza	SAEZ	SAEZYNYX	(5411) 4480 2260	(54 11) 4480 2260	notamezeiza@yahoo.com.ar
BOLIVIA						
FIR LA PAZ						
ACC	La Paz	SLLP	SLLPZRZX	(5912) 2810 203	(5912) 2810 203	

STATE	Name	ICAO Location Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
MWO MWO con VAAC Bs As.	La Paz	SLLP	SLLPYMYX	(5912) 2114 232 (5912) 2124 129	(5912) 2810 217	ovmbolivia@yahoo.es
NOF	La Paz	SLLP	SLLPYNYX	(5912) 2351 305 int. 152	(5912) 2370 341	aisbolivia@yahoo.es
BRASIL/BRAZIL						
FIR AMAZONICA						
ACC	Amazónica	SBAZ	SBAZZRZX	(5592) 3652 5318 (5592) 3652 1401	(5592) 3625 5425	
MWO	Manaus/CINDACTA IV	SBAZ	SBMUYFTH	(5592) 3652 5375 (5592) 3652 5384		cmv-az@cindacta4.decea.gov.br
FIR BRASILIA						
ACC	Brasilia	SBBS	SBBRZRZX	(5561) 3364 8404 (5561) 3364 7032	(5561) 3365 8321	
MWO	Brasilia/CINDACTA I	SBBS	SBBSYMYX	(5561) 3364 8358		cmv-bs@cindacta1.aer.mil.br
FIR RECIFE						
ACC	Recife	SBRE	SBRFZRZX	(5581) 3462 2742	(55 81) 3462 4927	
MWO	Recife/CINDACTA III	SBRE	SBREYMYX	(5581) 2129 8093 (5581) 2129 8094		cmv-re@cindacta3.aer.mil.br
FIR ATLANTICO						
ACC	Atlántico	SBAO	SBAOZRZX	(5581) 3322 4107	(5581) 3462 4927	
MWO	Recife/CINDACTA III	SBRE	SBREYMYX	(5581) 2129 8093 (5581) 2129 8094		cmv-re@cindacta3.aer.mil.br
FIR CURITIBA						
ACC	Curitiba	SBCW	SBCWZRZX	(5541) 3356 3475 (5541) 3356 5342	(5541) 3251 5484	
MWO	Curitiba/CINDACTA II	SBCW	SBCWYMYX	(55 41) 3356 6216 (5541) 3356 5367		cmv-cw@cindacta2.aer.mil.br
NOF	Brasilia	SBBR	SBBRYNYX	(55 61) 3364 8353	(5561) 3364 8354	nofbrazil@cindacta1.aer.mil.br
CHILE						
Observatorio u Organismo de Vulcanología	Southern Andes Volcano Observatory (SAVO)	N/A	N/A	(5645) 270 700 Cel.: (5645) 09 643 0245	(5592) 625 0371	dvasualto@sernageomin.cl hmoreno@sernageomin.cl
	SERNAGEOMIN, Santiago	N/A	N/A	(562) 737 5050 Cel.: (56 45) 09 649 5377	(562) 737 9253	jnaranjo@sernageomin.cl josénaranjo@manquehue.net
FIR ANTOFAGASTA						
ACC	Antofagasta	SCFA	SCFAZRZX	(5655) 227 944 Anexo 1425	N/A	appantofagasta@dgac.cl
MWO	Antofagasta	SCFA	SCFAYMYX SCZZMAMX	(5655) 227 944 Anexos 1421, 1460, 1466	(5655) 225 022	cmrnorte@dgac.cl jaravena@dgac.cl Página Web: www.dimetchi.cl
FIR SANTIAGO						
ACC	Santiago	SCEL	SCELZRZX	(252) 767 2001 (562) 436 3004	(562) 7671 636	cta.accu@dgac.cl cta_acol@dgac.cl

STATE	Name	ICAO Location Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
MWO	Santiago	SCEL	SCELYMYX SCZZMAMX	(562) 601 9214 (562) 436 3224 (562) 436 3435	(562) 6019 214	metaer@meteochile.cl bcoopmet@meteochile.cl
NOF	Santiago	SCEL	SCELZPZX	(562) 436 3227	(562) 601 9366	operaciones_amb@dgac.cl
FIR PUERTO MONTT						
ACC	Puerto Montt	SCTE	SCTEZRZX	(5665) 486 234 (5665) 486 236	(5665) 486 298	evasquez@dgac.cl
MWO	Puerto Montt	SCTE	SCTEYMYX SCZZMAMX	(5665) 486 225 (5665) 486 226	(5665) 486 226	meteozonasur@dgac.cl
FIR PUNTA ARENAS						
ACC	Punta Arenas	SCCI	SCCIZRZX	(5661) 219 131 Anexo 5414, 5474	(5661) 219 131	fortiz@dgac.cl
MWO	Punta Arenas	SCCI	SCCIYMYX SCZZMAMX	(5661) 219 131 Anexos 5464 y 5423	(5661) 219 131 Anexo 5464	meteoparenas@dgac.cl
PARAGUAY						
FIR ASUNCION						
ACC	Asunción	SGFA	SGASZRZX	(59521) 646 082	(59521) 646 082	acc_sgas@dinac.gov.py
MWO	Asunción	SGAS	SGASYMYX SGZZMAMX	(59521) 646 095	(59521) 646 095	aeronautica_dmh@dinac.gov.py
NOF	Asunción	SGAS	SGASYNYX	(59521) 646 952	(59521) 646 952	ais.ad_nof@hotmail.com
PERU						
Observatorio u Organismo de Vulcanología	Instituto Geofísico del Perú Arequipa	N/A	N/A	(5154) 251 373	(5154) 251 373	Orlando Macedo omacedo@geo.igp.gob.pe
	Instituto Geofísico del Perú Lima	N/A	N/A	(511) 317 2325	(511) 317 2321	Edmundo Norabuena enorab@nazca.igp.gob.pe
FIR LIMA-CALLAO						
ACC	Lima-Callao	SPIM	SPIMZQZX	(511) 630 1157 (511) 630 1158 (511) 575 0886 (511) 575 1995		acclima@corpac.gob.pe hcasachahua@corpac.gob.pe
MWO	Lima-Callao	SPIM	SPIMYMYX SPZZMAMX	(511) 630 1181 (511) 630 1180	(511) 630 1180	pronostico@corpac.gob.pe
NOF	Lima-Callao	SPIM	SPIMYNYX SPIMYOYX	(511) 630 1173 (511) 630 1172 (511) 414 1435 (511) 414 1288	(511) 414 1435	aisaro@corpac.gob.pe
URUGUAY						
FIR MONTEVIDEO						
ACC	Montevideo	SUEO	SUEOZQZX	(5982) 6040 295	(5982) 6040 298	jopdta@adinet.com.uy
MWO	Montevideo	SUMU	SUMUYMYX	(5982) 2001 807	(5982) 6040 242	dmae@adinet.com.uy
NOF	Montevideo	SUMU	SUMUYNYX	(5982) 6040 067	(5982) 6040 067	ais@adinet.com.uy

Contact information of the ACC, MWO, NOF and Volcano Observatories of CAR/SAM States under the responsibility of VAAC Washington

VAAC WASHINGTON:
AFTN: KWBCYMYX
Tel.: 1 301 763 8444/8298 Fax: 1 301 763 8333/8592
Sitio web: http://www.ssd.noaa.gov/VAAC/washington.html
E-mail: w-vaac@noaa.gov Grace.Swanson@noaa.gov

STATE	Name	ICAO Loc. Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
BRAZIL						
FIR AMAZONICA						
ACC	Amazónica	SBAZ	SBAZZRZX	(5592) 3652 318 (5591) 3652 1401	(5592) 3652 5425	
MWO	Manaus/CINDACTA IV	SBAZ	SBMUYFTH	(5592) 3652 5375 (5592) 3652 5384		cmv-az@cindacta4.decea.gov.br
FIR BRASILIA						
ACC	Brasilia	SBBS	SBBRZRZX	(5561) 3364 8404 (5561) 3364 7032	(5561) 3365 8321	
MWO	Brasilia/CINDACTA I	SBBS	SBBSYMYX	(5561) 3364 8358		cmv-bs@cindacta1.aer.mil.br
FIR RECIFE						
ACC	Recife	SBRE	SBRFZRZX	(5581) 3462 2742	(55 81) 3462 4927	
MWO	Recife/CINDACTA III	SBRE	SBREYMYX	(5581) 2129 8093 (5581) 2129 8094		cmv-re@cindacta3.aer.mil.br
FIR ATLANTICO						
ACC	Atlántico	SBAO	SBAOZRZX	(5581) 3322 4107	(5581) 3462 4927	
MWO	Recife/CINDACTA III	SBRE	SBREYMYX	(5581) 2129 8093 (5581) 2129 8094		cmv-re@cindacta3.aer.mil.br
FIR CURITIBA						
ACC	Curitiba	SBCW	SBCWZRZX	(5541) 3356 3475 (5541) 3356 5342	(5541) 3251 5484	
MWO	Curitiba/CINDACTA II	SBCW	SBCWYMYX	(5541) 3356 6216 (5541) 3356 5367		cmv-cw@cindacta2.aer.mil.br
NOF	Brasilia	SBBR	SBBRYNYX	(5561) 3364 8353	(5561) 3364 8354	nofbrazil@cindacta1.aer.mil.br
COLOMBIA						
Volcano Observatory or Organization	Manizales	N/A	N/A	(5768) 843 020	(5768) 843 018	ovsm@ingeominas.gov.co
	Pasto	N/A	N/A	(5727) 314 752 (5727) 310 514 (5727) 312 595	(5727) 310 514	ovt@ingeominas.gov.co

STATE	Name	ICAO Loc. Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
	Popayan	N/A	N/A	(5728) 242 341 (5728) 242 057 (5728) 240 210	(5728) 241 255	
FIR BARRANQUILLA						
ACC	Barranquilla	SKBQ	SKBQZQZX	(575) 3348 075 (575) 3348 503	(575) 3348 503	Maritza.lopez@aerocivil.gov.co
MWO	Bogotá	SKBQ	SKBQYMYX	(571) 4138 792 (571) 2662 481	(571) 4138 440	fhidalgo@ideam.gov.co
FIR BOGOTA						
ACC	Bogotá	SKBO	SKBOZQZX	(571) 4139 998 (571) 2663 460 (571) 4135 445	(571) 4135 376	jcramirez@aerocivil.gov.co
MWO	Bogotá	SKBO	SKBOYMYX	(571) 4138 792 (571) 2662 481	(571) 4138 440	fhidalgo@ideam.gov.co
NOF	Bogotá	SKBO	SKBOYNYX	(571) 2662 552	(517) 4138 631	ais@aerocivil.gov.co
CUBA						
FIR HAVANA						
ACC	La Habana	MUHA	MUFHZQZX	(537) 642 1185	(537) 642 1185	superacc@aeronav.ecasa.avianet.cu
MWO	La Habana	MUHA	MUHAYMYX	(537) 642 6168	(537) 642 6168	meteof@aeronav.ecasa.avianet.cu aduran@aeronav.ecasa.avianet.cu
NOF	La Habana	MUHA	MUHAYNYX	(537) 266 4497	(537) 266 4497	notam@aeronav.ecasa.avianet.cu
DOMINICAN REPUBLIC						
FIR SANTO DOMINGO						
ACC	Santo Domingo	MDCS	MDCSZQZX	8095490692	8095490692	dgta@idac.gov.do
MWO	OVM	MDSD	MDSDYMYX	8095491291	8095490256	avionaila@yahoo.com
NOF	Ofic. NOTAM Intl.	MCSC	MDSDYNYX	8095490095	8095490095	ais@idac.gov.do
ECUADOR						
Volcano Observatory or Organization	Instituto Geofísico, Quito	N/A	N/A	(5932) 2225 655 (5932) 2225 627	(5932) 2567 847	geofisico@igepn.edu.ec geofisico@accessinter.net http://www.igepn.edu.ec
FIR GUAYAQUIL						
ACC	Guayaquil	SEGU	SEGUZQZX	(5934) 2282 851	(5934) 2396 073	accgye@dgac.gov.ec
MWO	Guayaquil	SEGU	SEGUYMYX	(5934) 2392 712	(5934) 2283 748	meteorologíagye@dgac.gov.ec fmancero@dgac.gov.ec
NOF	Guayaquil	SEGU	SEGUYNYX	(5934) 2285 661	(5934) 2285 661	notam_intl_gye@hotmail.com
FRENCH GUIANA						
FIR ROCHAMBEAU						
ACC	Rochambeau	SOCA	SOOOZQZX	(594) 359 306	(594) 359 398	gilles.esser@aviation-civile.gouv.fr
MWO	CVM Rochambeau	SOCA	SOCAYMYX	(594) 353 535	(594) 356 089	philippe.livenais@meteo.fr
NOF	Rochambeau	SOCA	SOOYNYX	(594) 359 3 08	(594) 304 124	gilles.esser@aviation/civile.gouv.fr
GUYANA						
Volcano Observatory or Organization	Guyana Geology and Mines Commission			(5922) 53047	(5922) 53047	ggmc@sdnp.org.gy

STATE	Name	ICAO Loc. Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
FIR GEORGETOWN						
ACC	Georgetown	SYCJ	SYCJZQZX	(592) 2612 245	(592) 2612 279	
MWO	Timehri	SYCJ	SYCJYMYX	(592) 2612 216	(592) 2612 284	s.h.williams@hydromet-gv
NOF	Timehri	SYCJ	SYCJYNYX	(592) 2612 269	(592) 2612 279	ais@gcaa-gy.org
HAITI						
FIR PORT AU PRINCE						
ACC	Port au Prince		MTEGZQZX			
MWO	Port au Prince	MTPP	MTPPYMYX	(509) 3406 0258		cnmhaiti@yahoo.fr
NOF			MTPPYNYX			
HONDURAS						
FIR CENTRAL AMERICAN						
ACC	Tegucigalpa	MHTG	MHTGZQZX	(504) 2331 503	(504) 2331 219	
MWO[1]	Tegucigalpa	MHTG	MHTGYMYX	(504) 2331 111 (504) 2337 114	(504) 2349 500	met_aerohonduras@smn.gob.hn
NOF	Tegucigalpa	MHTG	MHTGYNYX	(504) 2331 141/42/43 (504) 2331 349 (504) 2342 407	(504) 2331 141 (504) 2331 349	
JAMAICA						
FIR KINGSTON						
ACC	Kingston		MKJKZQZX			
MWO	Kingston	MKJP	MKJPYMYX	(876) 924 8055	(876)924 8670	metoffice@cwjamaica.com
NOF			MKJPYNYX			
MEXICO						
MEXICO Volcano Observatory or Organization FIR	Centro Nacional de Prevención de Desastres (CENAPRED)			(5255) 56068837 (5255) 5424 6100	(5255) 5606 1608	rqw@cenapred.unam.mx http://www.cenapred.unam.mx
	Centro Universitario de Investigación en Ciencias del Ambiente, Universidad de Colima			(52312) 3161 137 Ext. 51151	(52312) 3161 137 Ext. 31152	galindo@ucol.mx http://www.ucol.mx/volcan
	Instituto de Geofisica, UNAM Observatorio de volcanes, Universidad de Colima			(52312) 3161 134 Ext. 47208	(52312) 3161 134 Ext. 47208	tonatiuh@cgic.ucol.mx
FIR MAZATLÁN OCEANIC						
FIC	Radio Mexico	MMID	MMIDZQZX	(52999) 9461 347	(52999) 9461 237	centromerida@hotmail.com
MWO	México	MMMX	MMMXYMYT	(5255) 5716 6678	(5255) 5802 8519	hvargast@sct.gob.mx

STATE	Name	ICAO Loc. Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
FIR MEXICO						
ACC	Centro Mexico Centro Merida Centro Mazatlan Centro Monterrey	MMEX MMID MMZT MMTY	MMEXZQZX MMIDZQZX MMZTZQZX MMTYZQZX	(5255) 5716 6655 (52999) 9461 347 (52669) 9181 092 (5281) 8369 0846	(5255) 5716 4199 (52999) 9461 237 (52669) 9822 820 (5281) 8369 0884	centro_mexico@yahoo.com centromerida@hotmail.com josegalindo@hotmail.com felipe1822@yahoo.com.mx
MWO	Centro de Análisis y Pronósticos Meteorológicos Aeronáuticos (CAPMA), SENEAM, SCT.	MMMX	MMMXYMYT	(5255) 5716-6678	(5255) 5802 8519	hvargast@sct.gob.mx capma@sct.gob.mx
NOF	México	MMMX	MMMXYNYX	(55) 5716-6615	(5255) 5716 6615	jvillanu@sct.gob.mx
NETHERLANDS ANTILLES						
FIR CURACAO						
ACC	Curacao		TNCFZQZX			
MWO	Curacao	TNCC	TNCCYMYX	(599) 9839 3360	(599) 9869 2699	cur-met@meteo.an
NOF			TNCCYNYX			
PANAMA						
Volcano Observatory or Organization	Instituto de Geociencia			(507) 523 2071 (507) 523 2072 (507) 269 5744	(507) 2637671	igc2@ancon.up.ac.pa
FIR PANAMA						
ACC	Panamá	MPZL	MPZLZQZX MPPCICPX	(507) 5019807	(507) 5019849	mailto@aeronautica.gob.pa
MWO	Panamá	MPTO	MPTOYMYX	(507) 2382611 (507) 2382650	(507) 2384678	meteortoc@aeronautica.gob.pa
NOF	Panamá	MPTO	MPTOYNYX	(507) 2382615 (507) 2382616	(507) 2382617	aisnof@aeronautica.gob.pa
PERU						
Volcano Observatory or Organization	Instituto Geofísico del Perú Arequipa	N/A	N/A	(5154) 251 373	(5154) 251 373	Orlando Macedo omacedo@geo.igp.gob.pe
	Instituto Geofísico del Perú Lima	N/A	N/A	(511) 317 2325	(511) 317 2321	Edmundo Norabuena enorab@nazca.igp.gob.pe
FIR LIMA-CALLAO						
ACC	Lima-Callao	SPIM	SPIMZQZX	(511) 630 1157 (511) 630 1158 (511) 575 0886 (511) 575 1995		acclima@corpac.gob.pe hcasachahua@corpac.gob.pe
MWO	Lima-Callao	SPIM	SPIMYMYX SPZZMAMX	(511) 630 1181 (511) 630 1180	(511) 630 1180	pronostico@corpac.gob.pe

STATE	Name	ICAO Loc. Indicator	AFTN	Telephone (24 hours)	Fax (24 hours)	E-mail
NOF	Lima-Callao	SPIM	SPIMYNYX SPIMYOYX	(511) 630 1173 (511) 630 1172 (511) 414 1435 (511) 414 1288	(511) 414 1435	aisaro@corpac.gob.pe
SURINAME						
FIR PARAMARIBO						
ACC	Paramaribo	SMPM	SMPMZRZX	(597) 325 203	(597) 325 453	atssur@sr.net
MWO	Zandery	SMJP	SMZZMAMX	(597) 325 206	(597) 325 206	meteozan@yahoo.com
NOF	Zandery	SMJP	SMJPYFYX	(597) 325 270	(597) 325 270	aislvd@surimail.sr
TRINIDAD AND TABAGO						
FIR PIARCO						
ACC	Porto f Spain	TTZP	TTZPZQZX	(1 868) 669 4852	(1 868) 6694 259	
MWO	Port of Spain	TTPP	TTPPYMYX	(1 868) 669 4392	(1 868) 6694 727	
NOF	Port of Spain	TTPP	TTPPYNYX	(1 868) 669 4128 (1 868) 625 9843	(1 868) 6691 716	
UNITED STATES						
FIR SAN JUAN						
ACC	San Juan	TJZS	TJZSZQZX	(787) 2538665	(787) 253 8685	NA
MWO[2]	Kansas City AWC	KWBC	KWBCYMYX	816 584 7269		
NOF	San Juan		TJZSYNYX	(305) 233 2600		
FIR NASSAU (LOWER AIR SPACE) AND MIAMI OCEANIC (UPPER AIR SPACE)						
ACC	Nassau	MYNA	MYNAZQZX	(242) 377 7108	(242) 377 2375	NA
ACC	Miami	KZMA	KZMAZQZX	(305) 716 1588	(305) 716 1511	NA
MWO[2]	Kansas City AWC	KWBC	KWBCYMYX	816 584 7269		
NOF	Nassau		MYNAYNYX	(242) 377 7116		
VENEZUELA						
FIR MAIQUETIA						
ACC	Maiquetía	SVZM	SVZMZQZX	(58212) 355 - 2216	(58212) 355 2216	acc@inac.gob.ve
MWO	Maiquetía	SVMI	SVMIYMYX	(58212) 303 - 1522	(58212) 303 1522	oficinamet-miq@yahoo.es
NOF	Maiquetía	SVMI	SVMIYNYX	(58212) 355 - 1325	(58212) 355 1325	nofmaiquetia@inac.gob.ve notam.maiquetia@inac.gob.ve

[1] MWO Tegucigalpa should coordinate the preparation of SIGMET(s) (WS, WV y WC) with the Aerodrome Meteorological Offices of all the Central American States and Belize and send them to the corresponding Aerodrome Meteorological Office.

[2] In accordance with CAR/SAM FASID Table MET 1B (page 1B-5).

Agenda Item 5: Exchange of OPMET information

5.1 The Meeting initiated the discussions on this agenda item reviewing the analysis of the results of the OPMET exchange controls carried out between 10 to 16 June 2008 and 2009 in the States of the CAR/SAM Regions participating in the control and those of which information was received.

5.2 The Meeting agreed that the following actions should be taken to improve OPMET exchange:

a) change the name of the "coordinate controls of OPMET exchange for the CAR/SAM Regions" to "COM/MET coordinate controls of OPMET exchange for the CAR/SAM Regions";

b) modify the format of OPMET exchange controls, in the sense of having one format for METAR and TAF exchange controls and another for SPECI, SIGMET and special air reports reception, including in those of SIGMET the location indicators of the ATS units providing services to the FIR, UIR and SRR;

c) include in the formats for the coordinate OPMET control, the name of the person responsible for the OPMET exchange, as well as the respective electronic mail.

5.3 In this regard, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/09 FORMAT FOR OPMET INFORMATION EXCHANGE CONTROLS

That, in order to improve the OPMET exchange:

a) the name of "coordinate controls of OPMET exchange for the CAR/SAM Regions" be changed to "COM/MET coordinated controls of OPMET exchange for the CAR/SAM Regions"; and

b) the format for the controls of OPMET exchange be modified, in the sense of having one format for METAR and TAF exchange controls and SPECI reception on the basis of CAR/SAM FASID Table MET 2B, and another for the reception SIGMET and special air-reports, on the basis of Appendix I to the *Guide for the preparation, dissemination and use of SIGMET information in the CAR/SAM Regions*, including in the latter the ATS unit location indicators providing services to the FIR, UIR and SRR.

Note. – The Secretariat will prepare the format that should be used starting the next control.

5.4 The Meeting took note that in a State of the CAR Region, the aeronautical meteorological service provider has implemented a certified quality system, through which are carried out periodic controls of the whole activity, but mainly to the control of the dissemination of the OPMET information.

The communications system developed, includes templates for the preparation of METAR/SPECI and SIGMET that do not allow the preparation of messages with errors and of course avoid their emissions. In spite of that, in some occasions communications have been received from air carriers, including IATA, mentioning that certain OPMET information has not been available for their operations.

5.5 In view of this situation, verifications were made detecting that the OPMET information that was reported missing by some airlines' operators had been sent, and was also available for its dissemination in the ISCS.

5.6 Similar situation happened with the control carried out by the Brasilia OPMET Databank, where the information does not coincide with the output controls of that information carried out by communications and networks specialists, where the analysis is carried out until the confirmation that the information came out of the State.

5.7 In this regard, the Meeting considered, once again, that the deficiencies observed in the availability of OPMET information are not only linked to the meteorological side and its procedures, but rather to the part of communications and/or automated systems.

5.8 Taking into consideration the above mentioned, the Subgroup considered necessary the establishment of a COM/MET Task Force conformed by specialists from meteorology and communications fields, who in the light of the new developments, analyze the problems of the OPMET information exchange. In addition, a study to determine if it is necessary to continue with the OPMET controls carried out by the States should be developed.

OPMET Information of CAR/SAM States available in the SADIS

5.9 The Subgroup recalled that the SADIS Operations Group (SADISOPSG) examines during its meetings the OPMET requirements for their dissemination in the Satellite Distribution System – SADIS, and that the variability in the reception of OPMET information is dealt upon by the referred group focusing on Annex 1 requirements. To ease the task, the SADISOPSG uses the results from an annual study on availability of OPMET data at AOP and non-AOP aerodromes. During the global monitoring carried out by IATA on 11 April 2008, the group identified the aerodromes not regularly sending information to SADIS. **Appendix A** to this part of the report presents the aerodromes of the CAR/SAM Regions that were identified in the above mentioned study.

5.10 The Meeting noted that the results of a study carried out by IATA indicated that some residual differences in the availability of OPMET data between the ISCS and SADIS broadcasts still persist. In view of the importance for IATA and other aviation users of the completion of the full harmonization of the OPMET data content in the two broadcasts, the group formulated Conclusion 14/12, requesting ISCS and SADIS Provider States to complete their efforts for the referred harmonization.

CAR/SAM Guide for OPMET exchange

5.11 Following GREPECAS Conclusion 13/28, the Meeting examined and approved the CAR/SAM Guide for OPMET Exchange and formulated the following draft conclusion:

DRAFT
CONCLUSION 10/10 CAR/SAM GUIDE FOR OPMET EXCHANGE

That in order to enable the application of ICAO procedures for OPMET information exchange, the States use the CAR/SAM Guide for OPMET Exchange included in **Appendix B** to this part of the report.

Follow-up to the implementation of communications systems in the CAR/SAM Regions for the exchange of OPMET information

5.12 The Meeting took note that currently several States/Territories of the CAR/SAM Regions have AMHS systems installed, that others are in the installation process, and that it is expected that for 2012 every State/Territory of the SAM Region will have AMHS systems and agreed that with the implementation of AMHS systems, the States should consider the implementation of PC terminals in the meteorological units with international OPMET requirements that still do not count with them, in order to continue to comply with GREPECAS Conclusion 6/33. In this respect, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/11 INSTALLATION OF AMHS USER TERMINALS IN METEOROLOGICAL UNITS WITH INTERNATIONAL OPMET REQUIREMENT

That the corresponding States, when implementing the new AMHS system in substitution of the current AFTN system, take into consideration the installation of AMHS user terminals in the MET units of the States that have international OPMET requirements, in order to increase the availability of OPMET information and to comply with GREPECAS Conclusion 6/33.

5.13 The Meeting also noted that the new formats foreseen for the transmission of OPMET information and the dissemination of graphical SIGMETs will be facilitated with the implementation of the AMHS systems. In this regard, States having AMHS systems installed could evaluate the transmission of this type of SIGMETs as part of the trials to interconnect AMHS system.

5.14 In order to identify deficiencies related with the availability of the information in the Brasilia OPMET Databank, the Meeting took note of the comparative study of OPMET messages availability carried out by the Brasilia OPMET Databank during the periods included in the **Appendix C**.

5.15 **Appendix D** presents a table showing a comparative study of METAR availability.

5.16 **Appendix E** presents graphs showing a comparative study of the METAR availability.

5.17 **Appendix F** presents a table showing a comparative study of TAF availability.

5.18 Even though the OPMET data controls carried out in recent years showed delayed and missed weather messages in the Brasilia International OPMET Data Bank and in meteorological offices,

the reasons for these delayed and missed messages can not be related for sure to problems with the message flow through the AFTN Network among the States.

5.19 The Meeting agreed with the proposal of IFALPA to invite the pilots associated with this federation to comply with the reporting of ATS/MET mandatory points and with the air-reports in general, as well as with the need to reinforce the non-punitive culture in this type of reports, for the benefit of flight safety.

Extract of Appendix E to SADISOPSG/13 Report

SAM Region: Missing SA/SP for AOP aerodromes

ICAO Location indicator	Name of the aerodrome	State
SAAR	ROSARIO/ISLAS MALVINAS	Argentina
SADF	SAN FERNANDO INTL	Argentina
SAZM	MAR DEL PLATA	Argentina
SAZN	NEUQUEN/PRESIDENTE PERON	Argentina
SAZS	SAN CARLOS DE BARILOCHE	Argentina
SURV	RIVERA	Uruguay
SUSO	SALTO/INTL	Uruguay

SAM Region: Missing FT for AOP aerodromes

ICAO Location indicator	Name of the aerodrome	State
SAZS	SAN CARLOS DE BARILOCHE	Argentina
SVJC	PARAGUANA	Venezuela

SAM Region: Missing SA/SP for non-AOP aerodromes

ICAO Location indicator	Name of the aerodrome	State
SVCU	CUMANA	Venezuela
SVFM	CARACAS/B.A. GEN F, DE MIRANDA	Venezuela
SVPA	PUERTO AYACUCHO	Venezuela
SVTM	TUMEREMO	Venezuela
SVVP	VALLE DE LA PASCUA	Venezuela

SAM Region: Missing FT for non-AOP aerodromes

ICAO Location indicator	Name of the aerodrome	State
SLET	SANTA CRUZ/ EL TROMPILLO	Bolivia
SLPS	SALVADOR OGAYA G. INTL	Bolivia
SLSU	SUCRE/J AZURDUY DE PADILLA	Bolivia
SPCL	PUCALLPA INTL	Peru
SPJL	JULIACA/INTL INCA MANCO CAPAC	Peru

SVAC	ACARIGUA	Venezuela
SVBI	BARINAS	Venezuela
SVBM	BARQUISIMETO	Venezuela
SVCB	CIUDAD BOLIVAR	Venezuela
SVCL	CALABOZO	Venezuela
SVCR	CORO	Venezuela
SVGI	GUIRIA ALMIRANTE/C. COLON	Venezuela
SVGU	GUANARE	Venezuela
SVJM	SAN JUAN DE LOS MORROS	Venezuela
SVMD	MERIDA	Venezuela
SVMT	MATURIN	Venezuela
SVPA	PUERTO AYACUCHO	Venezuela
SVSO	SANTO DOMINGO	Venezuela
SVSR	SAN FERNANDO DE APURE	Venezuela
SVTM	TUMEREMO	Venezuela
SVVP	VALLE DE LA PASCUA	Venezuela

GUIDE

FOR THE ISSUANCE AND USE

OF OPMET INFORMATION

IN THE CAR/SAM REGIONS

INTERNATIONAL CIVIL AVIATION ORGANIZATION

SOUTH AMERICAN OFFICE

GUIDE

FOR THE ISSUANCE AND USE

OF OPMET INFORMATION

IN THE CAR/SAM REGIONS

FIRST EDITION

NOVEMBER 2009

INTERNATIONAL CIVIL AVIATION ORGANIZATION

SOUTH AMERICAN OFFICE

GUIDE

FOR THE ISSUANCE AND USE

OF OPMET INFORMATION

IN THE CAR/SAM REGIONS

FIRST EDITION

(NOVEMBER 2009)

RECORD OF AMENDMENTS AND CORRIGENDA

Amendment				Corrigenda			
No.	Detail	Entered by	Date	No.	Date applicable	Entered by	Date
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			
11				11			
12				12			
13				13			
14				14			
15				15			
16				16			
17				17			
18				18			
19				19			
20				20			
21				21			
22				22			
23				23			
24				24			
25				25			
26				26			
27				27			
28				28			
29				29			
30				30			
31				31			
32				32			
33				33			
34				34			
35				35			
36				36			
37				37			

GUIDE FOR THE ISSUANCE AND USE OF OPMET INFORMATION IN THE CAR/SAM REGIONS

TABLE OF CONTENTS

Page

APPENDICES

Glossary of Abbreviations

ACC	Area Control Centre
AFS	Aeronautical fixed service
AFTN	Aeronautical fixed telecommunications network
AIREP	Air-report
AMD	Amended (for TAF)
AMHS	ATS Message Handling System
AMO	Aerodrome meteorological office
ANP	Air Navigation Plans
AOP	Aerodrome Operations
GREPECAS	CAR/SAM Regional Planning and Implementation Group
ARS	Special Air-report indicator
ATS	Air traffic services
BUFR	Binary Universal Formats to Represent
COM	Communications
CTA	Control area
FASID	Facilities and services implementaron document
FIR	Flight information region
HF	High frequencies
ICD	Interface control document
ISCS	International satellite communication system
MWO	Meteorological watch office
OPMET	Operational meteorological
PIRG	Planning and implementation regional group
RODB	Regional OPMET databank
SADIS	Satellite distribution systems
TC	Tropical cyclone
TCA	Tropical cyclone advisory
TCAC	Tropical cyclone advisory centre
VA	Volcanic ash
VAA	Volcanic ash advisory
VAAC	Volcanic ash advisory centre
WAFC	World area forecast centre
WMO	World Meteorological Organization

PART 1 INTRODUCTION

1.1 General

1.1.1 The main objective of this document is to provide guidelines for the standardization and harmonization of the procedures related with the preparation and issuance of meteorological information for operations (OPMET) in CAR/SAM States. The OPMET Guide complements the standards and recommended practices of *Annex 3 – Meteorological Service for International Air Navigation, Parts I and II of the CAR/SAM Air Navigation Plan – ANP Volume I, Basic and Volume II, FASID, Doc 8733, Part VI – Meteorology (MET),* related with OPMET information, in order to comply with the requirements of the users of this information.

1.1.2 The above mentioned objective will be reached with the implementation of the procedures established by ICAO and the effective functionality of the communications circuits of the AFTN Network in the CAR/SAM Regions.

1.1.3 This Guide will assist CAR/SAM States in the exchange of OPMET information based on the operational requirements of the States of these two regions, on a national and global basis, the latter through the Brasilia International OPMET databank and the satellite service for the dissemination of information prepared by the world area forecast system (SADIS and ISCS).

1.1.4 The material that regulates the exchange of OPMET information is contained in the following ICAO documents:

- *Annex 3 –Meteorological Service for International Air Navigation,* Part I, 7.1 and Part II, Appendix 6, 1;
- *ANP CAR/SAM Basic:* Part I – Basic Operational Requirements and Planning Criteria (BORPC), paragraph 8.5.2; and Part VI – MET, paragraph 39;
- *ANP CAR/SAM FASID:* Part VI – MET, paragraphs 3 and 5, Tables MET 1A, MET 2A and MET 2B.

1.1.5 This document has been prepared by the ICAO SAM Regional Office, in compliance with GREPECAS Conclusion 13/28, taking into consideration the sixteenth edition of Annex 3, published in July 2007, which includes amendment 74 to the referred Annex, the CAR/SAM ANP, Volume I, Basic and the amendment to CAR/SAM ANP, Volume II, FASID, approved on 14 July 2009.

1.1.6 Taking into consideration that problems have been identified for MET units in several CAR/SAM States to have all ICAO documentation available, and /or the corresponding amendments, information or tables have been extracted from the relevant ICAO documents to facilitate consultations for OPMET information exchange, with the commitment that this Guide will be regularly revised and updated in order to align it with the relevant ICAO documents and with the regional procedures and requirements.

1.2 Communications

1.2.1 The exchange of OPMET information (METAR, SPECI, TAF, SIGMET and AU) is made through the AFTN network of the Aeronautical Fixed Service (AFS), in accordance with List No. 6 – *AFTN Routing Directory for CAR and SAM Regions.* The rationalized AFTN plan for CAR/SAM Regions (Chart CNS 1 of FASID CAR/SAM) includes the chart with the current AFTN scheme of these two regions, which is reproduced in this Guide as **Appendices A**.

PART 2 OPMET INFORMATION

2.1 OPMET information requirements (METAR, SPECI and TAF)

2.1.1 The global requirements for OPMET information (METAR, SPECI and TAF) are contained in the global database of CAR/SAM FASID Table MET 2A, reproduced as **Appendix B** to this Guide, and the exchange requirements between the CAR/SAM Regions are contained in FASID Table MET 2B, reproduced as **Appendix C**.

2.1.2 **Appendix D** presents a table with the AFTN addresses to which METAR, SPECI and TAF shall be disseminated based on the requirements of CAR/SAM FASID Tables MET 2A and MET 2B.

2.2 Routine and special reports prepared and issued by aeronautical meteorological stations

2.2.1 Reports of routine and special observations shall be made at every aeronautical meteorological station of the aerodromes included in CAR/SAM FASID Tables MET 1A and MET 2B and, as necessary, issued as:

a) local routine reports (**MET REPORT**), only for dissemination at the aerodrome of origin;

b) hourly routine reports (**METAR**), for dissemination to other aerodromes beyond the aerodrome of origin; at aerodromes that are not operational throughout 24 hours METAR shall be issued at least one hour prior to the aerodrome resuming operations;

c) local special reports (**SPECIAL**), only for dissemination at the aerodrome of origin;

d) special reports (**SPECI**), for dissemination to other aerodromes beyond the aerodrome of origin.

2.3 Forecasts prepared and issued by aeronautical meteorological stations

2.3.1 The following forecasts shall be prepared and issued at every meteorological office of the aerodromes included in CAR/SAM FASID Tables MET 1A and MET 2A:

a) aerodrome forecasts (TAF) with a period of duration of 24 hours and at intervals of six hours (00, 06, 12, 18 UTC), which shall include maximum and minimum forecasted temperatures together with their time of occurrence and shall be issued approximately two hours prior to the beginning of the period of validity;

b) as required, amended aerodrome forecasts (TAF AMD);

c) as required, corrections to aerodrome forecasts (TAF COR); and

d) trend forecasts, based on the requirements of CAR/SAM FASID Table MET 1A**.**

*Note. – CAR/SAM FASID Table MET 1A.reproduced as **Appendix E** presents in column 6 requirements of aerodromes that shall include trend forecast in **METAR***

e) as agreed with the operator involved, aerodrome forecasts for take-off; and

f) as agreed with the operator involved, amendment to aerodrome forecasts for take-off.

2.4 Responsibilities of MET authorities

2.4.1 The responsibility of MET authorities with regard to OPMET information (METAR, SPECI and TAF), besides those established in ICAO procedures, is to propose amendments to the following CAR/SAM FASID MET Tables, in accordance with the operational requirements and amendments to CAR/SAM FASID Table AOP:

- Table MET 1A – Meteorological service required at aerodromes;
- Table MET 2A –OPMET information (METAR, SPECI and TAF) required in ISCS and SADIS; and
- Table MET 2B – Regional exchange of operational meteorological information within the CAR/SAM regions.

PART 3 DISSEMINATION OF OPMET INFORMATION

3.1 Dissemination of OPMET information through the AFTN

3.1.1 OPMET information in alphanumeric form is transmitted on the AFTN (and on most other networks) in the form of "bulletins", each bulletin containing one or more METAR, TAF or other types of information (but always only one type per bulletin), besides the appropriate bulletin heading. The heading is essential to permit recognition by users and handlers, including computers, of time and origin of the information contained in the bulletin. It should not be confused with the "AFTN message heading" which determines priority, routing and other telecommunication aspects of the message. All meteorological bulletins transmitted via the AFTN have to be "encapsulated" into the text part of the AFTN message format.

3.1.2 The meteorological bulletin abbreviated heading consists of a single line, precedes the OPMET information contained in the bulletin, and normally comprises three groups as follows:

a) an identifier;
b) and ICAO location indicator;
c) a date-time group; and
d) if required, a fourth group can be added as an identifier for a delayed, corrected or amended bulletin.

3.2 Heading of OPMET Information

3.2.1 In accordance with the standardized AFTN procedures (Annex 10, Volume II), the start-of-message signal "**ZCZC**" shall always be included.

3.2.2 In the second line, the message Priority Indicator "**GG**" or "**FF**" shall be included, followed by the AFTN addressees of the national and international message, the latter, based on CAR/SAM FASID Tables MET 2B.

3.2.3 In the following line, the date of the month and the time of issuance of OPMET information, followed by the AFTN address of the station or centre that prepared the OPMET information shall be included.

Example
ZCZC **GG SBBRYZYX** **142200 SPZZMAMX**
Message to be circulated through the AFTN with priority GG sent to the Brasilia International OPMET databank (AFTN: SBBRYZYX) transmitted the day 14 at 2200 UTC by the meteorological office of Lima (AFTN: SPZZMAMX)

3.2.4 The following line corresponds to the abbreviated heading of the bulletin, which as mentioned before, consists of the following groups:

$T_1T_2A_1A_2$ii CCCC YYGGgg [AAx]/[CCx]/[RRx]

3.2.5 The group **$T_1T_2A_1A_2$ii** is the identifier of the bulletin for OPMET Information, constructed as follows:

$T_1T_2A_1A_2$ii			
T_1T_2	Message type designator	SA	METAR including trend forecasts based on Table MET 1A (issued by the AMS)
		SP	SPECI including trend forecast based on Table MET 1A (issued by the AMS)
		FT	TAF valid for 12 hours or more (issued by AMO)
		FC	TAF valid for less than 12 hours (issued by AMO)
		WA	AIRMET Information (no requirements for CAR/SAM Regions)
		WS	SIGMET Information (issued by MWO)
		WV	SIGMET Information for volcanic ash (issued by MWO)
		WC	SIGMET Information for tropical cyclones (issued by MWO)
		FK	Tropical cyclone advisory MESSAGE (issued by TCAC Miami)
		FV	Volcanic ash advisory message (issued by VAAC Buenos Aires and Washington)
		UA	Air-reports (AIREP)
		FA	GAMET Forecasts (no requirements for CAR/SAM Regions)
A_1A_2	State or Territory designator	Assigned in accordance with Table C1, Part II of Manual on the Global Telecommunication System, Vol. I – Global Aspects (WMO – No. 386)	
ii	According to paragraph 2.3.2.2, Part II of Manual on the Global Telecommunication System, Vol. I – Global Aspects (WMO – No. 386), used to indicate if the message is distributed on a global, interregional, regional or national basis.		

CCCC is the ICAO location indicator of the office originating the message

YYGGgg	
YY	**YYGGgg** corresponds to the date/time group of preparation of the message, where YY is the day and GGgg the hour (GG) and minutes (gg) UTC.
GGgg	- for aerodrome reports and selected special reports, the time of observation in UTC; - for aerodrome, en-route and area forecasts, the complete time in UTC (the last two numbers are always 00) which precedes the time of transmission; for other forecasts, the normal time of observation in UTC in which the forecast is based; - for other meteorological bulletins, such as SIGMET information, the time of origin of the text of the report in UTC.

[AAx]/[CCx]/[RRx]	
AAx	Shall be used only when sending an amendment an OPMET information, which has already been transmitted; the third letter "x" takes the value A for the first amendment, B for the second amendment, etc.
CCx	Shall be used only when sending a correction to an OPMET information, which has already been transmitted; the third letter "x" takes the value A for the first correction, B for the second correction, etc.
RRx	Shall be used only when sending a delayed OPMET information; the third letter "x" takes the value A for the first delayed OPMET information, B for the second delayed OPMET information, etc.

Example
ZCZC GG SBBRYZYX 142200 SGZZMAMX **FTPR01 SPIM 271400**
Message to be circulated through the AFTN with priority GG sent to the Brasilia International OPMET databank (AFTN: SBBRYZYX) transmitted the day 27 at 1400 UTC by the meteorological office of Lima (AFTN: SPZZMAMX) **TAF from Peru valid 24 hours issued by the AMO of Lima the day 27 at 1400 UTC**

3.2.6 Afterwards, and as an AFTN standardized procedure (Annex 10, Volume II), to indicate the ending of the message the following shall be inserted:

- at the end of the text, the equal sign "=" to indicate the end of OPMET information; and
- in a separate line to indicate the end of the message, the end of message signal represented by letters **NNNN** , shall be included.

Example
ZCZC GG SBBRYZYX 142200 SGZZMAMX FTPR01 SPIM 271400 **TAF SPIM 271531Z 2718/2818 29008KT 6000 OVC007 TX20/2719Z TN17/2811Z BECMG 2723/2801 26005KT 4000 BR SCT004 OVC007 PROB40 2801/2804 27003KT 1200 BR OVC002 BECMG 2806/2808 VRB02KT 3500 BR SCT003 OVC004 PROB30 2810/2813 00000KT 0800 FG OVC002 BECMG 2814/2816 24008KT 5000 BR OVC007=** **NNNN**
Message to be circulated through the AFTN with priority GG sent to the Brasilia International OPMET databank (AFTN: SBBRYZYX) transmitted the day 27 at 1400 UTC by the meteorological office of Lima (AFTN: SPZZMAMX) **TAF from Peru valid 24 hours issued by the AMO of Lima the day 27 at 1400 UTC***

***** The TAF decoding is shown hereunder highlighting the changes originated by Amendment 74 to Annex 3:

FTPR01 SPIM 271600
TAF SPIM 271531Z 2718/2818 29008KT 6000 OVC007 TX20/2719Z TN17/2811Z BECMG 2723/2801 26005KT 4000 BR SCT004 OVC007 PROB40 2801/2804 27003KT 1200 BR OVC002 BECMG 2806/2808 VRB02KT 3500 BR SCT003 OVC004 PROB30 2810/2813 00000KT 0800 FG OVC002 BECMG 2814/2816 24008KT 5000 BR OVC007=

FTPR01	Message heading
SPIM	Communications centre Lima-Peru
271600	Day and hour UTC of the message transmission, day 27 at 1600 UTC
TAF	Aerodrome forecast in TAF code
SPIM	South America, Peru, Lima Airport
271531Z	Day and hour of TAF preparation, day 27 at 1531 UTC
2718/2818	Period of Validity, from 18 UTC of day 27 until 18 UTC of day 28
29008KT	Wind forecast 290º 08 knots
6000	Forecast of horizontal visibility, 6000 meters
OVC007	Cloud forecast, overcast sky 8/8 at an altitude of 700 feet or 210 meters

TX20/2719Z	Maximum temperature forecast of the period considered (validity), 20ºC at 19 UTC of day 27
TN17/2811Z	Minimum temperature forecast of the period considered (validity), 17ºC at 11 UTC of day 28
BECMG	Becoming
2723/2801	Day 27 from 23 UTC until day 28 at 01 ITC
26005KT	Wind forecast 260º Speed 5 knots
4000	Visibility forecast 4000 meters
BR	Weather phenomenon forecast, Fog
SCT004	Cloud forecast, overcast sky 8/8 at an altitude of 700 feet or 210 meters
OVC007	Cloud forecast, overcast sky 8/8 at an altitude of 700 feet or 210 meters
PROB40	Probability of occurrence of 40 %
2801/2804	Between 01 and 04 UTC of day 28
27003KT	Wind forecast, 270º speed 3 knots
1200	Horizontal visibility forecast, 1200 meters
BR	Weather phenomenon forecast, Fog
OVC002	Cloud forecast, overcast sky 8/8 at an altitude of 200 feet or 60 meters
BECMG	Becoming
2806/2808	From 06 to 08 UTC of day 28
VRB02KT	Wind forecast, variable direction, speed 2 knots
3500	Horizontal visibility forecast, 3500 meters
BR	Weather phenomenon forecast, Fog
SCT003	Cloud forecast, broken cloud at an altitude of 300 feet or 90 meters
OVC004	Cloud forecast, overcast sky 8/8 at an altitude of 400 feet or 120 meters
PROB30	Probability of occurrence of 30 %
2810/2813	Between 10 and 13 UTC of day 28
00000KT	Wind forecast, Calm
0800	Horizontal visibility forecast, 800 meters
FG	Weather phenomenon forecast, Fog
OVC002	Cloud forecast, overcast sky 8/8 at an altitude of 700 feet or 210 meters
BECMG	Becoming
2814/2816	From 14 to 16 UTC of day 28
24008KT	Wind forecast, 240º speed 8 knots
5000	Horizontal visibility forecast, 5000 meters
BR	Weather phenomenon forecast, Fog
OVC007=	Cloud forecast, overcast sky 8/8 at an altitude of 700 feet or 210 meters

3.2.7 Messages containing meteorological information should be filed promptly for transmission on the AFTN in good time. METAR and SPECI are normally filed within five minutes of the time of the observation, and TAF at least two hours before the commencement of their validity, in accordance with CAR/SAM ANP Basic, paragraph 8.

3.2.8 The time interval between the time of filing to the time of receipt of a message is called the “transit” time. Messages containing OPMET information transmitted on the AFTN should normally have transit times of less than five minutes, except for METAR, SPECI and TAF exchanged over distances exceeding 900 km which may have transit times of up to ten minutes.

3.3 Dissemination of OPMET information on ICAO AFS satellite broadcasts

3.3.1 WAFS forecasts are disseminated through three ICAO AFS satellite broadcasts, directly from WAFCs to the meteorological offices. A global set of OPMET information is also included in these satellite broadcasts.

3.4 Dissemination of OPMET information on the Internet

3.4.1 The Internet has become increasingly reliable for the dissemination of information over recent years. Use has been made of the Internet by some States for the dissemination of OPMET information. Care is needed to ensure that security and the reliability of the information are considered when using such a system that is open to the public.

3.4.2 The COM/MET/09 Meeting, Lima, Peru, August, 2009 agreed, inter alia, that to improve the OPMET exchange a list of websites of States' aviation weather services should be included in the OPMET Guide, which is included as **Appendix F**.

3.5 International OPMET Databanks

3.5.1 OPMET information can also be obtained by interrogation of the Brasilia and Washington international OPMET databanks, by means of a standardized message which triggers the automatic retrieval of the requested information and its immediate transmission to the originator. Except in special cases, the information given to the user is always the most recent available.

3.5.2 In order to be accepted by the databanks, the interrogation message must be in agreement with the established principles. In order to guide aeronautical meteorological services of the CAR and SAM Regions on the procedures to transmit and receive OPMET information to and from the Brasilia International OPMET Databank, the ICAO South American Regional Office (SAM) has prepared and published the Catalogue of OPMET data available at the OPMET databank, which is under review and update for the publication of its Third Edition.

PART 4 EXCHANGE OF OPMET INFORMATION (METAR, SPECI and TAF)

4.1 Exchange of OPMET information OPMET (METAR, SPECI and TAF) on a national basis

4.1.1 On a national basis, the aeronautical meteorological services should take measures to transmit OPMET information to every aerodrome meteorological office that so require to be used in briefings and, as necessary, for its inclusion in flight documentation. In addition, coordination with air traffic services and aeronautical information services should be made in order to include in the distribution list, on a national basis, all the recipients deemed necessary to comply with the task of providing safety to air operations.

4.1.2 The aeronautical information required by ATS units and provided by their associated meteorological offices includes nearly all types of aeronautical meteorological information. **Appendix G** presents an extract of Table 3-1 – *Aeronautical meteorological information supplied to ATS units of* Doc 9377 – *Manual on coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological services*, including a summary of the types of information most frequently supplied to ATS units and to air-ground control radio stations (if established to serve associated FICs/ACCs), the meteorological units responsible for providing the information, the frequency with which it is usually provided and the communications means normally used for this purpose.

4.1.3 In view of the importance of the meteorological information supplied to ATS units for the safety and efficiency of aviation, it is essential that the information be always up to date, accurate and provided in a timely manner. Of particular importance in this connection is information on significant changes in the meteorological conditions. Such changes include not only changes requiring the issuance of SPECI but may also include, as agreed, changes in wind, temperatures, pressure and other elements that may require ATS units to take action (e.g. change of runway-in-use).

4.1.4 These coordinations shall be in accordance with Chapter 10 – *Information for air traffic services, search and rescue services and aeronautical information services* of Annex 3 and with the *Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services* Doc 9377 AN/915.

4.1.5 OPMET information shall be transmitted to every aerodrome meteorological office in order to be provided to aircraft prior to departure and to all en-route aircraft. In case of non-stop flights with extremely long routes, OPMET information shall be provided at the departure aerodrome for the whole of the route foreseen.

4.2 Exchange of OPMET information (METAR, SPECI and TAF) on a regional basis

4.2.1 The exchange of OPMET information on a regional basis should be strictly based on CAR/SAM FASID Table MET 2B.

4.2.2 The global exchange of OPMET information should be strictly based on CAR/SAM FASID Table MET 2A

4.3 OPMET exchange controls (METAR, SPECI and TAF)

4.3.1 In compliance with the procedures established in SAM implementation meetings, OPMET exchange controls have been carried out in this Region since 1986 and starting 1996, in compliance with GREPECAS Conclusions, the controls are carried out in the CAR/SAM Regions.

4.3.2 In accordance with GREPECAS Conclusion 12/64, OPMET exchange controls should be carried out annually from 10 to 16 June, until the achievement of an optimum percentage. **Appendix H** includes the format approved by GREPECAS to carry out these controls.

4.3.3 In addition, the Brasilia International OPMET databank carries out four controls of the OPMET information received at the bank, in compliance with GREPECAS Conclusion 5/28.

PART 5 INTERNATIONAL OPMET DATABANKS

5.1 In accordance with paragraph 23 of CAR/SAM ANP Basic, Part VI, Meteorology (MET), *"the International OPMET databanks in Brasilia and Washington have been designated to serve States in the CAR/SAM Regions to access OPMET information"*.

5.2 The Catalogue of OPMET data available in the Brasilia International OPMET databank was prepared and published by the ICAO South American (SAM) Regional Office, in compliance with Recommendation 5/10 – "Catalogue of OPMET information in the CAR/SAM International OPMET databanks" formulated by the Regional COM/MET Air Navigation Limited Meeting, (Montreal 1-14 November 2983).

5.3 The objective of this catalogue is to provide guidance to aeronautical meteorological services of the SAM Region and neighboring Regions on the procedures to sent and receive OPMET information from the referred bank. The Fourth Edition of this catalogue was published in November 2009.

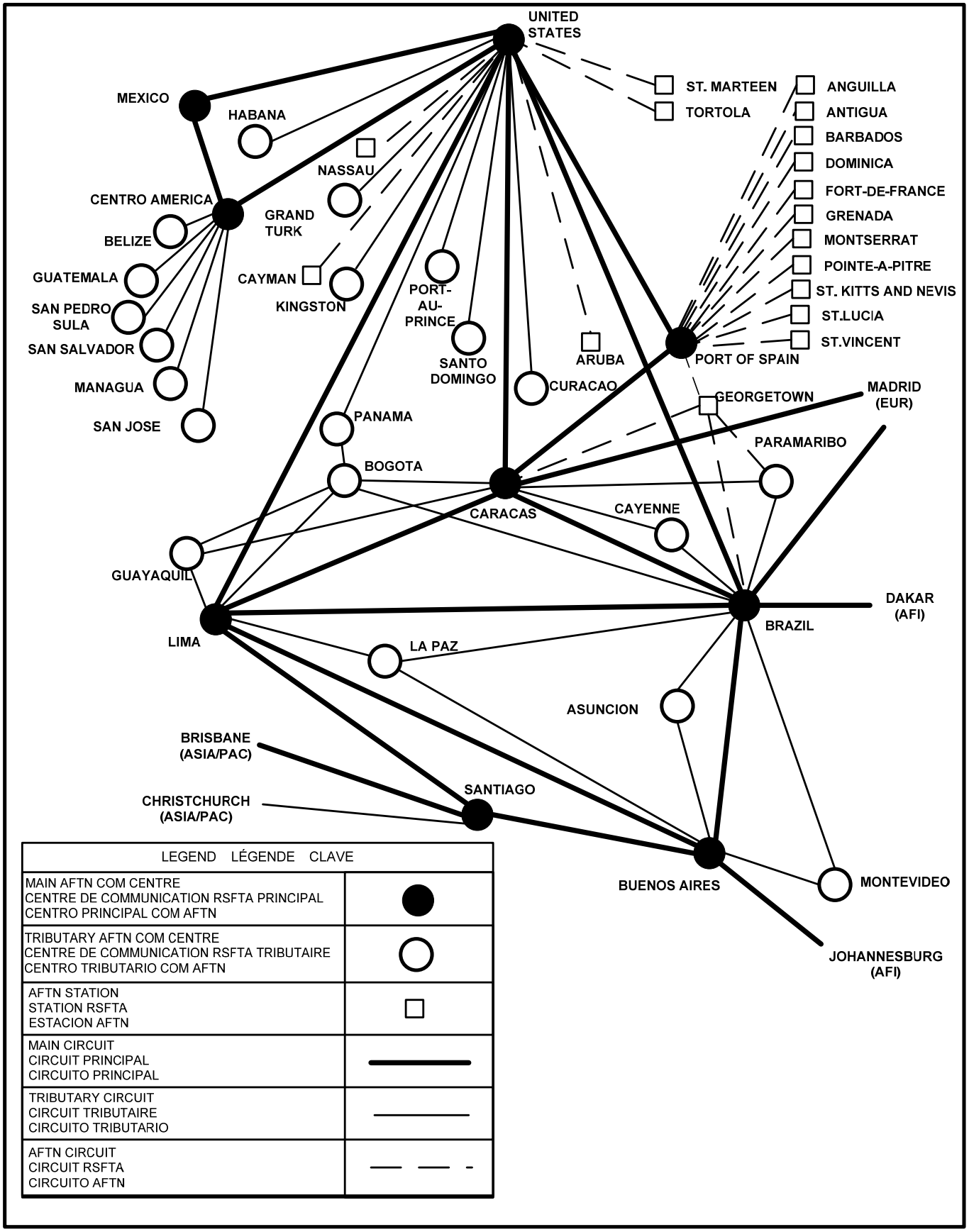
5.4 The response time for the requests sent to the databanks should be less than 15 minutes. AFTN messages containing requests for the databanks and responses from same should achieve transit times of less than five minutes.

5.5 The "Catalogue of international OPMET data available in the Brasilia data bank" and the "Catalogue of international OPMET data available in the Washington, D. C. databank", published by ICAO SAM and NACC Regional Offices, respectively, contain the list of OPMET information available in the international OPMET databanks designated to provide service to the CAR/SAM Regions, as well as the procedures that should be applied to request OPMET information to such databanks.

RATIONALIZED AFTN PLAN FOR CAR/SAM REGIONS
PLAN DU RSFTA RATIONALISÉ POUR LES RÉGIONS CAR/SAM
PLAN RACIONALIZADO AFTN PARA LAS REGIONES CAR/SAM

CAR/SAM FASID

CHART CNS 1



LEGEND LÉGENDE CLAVE	
MAIN AFTN COM CENTRE CENTRE DE COMMUNICATION RSFTA PRINCIPAL CENTRO PRINCIPAL COM AFTN	●
TRIBUTARY AFTN COM CENTRE CENTRE DE COMMUNICATION RSFTA TRIBUTAIRE CENTRO TRIBUTARIO COM AFTN	○
AFTN STATION STATION RSFTA ESTACION AFTN	□
MAIN CIRCUIT CIRCUIT PRINCIPAL CIRCUITO PRINCIPAL	———
TRIBUTARY CIRCUIT CIRCUIT TRIBUTAIRE CIRCUITO TRIBUTARIO	———
AFTN CIRCUIT CIRCUIT RSFTA CIRCUITO AFTN	— — -

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

International Civil Aviation Organization

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
Anguilla (United Kingdom)					
WALLBLAKE,ANGUILLA		TQPF	Y	T	P
Antigua and Barbuda					
V.C.BIRD,ANTIGUA		TAPA	Y	T	F
Argentina					
AEROPARQUE J. NEWBERY, CABA		SABE	Y	T	F
COMODORO RIVADAVIA/GRAL MOSCONI,CHT		SAVC	Y	T	F
CORDOBA/ING. A.L.V. TARAVELLA CBA		SACO	Y	T	F
EZEIZA MINISTRO PISTARINI, BA		SAEZ	Y	T	F
	FORMOSA,F	SARF	Y	T	F
IGUAZU/CATARATAS DEL IGUAZU, MS		SARI	Y	T	F
JUJUY,J.		SASJ	Y	T	F
MAR DEL PLATA,BA		SAZM	Y	T	F
MENDOZA/EL PLUMERILLO,MZA		SAME	Y	T	F
NEUQUEN,N		SAZN	Y	T	F
	POSADAS,MS	SARP	Y	T	F
RESISTENCIA,CHO		SARE	Y	T	F
RIO GALLEGOS/BRIG. GRAL. D.A. PARODI (SC)		SAWG	Y	T	F
ROSARIO,SF		SAAR	Y	T	F
SALTA,S.		SASA	Y	T	F
SAN CARLOS DE BARILOCHE,RN		SAZS	Y	T	F
SAN FERNANDO,BA		SADF	Y	T	F
	TUCUMAN/TEN. BENJAMIN MATIENZO,T	SANT	Y	T	F
USHUAIA/MALVINAS ARGENTINAS (TAIS)		SAWH	Y	T	F
Aruba (Netherlands)					
ORANJESTAD/BEATRIX		TNCA	Y	T	F
Bahamas					
GEORGE TOWN		MYEG	Y	T	F
GOVERNOR'S HARBOUR		MYEM			N
GRAND BAHAMA INTERNATIONAL		MYGF	Y	T	F
MARSH HARBOUR		MYAM			N
NASSAU INTERNATIONAL		MYNN	Y	T	F
NORTH ELEUTHERA		MYEH			N
	ROCK SOUND	MYER	Y	T	F
SAN SALVADOR INTERNATIONAL		MYSM			N
SOUTH BIMINI		MYBS			N
STELLA MARIS		MYLS			N
TREASURE CAY		MYAT			N
Barbados					

International Civil Aviation Organization

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					
	COBIJA	SLCO	Y	T	P
COCHABAMBA		SLCB	Y	T	F
	EL TROMPILLO	SLET	Y	T	P
LA PAZ		SLLP	Y	T	
	PUERTO SUAREZ	SLPS	Y	T	P
	SUCRE	SLSU	Y	T	P
TARIJA		SLTJ	Y	T	P
TRINIDAD		SLTR	Y	T	P
VIRU VIRU		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 IGUACU/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

International Civil Aviation Organization

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**
SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP		SBGR	Y	T	F
TABATINGA/TABATINGA, AM		SBTT	Y	T	P
URUGUAIANA/RUBEM BERTA, RS		SBUG	Y	T	P
British Virgin Islands (United Kingdom)					
TERRANCE B. LETTSOME,TORTOLA		TUPJ	Y	T	P
VIRGIN GORDA,B.V.I		TUPW	Y	T	F
Cayman Islands (United Kingdom)					
GERRARD SMITH INTL/CAYMAN BR		MWCR	Y	T	F
OWEN ROBERTS INTL/GRAND CAYMAN		MWCR	Y	T	F
Chile					
ANTOFAGASTA/AD CERRO MORENO		SCFA	Y	T	P
ARICA/AP CHACALLUTA		SCAR	Y	T	P
	BALMACEDA/AD BALMACEDA	SCBA	Y	T	F
	CALAMA/AD EL LOA	SCCF	Y	T	P
CONCEPCION/AD CARRIEL SUR		SCIE	Y	T	F
	COPIAPO/AD DESIERTO DE ATACAMA	SCAT	Y	T	F
IQUIQUE/AD DIEGO ARACENA		SCDA	Y	T	P
	LA SERENA/AD LA FLORIDA	SCSE	Y	T	P
	OSORNO/AD CANAL BAJO-CARLOS HOTT SIEBERT	SCJO	Y	T	P
	PTO. NATALES/AD TENIENTE JULIO GALLARDO	SCNT	Y	T	F
PUERTO MONTT/AD EL TEPUAL		SCTE	Y	T	F
PUNTA ARENAS/AD PDTE. CARLOS IBANEZ		SCCI	Y	T	F
SANTIAGO/AP ARTURO MERINO B.		SCEL	Y	T	F
	TEMUCO/AD MAQUEHUE	SCTC	Y	T	F
Colombia					
BARRANQUILLA/ATLANTICO		SKBQ	Y	T	F
	BUCARAMANGA/SANTANDER	SKBG	Y	T	F
CALI/VALLE		SKCL	Y	T	F
CARTAGENA/BOLIVAR		SKCG	Y	T	F
CUCUTA/N.S/DER		SKCC	Y	T	P
LETICIA/AMAZONAS		SKLT	Y	T	P
	PEREIRA/RISARALDA	SKPE	Y	T	F
RIONEGRO/ANTIOQUIA		SKRG	Y	T	F
S/FE DE BOGOTA/C/MARCA		SKBO	Y	T	F
SAN ANDRES/ILSA		SKSP	Y	T	P

International Civil Aviation Organization

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

International Civil Aviation Organization

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		TGPZ	Y	T	F
POINT SALINES, GRENADA		TGPY	Y	T	F
Guatemala					
LA AURORA		MGGT	Y	T	F
PUERTO BARRIOS		MGPB	Y	T	F
PUERTO DE SAN JOSE		MGSJ	Y	T	F
	TIKAL	MGTK	Y	T	F
Guyana					
CHEDDI JAGAN INTERNATIONAL		SYCJ	Y	T	F
Haiti					
CAP HAITIEN		MTCH	Y	T	F
PORT-AU-PRINCE/INTL		MTPP	Y	T	F
Honduras					
LA CEIBA/GOLOSON INTL		MHLC	Y	T	F
ROATAN INTL.		MHRO	Y	T	P
SAN PEDRO SULA/LA MESA		MHLM	Y	T	F
TEGUCIGALPA/TONCONTIN		MHTG	Y	T	F
Jamaica					
KINGSTON/NORMAN MANLEY		MKJP	Y	T	F
MONTEGO BAY/SANGSTER		MKJS	Y	T	F
Mexico					
ACAPULCO		MMAA	Y	T	F
AEROPUERTO DEL NORTE		MMAN	Y	T	P
	AGUASCALIENTES	MMAS	Y	T	P
BAHIAS DE HUATULCO		MMBT	Y	T	P
CAMPECHE		MMCP	Y	T	P
CANCUN		MMUN	Y	T	F
CD. JUAREZ		MMCS	Y	T	P
	CD. VICTORIA	MMCV	Y	T	P
CHETUMAL		MMCM	Y	T	P
CHIHUAHUA		MMCU	Y	T	P
CIUDAD ACUNA		MMCC			N

International Civil Aviation Organization

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**
	CIUDAD DEL CARMEN	MMCE	Y	T	P
	CIUDAD OBREGON	MMCN	Y	T	P
	COLIMA	MMIA	Y	T	
COZUMEL		MMCZ	Y	T	F
	CUERNAVACA	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
	LOS MOCHIS	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
	MINATITLAN	MMMT	Y	T	P
MONTERREY		MMMY	Y	T	F
MORELIA		MMMM	Y	T	P
NOGALES		MMNG			N
NUEVO LAREDO		MMNL	Y	T	P
	OAXACA	MMOX	Y	T	P
PIEDRAS NEGRAS		MMPG	Y	T	P
	POZA RICA	MMPA	Y	T	P
	PUEBLA	MMPB	Y	T	P
	PUERTO ESCONDIDO	MMPS	Y	T	P
PUERTO VALLARTA		MMPR	Y	T	F
	QUERETARO	MMQT	Y	T	P
REYNOSA		MMRX	Y	T	P
	SALTILLO	MMIO	Y	T	F
SAN FELIPE		MMSF			N
SAN JOSE DEL CABO		MMSD	Y	T	P
	SAN LUIS POTOSI	MMSP	Y	T	F
TAMPICO		MMTM	Y	T	P
TAPACHULA		MMTP	Y	T	P
	TEPIC	MMEP	Y	T	P
TIJUANA		MMTJ	Y	T	F
TOLUCA		MMTO	Y	T	F
TORREON		MMTC	Y	T	P

International Civil Aviation Organization

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

International Civil Aviation Organization

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

International Civil Aviation Organization

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		SMJP	Y	T	F
NICKERIE/MAJ. FERNANDES		SMNI	Y	T	P
ZORG EN HOOP		SMZO	Y	T	P
Trinidad and Tobago					
CROWN POINT,TOGAGO		TTCP	Y	T	F
PIARCO,TRINIDAD		TTPP	Y	T	F
Turks and Caicos Islands (United Kingdom)					
GRAND TURK		MBGT	Y	T	P
PROVIDENCIALES		MBPV	Y	T	P
SOUTH CAICOS		MBSC	Y	T	P
United Kingdom					
	MOUNT PLEASANT	EGYP	Y	C	F
Uruguay					
COLONIA/INTL "LAGUNA DE LOS PATOS"		SUCA	Y	T	P
	DURAZNO/SANTA BERNARDINA INTL. DE ALTERNATIVA	SUDU	Y	T	F
MALDONADO/ INTL C/C CARLOS A.CURBELO "LAGUNA DEL SAUCE"		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

International Civil Aviation Organization

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

MET **VI-MET 2B-2**

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

FROM/DE	ICAO Loc./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
CAR																																															
ANGUILLA (U.K.)																																															
The Valley	TQPF		T																											T						F							F			F	F
ANTIGUA AND BARBUDA																																															
Saint Johns	TAPA	F			T		F								T	F				F		F		T	T				F	F					F	F	F			F			F	F	F	F	F
ARUBA (NeTherlands)																																															
Oranjestad	TNCA					F				T			F		F		F	F		F					F		F	T				F			F				F	F			F			F	F
BAHAMAS																																															
Freeport	MYGF			T	F		T							F	F												F	F		F				T							F					F	F
George Town	MYEG		F	T																																										F	F
Nassau	MYNN		F	T	F		T	F		T	F	T	F	F	F		F	T	F				F	T	F	F	F	F		F	F	F	T	T		F				T	F		T			F	F
Rock sound	*MYER*																																													*F*	*F*
BARBADOS																																															
Bridgetown	TBPB		F	T									F	T	F		F			F	T	F		F	F		F	F		F					F	F	F	F	F	F			F	F	F	F	F
BELIZE																																															
Belize	MZBZ														F				F							F	F	F															F			F	F
BRITISH VIRGIN ISLANDS (U.K.)																																															
Roadtown	TUPJ																																		F	F									F	F	F
Virgin Gorda I.	TUPW																																		F										F	F	F
CAYMAN IS. (U.K.)																																															
Cayman Brac	MWCR													F													F	T				F		T									T			F	F
Georgetown	MWCR													F													F	T				F		T												F	F
COSTA RICA																																															
Alajuela	MROC			T	T	F				T		T	F		F		F	T	F				F			F	F	F		F	F	F		T	F								F			F	F
Liberia	MRLB			T															F												F	F		T												F	F
Limón	MRLM			T									F																			F														F	F
Pavas	MRPV																		F													F														F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
CUBA																																															
Camaguey/Ignacio Agramonte Intl	MUCM			T			T							F										T			F	T						T												F	F
Caryo Coco/Jardines del Rey Intl	*MUCC*																																													*F*	*F*
Cayo Largo del Sur/Vilo Acuña Intl	MUCL																																													F	F
Ciego de Avila	MUCA			T			T							F										T			F	T						T												F	F
La Habana/José Martí Intl	MUHA			T		F	T		F	T		T	T	F			F	T						T			F	T		F	F	F		T	F								F			F	F
Holguin/Frank País Intl	MUHG			T		F	T		F	T		T	T	F			F	T						T			F	T		F	F	F		T	F								F			F	F
Santiago de Cuba/Antonio Maceo Intl	MUCU												T				F										F																			F	F
Varadero/Juan Gualberto Gómez Intl	MUVR			T									T				F															F		T									F			F	F
DOMINICA																																															
Melville Hall	TDPD		T																	F																							F		F	F	F
Roseau	TDPR																			F															F											F	F
DOMINICAN REPUBLIC																																															
Barahona	MDBH																																													F	F
Herrera	MDHE																																													F	F
La Romana	MDLR																										T																F			F	F
Puerto Plata	MDPP														F							F			F									T							T		F			F	F
Punta Cana	MDPC			T									F																					T									F			F	F
Santiago	MDST																										T																			F	F
Santo Domingo	MDSD			T	F	F	F			T			F	F	F			T		F	T	F			F	F	F	T		F	F	F		T	F								F			F	F
EL SALVADOR																																															
San Salvador/El Salvador Intl.	MSLP			T				F						F	F								F			F	F	F			F	F		T	T											F	F
San Salvador/Ilopango Intl.	MSSS																															F														F	F
FRENCH ANTILLES (France)																																															
Fort-de-France	TFFF		F		F		F			F			T		F	F	F	T			F	F		F			F			F		F		T	F		F	F		F			F	F	F	F	F
Pointe-a-Pitre*	TFFR		F		F		F			F			F		F	F	F	T			F			F	T		F		F	F		F			F	F	F			F			F	F	F	F	F
Saint Barthelemy	TFFJ	F																									T																			F	F
Saint Martin	TFFG			T									F																										F							F	F
* TAF issued on request by the Pointe-á-Pitre MET Office/ TAF emitido por la Oficina MET de Pointe-á-Pitre a solicitud																																															
GRENADA																																															
Lauriston	TGPZ			T																																										F	F
Saint Georges	TGPY		F	T			F	F					F																								F	F		F			F			F	F
GUATEMALA																																															
Guatemala	MGGT				T	F		F		T			F	F	F		F	T	F						F	F	F	F		F	F	F		T	F								T			F	F
Puerto Barrios	MGPB			T																																										F	F
San José	MGSJ			T	T	F		F		T			F	F	F		F	T	F				F		F	F	F	F		F	F	F		T	F								T			F	F
Tikal	*MGTK*																																													*F*	*F*

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
HAITI																																															
Cap Haitien	MTCH			T																																					F					F	F
Port-au-Prince	MTPP			T	T	F	T						F		F		F			F										F		F			F				T		F		F			F	F
HONDURAS																																															
La Ceiba	MHLC			T																																										F	F
Croxen Hole	MHRO			T				F						F	F				F				F				F	F			F	F														F	F
San Pedro Sula	MHLM							F					F	F	F				F				F				F	F			F	F														F	F
Tegucigalpa	MHTG			T				F					F	F	F				F				F					T			F	F		F												F	F
JAMAICA																																															
Kingston	MKJP			T	T	F	F	F			F		F	F	F		F	T			T		F	T	F	F		F		F		F		T	F					F			F			F	F
Montego Bay	MKJS					F	F	F			F		F	F	F								F		F	F		F		F		F		T	F								F			F	F
MEXICO																																															
Acapulco	MMAA			T		T				T			T	F	F			T	F				F			T						F		T												F	F
Aguascalientes	*MMAS*																																													*F*	*F*
Bahias de Huatulco	MMBT																																													F	F
Campeche	MMCP			T																																										F	F
Cancun	MMUN					F							T		F		F									F	T					F		T												F	F
Chetumal	MMCM																																													F	F
Chihuahua	MMCU																																													F	F
Ciudad Del Carmen	*MMCE*																																													*F*	*F*
Ciudad Juarez	MMCS																																													F	F
Ciudad Obregón	*MMCN*																																													*F*	*F*
Ciudad Victoria	*MMCV*																																													*F*	*F*
Colima	*MMIA*																																													*F*	*F*
Cozumel	MMCZ					F	T	F			F			F	F				F				F			T					F	F		T	T											F	F
Culiacan	MMCL																	T																												F	F
Cuernavaca	*MMCB*																																													*F*	
Durango	MMDO																																													F	F
Guadalajara	MMGL			T		F				T			T		F			T																T												F	F
Guaymas	MMGM																																													F	F
Hermosillo	MMHO																																													F	F
Ixtapa-Zihuatanejo	MMZH																																													F	F
La Paz	MMLP																		F																											F	F
Leon	MMLO																																													F	F
Loreto	MMLT																																													F	F
Los Mochis	*MMLM*																																													*F*	
Manzanillo	MMZO																																													F	F
Matamoros	MMMA														F			T														F														F	F
Mazatlan	MMMZ			T															F																											F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
Merida	MMMD					F	T	F			F			F	F				F				F		F	T					F	F		T	F											F	F
Mexicali	MMML																																													F	F
Mexico	MMMX			T		T		F	F	T		T	T	F	F		F	T	F				F			F					F	F		T	T								F			F	F
Minatitlán	*MMMT*																																													*F*	
Monterrey/Del Norte Intl.	MMAN																	T														F											F			F	F
Monterrey/Gral.Mariano Escobedo	MMMY																	T														F														F	F
Morelia	MMMM																																													F	F
Nogales	MMNG																																													F	F
Nuevo Laredo	MMNL																																													F	F
Oaxaca	*MMOX*																																													*F*	*F*
Piedras Negras	MMPG																																													F	F
Poza Rica	*MMPA*																																													*F*	
Puebla	*MMPB*																																													*F*	
Puerto Escondido Intl	*MMPS*																																													*F*	*F*
Puerto Vallarta	MMPR			T		T		F	F	T		T	T	F	F		F	T	F				F			F					F	F		T	T											F	F
Queretaro	*MMQT*																																													*F*	
Reynosa	MMRX																																													F	F
Saltillo	*MMIO*																																													*F*	
San Felipe	MMSF																																													F	F
San Jose del Cabo	MMSD			T															F																											F	F
San Luis Potosi	*MMSP*																																													*F*	*F*
Tampico	MMTM			T		T		F	F	T		T	T	F	F		F	T	F				F			F					F	F		T	T											F	F
Tapachula	MMTP																		F																											F	F
Tepic	*MMEP*																																													*F*	
Tijuana	MMTJ																																													F	F
Toluca	MMTO																																													F	F
Torreón	MMTC																	T														F														F	F
Tuxtla Gutiérrez (CIV)	*MMTG*																																													*F*	
Uruapán	*MMPN*																																													*F*	
Veracruz	MMVR			T		T		F	F	T		T	T	F	F		F	T	F				F			F					F	F		T	T											F	F
Villahermosa	MMVA																																													F	F
Zacatecas	MMZC																																													F	F
NETHERLANDS ANTILLES (Netherlands)																																															
Kralendijk	TNCB																							F	F									T									F			F	F
Oranjestad	TNCE												F																						F	F										F	F
Philipsburg	TNCM	F	F				F										F			F															F	F								F	F	F	F
Willemstad	TNCC		F	T		F				F			F	T	F		F	F		F			F	F	F		F	T				F		T	F				F	F			F			F	F
NICARAGUA																																															
Managua	MNMG							F					F	F	F		F		F				F			F		F				F			T								F			F	F
Puerto Cabezas	MNPC													F	F											F						F														F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
PUERTO RICO (US)																																															
Aguadilla	TJBQ																																													F	F
Fajardo	TJFA																																														
Mayaguez/Eugenio María de Hostos	*TJMZ*																																													*F*	*F*
Ponce	TJPS	F	F		T		F						F	T		F	F	T		F			T		F		F	T		F		F			T	F							T	F		F	F
Roosevelt Roads Was	*TJNR*																																														
San Juan	TJSJ	F	F	T	F		F			T			F	T	F	F	F	T		F	T		T		F	T	F	F		F		F		T		F	F			F			F	F		F	F
Vieques	TJVQ																																														
SAINT KITTS AND NEVIS																																															
Basseterre	TKPK	F	F																	F									F	F					F					F			T	F	F	F	F
Charlestown	TKPN		F																											F					F											F	F
SAINT LUCIA																																															
Castries	TLPC		F				F													F		F		F											F			F		F						F	F
Vieux-Fort	TLPL		F				F	F					F	T			F			F		F	T		F		F			F					F	F				F			F	F	F	F	F
ST. VINCENT & GREN.																																															
Kingstown	TVSV						F	F												F		F		F													F			F						F	F
TRINIDAD AND TOBAGO																																															
Port-of-Spain	TTPP		F	T			F			F			F				F	T		F	T	F	T	F	F		F			F				T	F	F	F	F	F				F	F	F	F	F
Scarborough	TTCP		F				F													F		F		F						F						F	F						F			F	F
TURKS AND CAICOS IS.(UK)																																															
Grand Turk	MBGT																F								F																					F	F
Providenciales	MBPV					T																			F																					F	F
South Caicos	MBSC																								F																					F	F
UNITED KINGDOM																																															
Mount Pleasant	GGYP																																													F	F
VIRGIN ISLANDS (U.S.)																																															
Christiansted	TISX		F		T		F						F	T		F	F	T		F			T		F		F	T		F					T	F							T	F		F	F
Saint Thomas	TIST	F	F													F	F			F										F					F	F							T	F		F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
SAM																																															
ARGENTINA																																															
Buenos Aires/Aeroparque Jorge Newberry	SABE								F	F		F																					F									F	T			F	F
Buenos Aires/Ezeiza Ministro Pistarini	SAEZ								F	F		F	T		T		T	T										T				F	F	T								F	T			F	F
Buenos Aires/San Fernando	SADF																																													F	F
Cataratas del Iguazú	SARI									F																							F													F	F
Comodoro Rivadavia	SAVC									T		F																																		F	F
Córdoba	SACO								F	F		F	T					T										T				F	F	F								F	T			F	F
Formosa	*SARF*																																													*F*	*F*
Jujuy	SASJ								F			F	T																				F	F												F	F
Mar de Plata	SAZM									F		F																					F									F	T			F	F
Mendoza	SAME								F	F		F	T		T			T														F	F	T								F	T			F	F
Neuquen	SAZN								F	F		F	T		T			T															F	F								F	T			F	F
Posadas	*SARP*																																													*F*	*F*
Resistencia	SARE								F	F		F																					F	F								F	T			F	F
Rio Gallegos	SAWG											F																																		F	F
Rosario	SAAR														T																		F	F								F				F	F
Salta	SASA								F			F																					F													F	F
San Carlos de Bariloche	SAZS									T		F																																		F	F
Tucumán/Tte. Benjamín Matienzo	*SANT*																																													*F*	*F*
Ushuaia	SAWH											F																																		F	F
BOLIVIA																																															
Cochabamba	SLCB			F						T																						T	F	F									T			F	F
El Trompillo	*SLET*																																													*F*	*F*
La Paz	SLLP			F						F		F	F					T										T				F	F	F								F	T			F	F
Potosi	*SLPO*																																													*F*	*F*
Puerto Suarez	*SLPS*																																													*F*	*F*
Santa Cruz	SLVR			F						F		F	F																			F	F	F								F	T			F	F
Sucre	*SLSU*																																													*F*	*F*
Tarija	SLTJ			F						T																							F	F									T			F	F
Trinidad	SLTR																																F													F	F
BRAZIL																																															
Belém	SBBE				T		T		F				T		T			T			F			F				T		F		F							F				F			F	F
Belo Horizonte	SBCF								T			T																					T	T												F	F
Boa Vista	SBBV								T												F			F															F				F			F	F
Brasilia	SBBR			F					F			T	T					T															F	T									T			F	F
Campinas	SBKP			F					F			T	T					T															F	T								F	T			F	F
Campo Grande	SBCG			T					F																								F												F	F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haiti	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
Corumba	SBCR																																F													F	F
Cruzeiro do Sul	SBCZ																																													F	F
Cuiaba	SBCY			T	T		T		F				T		T						F			F				T		F		T	F	T									F			F	F
Curitiba	SBCT			T					F																								F													F	F
Florianapolis	SBFL			F																													F													F	F
Fortaleza	SBFZ			T								T									F												F													F	F
Foz do Iguacu	SBFI			F								T																					F	T												F	F
Macapá	SBMQ				T		T		F				T		T			T			F			F				T		F									F				F			F	F
Maceió	SBMO																																													F	F
Manaus	SBEG			T	T		T		F				T		T						F			F				T		F		F	F	T									F			F	F
Natal	SBNT			T								T																					T													F	F
Ponta Porá	SBPP																																F													F	F
Porto Alegre	SBPA			F					T			F	T																			F	F	T								F	T			F	F
Recife	SBRF			T								T																					F													F	F
Rio de Janeiro	SBGL			F					F			F	T					T														~~F~~	F	T								F	T			F	F
Salvador	SBSV			T								T																					F	T								F	T			F	F
Santarem	SBSN						T		F				T																														F			F	F
Sao Luis	SBSL																				F																									F	F
Sao Paulo	SBGR			F					F			F	T		T			T														F	F	T								F	T			F	F
Tabatinga	SBTT								F	F	T																							F												F	F
Uruguaiana	SBUG																																													F	F
CHILE																																															
Antofagasta	SCFA			F					F	T			T																			F		F												F	F
Arica	SCAR			F					F				T																			F	F	F												F	F
Balmaceda	*SCBA*																																													*F*	*F*
Calama	*SCCF*									*T*																																				*F*	*F*
Concepción	SCIE			F														T															F	F								F	T			F	F
Iquique	SCDA								F																								F	T												F	F
La Serena	*SCSE*																																													*F*	*F*
Osorno	*SCJO*																																													*F*	*F*
Puerto Montt	SCTE			F					F																									T												F	F
Puerto Natales/Tte. J. Gallardo	*SCNT*																																													*F*	*F*
Punta Arenas	SCCI			F					F																																					F	F
Santiago/Arturo Merino Benitez	SCEL			F					F	F			T					T														F	F	F								F	T			F	F
Temuco/Maquehue	*SCTC*																																													*F*	*F*
COLOMBIA																																															
Barranquilla	SKBQ				F				F	F		T		F	F		F	F	T	T			T		T	F	F	T		F	F	F		F	F								F			F	F
Bogota	SKBO			T	F				F	F		T		F	F		T	F		T		T				F	F	T		F		F		F	T					F			F			F	F
Bucaramanga	*SKBG*																																													*F*	*F*
Cali	SKCL			T	F				F	F		T						F				T					F	T		F		F		F	T								F			F	F

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
Cartagena	SKCG			T	F										T											F						F		T									F			F	F
Cucuta	SKCC																															F											F			F	F
Leticia	SKLT								F	F	T																					F		F									T			F	F
Pereira	*SKPE*																																													*F*	*F*
Rionegro	SKRG									F		T						F				T				F	F			F		F		T									T			F	F
San Andrés I.	SKSP													F	F				F				F			F	F				F	F											F			F	F
ECUADOR																																															
Guayaquil	SEGU			T					F	F	T	T	F		T													T		F		F	F	F	T								F			F	F
Latacunga	SELT			T					F	F	T	T	F	T	T													T		F		F	F	F	T								F			F	F
Manta	SEMT								F			T																																		F	F
Quito	SEQU			T					F	F		T	F	T	T													T		F		F		F	T								F			F	F
FRENCH GUIANA (France)																																															
Cayenne	SOCA						F			F								T		F				F						F									F	F			F			F	F
GUYANA																																															
Timehri	SYCJ						F			F			F		F					F	F						F			F					F		F		F	F			F			F	F
PANAMA																																															
David	MPDA			T	F	F			F	F	F	T	F	F	F		F	F	T				F		T	F	F	F		F	F			F	F					F			F			F	F
Panamá/Marco A. Gelabert	MPMG			T	F	F			F	F	F	T	F	F	F		F	F	T				F		T	F	F	F		F	F			F	F					F			F			F	F
Panamá/Tocumen	MPTO			T	F	F			F	F	F	T	F	F	F		F	F	T				F		T	F	F	F		F	F			F	F					F			F			F	F
PARAGUAY																																															
Asuncion	SGAS			F					F	F		F	T															T				T		T								F	T			F	F
Ciudad del Este	SGES			T																														T												F	F
PERU																																															
Andahuaylas	*SPHY*																																													*F*	*F*
Arequipa	SPQU											F																																		F	F
Ayacucho	*SPHO*																																													*F*	*F*
Cajamarca	*SPJR*																																													*F*	*F*
Chiclayo	SPHI			T	T				F	F	T	F	F	T	T			F										T		F		F	F		T								F			F	F
Cuzco	SPZO								F																																		T			F	F
Ilo	*SPLO*																																													*F*	*F*
Iquitos	SPQT									F	T		F																																	F	F
Juanjuí	*SPJI*																																													F	*F*
Juliaca	*SPJL*																																													*F*	*F*
Lima-Callao	SPIM			T	T				F	T	T	F	F	T	T			F										T		T		F	F										T			F	F
Pisco	SPSO			T					F	T	T	F	F	T	T			F														F	F										T			F	F
Pucallpa	*SPCL*																																													F	*F*
Puerto Maldonado	*SPTU*																																													*F*	*F*

TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN

	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
Tacna	SPTN			T					F			F																																		F	F
Talara	*SPYL*																																													*F*	*F*
Tarapoto	*SPST*																																													*F*	*F*
Tingo María	*SPGM*																																													*F*	*F*
Trujillo	SPRU			T	T				F	T	T	F	F	T	T			F										T		T		F	F										T			F	F
Tumbes	*SPME*																																													*F*	*F*
Yurimaguas	*SPMS*																																													*F*	*F*
SURINAME																																															
New Nickerie	SMNI						F			F			F					T		F	F			F	T					F				T	F					F			F			F	F
Paramaribo	SMZO																							F																			F			F	F
Zandery	SMJP						F			F			F					T		F	F			F	T					F				T	F					F			F			F	F
URUGUAY																																															
Colonia/Laguna de los Patos Intl.	SUCA			F																																										F	F
Durazno/Santa Bernardina	*SUDU*																																													*F*	*F*
Maldonado/Carlos Curbelo Intl.	SULS			F						F		F																					F	F												F	F
Montevideo/Angel S. Adami Intl.	SUAA			F						F																																				F	F
Montevideo/Carrasco Intl.	SUMU			F					F	F		F	T		T													T				F	F	F									T			F	F
Rivera/Presidente Gral. Oscar D. Gestido Intl.	SURV																																													T	T
Salto/Nueva Hesperides Intl.	SUSO			F																																										F	F
VENEZUELA																																															
Acarigua	*SVAC*																																													*F*	*F*
Barcelona	SVBC																																							F						F	F
Barinas	*SVBI*																																													*F*	*F*
Barquisimeto	*SVBM*																																													*F*	*F*
Calabozo	*SVCL*																																													*F*	*F*
Caracas/B.A. Gen. F. de Miranda	*SVFM*																																													*F*	*F*
Caracas/Simón Bolívar	SVMI		F	T	F	F	F		F	F		T	F		F	F	F	F		F	F	F	T	F	F		F	T		F		F		T	F	F	F		F	F					F	F	F
Ciudad Bolivar	*SVCB*																																													*F*	*F*
Coro	*SVCR*																																													*F*	*F*
Cumana	*SVCU*																																													*F*	*F*
Guanare	*SVGU*																																													*F*	*F*
Guiria	*SVGI*																																													*F*	*F*
Maracaibo	SVMC			T	F	F			T	T			F		F		F	F					T				F	T		F		F		T	F											F	F
Margarita	SVMG			T	T		F			T			F					F		F			T					T		F		F			F				F	F						F	F
Maturin	*SVMT*																																													*F*	*F*
Merida	*SVMD*																																													*F*	*F*
Paraguana	SVJC																																													F	F
Puerto Ayacucho	*SVPA*																																													*F*	*F*
San Antonio del Táchira	SVSA																															F														F	F

		TO BE AVAILABLE IN/ESTARÁN DISPONIBLES EN																																											
	ICAO Loc. Ind./Ind. Lugar OACI	Anguilla I. (U.K.)	Antigua and Barbuda	Argentina	Aruba (Netherlands)	Bahamas	Barbados	Belize	Bolivia	Brazil	Cayman Is. (U.K.)	Chile	Colombia	Costa Rica	Cuba	Dominica	Dominican Republic	Ecuador	El Salvador	French Antilles (France)	French Guiana (France)	Grenada	Guatemala	Guyana	Haití	Honduras	Jamaica	Mexico	Montserrat I. (U.K.)	Netherland Antilles (Netherlands)	Nicaragua	Panama	Paraguay	Peru	Puerto Rico (U.S.)	Saint Kitts and Nevis	Saint Lucia	S. Vincent and the Grenadines	Suriname	Trinidad and Tobago	Turks and Caicos Islands (U.K.)	Uruguay	Venezuela	Virgin Islands (U.K.)	Virgin Islands (U.S.)	Brasilia/Washington OPMET Data Banks	SADIS and ISCS Uplink Stations/ Estaciones de Enlace Ascendente ISCS y SADIS
San Fernando de Apure	*SVSR*																																													*F*	*F*
San Juan de los Morros	*SVJM*																																													*F*	*F*
Santo Domingo	*SVSO*																																													*F*	*F*
Tumeremo	*SVTM*																																													*F*	*F*
Valencia	SVVA		F	T	F	F	F		F	F		T	F		F	F	F	F		F	F	F	T	F	F		F	T		F		F		T	F	F	F		F	F					F	F	F
Valle de la Pascua	*SVVP*																																													*F*	*F*

TRANSMISIÓN INTERNACIONAL DE MENSAJES OPMET (METAR/SPECI y TAF) EN LOS ESTADOS/TERRITORIOS DE LAS REGIONES CAR/SAM CON BASE EN LA TABLA MET 2B DEL FASID CAR/SAM /

INTERNATIONAL TRANSMISSION OF OPMET MESSAGES (METAR/SPECI and TAF) IN THE STATES/TERRITORIES OF THE CAR/SAM REGIONS ON THE BASIS OF CAR/SAM FASID TABLE MET 2B

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
1	2	3	4
ANGUILLA (United Kingdom.)			
WALLBLAKE, ANGUILLA	TQPF	METAR/SPECI y/and TAF	TKPKYMYX SVZZYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TAPAYMYX TNCCYMYX SBBRYZYX KWBCYMYX EGZZMCAR
ANTIGUA AND BARBUDA			
V. C. BIRD, ANTIGUA	TAPA	METAR/SPECI y/and TAF	TQPFYMYX TBPBYMYX TDPDYMYX TFFFYMYX TFFRYMYX TGPYYMYX TRPMYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TTPPYMYX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TNCAYMYX MUHAYMYX SYZZMAMX MTPPYMYX SVZZYMYX SBBRYZYX KWBCYMYX EGZZMCAR
ARGENTINA			
AEROPARQUE J. NEWBERY, CAB	SABE	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
COMODORO RIVADAVIA/GRAL MO	SAVC	METAR/SPECI y/and TAF	SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CÓRDOBA/ING. A.L.V. TARAVELA	SACO	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MROCYMYX SEZZMAMX MMMXYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
EZEIZA MINISTRO PISTARINI, BA	SAEZ	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX MUHAYMYX MDSDYMYX SEZZMAMX MMMXYMYX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
IGUAZÚ/ CATARATAS DE IGUAZU	SAVC	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
JUJUY, J.	SASJ	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MAR DE PLATA, BA	SARE	METAR/SPECI y/and TAF	SCZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MENDOZA/EL PLUMERILLO, MZA	SAME	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MROCYMYX MUHAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
NEUQUÉN, N	SAZN	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX MUHAYMY SEZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
RESISTENCIA, CHO	SARE	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
RÍO GALLEGOS/BRIG. GRAL. D. A.	SAWG	METAR/SPECI y/and TAF	SKZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
ROSARIO; SF	SAAR	METAR/SPECI y/and TAF	SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MUHAYMY SBBRYZYX KWBCYMYX EGZZMSAM
SALTA, S.	SASA	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SAN CARLOS DE BARILOCHE, RN	SAZS	METAR/SPECI y/and TAF	SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SAN FERNANDO, BA	SADF	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
USHUAIA/MALVINAS ARGENTINAS	SAWH	METAR/SPECI y/and TAF	SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
ARUBA (Netherlands)			
ORANJESTAD/BEATRIX	TNCA	METAR/SPECI y/and TAF	MYNNYMYX SKZZMAMX MUHAYMY MDSDYMYX TNCCYMYX MTPPYMYX MKJPYMYX MPZZMAMX TJSJYMYX SMZZMAMX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MMMXYMYX SBBRYZYX KWBCYMYX EGZZMCAR
BAHAMAS			
GEORGE TOWN	MYEG	METAR/SPECI y/and TAF	TAPAYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
GOVERNOR¨S HARBOUR	MYEM	METAR/SPECI y/and TAF	SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
GRAND BAHAM INTERNATIONAL	MYGF	METAR/SPECI y/and TAF	TNCAYMYX MROCYMYC MUHAYMYX MKJPYMYX MMMXYMYX TNCCYMYX MBGTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MARSH HARBOUR	MYAM	METAR/SPECI y/and TAF	TAPAYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
NASSA INTERNATIONAL	MYNN	METAR/SPECI y/and TAF	TAPAYMYX TNCAYMYX MZBZYMYX SKZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MTPPYMY MHTGYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX TKPKYMYX MBGTYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SCZZMAMX SEZZMAMX SYZZMAMX SGZZMAMX SPZZMAMX TTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
NORTH ELEUTHERA	MYEH	METAR/SPECI y/and TAF	TAPAYMYX SBBRYZYX KWBCYMYX EGZZMCAR SGZZMAMX
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
ROCK SOUND	*MYER*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
SAN SALVADOR INTERNATIONAL	MYSM	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
SOUTH BIMINI	MYBS	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
STELLA MARIS	MYLS	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR SGZZMAMX
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
TREASURE CAY	MYAT	METAR/SPECI y/and TAF	TAPAYMYX SBBRYZYX KWBCYMYX EGZZMCAR SGZZMAMX
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
BARBADOS			
GRANTLEY ADAMS, BARBADOS	TBPB	METAR/SPECI y/and TAF	TAPAYMYX SKZZMAMX MUHAYMYX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX MTPPYMY MKJPYMYX MMMXYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TVSVYMYX SMZZMAMX TTPPYMYX SVZZMAMX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MROCYMYX SOZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
BELIZE			
PHILIPS S.W. GOLSON/BELIZE INT	MZBZ	METAR/SPECI y/and TAF	MUHAYMYX MSSSYMYX MHTGYMYX MKJPYMYX MMMXYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
BOLIVIA			
COBIJA	*SLCO*	*METAR/SPECI*	*SBBRYZYX KWBCYMYX EGZZMSAM*
COCHABAMBA	SLCB	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
EL TROMPILLO	*SLET*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
LA PAZ	SLLP	METAR/SPECI y/and TAF	SAZZMAMX TNCAYMYX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SEZZMAMX MMMXYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
POTOSI	*SLPO*	*METAR/SPECI*	*SBBRYZYX KWBCYMYX EGZZMSAM*
PUERTO SUAREZ	*SLPS*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
SUCRE	*SLSU*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
TARIJA	SLTJ	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
TRINIDAD	SLTR	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
VIRU VIRU	SLVR	METAR/SPECI y/and TAF	SAZZMAMX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
BRASIL			
BELEM/VAL DE CANS, PA	SBBE	METAR/SPECI y/and TAF	SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX MPZZMAMX SMZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	TNCAYMYX TBPBYMYX SKZZMAMX MUHAYMYX SEZZMAMX MMMXYMYX SBBRYZYX KWBCYMYX EGZZMSAM
BELO HORIZONTE/TANCREDO NE	SBCF	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
BOA VISTA/ BOA VISTA, RR	SBBV	METAR/SPECI y/and TAF	SOZZMAMX SYZZMAMX SMZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
BRASILIA/PRES. JUSCELINO KUBI	SBBR	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CAMPINAS/VIRACOPOS, SP	SBKP	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
CAMPO GRANDE/CAMPO GRANDE	SBCG	METAR/SPECI y/and TAF	SLZZMAMX MPZZMAMX TUPJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CORUMBA/CORUMBA, MS	SBCR	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CRUZEIRO DO SUL/ CRUZEIRO DO SUL	SBCZ	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
CUIBA/MARECHA RONDON, MT	SBCY	METAR/SPECI y/and TAF	SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX SGZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCCYMYX TBPBYMYX SKZZMAMX MUHAYMYX MMMXYMYX MPZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CURITIBA/AFONSO PENA, PR	SBCT	METAR/SPECI y/and TAF	SLZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
FLORIANAPOLIS/HERCILIO LUZ, SC	SBFL	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
FORTALEZA/PINTO MARTINS, CE	SBFZ	METAR/SPECI y/and TAF	SOZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
FOZ DO IGUACU/CATARATAS, PR	SBFI	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MACAPA/MACAPA, AP	SBMQ	METAR/SPECI y/and TAF	SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX MPZZMAMX SMZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	TNCCYMYX TBPBYMYX SKZZMAMX MUHAYMYX SEZZMZMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MACEIÓ/TMA	SBMO	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
MANAUS/EDUARDO GOMES, AM	SBEG	METAR/SPECI y/and TAF	SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX SGZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCCYMYX TBPBYMYX SKZZMAMX MUHAYMYX MMMXMYMX MPZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
NATAL /AUGUSTO SEVERO, RN	SBNT	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
PONTA PORA/PONTA PORA, MS	SBPP	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
PORTO ALEGRE/SALGADO FILHO,	SBPA	METAR/SPECI y/and TAF	SAZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SLZZMAMX SKZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
RECIFE/GUARARAPES - GILBERTO	SBRF	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
RIO DE JANEIRO/GALEAO-ANTONI	SBGL	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SALVADOR/DEPUTADO LUIS EDUARDO	SBSV	METAR/SPECI y/and TAF	SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SANTAREM/SANTAREM, PA	SBSN	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	TBPBYMYX SKZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SAO LUIS/MARECHAL CUNHA MAC	SBSL	METAR/SPECI y/and TAF	SOZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SAO PAULO/GUARULHOS, GOVER	SBGR	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX MUHAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
TABATINGA/ TABATINGA, AM	SBTT	METAR/SPECI y/and TAF	SLZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MWCRYMYX SBBRYZYX KWBCYMYX EGZZMSAM
URUGUAIANA/RUBEM BERTA, RS	SBTT	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
BRITISH VIRGIN ISLANDS (UNITED KINGDOM)			
TERRANCE B. LETTSOME, TORTOL	TUPJ	METAR/SPECI y/and TAF	TJSJYMYX TKPKYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
VIRGIN GORDA, B B.V.I	TUPW	METAR/SPECI y/and TAF	TJSJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
CAYMAN ISLANDS (UNITED KINGDOM)			
GERRARD SMITH INTL/CAYMAN B	MWCB	METAR/SPECI y/and TAF	MROCYMYX MKJPYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MMMXYMYX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
OWEN ROBERTS INTL/GRAND CA	MWCR	METAR/SPECI y/and TAF	MROCYMYX MKJPYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CHILE			
ANTOFAGASTA/AD CERRO MORE	SCFA	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX MPZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
ARICA/AP CHACALLUTA	SCAR	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX MPZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
BALMACEDA/AD BALMACEDA	*SCBA*	*METAR/SPECI/TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CALAMA/AD EL LOA	*SCCF*	*METAR/SPECI/TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CONCEPCION/AD CARRIEL SUR	SCIE	METAR/SPECI y/and TAF	SAZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
IQUIQUE/AD DIEGO ARACENA	SCDA	METAR/SPECI y/and TAF	SLZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
LA SERENA/AD LA FLORIDA	*SCSE*	*METAR/SPECI/TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
OSORNO/AD CANAL BAJO-CARLOS HO	*SCJO*	*METAR/SPECI/TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
PUERTO MONTT/AD EL TEPUAL	SCTE	METAR/SPECI y/and TAF	SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MUHAYMY SBBRYZYX KWBCYMYX EGZZMSAM
PUNTA ARENAS/AD PDTE. CARLO	SCCI	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SANTIAGO/AP ARTURO MERINO B.	SCEL	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SEZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
COLOMBIA			
BARRANQUILLA/ATLANTICO	SKBQ	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SEZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
BUCARAMANGA/SANTANDER	*SKBG*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CALI/VALLE	SKCL	METAR/SPECI y/and TAF	SAZZMAMX TNCAYMYX SLZZMAMX SEZZMAMX MKJPYMYX TNCCYMYX MPZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SEZZMAMX GPYYMYX MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
CARTAGENA/BOLIVAR	SKCG	METAR/SPECI y/and TAF	TNCAYMYX MHTGYMYX MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX MUHAYMY SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CUCUTA/N. S/DER	SKCC	METAR/SPECI y/and TAF	MUHAYMYX MHTGYMYX SBBRYZYX KWBCYMYX EGZZMSAM
LETICIA/AMAZONAS	SKLT	METAR/SPECI y/and TAF	SLZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MWCRYMYX SBBRYZYX KWBCYMYX EGZZMSAM
PEREIRA/RISARALDA	*SKPE*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
RIONEGRO/ANTIOQUIA	SKRG	METAR/SPECI y/and TAF	SEZZMAMX S TGPYYMYX MHTGYMYX MKJPYMYX TNCCYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX MUHAYMY SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
S/FE DE BOGOTA/C/MARCA	SKBO	METAR/SPECI y/and TAF	TNCAYMYX SLZZMAMX MROCYMYX SEZZMAMX MHTGYMYX MKJPYMYX TNCCYMYX MPZZMAMX SPZZMAMX TTPPYMYX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MDSDYMYX TFFFYMYX TFFRYMYX TGPYYMYX MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
SAN ANDRES/ILSA	SKSP	METAR/SPECI y/and TAF	MROCYMYX MUHAYMY MSSSYMYX MGGTYMYX MHTGYMYX MKJPYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
COSTA RICA			
ALAJUELA/JUAN SANTAMARIA INT	MROC	METAR/SPECI y/and TAF	MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX MPZZMZMX TJSJYMYX TUPJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TNCAYMYX SCZZMZMX SEZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
LIBERIA/DANIEL ODUBER QUIROS	MRLB	METAR/SPECI y/and TAF	MSSSYMYX MNMGYMYX MPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
LIMON/INTL.	MRLM	METAR/SPECI y/and TAF	SKZZMAMX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PAVAS/TOBIAS BOLANOS INTL.	MRPV	METAR/SPECI y/and TAF	MSSSYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CUBA			
CAMAGUEY/IGNACIO AGRAMONT	MUCM	METAR/SPECI y/and TAF	MROCYMYX SPZZMAMX MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SYZZMAMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CAYO COCO/JARDINES DEL REY	*MUCC*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
CAYO LARGO DEL SUR/VILO ACUN	MUCL	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
CIEGO DE AVILA/MAXIMO GOMEZ	MUCA	METAR/SPECI y/and TAF	MRCOYMYX MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SYZZMAMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
GUANTANAMO (US NAVEL AIR BASE)	MUGM	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
MUHA HABANA/JOSE MARTI INTL.	MUHA	METAR/SPECI y/and TAF	MYNNYMYX SLZZMAMX MROCYMYX MDSDYMYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SEZZMAMX SYZZMAMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
HOLGUIN/FRANK PAIS INTL. - CIV/	MUHG	METAR/SPECI y/and TAF	MYNNYMYX SLZZMAMX MROCYMYX MDSDYMYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TBPBYMYX SEZZMAMX SYZZMAMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
SANTIAGO DE CUBA/ANTONIO MA	MUCU	METAR/SPECI y/and TAF	MDSDYMYX MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SKZZMAMX MUHAYMY SBBRYZYX KWBCYMYX EGZZMCAR
VARADERO/JUAN G. GOMEZ INTL	MUVR	METAR/SPECI y/and TAF	MDSDYMYX SGZZMAMX SV SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SKZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
DOMINICA			
MELVILLE HALL,DOMINICA	TDPD	METAR/SPECI y/and TAF	TFFFYMYX TFFRYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TAPAYMYX SBBRYZYX KWBCYMYX EGZZMCAR
ROSEAU,DOMINICA	TDPR	METAR/SPECI y/and TAF	TFFFYMYX TFFRYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
DOMINICAN REPUBLIC			
BARAHONA	MDBH	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
LA ROMANA/INTL	MDLR	METAR/SPECI y/and TAF	SUZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
PUERTO PLATA	MDPP	METAR/SPECI y/and TAF	MUHAYMYX TGPYYMYX MTPPYMYX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SPZZMAMX MBGTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
PUNTA CANA	MDPC	METAR/SPECI y/and TAF	SKZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
SANTIAGO/CIBAO	MDST	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
MDHE SANTO DOMINGO/HERRERA	MDHE	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
SANTO DOMINGO/JOSE FRANCISC	MDSD	METAR/SPECI y/and TAF	TNCAYMYX MYNNYMYX TBPBYMYX SKZZMAMX MROCYMYX MUHAYMYX TFFFYMYX TFFRYMYX TGPGYMYX MTPPYMYX MHTGYMYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SEZZMAMX SOZZMAMX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
ECUADOR			
GUAYAQUIL	SEGU	METAR/SPECI y/and TAF	SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX MWCRYMYX SCZZMAMX MUHAYMYX MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
LATACUNGA	SELT	METAR/SPECI y/and TAF	SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX MWCRYMYX SCZZMAMX MROCYMYX MUHAYMYX MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
MANTA	SEMT	METAR/SPECI y/and TAF	SLZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
QUITO	SEQU	METAR/SPECI y/and TAF	SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MROCYMYX MUHAYMYX MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
EL SALVADOR			
AEROPUERTO INTERNACIONAL D	MSSS	METAR/SPECI y/and TAF	MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
AEROPUERTO INTERNACIONAL EL	MSLP	METAR/SPECI y/and TAF	MZBZYMYX MRCOYMYX MUHAYMY MGGTYMYX MHTGYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SPZZMAMXTJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
FRENCH ANTILLES (FRANCE)			
FORT DE FRANCE /LE LAMENTIN	TFFF	METAR/SPECI y/and TAF	TAPAYMYX TNCAYMYX TBPBYMYX MUHAYMYX TDPDYMYX MDSDYMYX SOZZMAMX TGPYYMYX SYZZMAMX MKJPYMYX TRPMYMYX TNCCYMYX MPZZMAMX TJSJYMYX TLPLYMYX TVSVYMYX TTPPYMYXSVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SKZZMAMX SEZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
POINTE A PITRE, LE RAIZET, GUA	TFFR	METAR/SPECI y/and TAF	TAPAYMYX TNCAYMYX TBPBYMYX SKZZMAMX MUHAYMYX TDPDYMYX MDSDYMYX SOZZMAMX SYZZMAMX MKJPYMYX TRPMYMYX TNCCYMYX

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
			MPZZMAMX TJSJYMYX TKPKYMYX TLPLYMYX TVSVYMYX TTPPYMYXSVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SEZZMAMX MTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
SAINT BARTHELEMY, FRENCH AN	TFFJ	METAR/SPECI y/and TAF	TQPFYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MKJPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
SAINT MARTIN, GRANDE CASE, G	TFFG	METAR/SPECI y/and TAF	SKZZMAMX SMZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MUHAYMY SBBRYZYX KWBCYMYX EGZZMCAR
FRENCH GUIANA (FRANCE)			
SOCA CAYENNE-ROCHAMBEAU	SOCA	METAR/SPECI y/and TAF	TBPBYMYX TFFFYMYX TFFRYMYX SYZZMAMX TNCCYMYX SMZZMAMX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
GRENADA			
LAURISTON, CARRIACOU, GRENA	TGPZ	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
POINT SALINES, GRENADA	TGPY	METAR/SPECI y/and TAF	TAPAYMYX TBPBYMYX MZBZYMYX SKZZMAMX TLPLYMYX TVSVYMYX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
GUATEMALA			
LA AURORA	MGGT	METAR/SPECI y/and TAF	MYNNYMYX MZBZYMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYMYX MSSSYMYX MTPPYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TNCAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PUERTO BARRIOS	MGPB	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PUERTO DE SAN JOSE	MGSJ	METAR/SPECI y/and TAF	MYNNYMYX MZBZYMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MTPPYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TNCAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
TIKAL	*MGTK*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
GUYANA			
SYCJ CHEDDI JAGAN INTERNATIONAL	SYCJ	METAR/SPECI y/and TAF	TBPBYMYX SKZZMAMX MUHAYMYX FFFYMYX FFRYMYX SYZZMAMX MMMXYMYX TNCCYMYX SGZZMAMXTJSJYMYX TLPLYMYX TTPPYMYX MBGTYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
HAITI			
CAP HAITIEN	MTCH	METAR/SPECI y/and TAF	MBGTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MTPP PORT-AU-PRINCE/INTL	MTPP	METAR/SPECI y/and TAF	MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMYX FFFYMYX FFRYMYX TNCCYMYX MPZZMAMX TJSJYMYX MBGTYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TNCAYMYX TBPBYMYX SMZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
HONDURAS			
LA CEIBA/GOLOSON INTL	MHLC	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
ROATAN INTL.	MHRO	METAR/SPECI y/and TAF	MZBZYMYX MROCYMYX MUHAYMYX MSSSYMYXMGGTYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
SAN PEDRO SULA/LA MESA	MHLM	METAR/SPECI y/and TAF	MZBZYMYX SKZZMAMX MROCYMYX MUHAYMYX MSSSYMYXMGGTYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
TEGUCIGALPA/TONCONTIN	MHTG	METAR/SPECI y/and TAF	MZBZYMYX MROCYMYX MUHAYMYX MSSSYMYXMGGTYMYX MKJPYMYX MNMGYMYX MPZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MMMXYMYX SEZZMAMX SOZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
JAMAICA			
KINGSTON/NORMAN MANLEY	MKJP	METAR/SPECI y/and TAF	MYNNYMYX TBPBYMYX MZBZYMYX MWCRYMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYMYX MGGTYMYX MTPPYMYX MHTGYMYX MMMXYMYX TRPMYMYX TNCCYMYX SGZZMAMX TJSJYMYX MBGTYMYX TUPJYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX TNCAYMYX SEZZMAMX SOZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
MONTEGO BAY/SANGSTER	MKJS	METAR/SPECI y/and TAF	MYNNYMYX TBPBYMYX MZBZYMYX MWCRYMYX SKZZMAMX MRCOYMYX HUHAYMYX MGGTYMYX MTPPYMYX MHTGYMYX MMMXYMYX TNCCYMYX MPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MEXICO			
ACAPULCO	MMAA	METAR/SPECI y/and TAF	MROCYMYX MUHAYMYX MSSSYMYX MGGTYMYXMPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MYNNYMYX SKZZMAMX SEZZMAMX MHTGYMYX SEZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
AEROPUERTO DEL NORTE	MMAN	METAR/SPECI y/and TAF	MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
AGUASCALIENTES	*MMAS*	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
BAHIAS DE HUATULCO	MMBT	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
CAMPECHE	MMCP	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CANCUN	MMUN	METAR/SPECI y/and TAF	MYNNYMYX MUHAYMYX MDSDYMYX MHTGYMYX MKJPYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SKZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CD. JUAREZ	MMCS	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
CD. VICTORIA	*MMCV*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
CHETUMAL	MMCM	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
CHIHUAHUA	MMCU	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
CIUDAD ACUNA	MMCC	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
CIUDAD DEL CARMEN	*MMCE*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
CIUDAD OBREGON	*MMCN*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
COZUMEL	MMCZ	METAR/SPECI y/and TAF	MYNNYMYX MZBZYMYX MWCRYMYX MROCYMYX MUHAYMYX MSSSYMYX MGGTYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TBPBYMYX MHTGYMYX SPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
CULIACAN	MMCL	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
DURANGO	MMDO	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
GUADALAJARA	MMGL	METAR/SPECI y/and TAF	MYNNYMYX MUHAYMYX BBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
GUAYMAS	MMGM	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
HERMOSILLO	MMHO	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
IXTAPA-ZIHUATANEJO	MMZH	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
LA PAZ	MMLP	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
LEON	MMLO	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
LORETO	MMLT	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
MANZANILLO	MMZO	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
MATAMORO	MMMA	METAR/SPECI y/and TAF	MUHAYMY MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MAZATLAN	MMMZ	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MERIDA	MMMD	METAR/SPECI y/and TAF	MYNNYMYX MZBZYMYX MWCRYMYX MROCYMYX MUHAYMYX MSSSYMYX MGGTYMYX MTPPYMYX MNMGYMYX MPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TBPBYMYX MHTGYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MEXICALI	MMML	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
MEXICO	MMMX	METAR/SPECI y/and TAF	MYNNYMYX MZBZYMYX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MNMGYMYX MPZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
MONTERREY	MMMY	METAR/SPECI y/and TAF	MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MORELIA	MMMM	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
NOGALES	MMNG	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
NUEVO LAREDO	MMNL	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
OAXACA	*MMOX*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
PIEDRAS NEGRAS	MMPG	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
PUERTO ESCONDIDO	*MMPS*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
PUERTO VALLARTA	MMPR	METAR/SPECI y/and TAF	MZBZYMYX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
REYNOSA	MMRX	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
SAN FELIPE	MMSF	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
SAN JOSE DEL CABO	MMSD	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MUHAYMY SBBRYZYX KWBCYMYX EGZZMCAR
SAN LUIS POTOSI	*MMSP*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
TAMPICO	MMTM	METAR/SPECI y/and TAF	MZBZYMYX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MNMGYMYX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
TAPACHULA	MMTP	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
TIJUANA	MMTJ	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
TOLUCA	MMTO	METAR/SPECI y/and TAF	MSSSYMYX SBBRYZYX KWBCYMYX EGZZMCAR
TORREON	MMTC	METAR/SPECI y/and TAF	MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SEZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
VERACRUZ	MMVR	METAR/SPECI y/and TAF	MZBZYMYX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MNMGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
VILLAHERMOSA	MMVA	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
ZACATECAS	MMZC	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
NETHERLANDS ANTILLES (NETHERLANDS)			
BONAIRE/FLAMINGO	TNCB	METAR/SPECI y/and TAF	SYZZMAMX MTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
CURACAO/AEROPUERTO HATO	TNCC	METAR/SPECI y/and TAF	TAPAYMYX MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMYX SEZZMAMX TFFFYMYX TFFRYMYX MGGTYMYX SYZZMAMX MTPPYMYX MKJPYMYX MPZZMAMX TJSJYMYX SMZZMAMX TTPPYMYX SVZZMAMXSBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MROCYMYX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
ST. EUSTATIUS/F.D ROOSEVELT	TNCE	METAR/SPECI y/and TAF	SKZZMAMX TJSJYMYX TKPKYMYX SBBRYZYX KWBCYMYX EGZZMCAR
ST. MAARTEN/PRINCESS JULIANA	TNCM	METAR/SPECI y/and TAF	SAZZMAMX TAPAYMYX TBPBYMYX MDSDYMYX TFFFYMYX TFFRYMYX TJSJYMYX TKPKYMYX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
NICARAGUA			
MANAGUA//MANAGUA	MNMG	METAR/SPECI y/and TAF	MZBZYMYX SKZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGTYMYX MHTGYMYX MMMXYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TJSJYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PUERTO CABEZAS/ZELAYA	MNPC	METAR/SPECI y/and TAF	MROCYMYX MUHAYMYX MHTGYMYX MPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PANAMA			
BOCAS DEL TORO/BOCAS DEL TORO	MPBO	METAR/SPECI	SBBRYZYX KWBCYMYX EGZZMSAM
CHANGUINOLA/MANUEL NINO	MPCH	METAR/SPECI	SBBRYZYX KWBCYMYX EGZZMSAM
DAVID/ENRIQUE MALEK	MPDA	METAR/SPECI y/and TAF	TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRYZYX KWBCYMYX EGZZMSAM
PANAMA/MARCOS A. GELABERT	MPMG	METAR/SPECI y/and TAF	TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRYZYX KWBCYMYX EGZZMSAM
PANAMA/TOCUMEN	MPTO	METAR/SPECI y/and TAF	TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGYMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTPPYMYX

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
			SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRYZYX KWBCYMYX EGZZMSAM
PARAGUAY			
ASUNCION/S.PETTIROSSI	SGAS	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SCZZMAMX MMMXYMYX MPZZMAMX SPZZMAMX SUZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
CIUDAD DEL ESTE/GUARANI	SGES	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
PERU			
ANDAHUAYLAS	*SPHY*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
SPQU AREQUIPA/RODRIGUEZ BALLON	SPQU	METAR/SPECI y/and TAF	SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
AYACUCHO/CORONEL FAP ALFREDO M	*SPHO*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CHICLAYO/CAP. JOSE ABELARDO	SPHI	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SKZZMAMX TNCAYMYX SEZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCAYMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
CUSCO/VELAZCO ASTETE	SPZO	METAR/SPECI y/and TAF	SLZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
IQUITOS/CORONEL FAP FRANCIS	SPQT	METAR/SPECI y/and TAF	SKZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	MWCRYMYX SBBRYZYX KWBCYMYX EGZZMSAM
JULIACA	SPJL	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
LIMA-CALLAO/INTL JORGE CHAVE	SPIM	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCAYMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TNCCYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
PISCO	SPSO	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX MWCRYMYX MROCYMYX MUHAYMY SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
PTO. MALDONADO/PADRE ALDAMIZ	*SPTU*	*METAR/SPECI*	*SBBRYZYX KWBCYMYX EGZZMSAM*
TACNA/CORONEL FAP CARLOS CI	SPTN	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX MUHAYMY SBBRYZYX KWBCYMYX EGZZMSAM
SPYL TALARA/CAPITAN MONTES	SPYL	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
TRUJILLO/CAPITAN CARLOS MART	SPRU	METAR/SPECI y/and TAF	SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCAYMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TNCCYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
TUMBES/PEDRO CANGA	*SPME*	*METAR/SPECI*	*SBBRYZYX KWBCYMYX EGZZMSAM*
PUERTO RICO (UNITED STATES)			
AGUADILLA/RAPHAEL HERNANDE	TJBQ	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
FAJARDO/DIEGO JIMENEZ TORRE	TJFA	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
MAYAGUEZ/EUGENIO MARIA DE HOST	*TJMZ*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
PONCE/MERCEDITA, PR.	TJPS	METAR/SPECI y/and TAF	TQPFYMYX TAPAYMYX TBPBYMYX SKZZMAMX TDPDYMYX MDSDYMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TKPKYMYX TUPJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TNCAYMYX MROCYMYX SEZZMAMX MGGTYMYX MUHAYMY TJSJYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
ROOSEVELT ROADS NAS,PR.	*TJNR*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMCAR*
SAN JUAN/LUIS MUNOZ MARIN INT	TJSJ	METAR/SPECI y/and TAF	TQPFYMYX TAPAYMYX TNCAYMYX TBPBYMYX SKZZMAMX MUHAYMYX TDPDYMYX MDSDYMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX MMMXYMYX TNCCYMYX MPZZMAMX TKPKYMYX TLPLYMYX TTPPYMYX SVZZMAMX TUPJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	SAZZMAMX MROCYMYX SEZZMAMX SOZZMAMX MGGTYMYX MHTGYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
VIEQUES,ISLA DE VIQUES,PR.	TJVQ	METAR/SPECI y/and TAF	TQPFYMYX TAPAYMYX TBPBYMYX SKZZMAMX TDPDYMYX MDSDYMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TKPKYMYX TUPJYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TNCAYMYX MROCYMYX SEZZMAMX MGGTYMYX MMMXYMYX TJSJYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
SAINT KITTS AND NEVIS			
ROBERT L. BRADSHAW, ST. CHRIS	TKPK	METAR/SPECI y/and TAF	TQPFYMYX TAPAYMYX TFFFYMYX TFFRYMYX TRPMYMYX TNCCYMYX TJSJYMYX TTPPYMYX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
VANCE WINKWORTH AMORY, ST.	TKPN	METAR/SPECI y/and TAF	TQPFYMYX TNCCYMYX TJSJYMYXSBBRYZYX KWBCYMYX EGZZMCAR

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
SAINT LUCIA			
GEORGE CHARLES, SAINT LUCIA	TLPC	METAR/SPECI y/and TAF	TAPAYMYX TBPBYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX TJSJYMYX TVSVYMYX TTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
HEWANORRA SAINT LUCIA	TLPL	METAR/SPECI y/and TAF	TAPAYMYX TBPBYMYX MZBZYMYX SKZZMAMX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX MTPPYMYX MKJPYMYX TNCCYMYX TJSJYMYX TKPKYMYX TTPPYMYX SVZZMAMX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MROCYMYX MGGTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
SAINT VINCENT AND THE GRENADINES			
CANOUAN,ST.VINCENT AND THE	TVSC	METAR/SPECI y/and TAF	TBPBYMYX MZBZYMYX TFFFYMYX TFFRYMYX TGPYYMYX TLPLYMYX TTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
E.T.JOSHUA,ST.VINCENT, AND TH	TVSV	METAR/SPECI y/and TAF	TBPBYMYX MZBZYMYX TFFFYMYX TFFRYMYX TGPYYMYX TLPLYMYX TTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
J.F. MITCHELL,BEQUIA ST.VINCEN	TVSB	METAR/SPECI y/and TAF	SYZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
MUSTIQUE,ST.VINCENT AND THE	TVSM	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
UNION ISLAND,ST.VINCENT AND T	TVSU	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMCAR
SURINAME			
J.A. PENGEL INTL.AIRP	SMJP	METAR/SPECI y/and TAF	TBPBYMYX SKZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX SYZZMAMX TNCCYMYX TJSJYMYX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SEZZMAMX MTPPYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
NICKERIE/MAJ. FERNANDES	SMNI	METAR/SPECI y/and TAF	TBPBYMYX SKZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX SYZZMAMX TNCCYMYX TJSJYMYX TTPPYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SEZZMAMX MTPPYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
ZORG EN HOOP	SMZO	METAR/SPECI y/and TAF	SYZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
TRINIDAD AND TOBAGO			
CROWN POINT,TOGAGO	TTCP	METAR/SPECI y/and TAF	TAPAYMYX TBPBYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX TNCCYMYX TKPKYMYX TLPLYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
PIARCO,TRINIDAD	TTPP	METAR/SPECI y/and TAF	TAPAYMYX TBPBYMYX SKZZMAMX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX MTPPYMYX MKJPYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TVSVYMYX SMZZMAMX SVZZMAMX TUPJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	TNCAYMYX MSSSYMYX SOZZMAMX MGGTYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMCAR
TURKS AND CAICOS IS. (UK)			
GRAND TURK	MBGT	METAR/SPECI y/and TAF	SMDSDYMYX MTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
PROVIDENCIALES	MBPV	METAR/SPECI y/and TAF	MTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
		TAF	MYNNYMYX SBBRYZYX KWBCYMYX EGZZMCAR
SOUTH CAICOS	MBSC	METAR/SPECI y/and TAF	MTPPYMYX SBBRYZYX KWBCYMYX EGZZMCAR
URUGUAY			
COLONIA/INTL "LAGUNA DE LOS P	SUCA	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MALDONADO/ INTL C/C CARLOS A.	SULS	METAR/SPECI y/and TAF	SAZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MONTEVIDEO/AD ANGEL S. ADAMI	SUAA	METAR/SPECI y/and TAF	SAZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MONTEVIDEO/INTL.CARRASCO "G	SUMU	METAR/SPECI y/and TAF	SAZZMAMX SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SKZZMAMX MUHAYMY MMMXYMYX SVZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
RIVERA/INTL. PRESIDENTE GENE	SURV	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SALTO/INTL.NUEVA HESPERIDES	SUSO	METAR/SPECI y/and TAF	SGZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
VENEZUELA			
ACARIGUA, PORTUGUESA	*SVAC*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
B. A. GENERALISIMO FRANCISCO DE MIRANDA	*SVFM*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
BARCELONA, ANZOATEGUI	SVBC	METAR/SPECI y/and TAF	TTPPYMYX SBBRYZYX KWBCYMYX EGZZMSAM
BARINAS, BARINAS	*SVBI*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
BARQUISIMETO, LARA	*SVBM*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CALABOZO, GUARICO	*SVCL*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CIUDAD BOLIVAR, BOLIVAR	*SVCB*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CORO, FALCON	*SVCR*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
CUMANA, SUCRE	*SVCU*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
GUANARE, PORTUGUESA	*SVGU*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
GUIRIA, SUCRE	*SVGI*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
HIGUEROTE, MIRANDA	*SVHG*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*

CITY/AERODROME/ CIUDAD/AERÓDROMO	Ind. de lugar OACI	INTERNACIONAL OPMET REQUIREMENT OF/ REQUERIMIENTO INTERNACIONAL DE METAR/SPECI y TAF	Direcciones AFTN / AFTN Addresses
MAIQUETIA, INTERNACIONAL SIMON BOLIVAR	SVMI	METAR/SPECI y/and TAF	TAPAYMYX TNCAYMYX MYNNYMYX TBPBYMYX SLZZMAMX SKZZMAMX MUHAYMYX TDPDYMYX MDSDYMYX SEZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX TGPYYMYX SYZZMAMX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX TKPKYMYX TLPLYMYX SMZZMAMX TTPPYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MGGTYMYX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MARACAIBO, ZULIA	SVMC	METAR/SPECI y/and TAF	TNCAYMYX MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMYX SEZZMAMX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SLZZMAMX MGGTYMYX MMMXYMYX SPZZMAMX MGGTYMYX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
MARGARITA, NUEVA ESPARTA	SVMG	METAR/SPECI y/and TAF	TBPBYMYX SKZZMAMX SEZZMAMX TFFFYMYX TFFRYMYX TNCCYMYX MPZZMAMX TJSJYMYX SMZZMAMX TTPPYMYX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX TNCAYMYX MGGTYMYX MMMXYMYX SBBRYZYX KWBCYMYX EGZZMSAM
MATURÍN, MONAGAS	*SVMT*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
MERIDA, MERIDA	*SVMD*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
PARAGUANA, JOSEFA CAMEJO, F	SVJC	METAR/SPECI y/and TAF	SBBRYZYX KWBCYMYX EGZZMSAM
PUERTO AYACUCHO, AMAZONAS	*SVPA*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
SAN ANTONIO, TACHIRA	SVSA	METAR/SPECI y/and TAF	MPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
SAN FERNANDO DE APURE,APURE	*SVSR*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
SAN JUAN DE LOS MORROS, GUARICO	*SVJM*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
SANTO DOMINGO, B.A.MAYOR BUENAVENTURA	*SVSO*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
TUMEREMO, BOLIVAR	*SVTM*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
VALENCIA, CARABOBO	SVVA	METAR/SPECI y/and TAF	TAPAYMYX TNCAYMYX MYNNYMYX TBPBYMYX SLZZMAMX SKZZMAMX MUHAYMYX TDPDYMYX MDSDYMYX SEZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX TGPGYMYX SYZZMAMX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX TKPKYMYX TLPLYMYX SMZZMAMX TTPPYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMSAM
		TAF	SAZZMAMX SCZZMAMX MGGTYMYX MMMXYMYX SPZZMAMX SBBRYZYX KWBCYMYX EGZZMSAM
VALLE DE LA PASCUA, GUARICO	*SVVP*	*METAR/SPECI y/and TAF*	*SBBRYZYX KWBCYMYX EGZZMSAM*
VIRGIN ISLANDS (UNITED KINGDOM)			
ROADTOWN	TUPJ	METAR/SPECI y/and TAF	TJSJYMYX TKPKYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
VIRGIN GORDA i.	TUPW	METAR/SPECI y/and TAF	TJSJYMYX TISTYMYX SBBRYZYX KWBCYMYX EGZZMCAR
VIRGIN ISLANDS (UNITED STATES			
CHARLOTTE AMALIE ST. THOMAS/	TIST	METAR/SPECI y/and TAF	TJSJYMYX TKPKYMYX SBBRYZYX KWBCYMYX EGZZMCAR
HENRY.E.ROHLSEN	TISX	METAR/SPECI y/and TAF	TJSJYMYX SBBRYZYX KWBCYMYX EGZZMCAR

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

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

International Civil Aviation Organization

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. TARAVELLA CBA	SACO	RS	CORDOBA/ING. A.L.V. TARAVELLA CBA	SACO		T	F
EZEIZA MINISTRO PISTARINI, BA	SAEZ	RS	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. TARAVELLA CBA	SACO		T	F
MAR DEL PLATA,BA	SAZM	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
MENDOZA/EL PLUMERILLO,MZA	SAME	RS	MENDOZA/EL PLUMERILLO,MZA	SAME		T	F
NEUQUEN,N	SAZN	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
RESISTENCIA,CHO	SARE	RNS&AS	RESISTENCIA,CHO	SARE		T	F
RIO GALLEGOS/BRIG. GRAL. D.A. PARODI (SC)	SAWG	RS	COMODORO RIVADAVIA/GRAL MOSCONI,CHT	SAVC		T	F
ROSARIO,SF	SAAR	RS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
SALTA,S.	SASA	RS	CORDOBA/ING. A.L.V. TARAVELLA CBA	SACO		T	F
SAN CARLOS DE BARILOCHE,RN	SAZS	RNS&AS	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
SAN FERNANDO,BA	SADF	RG	AEROPARQUE J. NEWBERY, CABA	SABE		T	F
USHUAIA/MALVINAS ARGENTINAS (TAIS)	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

International Civil Aviation Organization

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 KUBITSCHEK, 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

International Civil Aviation Organization

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	~~MW~~CR		T	F
OWEN ROBERTS INTL/GRAND CAYMAN	MWCR	RS	OWEN ROBERTS INTL/GRAND CAYMAN	MWCR		T	P

International Civil Aviation Organization

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

International Civil Aviation Organization

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

International Civil Aviation Organization

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	TGPZ	RS	POINT SALINES, GRENADA	TGPY			N
POINT SALINES, GRENADA	TGPY	RS	POINT SALINES, GRENADA	TGPY		T	F
Guatemala							
LA AURORA	MGGT	RS	LA AURORA	MGGT	Y	T	F
PUERTO BARRIOS	MGPB	RG&AS	LA AURORA	MGGT		T	F
PUERTO DE SAN JOSE	MGSJ	RG&AS	LA AURORA	MGGT		T	F
Guyana							
CHEDDI JAGAN INTERNATIONAL	SYCJ	RS	CHEDDI JAGAN INTERNATIONAL	SYCJ	Y	T	F
Haiti							
CAP HAITIEN	MTCH	RS	PORT-AU-PRINCE/INTL	MTPP			N
PORT-AU-PRINCE/INTL	MTPP	RS	PORT-AU-PRINCE/INTL	MTPP		T	P
Honduras							
LA CEIBA/GOLOSON INTL	MHLC	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
ROATAN INTL.	MHRO	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	P
SAN PEDRO SULA/LA MESA	MHLM	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
TEGUCIGALPA/TONCONTIN	MHTG	RS	TEGUCIGALPA/TONCONTIN	MHTG		T	F
Jamaica							
KINGSTON/NORMAN MANLEY	MKJP	RS	KINGSTON/NORMAN MANLEY	MKJP		T	F
MONTEGO BAY/SANGSTER	MKJS	RS	KINGSTON/NORMAN MANLEY	MKJP		T	F
Mexico							
ACAPULCO	MMAA	RS	MEXICO	MMMX		T	F
AEROPUERTO DEL NORTE	MMAN	RG&AS	MEXICO	MMMX		T	P
BAHIAS DE HUATULCO	MMBT	RNS&AS	MEXICO	MMMX		T	P
CAMPECHE	MMCP	RG	MEXICO	MMMX		T	P
CANCUN	MMUN	RS	MEXICO	MMMX		T	F
CD. JUAREZ	MMCS	RG&AS	MEXICO	MMMX		T	P
CHETUMAL	MMCM	RS	MEXICO	MMMX		T	P
CHIHUAHUA	MMCU	RS	MEXICO	MMMX		T	P
CIUDAD ACUNA	MMCC	RG	MEXICO	MMMX			N
COZUMEL	MMCZ	RS	MEXICO	MMMX		T	F
CULIACAN	MMCL	RS	MEXICO	MMMX		T	P
DURANGO	MMDO	RS	MEXICO	MMMX		T	P
GUADALAJARA	MMGL	RS	MEXICO	MMMX	Y	T	F
GUAYMAS	MMGM	RS	MEXICO	MMMX		T	P

International Civil Aviation Organization

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	MMMX		T	P
IXTAPA-ZIHUATANEJO	MMZH	RS	MEXICO	MMMX		T	P
LA PAZ	MMLP	RS	MEXICO	MMMX		T	P
LEON	MMLO	RS	MEXICO	MMMX		T	P
LORETO	MMLT	RS	MEXICO	MMMX		T	P
MANZANILLO	MMZO	RS	MEXICO	MMMX		T	P
MATAMOROS	MMMA	RG&AS	MEXICO	MMMX		T	P
MAZATLAN	MMMZ	RS	MEXICO	MMMX		T	F
MERIDA	MMMD	RS	MEXICO	MMMX		T	F
MEXICALI	MMML	RG	MEXICO	MMMX		T	P
MEXICO	MMMX	RS	MEXICO	MMMX	Y	T	F
MONTERREY	MMMY	RS	MEXICO	MMMX		T	F
MORELIA	MMMM	RS	MEXICO	MMMX		T	P
NOGALES	MMNG	RG	MEXICO	MMMX			N
NUEVO LAREDO	MMNL	RG	MEXICO	MMMX		T	P
PIEDRAS NEGRAS	MMPG	RG	MEXICO	MMMX		T	P
PUERTO VALLARTA	MMPR	RS	MEXICO	MMMX		T	F
REYNOSA	MMRX	RG	MEXICO	MMMX		T	P
SAN FELIPE	MMSF	RG	MEXICO	MMMX			N
SAN JOSE DEL CABO	MMSD	RS	MEXICO	MMMX		T	P
TAMPICO	MMTM	RS	MEXICO	MMMX		T	P
TAPACHULA	MMTP	RNS	MEXICO	MMMX		T	P
TIJUANA	MMTJ	RS	MEXICO	MMMX		T	F
TOLUCA	MMTO	RNS	MEXICO	MMMX		T	F
TORREON	MMTC	RS	MEXICO	MMMX		T	P
VERACRUZ	MMVR	RS	MEXICO	MMMX		T	F
VILLAHERMOSA	MMVA	RS	MEXICO	MMMX		T	P
ZACATECAS	MMZC	RS	MEXICO	MMMX		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

International Civil Aviation Organization

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

International Civil Aviation Organization

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					N
E.T.JOSHUA,ST.VINCENT, AND THE GRENADINES	TVSV	RS	GRANTLEY ADAMS,BARBADOS	TBPB		T	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

International Civil Aviation Organization

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
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.ROHLSEN	TISX	RS	NWS WFO SAN JUAN, PR	KWBC		T	F

ESTADO/STATE	SITIO WEB DONDE SE ENCUENTRA LA INFORMACIÓN AERONÁUTICA / WEB SITE WHERE AERONAUTICAL INFORMATION CAN BE FOUND
ARGENTINA	www.smn.gov.ar
BOLIVIA	www.aasana.bo
BRASIL/BRAZIL	www.redemet.aer.mil.br
CHILE	
COLOMBIA	www.aerocivil.gov.co
ECUADOR	www.dgac.gov.ec
GUYANA/GUIANA	
GUYANA FRANCESA/ FRENCH GUIANA	
PANAMA	
PARAGUAY	www.meteorologia.gov.py
PERU	www.corpac.gob.pe
SURINAME	
URUGUAY	
VENEZUELA	www.meteorologia.mil.ve

Table 3-1. Aeronautical meteorological information supplied to ATS units

Information	*Distributor*	*Destination*	*Frequency*	*Communications means*
METAR and local routine reports with trend forecast*, as required	Aeronautical MET station [trend forecast prepared by MET office]	TWR APP ACC FIC COM station	Hourly**	See Note 1 See Note 1 See Note 1 See Note 1 See Note 2
SPECI and local special reports with trend forecast*, as required	Aeronautical MET station [trend forecast prepared by MET office]	TWR APP ACC FIC COM station	When warranted	See Note 1 See Note 1 See Note 2 See Note 2 See Note 2
TAF	MET office	TWR APP ACC FIC COM station	Every 3 or 6 hours	See Note 1 See Note 1 See Note 1 or 2 See Note 1 or 2 See Note 2
Aerodrome warnings	MET office	TWR APP COM station Aerodrome services	When warranted	See Note 1 See Note 1 or 2 See Note 2
Upper wind and temperature forecasts	MET office and/or MWO (data to be obtained through the WAFS)	ACC FIC	Every 6 hours (if required)	See Note 2 See Note 2
Significant en-route weather forecast	MET office and/or MWO (data to be obtained through the WAFS)	ACC FIC	Every 6 hours	See Note 2
SIGMET and AIRMET	MWO	TWR APP ACC FIC COM station	When warranted	See Note 1 See Notes 1 and 2 See Notes 1 and 2 See Notes 1 and 2 See Note 2
Wind shear warnings and alerts	MET office	TWR APP	When warranted	See Note 1 See Note 1
Tropical cyclone advisory	TCAC/MWO	ACC FIC	When warranted	See Notes 1 and 2
Volcanic ash advisory	VAAC/MWO	ACC FIC	When warranted	See Notes 1 and 2
Information on accidental release of radioactive material, i.e. location of the accident and forecast trajectories of the radioactive material	MWO (normally, the information obtained from the WMO RMSC concerned)	ACC FIC	When warranted	See Notes 1 and 2
Information on volcanic eruptions and volcanic ash for which a SIGMET has not yet been issued.	MWO VAAC	TWR APP ACC FIC	When warranted	

* Trend forecasts to be added to local reports and METAR/SPECI for those stations so identified in the air navigation plan.
** Or half-hourly if so decided by regional air navigation agreement.

Note 1.— Communications by intranet, closed-circuit TV, video display unit, or similar. If none of these are available, or during unserviceability periods, communications by phone, followed if possible by confirmation by other means.

Note 2.— Communications by teleprinter.

FORMATO PARA INTERCAMBIO OPMET / FORMAT FOR OPMET EXCHANGE													
Período/Period: 10 - 16 de junio / June													
REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:			
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED										
			METAR (SA)			TAF (FT)							
Aeródromo/Aerodrome	Ind. de Lugar/ Loc. Ind.	Requerimiento OPMET[1]	Previsto/ Foreseen[2]	Rrecibido/ Received	Eficiencia/ Efficiency %	Previsto/ Foreseen[2]	Rrecibido/ Received	Eficiencia/ Efficiency %	SP	WS	WC	WV	UA
CAR													
ANGUILLA (U.K.)													
The Valley	TQPF												
ANTIGUA AND BARBUDA													
Saint Johns	TAPA												
ARUBA (Netherlands)													
Oranjestad	TNCA												
BAHAMAS													
Freeport	MYGF												
George Town	MYEG												
Nassau	MYNN												
Rock sound	*MYER*												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
BARBADOS													
Bridgetown	TBPB												
BELIZE													
Belize	MZBZ												
CAYMAN IS. (U.K.)													
Cayman Brac	MWCB												
Georgetown	MWCR												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
COSTA RICA													
Alajuela	MROC												
Liberia	MRLB												
Limón	MRLM												
Pavas	MRPV												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
CUBA													
Camaguey	MUCM												
Cayo Coco Intl./Jardines del Rey	*MUCC*												
Cayo Largo del Sur/Vilo Acuña Intl	MUCL												
Ciego de Avila	MUCA												
Habana	MUHA												
Holguin	MUHG												
Santiago de Cuba	MUCU												
Varadero	MUVR												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
DOMINICA														
Melville Hall	TDPD													
Roseau	TDPR													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
DOMINICAN REPUBLIC														
Barahona	MDBH													
Herrera	MDHE													
La Romana	MDLR													
Puerto Plata	MDPP													
Punta Cana	MDPC													
Santiago	MDST													
Santo Domingo	MDSD													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
EL SALVADOR														
San Salvador/El Salvador Intl.	MSLP													
San Salvador/Ilopango Intl.	MSSS													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
FRENCH ANTILLES (France)														
Fort-de-France	TFFF													
Pointe-a-Pitre*	TFFR													
Saint Barthelemy	TFFJ													
Saint Martin	TFFG													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
*TAF issued on request by the Pointe-a-Pitre MET Office/TAF emitido por la Oficina MET de Pointe-a-Pitre a solicitud														
GRENADA														
Lauriston	TGPZ													
Saint Georges	TGPY													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
GUATEMALA														
Guatemala	MGGT													
Puerto Barrios	MGPB													
San José	MGSJ													
Tikal	*MGTK*													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
HAITI														
Cap Haitien	MTCH													
Port-au-Prince	MTPP													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:			
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED										
			METAR (SA)			TAF (FT)							
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
HONDURAS													
La Ceiba	MHLC												
Croxen Hole	MHRO												
San Pedro Sula	MHLM												
Tegucigalpa	MHTG												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
JAMAICA													
Kingston	MKJP												
Montego Bay	MKJS												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
MEXICO													
Acapulco	MMAA												
Aguascalientes	*MMAS*												
Bahias de Huatulco	MMBT												
Campeche	MMCP												
Cancun	MMUN												
Chetumal	MMCM												
Chihuahua	MMCU												
Ciudad Del Carmen	*MMCE*												
Ciudad Juarez	MMCS												
Ciudad Obregón	*MMCN*												
Ciudad Victoria	*MMCV*												
Cozumel	MMCZ												
Culiacan	MMCL												
Durango	MMDO												
Guadalajara	MMGL												
Guaymas	MMGM												
Hermosillo	MMHO												
Ixtapa-Zihuatanejo	MMZH												
La Paz	MMLP												
Leon	MMLO												
Loreto	MMLT												
Manzanillo	MMZO												
Matamoros	MMMA												
Mazatlan	MMMZ												
Merida	MMMD												
Mexicali	MMML												
Mexico	MMMX												
Monterrey/Del Norte Intl.	MMAN												

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
Monterrey/Gral.Mariano Escobedo	MMMY												
Morelia	MMMM												
Nogales	MMNG												
Nuevo Laredo	MMNL												
Oaxaca	*MMOX*												
Piedras Negras	MMPG												
Puerto Escondido Intl	*MMPS*												
Puerto Vallarta	MMPR												
Reynosa	MMRX												
San Felipe	MMSF												
San Jose del Cabo	MMSD												
San Luis Potosi	*MMSP*												
Tampico	MMTM												
Tapachula	MMTP												
Tijuana	MMTJ												
Toluca	MMTO												
Torreón	MMTC												
Veracruz	MMVR												
Villahermosa	MMVA												
Zacatecas	MMZC												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
MONTSERRAT I. (U.K.)													
Plymouth	TRPM												
NETHERLAND ANTILLES (Netherlands)													
Kralendijk	TNCB												
Oranjestad	TNCE												
Philipsburg	TNCM												
Willemstad	TNCC												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
NICARAGUA													
Managua	MNMG												
Puerto Cabezas	MNPC												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
PUERTO RICO (US)													
Aguadilla	TJBQ												
Fajardo	*TJFA*												
Mayaguez/Eugenio María de Hostos	*TJMZ*												
Ponce	TJPS												
Rooseevelt Roads Was	*TJNR*												

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
San Juan	TJSJ												
Vieques	*TJVQ*												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
SAINT KITTS AND NEVIS													
Basseterre	TKPK												
Charlestown	TKPN												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
SAINT LUCIA													
Castries	TLPC												
Vieux-Fort	TLPL												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
ST. VINCENT & GREN.													
Kingstown	TVSV												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
TRINIDAD AND TOBAGO													
Port-of-Spain	TTPP												
Scarborough	TTCP												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
TURKS AND CAICOS IS.(UK)													
Grand Turk	MBGT												
Providenciales	MBPV												
South Caicos	MBSC												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
VIRGIN ISLANDS (U.K.)													
Roadtown	TUPJ												
Virgin Gorda I.	TUPW												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
VIRGIN ISLANDS (U.S.)													
Christiansted	TISX												
Saint Thomas	TIST												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	Ind. de Lugar/ Loc. Ind.	Requerimiento OPMET[1]	Previsto/ Foreseen[2]	Rrecibido/ Received	Eficiencia/ Efficiency %	Previsto/ Foreseen[2]	Rrecibido/ Received	Eficiencia/ Efficiency %	SP	WS	WC	WV	UA
SAM														
ARGENTINA														
Buenos Aires/Aeroparque Jorge Newberry	SABE													
Buenos Aires/Ezeiza Ministro Pistarini	SAEZ													
Buenos Aires/San Fernando	SADF													
Cataratas del Iguazú	SARI													
Comodoro Rivadavia	SAVC													
Córdoba	SACO													
Formosa	SARF													
Jujuy	SASJ													
Mar de Plata	SAZM													
Mendoza	SAME													
Neuquen	SAZN													
Posadas	SARP													
Resistencia	SARE													
Rio Gallegos	SAWG													
Rio Grande	SAWE													
Rosario	SAAR													
Salta	SASA													
San Carlos de Bariloche	SAZS													
Tucuman	SANT													
Ushuaia	SAWH													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
BOLIVIA														
Cobija	*SLCO*													
Cochabamba	SLCB													
El Trompillo	*SLET*													
La Paz	SLLP													
Potosi	*SLPO*													
Puerto Suarez	*SLPS*													
Viru Viru	SLVR													
Sucre	*SLSU*													
Tarija	SLTJ													
Trinidad	SLTR													
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!						
BRAZIL														
Belém	SBBE													
Belo Horizonte	SBCF													
Boa Vista	SBBV													

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
Brasilia	SBBR												
Campinas	SBKP												
Campo Grande	SBCG												
Corumba	SBCR												
Cruzeiro do Sul	SBCZ												
Cuiaba	SBCY												
Curitiba	SBCT												
Florianapolis	SBFL												
Fortaleza	SBFZ												
Foz do Iguacu	SBFI												
Macapá	SBMQ												
Maceió	SBMO												
Manaus	SBEG												
Natal	SBNT												
Ponta Porá	SBPP												
Porto Alegre	SBPA												
Recife	SBRF												
Rio de Janeiro	SBGL												
Salvador	SBSV												
Santarem	SBSN												
Sao Luis	SBSL												
Sao Paulo	SBGR												
Tabatinga	SBTT												
Uruguaiana	SBUG												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
CHILE													
Antofagasta	SCFA												
Arica	SCAR												
Balmaceda	*SCBA*												
Calama	*SCCF*												
Concepción	SCIE												
Iquique	SCDA												
La Serena	*SCSE*												
Osorno	*SCJO*												
Puerto Montt	SCTE												
Punta Arenas	SCCI												
Santiago/Arturo Merino Benitez	SCEL												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
COLOMBIA													
Barranquilla	SKBQ												
Bucaramanga	*SKBG*												
Cali	SKCL												
Cartagena	SKCG												
Cucuta	SKCC												
Leticia	SKLT												
Pereira	*SKPE*												
Rionegro	SKRG												
San Andrés I.	SKSP												
Santa Fe de Bogota	SKBO												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
ECUADOR													
Guayaquil	SEGU												
Latacunga	SELT												
Manta	SEMT												
Quito	SEQU												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
FRENCH GUIANA (France)													
Cayenne	SOCA												
GUYANA													
Timehri	SYCJ												
PANAMA													
David	MPDA												
Panamá/Marco A. Gelabert	MPMG												
Panamá/Tocumen	MPTO												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
PARAGUAY													
Asuncion	SGAS												
Ciudad del Este	SGES												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
PERU													
Andahuaylas	*SPHY*												
Arequipa	SPQU												
Ayacucho	*SPHO*												
Chiclayo	SPHI												
Cuzco	SPZO												
Iquitos	SPQT												
Juliaca	*SPJL*												

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
Lima-Callao	SPIM												
Pisco	SPSO												
Puerto Maldonado	*SPTU*												
Tacna	SPTN												
Talara	*SPYL*												
Trujillo	SPRU												
Tumbes	*SPME*												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
SURINAME													
New Nickerie	SMNI												
Paramaribo	SMZO												
Zandery	SMJP												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
URUGUAY													
Colonia	SUCA												
Maldonado	SULS												
Montevideo/Angel S.	SUAA												
Montevideo/Carrasco Intl.	SUMU												
Rivera	SURV												
Salto	SUSO												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					
VENEZUELA													
Acarigua	*SVAC*												
Barcelona	SVBC												
Barinas	*SVBI*												
Barquisimeto	*SVBM*												
Calabozo	*SVCL*												
Caracas/B.A. Gen. F. de Miranda	*SVFM*												
Caracas/Simón Bolívar	SVMI												
Ciudad Bolivar	*SVCB*												
Coro	*SVCR*												
Cumana	*SVCU*												
Guanare	*SVGU*												
Guiria	*SVGI*												
Higuerote	*SVHG*												
Maracaibo	SVMC												
Margarita	SVMG												
Maturin	*SVMT*												
Merida	*SVMD*												

REGION			ESTADO/STATE:			AFTN:		FAX:		E-mail:				
			MENSAJES METEOROLÓGICOS RECIBIDOS/METEOROLOGICAL MESSAGES RECEIVED											
			METAR (SA)			TAF (FT)								
Aeródromo/Aerodrome	**Ind. de Lugar/ Loc. Ind.**	**Requerimiento OPMET[1]**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**Previsto/ Foreseen[2]**	**Rrecibido/ Received**	**Eficiencia/ Efficiency %**	**SP**	**WS**	**WC**	**WV**	**UA**
Paraguana	SVJC												
Puerto Ayacucho	*SVPA*												
San Antonio del Táchira	SVSA												
San Fernando de Apure	*SVSR*												
San Juan de los Morros	*SVJM*												
Santo Domingo	*SVSO*												
Tumeremo	*SVTM*												
Valencia A45	SVVA												
Valle de la Pascua	*SVVP*												
PROMEDIO/AVERAGE					#DIV/0!			#DIV/0!					

1. Tabla MET 2B: F = METAR/SPECI + TAF; T = TAF
2. Solamente los recibidos con tiempos de tránsito de 10 minutos o menos (ver anexo 3, Apn. 10, par. 1.1) / Only those received with 10 minutes or less of traffic time (see Annex 3, App. 10, par. 1.1).

Periods of the comparative study of OPMET messages availability in the Brasilia International OPMET Data Bank.

- 10 to 16 March 2007
- 10 to 16 June 2007
- 10 to 16 September 2007
- 10 to 16 November 2007
- 10 to 16 March 2008
- 10 to 16 June 2008
- 10 to 16 September 2008
- 10 to 16 September 2008
- 10 to 16 March 2009
- 10 to 16 June 2009

Table with the availability of METAR OPMET Bank in Brasilia

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Region SAM												
Argentina												
SAAR	H–24	168	2	1	0	3	164	157	158	153	160	158
SABE	H–24	168	143	160	138	134	116	165	158	150	126	153
SACO	H–24	168	162	167	167	162	167	167	168	158	163	168
SADF	H–24	168	1	0	0	2	131	156	119	69	0	159
SAEZ	H–24	168	161	165	2	126	165	158	163	154	160	153
SAME	H–24	168	160	167	163	160	165	165	167	157	159	164
SANT	H–24	168	152	163	167	162	166	164	164	153	159	164
SARE	H–24	168	165	168	168	162	167	167	166	160	162	166
SARF	H–24	168	161	168	168	162	167	167	166	159	163	167
SARI	H–24	168	161	165	166	161	167	166	165	156	162	167
SARP	H–24	168	162	168	168	162	167	167	165	156	163	167
SASA	H–24	168	156	166	166	162	163	166	154	156	149	166
SASJ	H–24	168	158	167	161	154	166	168	166	157	160	168
SAVC	H–24	168	160	166	39	144	166	167	166	152	161	168
SAWG	H–24	168	154	167	167	158	166	166	167	159	162	167
SAWH	H–24	168	146	130	149	125	155	151	142	134	153	157
SAZM	H–24	168	147	155	151	133	154	157	157	150	159	152
SAZN	H–24	168	1	1	0	3	110	146	143	140	139	153
SAZS	H–24	168	0	2	2	4	99	133	120	104	109	152
Bolívia												
SLCB	H–24	168	167	165	163	162	164	163	164	158	164	164
SLET	1000/2200	91	3	1	2	0	0	0	0	91	97	96
SLLP	1000/2300	98	166	164	165	167	168	165	167	158	165	166
SLPO	H–24	168	1	0	1	1	2	0	0	29	0	0
SLPS	H–24	168	3	1	3	0	2	0	0	77	82	83
SLSU	1000/2300	98	2	1	4	1	2	0	0	90	97	96
SLTJ	1000/2300	98	99	97	96	93	91	93	13	91	96	97
SLTR	1000/2300	98	99	100	99	101	101	99	0	97	102	103
SLVR	0900/2300	105	167	165	165	144	165	164	161	157	165	166
Chile												
SCAR	H–24	168	160	166	165	151	165	167	164	155	165	168
SCBA	H–24	168	63	164	69	59	163	166	167	156	165	94
SCCF	*HR**	112	107	114	112	104	112	111	113	102	109	114
SCCI	H–24	168	144	162	157	144	153	163	162	153	164	166
SCDA	H–24	168	159	167	165	153	166	167	165	155	166	168
SCEL	H–24	168	160	167	165	153	166	167	165	155	165	168
SCFA	H–24	168	160	167	165	152	166	165	157	155	166	168
SCIE	H–24	168	159	157	160	149	160	167	166	155	166	168
SCIP	1200/0300	112	103	108	109	101	110	110	111	97	109	108
SCJO	*IVNO 1230/0015; VRNO 1130/2315*	84	77	73	88	83	93	83	68	65	79	70
SCSE	H–24	168	160	166	165	152	165	166	166	154	164	166
SCTC	H–24	168	159	160	151	148	163	165	166	155	166	165
SCTE	H–24	168	153	151	159	150	155	167	164	153	166	168

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
** - IVNO: MON-FRI 1100/0315, SAT 1100/2315, SUN 1300/0315. VRNO: MON-FRI 1000/0215, SAT 1000/2215, SUN 1200/0215*												
Colômbia												
SKBG	1100/0400	126	91	87	89	89	85	119	121	122	122	122
SKBO	H–24	168	165	158	163	165	162	162	164	165	160	161
SKBQ	H–24	168	164	158	166	165	159	163	161	163	156	162
SKCC	1100/2300	84	90	85	91	89	82	90	86	87	87	84
SKCG	H–24	168	163	158	159	162	157	163	164	164	165	159
SKCL	H–24	168	167	160	166	166	157	161	163	161	156	153
SKLT	1100/2300	84	84	81	89	86	80	91	91	91	90	86
SKPE	H–24	168	123	115	122	115	117	117	112	114	114	108
SKRG	H–24	168	166	161	164	167	161	164	163	164	165	160
SKSP	1100/0500	133	125	121	128	124	117	130	120	126	125	126
Equador												
SEGU	H–24	168	153	159	160	165	157	161	164	161	163	164
SELT	1100/0500	133	131	131	131	133	123	126	129	130	132	127
SEMT	H-24	168	142	149	153	162	147	157	160	161	147	157
SEQU	H–24	168	161	163	166	166	163	165	163	160	165	163
Guiana												
SYCJ	H-24	168	0	0	142	10	126	0	0	0	132	0
Guiana Francesa												
SOCA	H-24	168	34	157	158	161	34	143	165	168	34	162
Panamá												
MPDA	1100/2300	91	40	27	31	51	60	57	0	0	0	67
MPMG	1100/0100	105	75	73	68	65	84	79	0	0	0	80
MPTO	H–24	168	145	150	157	152	147	155	0	0	0	134
Paraguai												
SGAS	H–24	168	156	166	168	151	157	168	165	158	165	166
SGES	0900/0000 e 0300/0600	140	107	111	112	107	129	132	134	120	136	129
Peru												
SPCL	1200/0600	133					3	0	4	1	1	0
SPGM	1300/2100	63					2	0	0	0	2	2
SPHO	1000/2300	98	0	0	2	1	96	98	97	98	98	96
SPHY	1000/1800	63	1	0	0	1	56	63	62	63	62	63
SPIM	H–24	168	168	168	168	168	167	168	168	168	168	167
SPJI	1300/2100	63					2	0	0	1	0	1
SPJL	1100/0000	98	2	0	1	1	96	97	98	98	97	97
SPJR	11002300	91					3	0	1	2	1	0
SPLO	1300/2100	63					1	0	0	1	1	1
SPME	1200/2400	110	0	0	1	1	110	91	118	118	118	117
SPMS	1300/2100	63					2	0	0	0	0	0
SPQT	H–24	168	168	168	168	165	166	168	168	168	167	166
SPQU	H–24	168	168	168	168	167	167	168	168	168	168	167
SPRU	H-24	168	91	91	91	91	156	168	168	168	167	167

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
SPSO	H–24	168	168	168	168	167	167	168	168	168	168	167
SPST	1100/0300	119					2	0	2	0	3	2
SPTN	H-24	168	117	119	119	118	118	161	167	168	167	167
SPTU	1100/2300	91	2	0	1	1	89	91	91	91	90	90
SPYL	1500/2300	63	2	0	2	3	53	59	57	54	53	62
SPZO	H–24	168	168	168	168	168	167	168	168	168	168	167
Suriname												
SMJP	H–24	168	86	0	130	118	119	106	94	129	123	144
SMNI	0900/0000	112	61	0	79	68	68	77	53	95	93	102
SMZO	0900/0000	112	61	0	89	78	79	80	62	98	95	102
Uruguai												
SUAA	1000/2200	91	86	65	86	92	84	84	42	79	91	81
SUCA	1000/2200	91	32	23	20	22	22	11	27	48	91	6
SULS	H–24	168	122	87	124	122	150	157	82	6	168	160
SUMU	H–24	168	164	116	164	167	164	163	93	158	168	167
SURV	1000/2200	91	0	0	0	0	0	0	0	0	91	0
SUSO	1000/2200	91	0	0	0	0	0	0	0	5	91	0
Venezuela												
SVAC	H–24	168	3	0	87	92	77	84	56	79	79	81
SVBC	H–24	168	163	62	0	153	146	142	147	158	140	161
SVBI	H–24	168	2	0	85	85	55	45	33	62	60	82
SVBM	*1000/0400*	133	1	0	126	125	117	123	126	125	108	129
SVCB	H–24	168	1	0	106	118	36	91	75	82	66	73
SVCL	H–24	168	2	0	38	85	14	68	63	49	42	40
SVCR	H–24	168	64	64	93	97	86	80	67	86	80	91
SVCU	H–24	168	1	2	0	0	12	0	4	1	1	49
SVFM	H–24	168	0	0	61	45	0	0	2	3	12	14
SVGI	H–24	168	0	0	62	57	0	0	1	4	7	35
SVGU	H–24	168	1	0	79	86	31	39	64	61	55	81
SVJC	1000/2200	91	78	66	84	82	72	74	77	77	78	76
SVJM	H–24	168	1	0	60	62	1	0	0	3	13	52
SVMC	H–24	168	159	143	160	158	95	96	92	86	92	91
SVMD	H–24	168	22	22	74	93	42	45	53	54	70	87
SVMG	H–24	168	159	148	164	160	156	162	150	156	161	163
SVMI	H–24	168	162	150	163	164	165	167	167	166	164	167
SVMT	H–24	168	1	0	26	69	28	19	10	17	43	70
SVPA	H–24	168	1	0	76	76	0	19	36	16	26	35
SVSA	1000/2200	91	74	65	83	90	76	72	76	70	75	85
SVSO	H–24	168	1	0	32	18	35	10	13	11	11	16
SVSR	H–24	168	2	0	55	95	28	12	48	55	81	70
SVTM	H-24	168			0	0	0	0	0	0	0	0
SVVA	1000/0200	119	107	94	105	116	78	81	65	83	80	90
SVVP	H–24	168	2	0	26	28	9	0	30	28	25	3

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Region CAR												
Anguilla												
TQPF	1200/2100	70	59	65	60	69	57	64	39	52	41	64
Antigua e Barbuda												
TAPA	H-24	168	165	165	167	164	144	155	161	150	153	155
Antilhas Francesas												
TFFF	H-24	168	166	168	167	168	167	165	167	167	168	167
TFFR	H-24	168	160	151	152	168	164	86	0	159	161	167
Antilhas Holandesas												
TNCB	1100/0100	105	76	69	82	79	69	42	70	60	51	96
TNCC	H-24	168	164	162	165	165	152	149	158	148	148	156
TNCE	1100/0000	98	27	6	12	1	30	34	48	39	59	64
TNCM	H-24	168	163	163	163	144	142	145	157	147	145	157
Aruba												
TNCA	H-24	168	154	138	148	152	144	147	143	137	137	149
Barbados												
TBPB	H-24	168	162	162	79	165	156.	150	159	147	151	154
Belize												
MZBZ	H-24	168	105	101	0	0	0	0	94	74	90	87
Costa Rica												
MRLB	1200/0200	105	76	73	69	72	97	92	94	89	94	88
MRLM	1200/0000	91	74	73	69	73	82	72	72	68	85	73
MROC	H-24	168	165	164	162	158	167	166	165	151	167	151
MRPV	1200/0000	91	83	72	75	81	82	72	80	73	82	73
Cuba												
MUCA	1100/2300	91	43	46	46	44	0	0	0	0	0	0
MUCC	H-24	168			149	158	0	0	81	150	163	158
MUCL	1100/2300	91	73	77	80	77	0	0	65	75	86	82
MUCM	H-24	168	152	151	157	158	0	0	153	155	164	164
MUCU	H-24	168	146	146	154	159	0	0	141	155	158	159
MUHA	H-24	168	147	144	141	151	0	0	148	152	161	157
MUHG	H-24	168	151	145	154	163	0	0	107	147	162	165
MUVR	H-24	168	154	150	157	162	0	0	153	157	166	164
Dominica												
TDPD	1000/2100	84	88	85	88	0	81	83	86	68	78	81
TDPR	H-24	168	0	0	0	0	0	0	0	0	0	0
El Salvador												
MSLP	H-24	168	166	155	149	158	157	161	158	138	153	153
MSSS	1200/0400	119	131	98	108	121	99	102	90	61	70	88

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Granada												
TGPY	H-24	168	155	146	137	155	133	148	138	129	79	137
TGPZ	H-24	168	0	0	0	0	0	0	0	0	0	0
Guatemala												
MGGT	H-24	168	165	166	166	168	168	166	165	148	168	107
MGPB	H-24	168	160	150	145	154	164	162	150	144	161	94
MGSJ	H-24	168	161	147	145	154	162	162	152	139	157	94
MGTK	H-24	168	161	150	146	155	161	165	153	147	163	81
Haiti												
MTCH	*1200/2300*	84	0	0	0	0	0	0	0	0	0	0
MTPP	*1100/0000*	98	25	22	0	0	7	14	14	15	14	59
Honduras												
MHLC	H-24	168	164	143	159	162	158	155	151	140	164	149
MHLM	H-24	168	128	133	143	149	151	147	150	118	159	143
MHRO	H-24	168	155	77	92	131	89	136	114	82	90	80
MHTG	H-24	168	154	143	141	161	163	157	147	145	158	152
Ilhas Bahamas												
MYEG	H-24	168	1	0	0	0	0	0	0	0	0	0
MYER	H-24	168	0	0	0	0	0	0	0	0	0	0
MYGF	H-24	168	0	0	0	0	2	0	0	0	0	0
MYNN	H-24	168	2	0	0	0	27	141	139	133	150	149
Ilhas Cayman												
MWCB	1200/1900	56	1	0	0	0	0	0	0	0	0	0
MWCR	1100/0300	119	4	0	0	0	0	0	0	0	0	0
Ilhas Turks and Caicos												
MBGT	H-24	168	0	0	0	0	0	0	0	0	0	0
MBPV	H-24	168	0	0	0	0	0	3	0	0	42	0
MBSC	H-24	168	0	0	0	0	0	0	0	0	0	0
Ilhas Virgens (UK)												
TUPJ	1000/0100	112	5	22	67	0	13	20	28	33	43	44
TUPW	H-24	168	0	0	0	0	0	0	0	0	0	0
Ilhas Virgens (USA)												
TIST	*0700/2200*	112	111	110	102	111	93	107	108	95	105	108
TISX	*0600/2300*	126	117	124	125	106	105	118	118	109	117	118
Jamaica												
MKJP	H-24	168	154	152	133	148	157	157	158	144	161	164
MKJS	H-24	168	148	157	145	129	156	137	149	80	160	166
México												
MMAA	H-24	168	164	166	165	167	167	164	167	157	163	167
MMAN	1300/0600	126	103	102	104	104	104	105	105	100	105	104

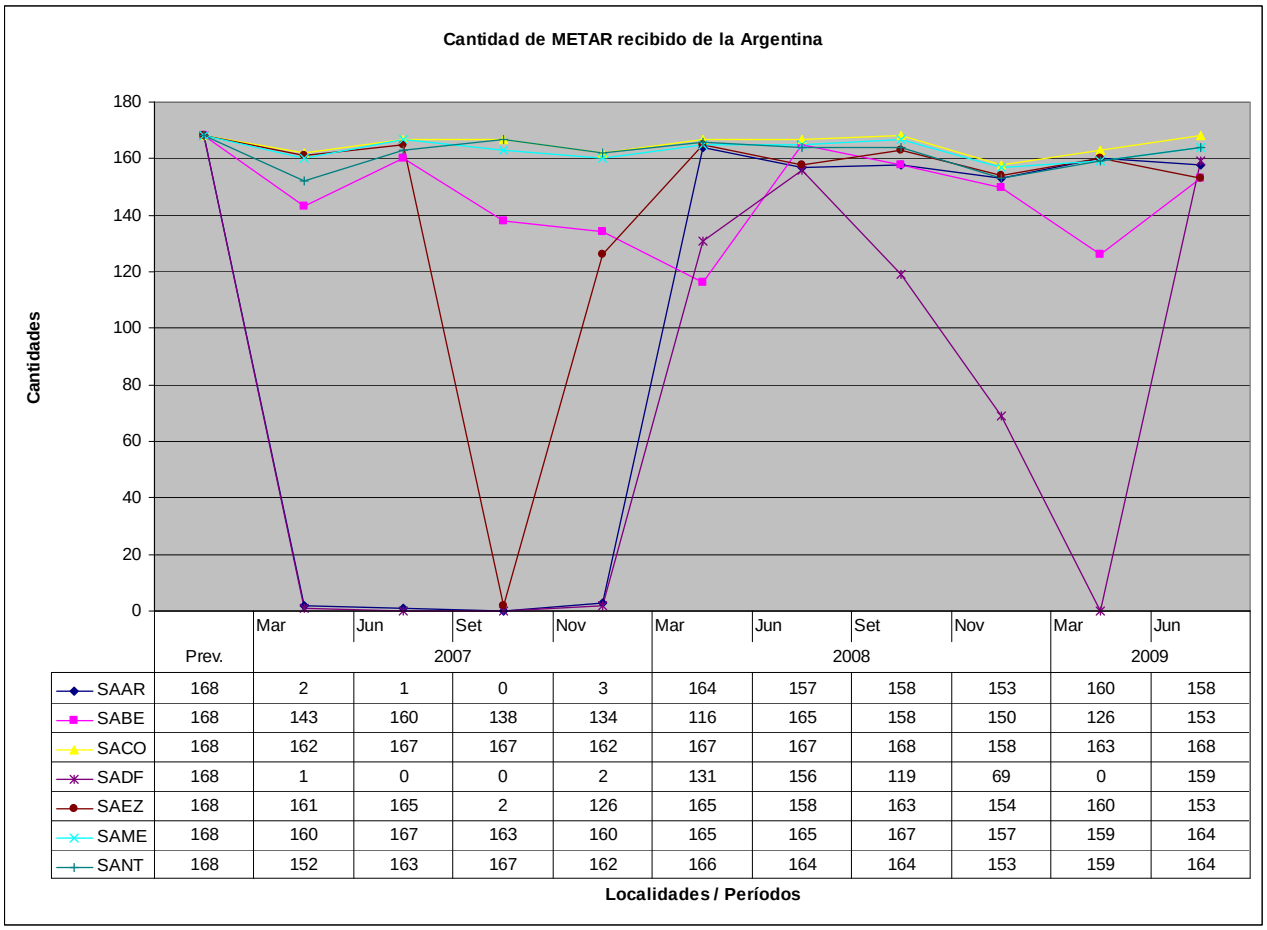
Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
MMAS	1100/0500	133	125	124	126	129	12	9	4	3	8	9
MMBT	1300/0100	91	82	76	73	78	77	71	74	75	80	80
MMCE	1300/0100	91	78	81	78	0	0	77	76	75	79	79
MMCL	1100/0500	133	108	104	106	111	111	105	109	107	110	107
MMCM	1300/0100	91	76	63	67	79	67	78	75	73	74	73
MMCN	1300/0300	105	76	79	72	79	80	87	87	84	88	91
MMCP	1300/0100	91	102	90	93	104	104	97	92	96	96	95
MMCS	1400/0400	105	89	86	88	91	86	87	90	85	88	88
MMCU	1400/0400	105	100	96	97	103	98	98	99	93	95	95
MMCV	1300/0100	91	73	78	75	81	79	80	66	74	73	70
MMCZ	H-24	168	88	88	90	91	89	91	91	88	91	91
MMDO	1200/0200	105	98	94	97	95	98	98	93	91	97	97
MMGL	H-24	168	166	162	163	161	165	160	163	148	160	161
MMGM	1400/0200	91	80	75	71	82	79	81	81	76	80	73
MMHO	1300/0300	105	99	100	105	103	103	100	103	93	101	104
MMLP	1400/0600	119	104	99	77	97	103	85	101	97	103	103
MMLT	1400/0200	91	85	74	63	69	74	72	60	74	77	64
MMMA	1400/0200	91	84	76	82	90	89	82	87	86	87	86
MMMD	H-24	168	167	165	168	168	168	168	165	159	168	167
MMML	1400/0400	105	95	79	94	100	103	102	99	95	99	102
MMMM	1300/0100	91	16	85	83	87	4	3	0	2	1	2
MMMX	H-24	168	168	166	168	168	168	167	165	159	166	168
MMMY	H-24	168	168	165	167	166	164	168	167	156	167	164
MMMZ	H-24	168	166	167	168	167	166	168	167	160	167	167
MMNG	*1400/0200*	91	0	0	0	0	0	0	0	0	0	0
MMNL	1200/0200	105	83	77	74	82	87	77	76	82	84	78
MMOX	1200/0200	105	91	89	91	91	90	91	88	84	90	89
MMPG	1300/0300	105	85	81	80	83	80	78	77	76	81	80
MMPR	H-24	168	158	149	153	162	14	13	10	11	8	10
MMPS	1300/0100	91	89	81	81	91	85	84	85	84	86	83
MMRX	1300/0100	91	90	88	90	89	89	86	85	86	88	86
MMSD	1400/0400	105	84	80	71	82	82	81	81	79	83	83
MMSF	*1400/0100*	84	0	0	0	0	0	0	0	0	0	0
MMSP	H-24	168	87	81	82	88	4	5	0	2	1	3
MMTC	1200/0300	112	99	97	102	103	99	102	100	100	103	98
MMTJ	H-24	168	124	118	124	123	126	125	122	117	122	123
MMTM	1200/0500	126	125	130	129	127	127	124	128	129	127	120
MMTO	H-24	168	163	164	166	168	166	168	163	154	164	163
MMTP	1300/0000	84	82	78	82	83	81	83	82	77	82	83
MMUN	H-24	168	92	89	91	91	91	90	91	87	91	89
MMVA	1300/0300	105	111	107	111	110	110	108	107	105	107	110
MMVR	H-24	168	91	89	90	91	88	89	91	88	90	91
MMZC	H-24	168	86	85	87	90	6	3	5	6	4	3
MMZH	1300/0300	105	93	89	93	97	98	90	89	90	97	90
MMZO	1200/0200	105	81	82	80	80	2	5	2	3	4	3

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Montserrat												
TRPG	1000/2200	91					85	89	88	91	0	0
Nicarágua												
MNMG	H-24	168	161	162	162	159	162	157	156	143	167	159
MNPC	1200/0000	91	49	47	61	51	55	70	68	78	63	59
Porto Rico												
TJBQ	H-24	168	143	143	148	141	115	104	86	75	132	82
TJMZ	H-24	168	54	0	0	0	0	0	59	56	40	38
TJPS	H-24	168	51	40	59	46	28	51	29	41	0	24
TJSJ	H-24	168	167	162	166	165	145	152	159	145	152	153
República Dominicana												
MDBH	1200/0000	91	86	87	87	81	87	89	87	38	87	90
MDHE	*1200/0000*	91	0	0	0	0	0	0	0	0	0	0
MDLR	1200/0000	91	78	75	80	75	88	91	90	39	89	91
MDPC	*1200/0000*	91	89	89	91	89	90	90	90	39	90	89
MDPP	*1200/0000*	91	89	88	91	89	89	90	90	39	90	91
MDSD	H-24	168	159	165	168	162	166	166	160	69	167	167
MDST	H-24	168	88	88	91	90	89	89	88	38	89	91
Saint Kitts and Nevis												
TKPK	1200/0100	112	76	0	0	0	89	0	0	0	0	0
TKPN	1100/2300	91	92	0	0	0	57	0	0	0	0	0
Santa Lúcia												
TLPC	1000/0000	105	45	53	37	48	55	35	22	15	31	60
TLPL	H-24	168	140	148	154	136	145	139	153	146	150	147
San Vicente e Grenadinas												
TVSV	1200/0000	91	49	53	72	66	47	59	57	66	67	83
Trinidad e Tobago												
TTCP	H-24	168	107	112	114	110	114	105	101	93	108	99
TTPP	H-24	168	167	165	166	168	166	166	166	168	167	166
Region NAM												
Canadá												
CYMX	H-24	168	168	167	168	168	168	168	167	160	168	168
CYOW	H-24	168	168	165	168	168	168	168	166	159	168	168
CYYZ	H-24	168	168	166	168	168	168	168	167	159	168	168
Estados Unidos												
KATL	H-24	168	167	165	168	166	141	157	160	148	155	153
KBWI	H-24	168	167	164	167	165	141	156	161	148	153	152
KDFW	H-24	168	167	165	168	166	139	157	160	147	154	153
KDTW	H-24	168	167	165	168	165	139	156	160	143	154	153
KEWR	H-24	168	167	166	165	165	141	156	162	147	154	153

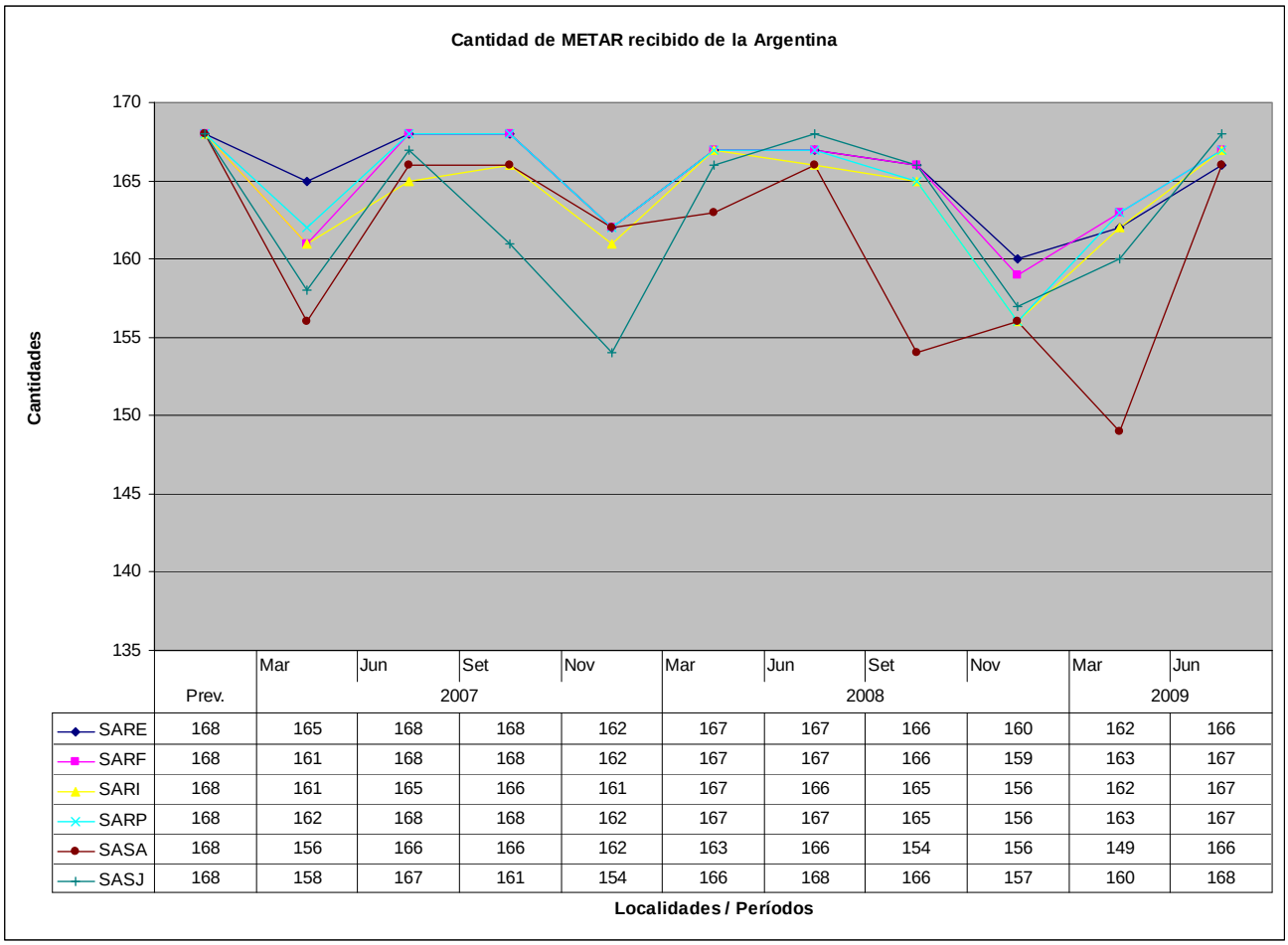
Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
KFAT	H-24	168	0	1	3	0	0	0	0	0	0	0
KFLL	H-24	168	167	165	168	165	139	157	161	147	154	153
KIAH	H-24	168	167	165	162	163	139	156	151	147	154	153
KIND	H-24	168	167	165	168	165	140	156	161	147	154	152
KJFK	H-24	168	167	165	164	165	141	156	161	147	154	151
KLAS	H-24	168	167	165	168	164	140	156	161	146	154	152
KLAX	H-24	168	167	165	68	165	141	154	161	146	154	152
KMIA	H-24	168	156	163	164	161	136	153	151	119	139	147
KMKE	H-24	168	0	1	5	2	0	0	0	0	0	0
KMSY	H-24	168	140	157	163	153	125	149	132	100	101	0
KONT	H-24	168	126	148	150	129	102	143	123	90	100	111
KORD	H-24	168	127	148	152	126	100	142	123	85	100	110
KORL	H-24	168	0	0	3	0	0	0	0	0	0	110
KPBI	H-24	168	124	148	151	124	98	142	123	89	100	0
KPHL	H-24	168	126	148	149	127	98	142	123	90	101	111
KPHX	H-24	168	126	148	152	127	99	142	122	90	100	109
KSAN	H-24	168	126	148	152	126	104	144	123	89	102	111
KSAT	H-24	168	0	0	6	0	0	0	0	0	0	0
KSFO	H-24	168	128	147	152	125	98	142	123	91	100	109
KTPA	H-24	168	126	148	149	128	98	143	123	91	100	110
KTUS	H-24	168	0	0	5	0	0	0	0	0	0	0
Region NAT **Bermudas**												
TXKF	H-24	168	166	157	82	167	165	59	1	0	2	0
Region AFI **África do Sul**												
FABL	H-24	168				0	165	151	73	134	164	140
FACT	H-24	168				0	158	155	73	138	164	138
FADN	H-24	168				0	153	155	73	137	165	140
FAGE	H-24	168				0	0	0	0	0	0	0
FAGG	H-24	168				0	0	0	72	136	161	140
FAJS	H-24	168				0	164	154	72	134	165	139
FAME	H-24	168				0	0	0	0	0	0	0
FAMM	H-24	168				0	0	0	0	1	0	140
FAOB	H-24	168				0	0	0	0	0	0	0
FATC	H-24	168				0	0	0	0	0	0	0
FAUP	H-24	168				0	165	154	72	115	165	140
FAWK	H-24	168				0	0	0	0	0	0	0
Botswana												
FBSK	H-24	168				0	0	0	0	0	2	0
Cabo Verde												
GVAC	H-24	168	161	163	162	159	157	168	158	160	156	158
Costa do Marfim												
DIAP	H-24	168	1	3	8	0	154	168	0	166	0	0

Local	Horário de Func.	Prev.	2007				2008				2009	
			Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Ilha Ascención												
FHAW	H-24	168				84	77	91	114	92	83	88
Namíbia												
FYWH	H-24	168				0	0	0	0	0	0	0
República do Guiné												
GUCY	H-24	168	0	111	88	61	71	168	79	92	100	75
Senegal												
GOOY	H-24	168	1	4	3	2	154	168	0	165	0	0
Serra Leoa												
GFLL	H-24	168	0	87	73	84	99	168	71	85	65	0
Region PAC												
Polinésia Francesa												
NTAA	H-24	168	165	166	167	168	158	156	156	148	150	154
NTTG	H-24	168	0	0	0	0	0	0	0	0	0	0

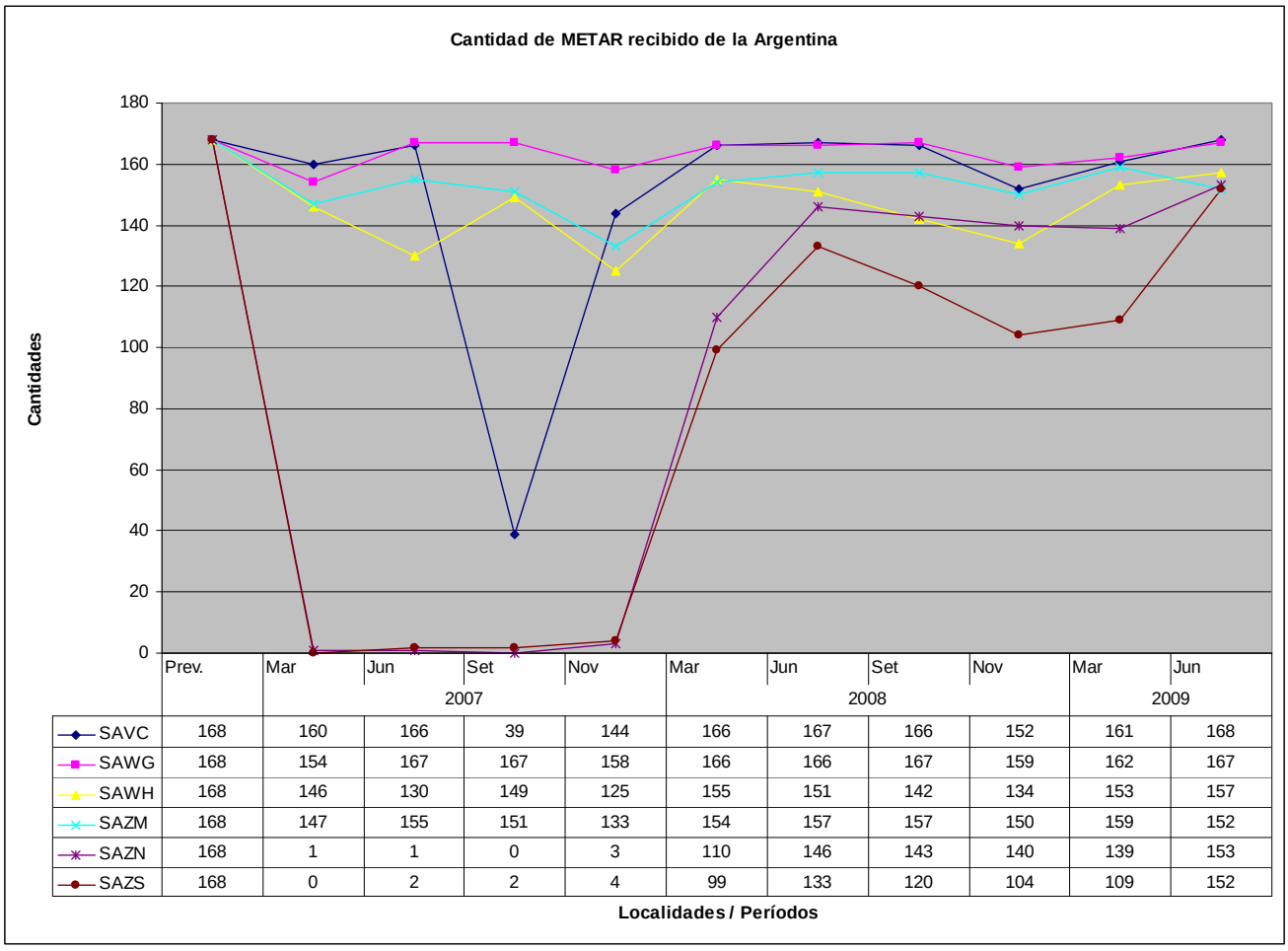
Note: 1) Hours of operation were reported by ICAO.
2) The hours of operation in italics were obtained in the AIP of the respective States.
3) [ ] It not provides for the exchange of METAR during the period..



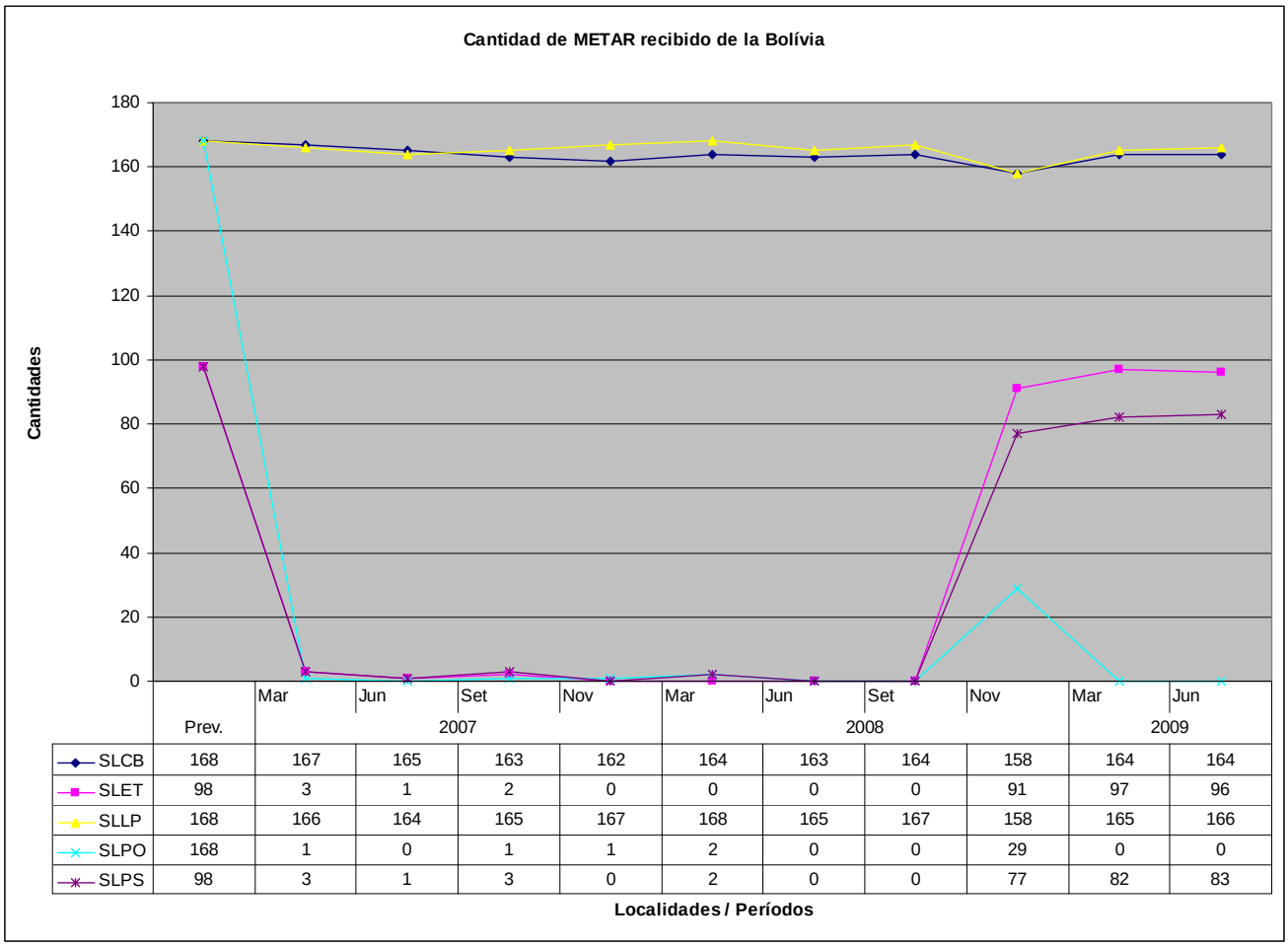
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SAAR	168	2	1	0	3	164	157	158	153	160	158
SABE	168	143	160	138	134	116	165	158	150	126	153
SACO	168	162	167	167	162	167	167	168	158	163	168
SADF	168	1	0	0	2	131	156	119	69	0	159
SAEZ	168	161	165	2	126	165	158	163	154	160	153
SAME	168	160	167	163	160	165	165	167	157	159	164
SANT	168	152	163	167	162	166	164	164	153	159	164



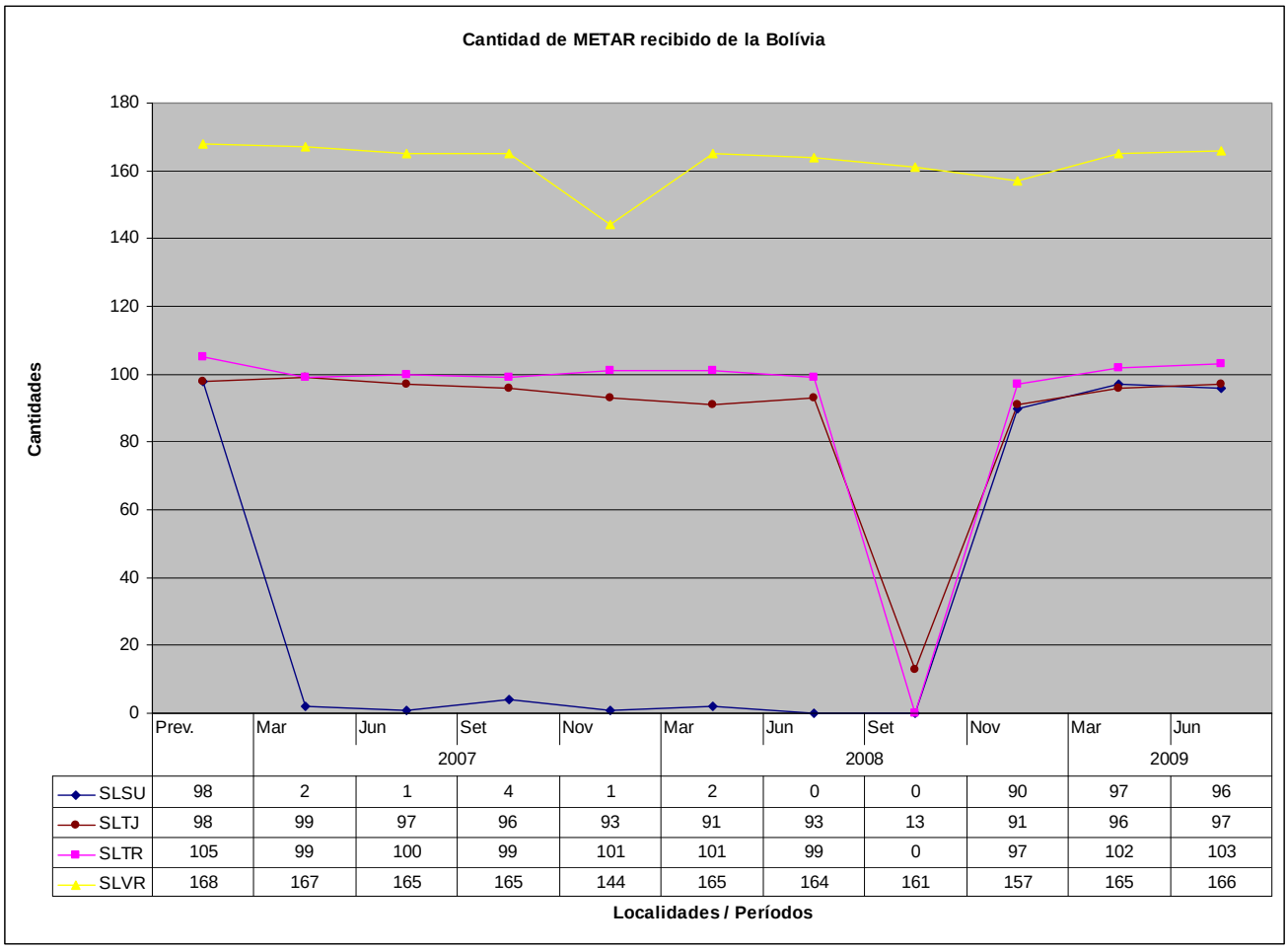
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SARE	168	165	168	168	162	167	167	166	160	162	166
SARF	168	161	168	168	162	167	167	166	159	163	167
SARI	168	161	165	166	161	167	166	165	156	162	167
SARP	168	162	168	168	162	167	167	165	156	163	167
SASA	168	156	166	166	162	163	166	154	156	149	166
SASJ	168	158	167	161	154	166	168	166	157	160	168



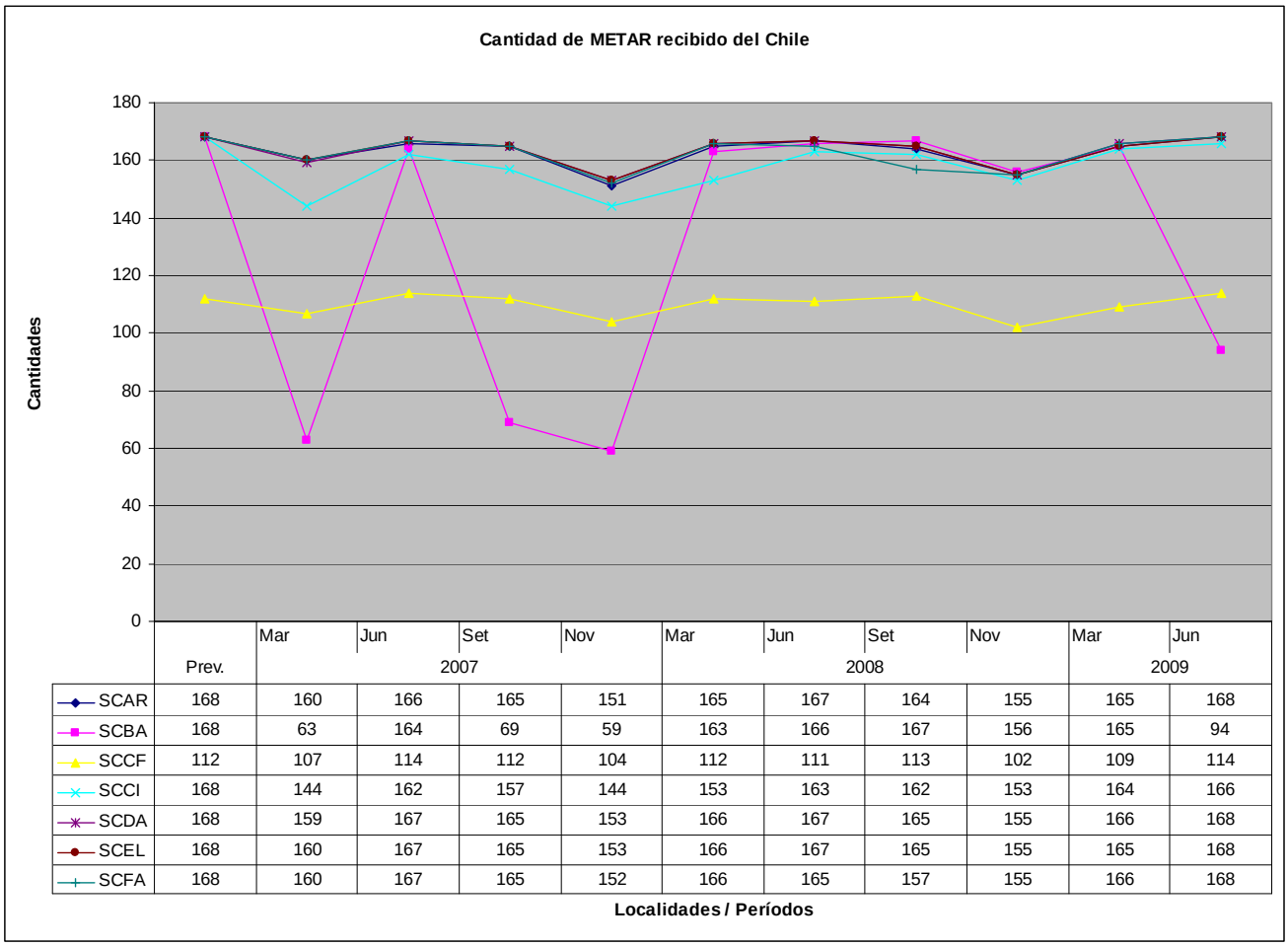
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SAVC	168	160	166	39	144	166	167	166	152	161	168
SAWG	168	154	167	167	158	166	166	167	159	162	167
SAWH	168	146	130	149	125	155	151	142	134	153	157
SAZM	168	147	155	151	133	154	157	157	150	159	152
SAZN	168	1	1	0	3	110	146	143	140	139	153
SAZS	168	0	2	2	4	99	133	120	104	109	152



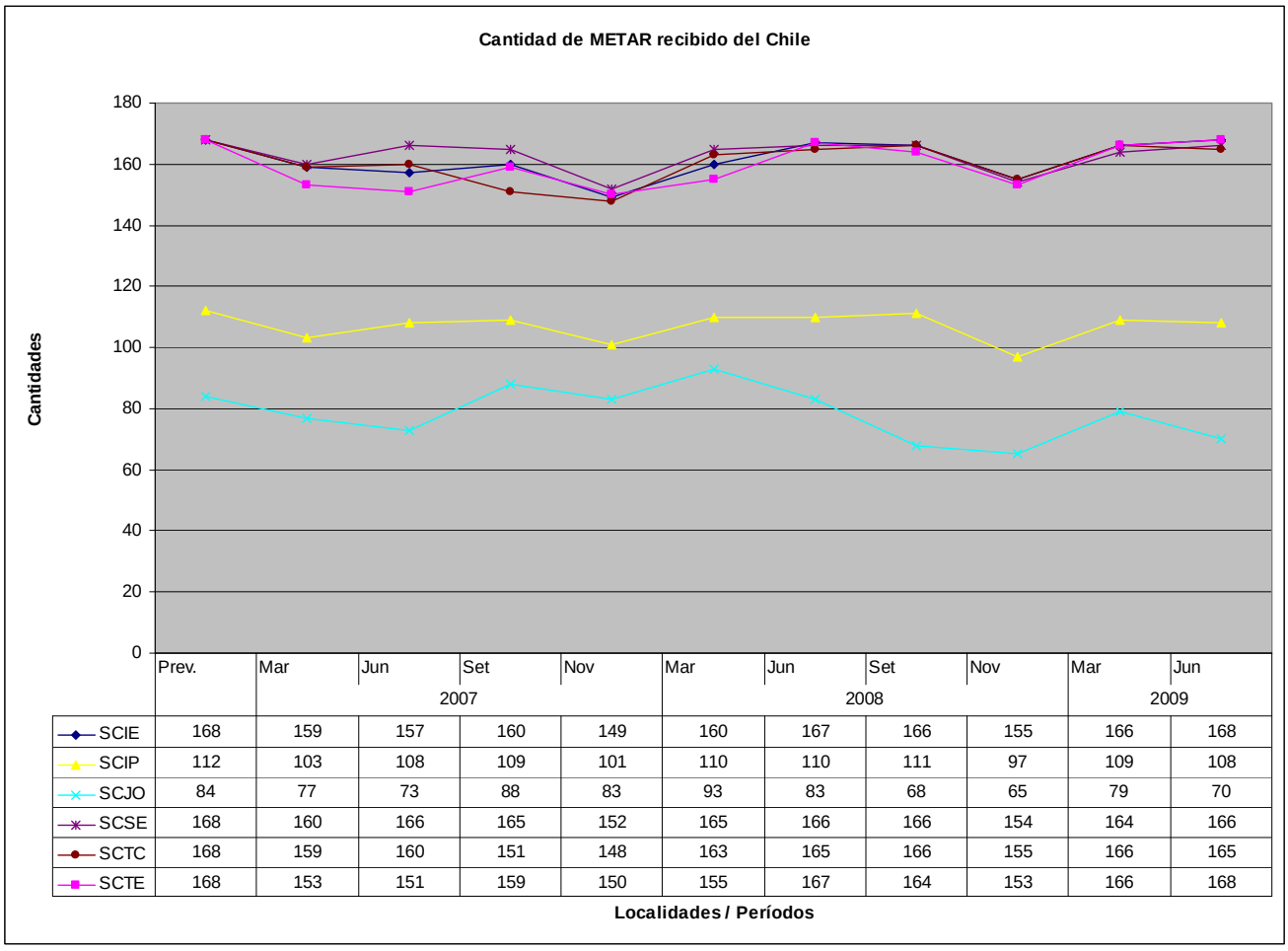
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SLCB	168	167	165	163	162	164	163	164	158	164	164
SLET	98	3	1	2	0	0	0	0	91	97	96
SLLP	168	166	164	165	167	168	165	167	158	165	166
SLPO	168	1	0	1	1	2	0	0	29	0	0
SLPS	98	3	1	3	0	2	0	0	77	82	83



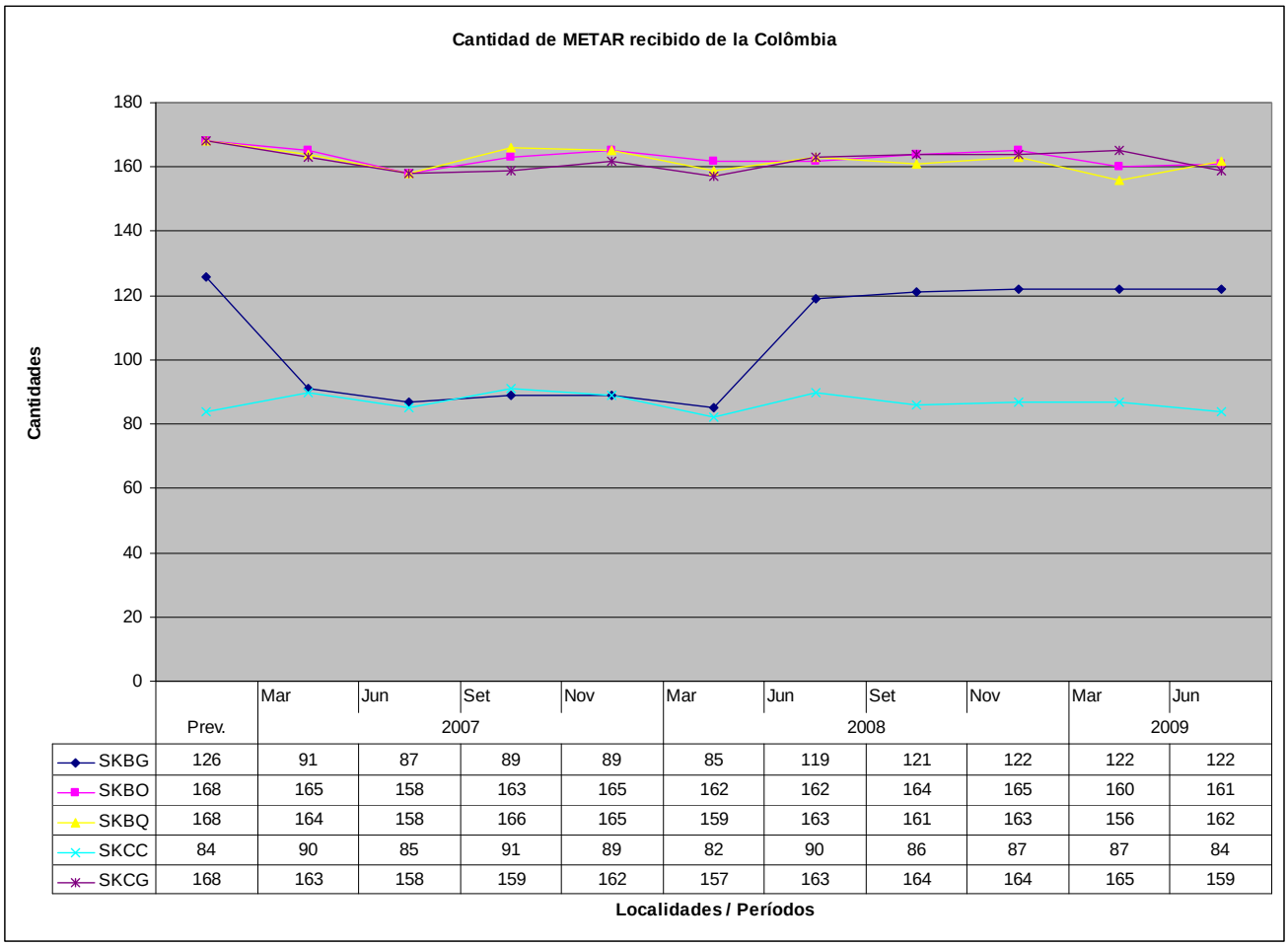
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SLSU	98	2	1	4	1	2	0	0	90	97	96
SLTJ	98	99	97	96	93	91	93	13	91	96	97
SLTR	105	99	100	99	101	101	99	0	97	102	103
SLVR	168	167	165	165	144	165	164	161	157	165	166



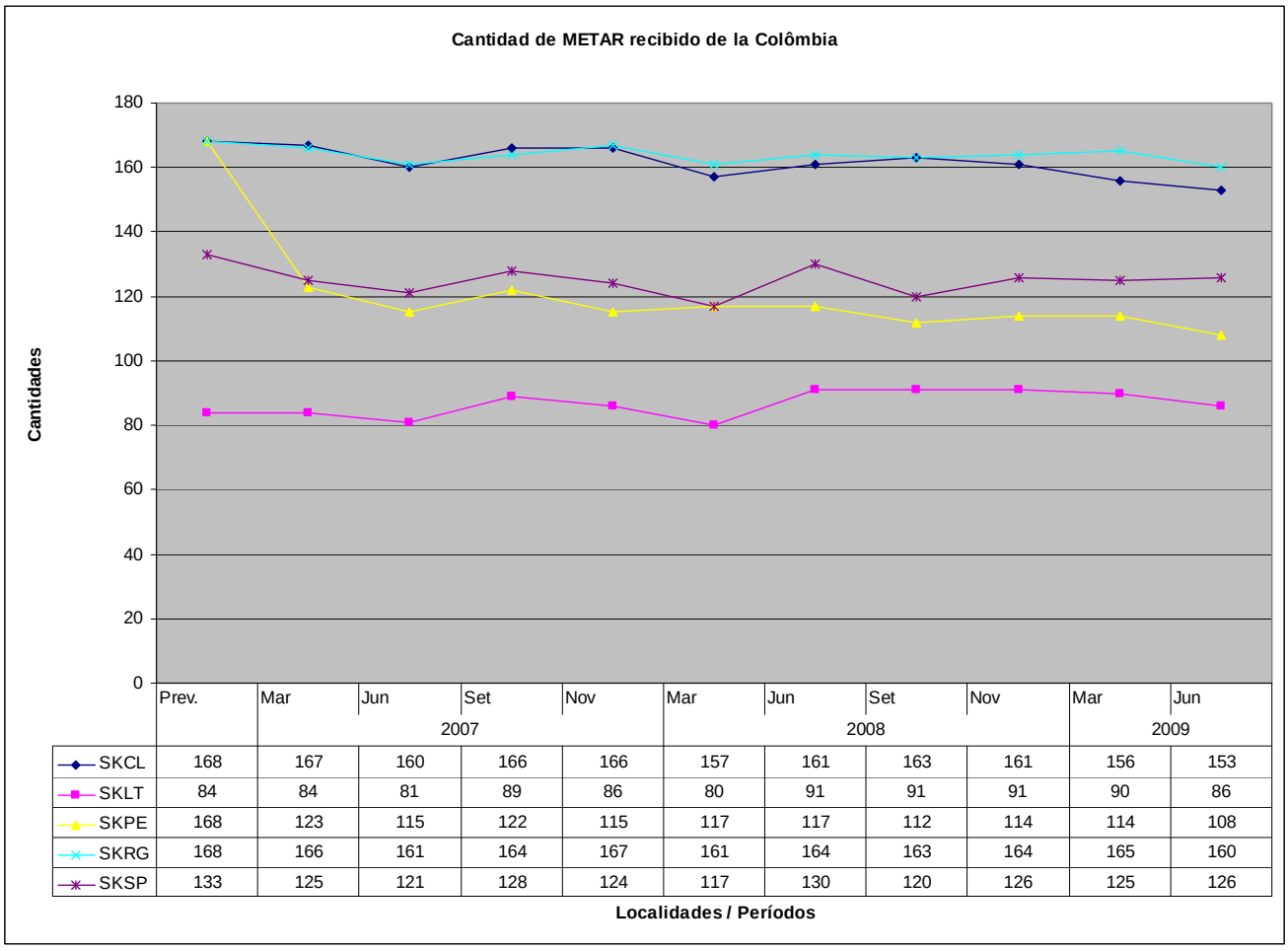
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SCAR	168	160	166	165	151	165	167	164	155	165	168
SCBA	168	63	164	69	59	163	166	167	156	165	94
SCCF	112	107	114	112	104	112	111	113	102	109	114
SCCI	168	144	162	157	144	153	163	162	153	164	166
SCDA	168	159	167	165	153	166	167	165	155	166	168
SCEL	168	160	167	165	153	166	167	165	155	165	168
SCFA	168	160	167	165	152	166	165	157	155	166	168



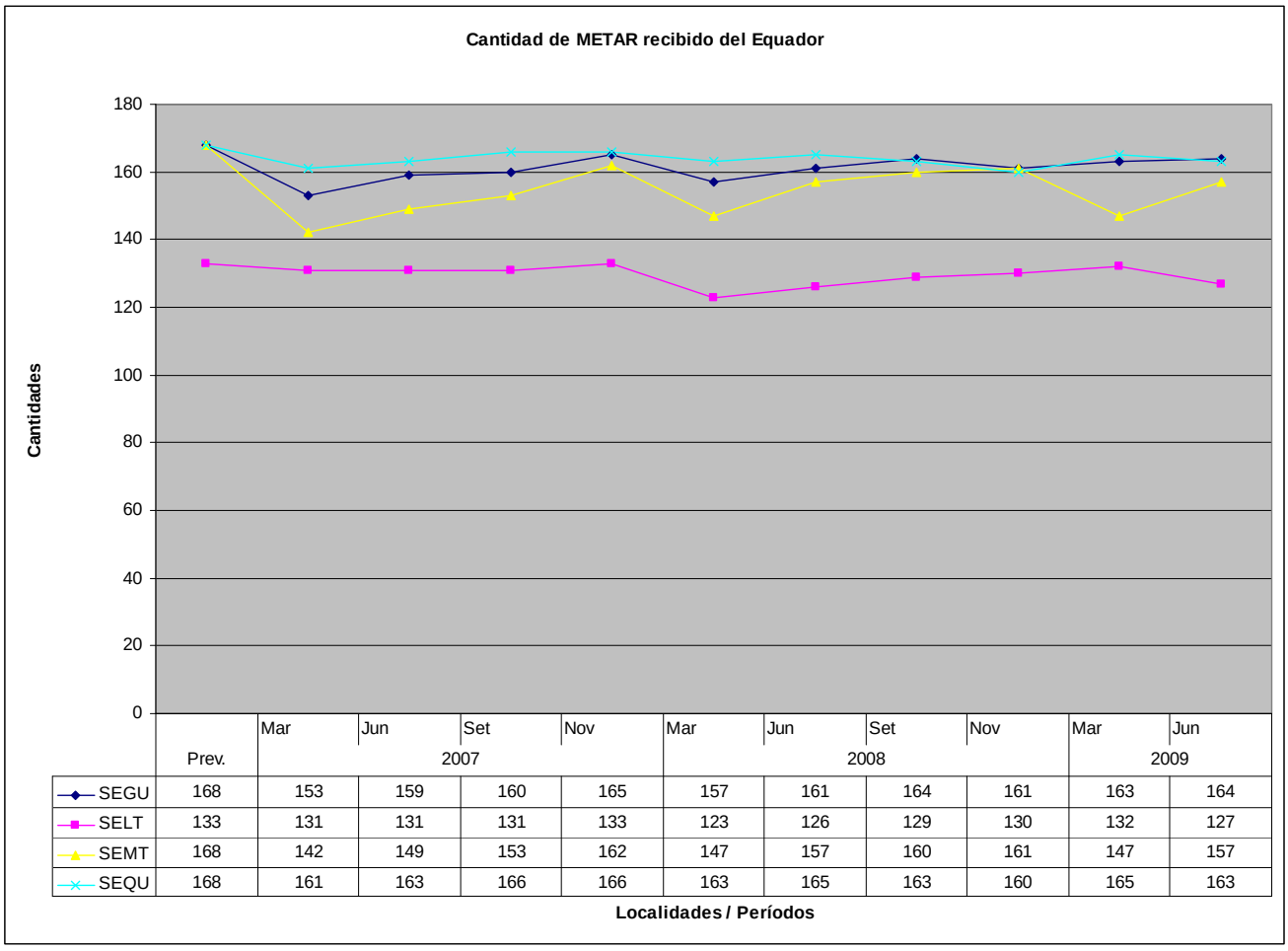
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SCIE	168	159	157	160	149	160	167	166	155	166	168
SCIP	112	103	108	109	101	110	110	111	97	109	108
SCJO	84	77	73	88	83	93	83	68	65	79	70
SCSE	168	160	166	165	152	165	166	166	154	164	166
SCTC	168	159	160	151	148	163	165	166	155	166	165
SCTE	168	153	151	159	150	155	167	164	153	166	168



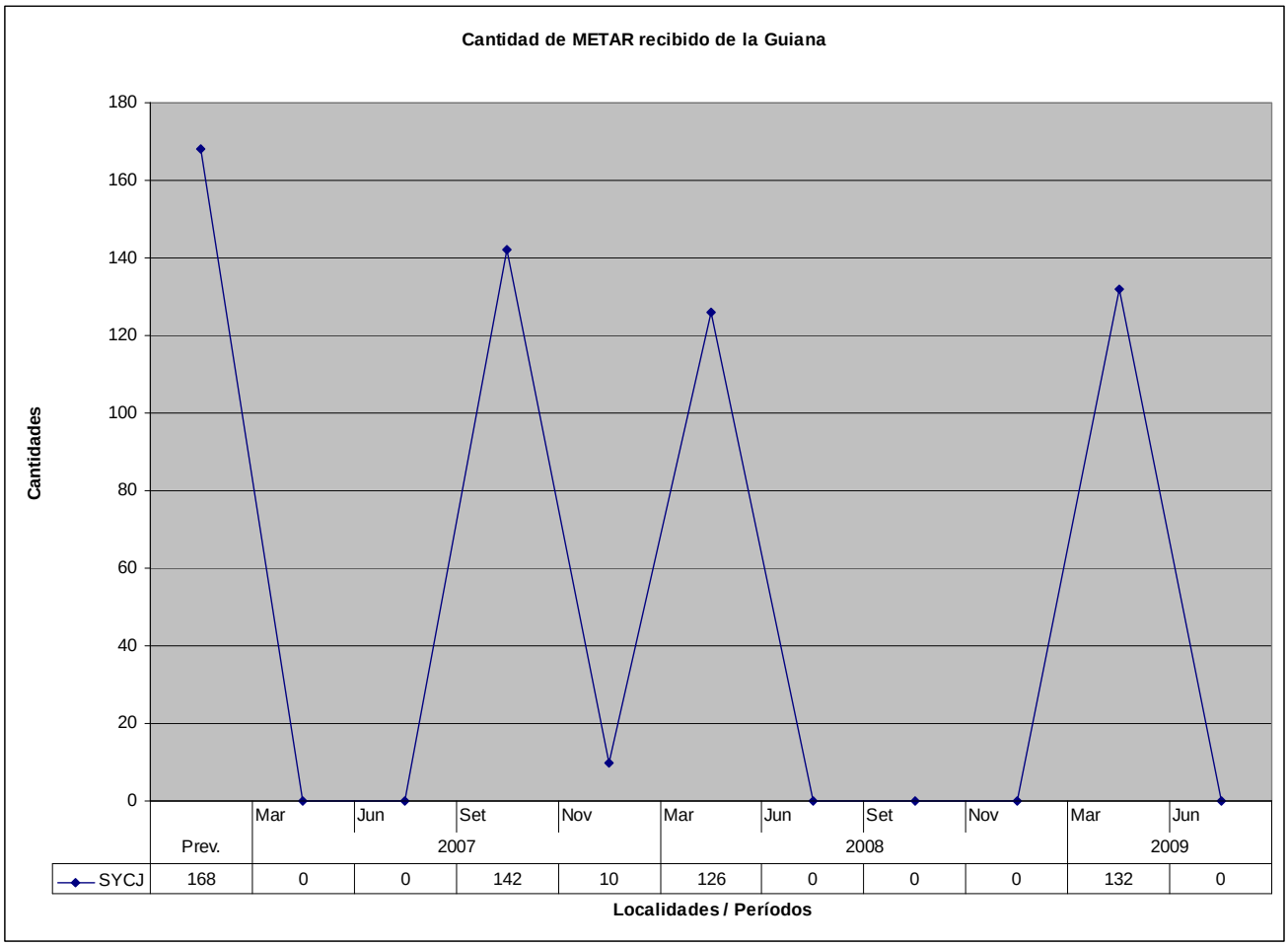
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SKBG	126	91	87	89	89	85	119	121	122	122	122
SKBO	168	165	158	163	165	162	162	164	165	160	161
SKBQ	168	164	158	166	165	159	163	161	163	156	162
SKCC	84	90	85	91	89	82	90	86	87	87	84
SKCG	168	163	158	159	162	157	163	164	164	165	159

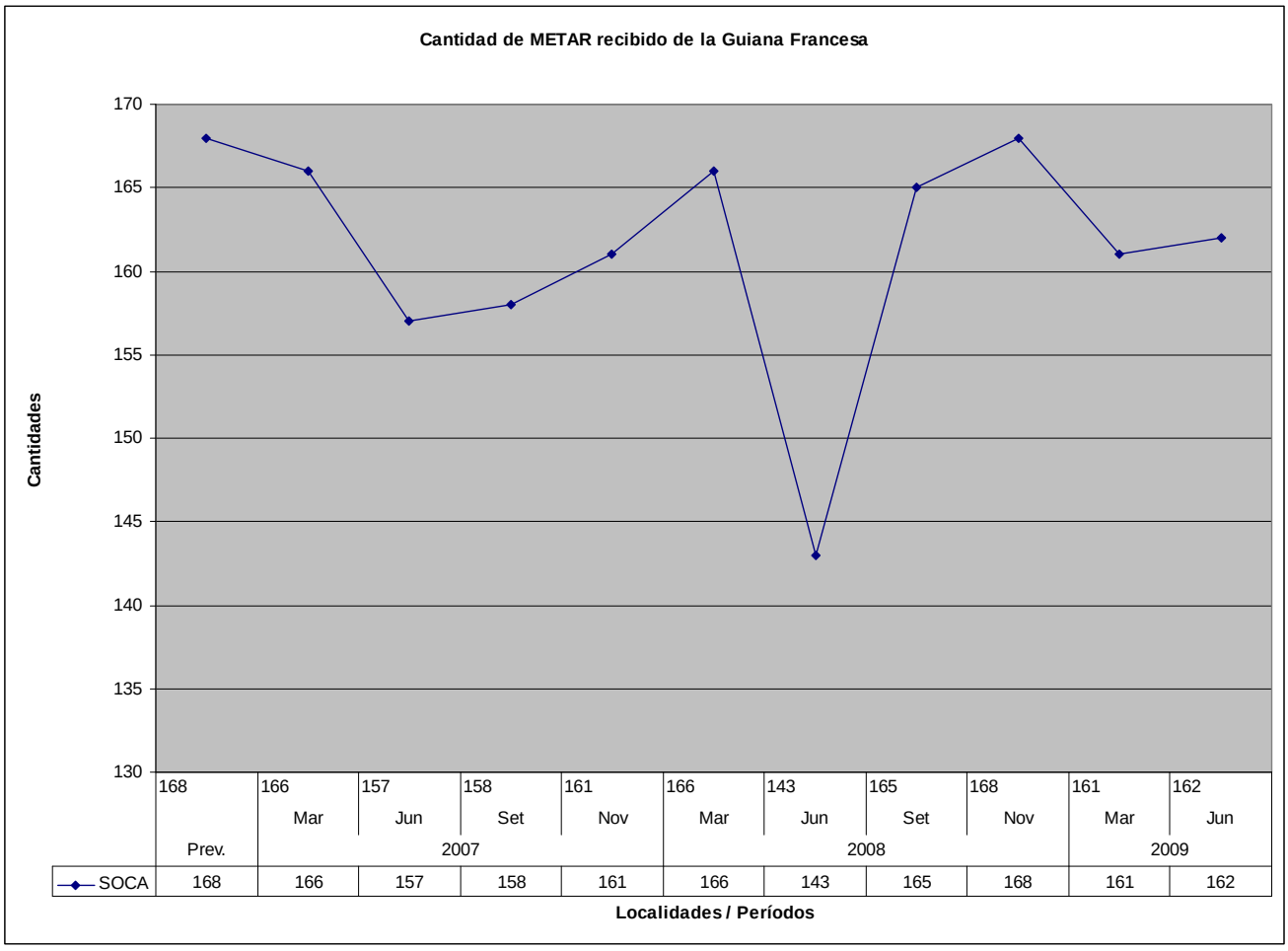


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SKCL	168	167	160	166	166	157	161	163	161	156	153
SKLT	84	84	81	89	86	80	91	91	91	90	86
SKPE	168	123	115	122	115	117	117	112	114	114	108
SKRG	168	166	161	164	167	161	164	163	164	165	160
SKSP	133	125	121	128	124	117	130	120	126	125	126

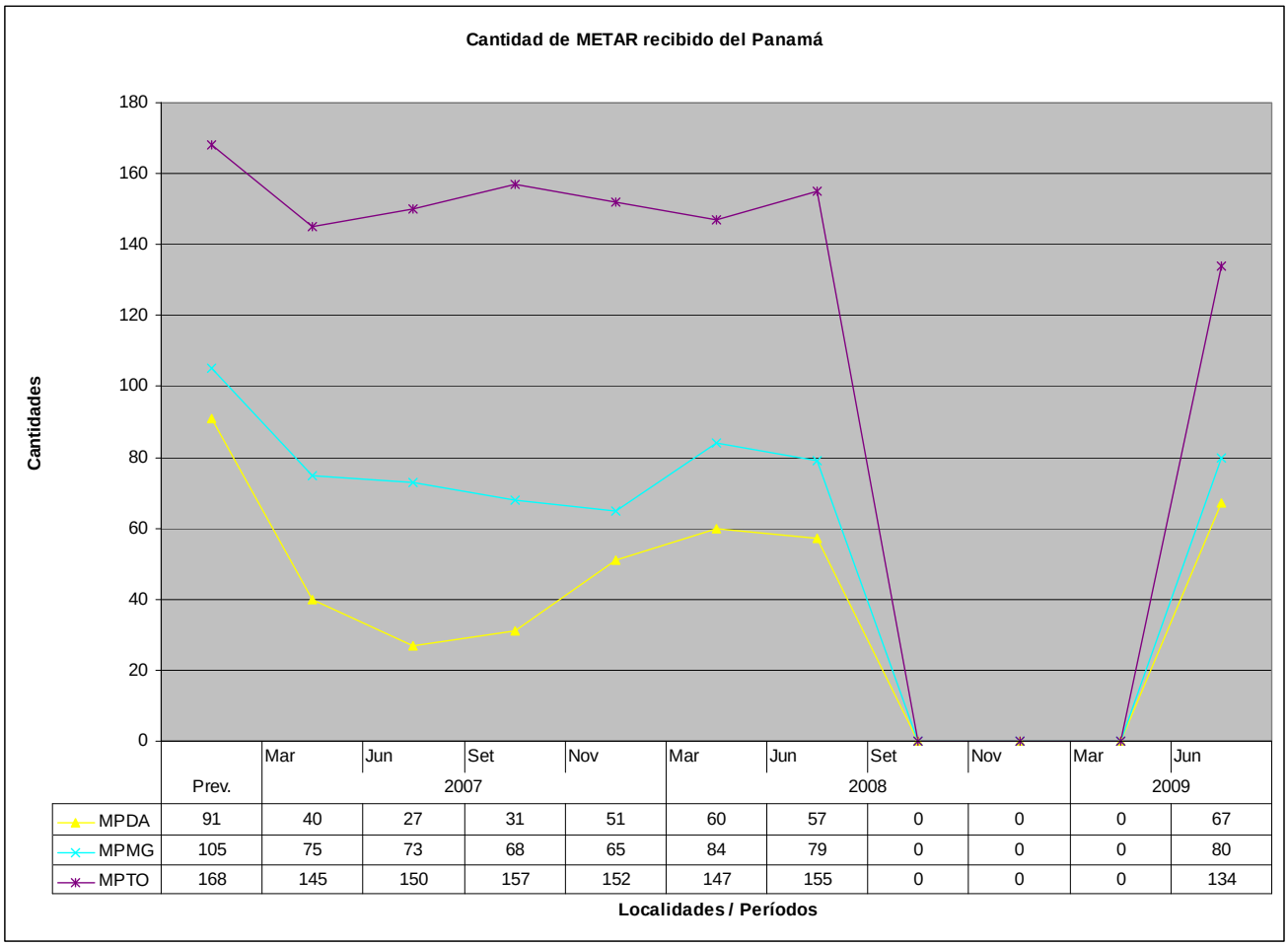


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SEGU	168	153	159	160	165	157	161	164	161	163	164
SELT	133	131	131	131	133	123	126	129	130	132	127
SEMT	168	142	149	153	162	147	157	160	161	147	157
SEQU	168	161	163	166	166	163	165	163	160	165	163

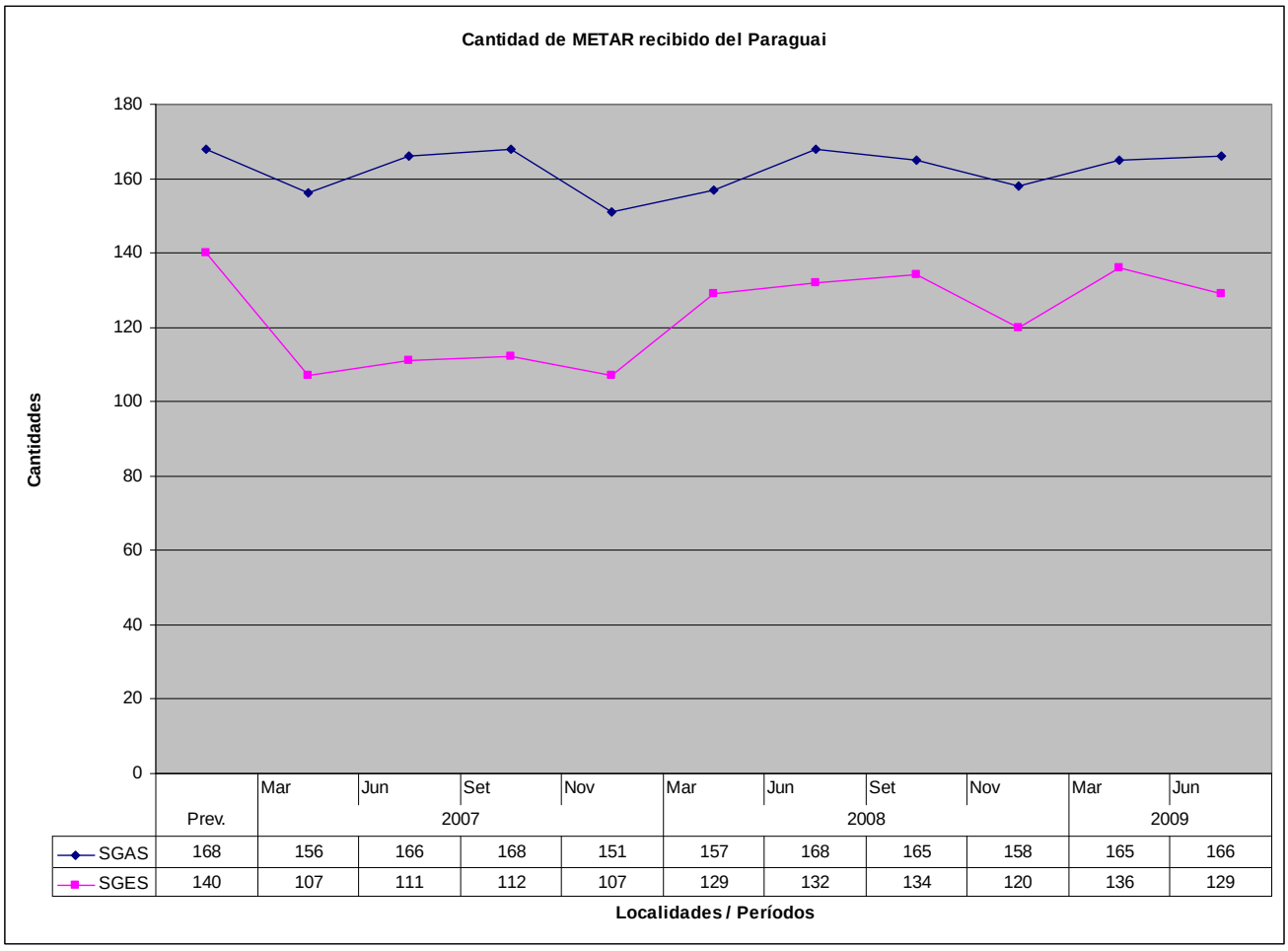

Cantidad de METAR recibido de la Guiana
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
SYCJ
168
0
0
142
10
126
0
0
0
132
0
Localidades / Períodos



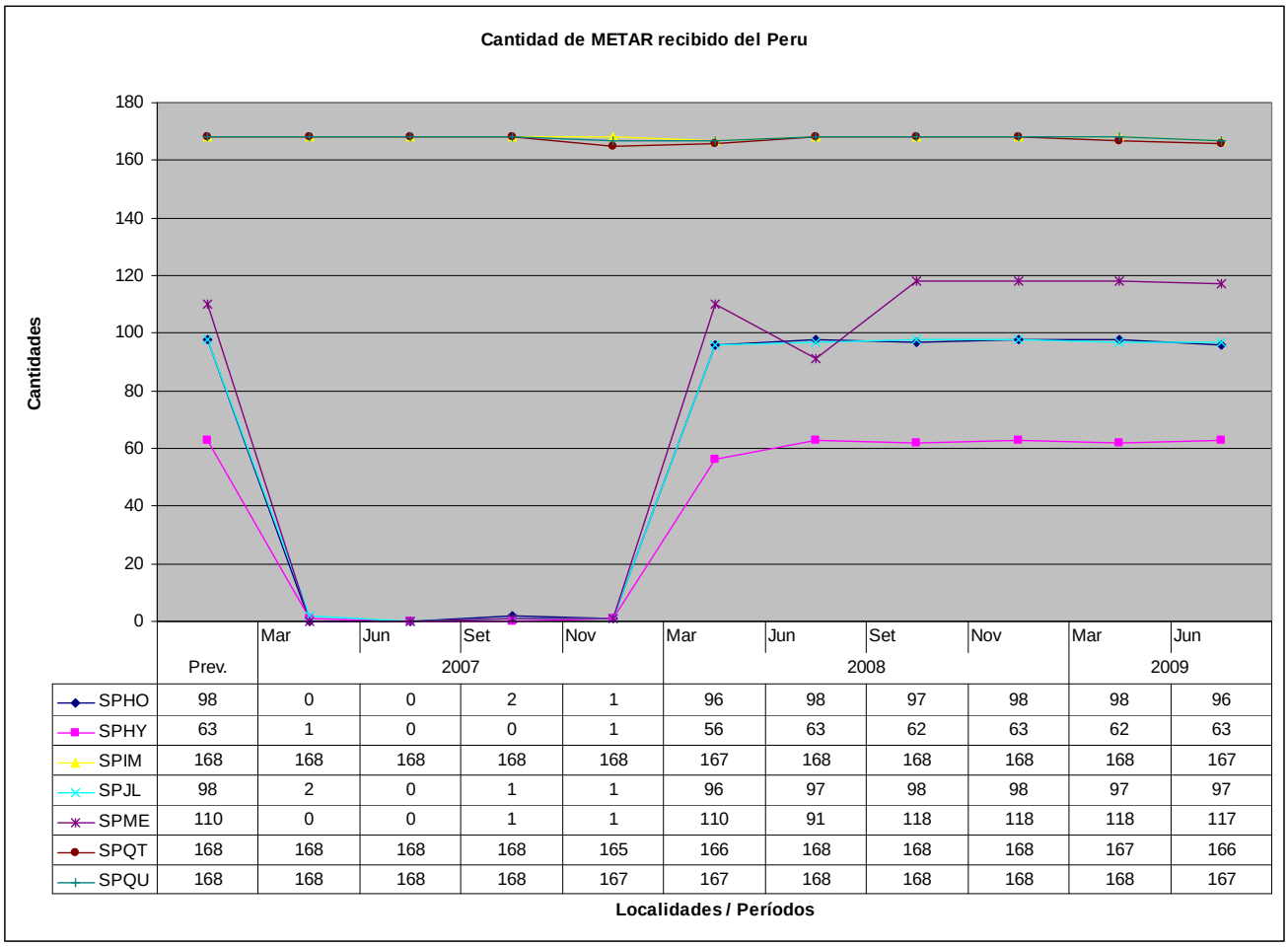
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SOCA	168	166	157	158	161	166	143	165	168	161	162



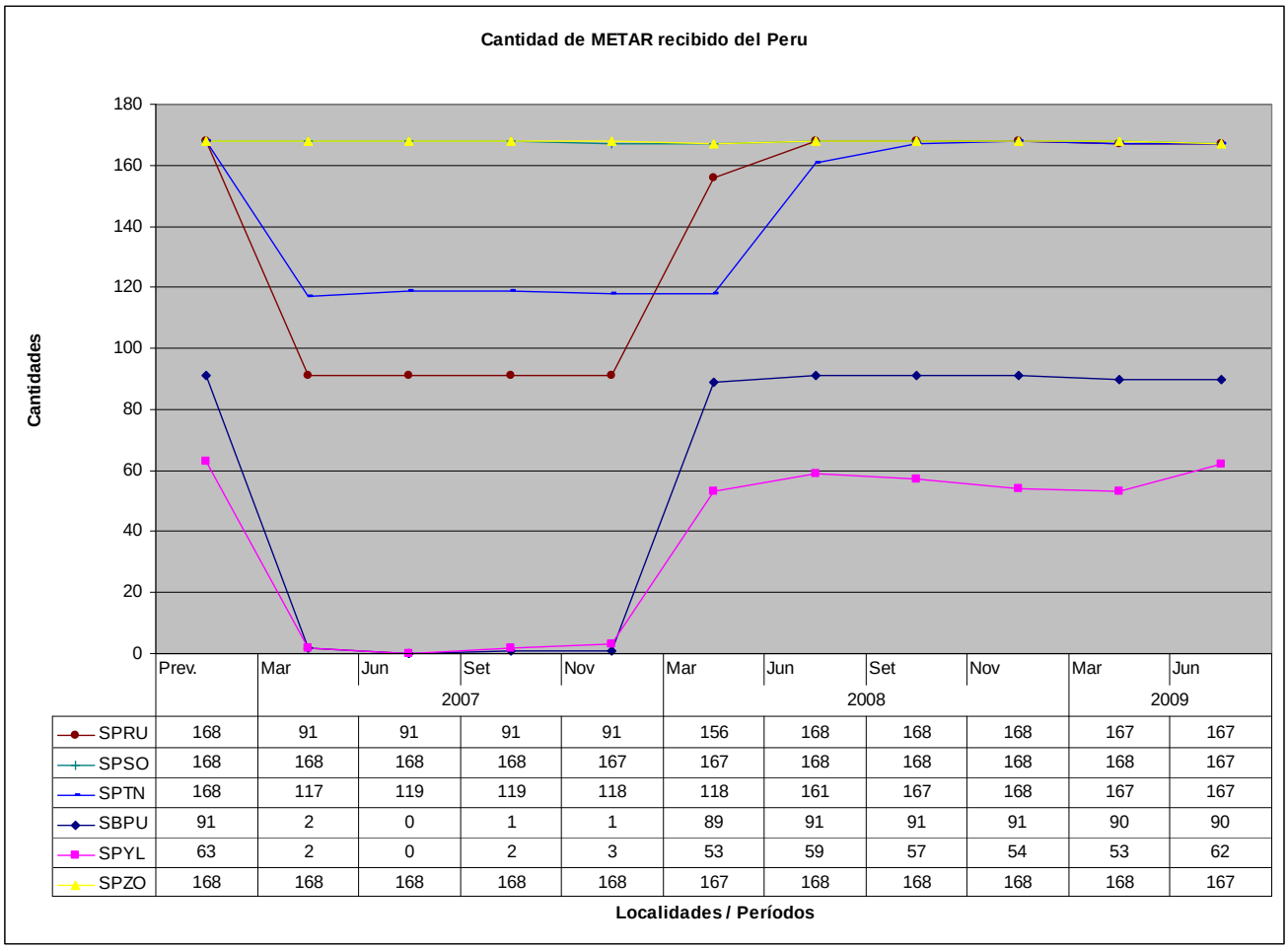
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MPDA	91	40	27	31	51	60	57	0	0	0	67
MPMG	105	75	73	68	65	84	79	0	0	0	80
MPTO	168	145	150	157	152	147	155	0	0	0	134



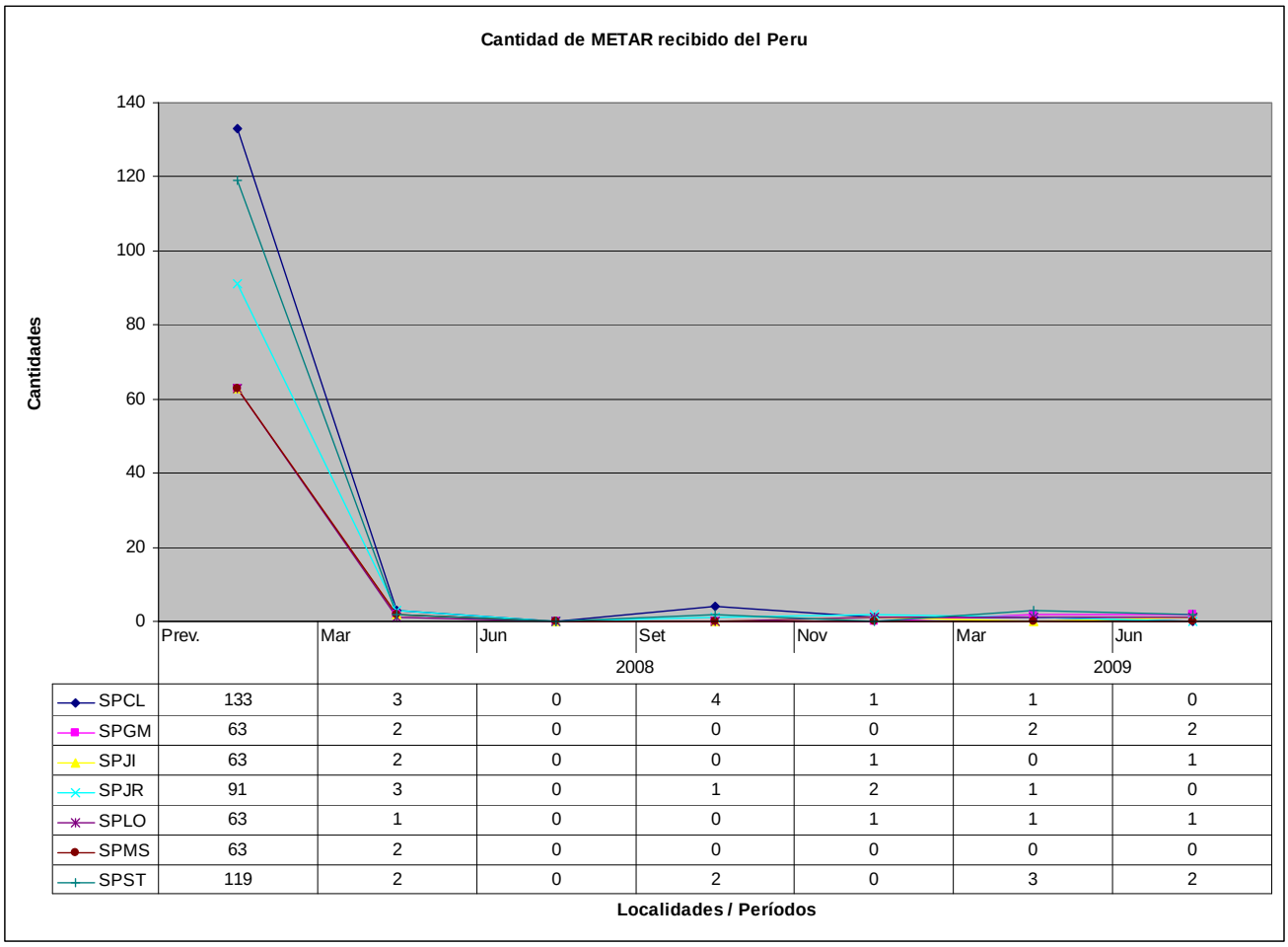
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SGAS	168	156	166	168	151	157	168	165	158	165	166
SGES	140	107	111	112	107	129	132	134	120	136	129



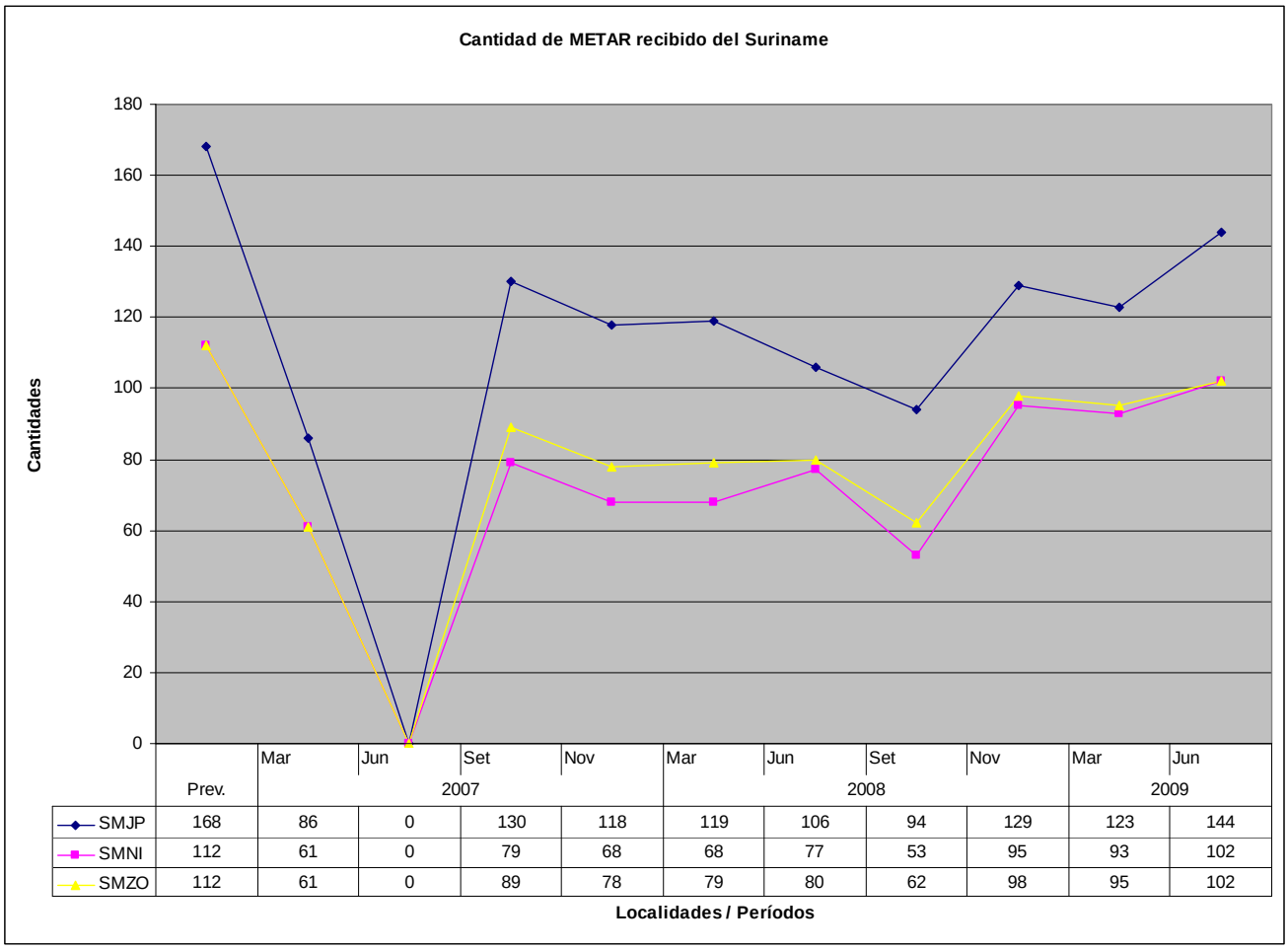
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SPHO	98	0	0	2	1	96	98	97	98	98	96
SPHY	63	1	0	0	1	56	63	62	63	62	63
SPIM	168	168	168	168	168	167	168	168	168	168	167
SPJL	98	2	0	1	1	96	97	98	98	97	97
SPME	110	0	0	1	1	110	91	118	118	118	117
SPQT	168	168	168	168	165	166	168	168	168	167	166
SPQU	168	168	168	168	167	167	168	168	168	168	167



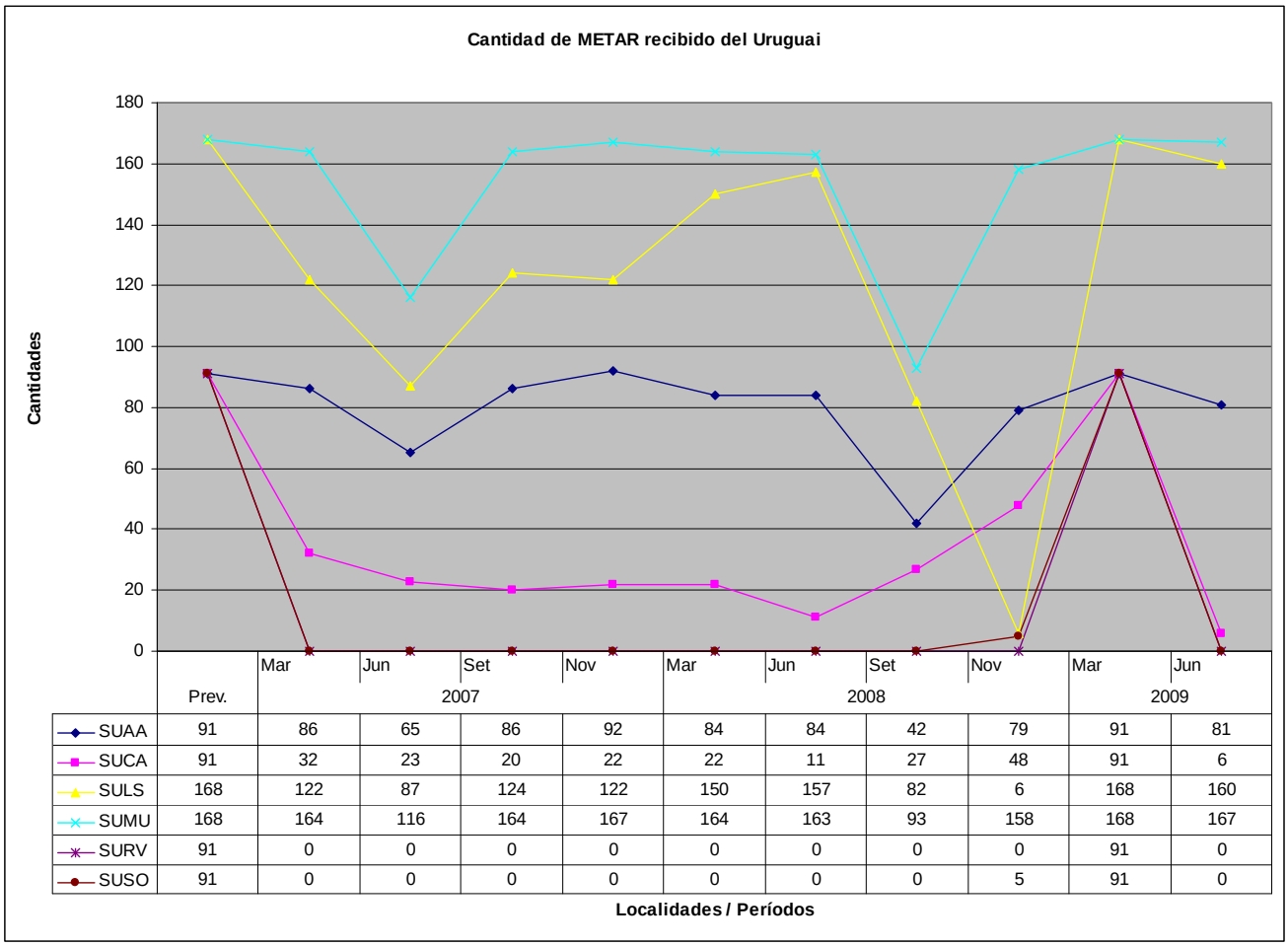
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SPRU	168	91	91	91	91	156	168	168	168	167	167
SPSO	168	168	168	168	167	167	168	168	168	168	167
SPTN	168	117	119	119	118	118	161	167	168	167	167
SBPU	91	2	0	1	1	89	91	91	91	90	90
SPYL	63	2	0	2	3	53	59	57	54	53	62
SPZO	168	168	168	168	168	167	168	168	168	168	167



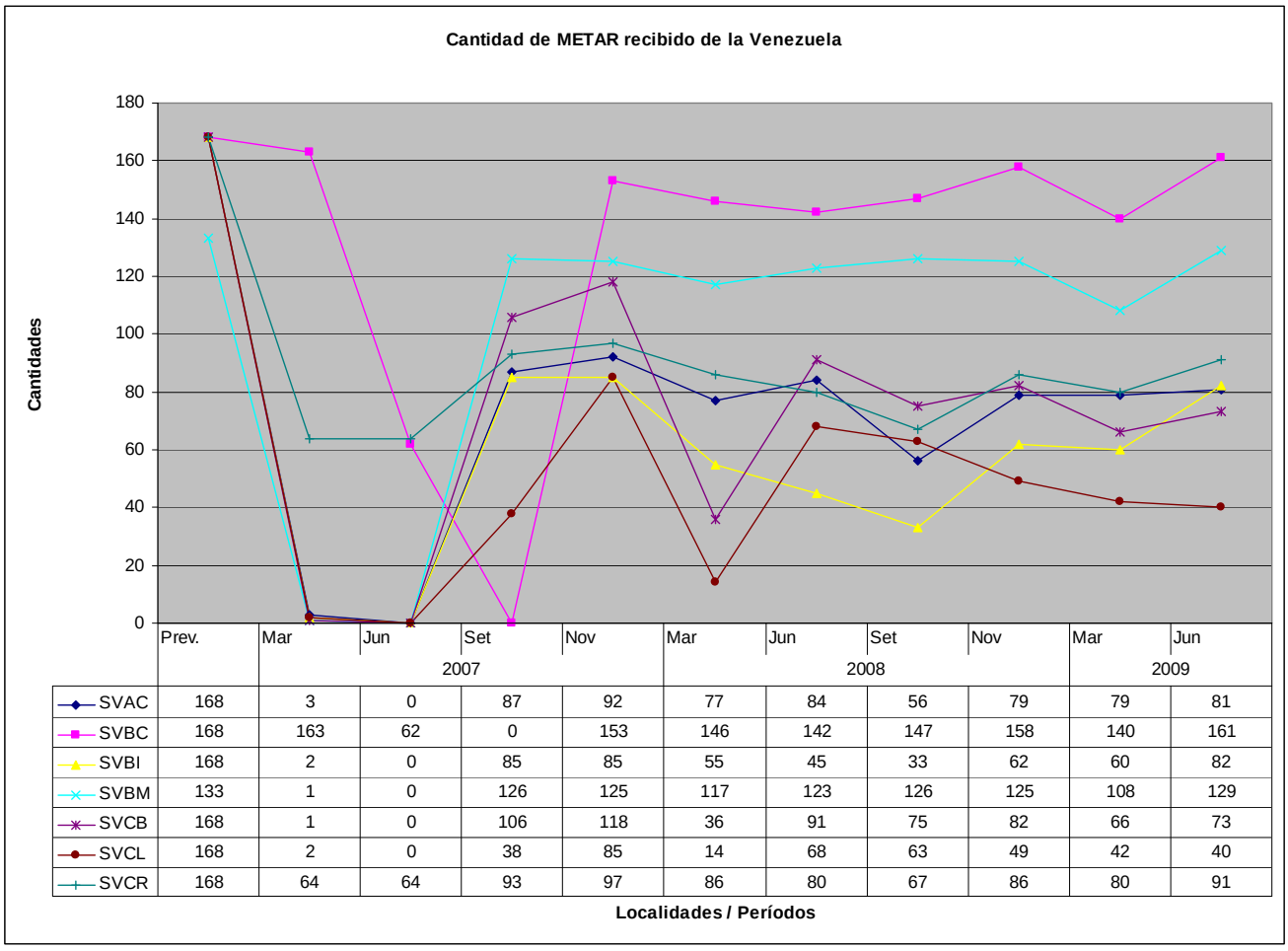
	Prev.	Mar	Jun	Set	Nov	Mar	Jun
	2008					2009	
SPCL	133	3	0	4	1	1	0
SPGM	63	2	0	0	0	2	2
SPJI	63	2	0	0	1	0	1
SPJR	91	3	0	1	2	1	0
SPLO	63	1	0	0	1	1	1
SPMS	63	2	0	0	0	0	0
SPST	119	2	0	2	0	3	2



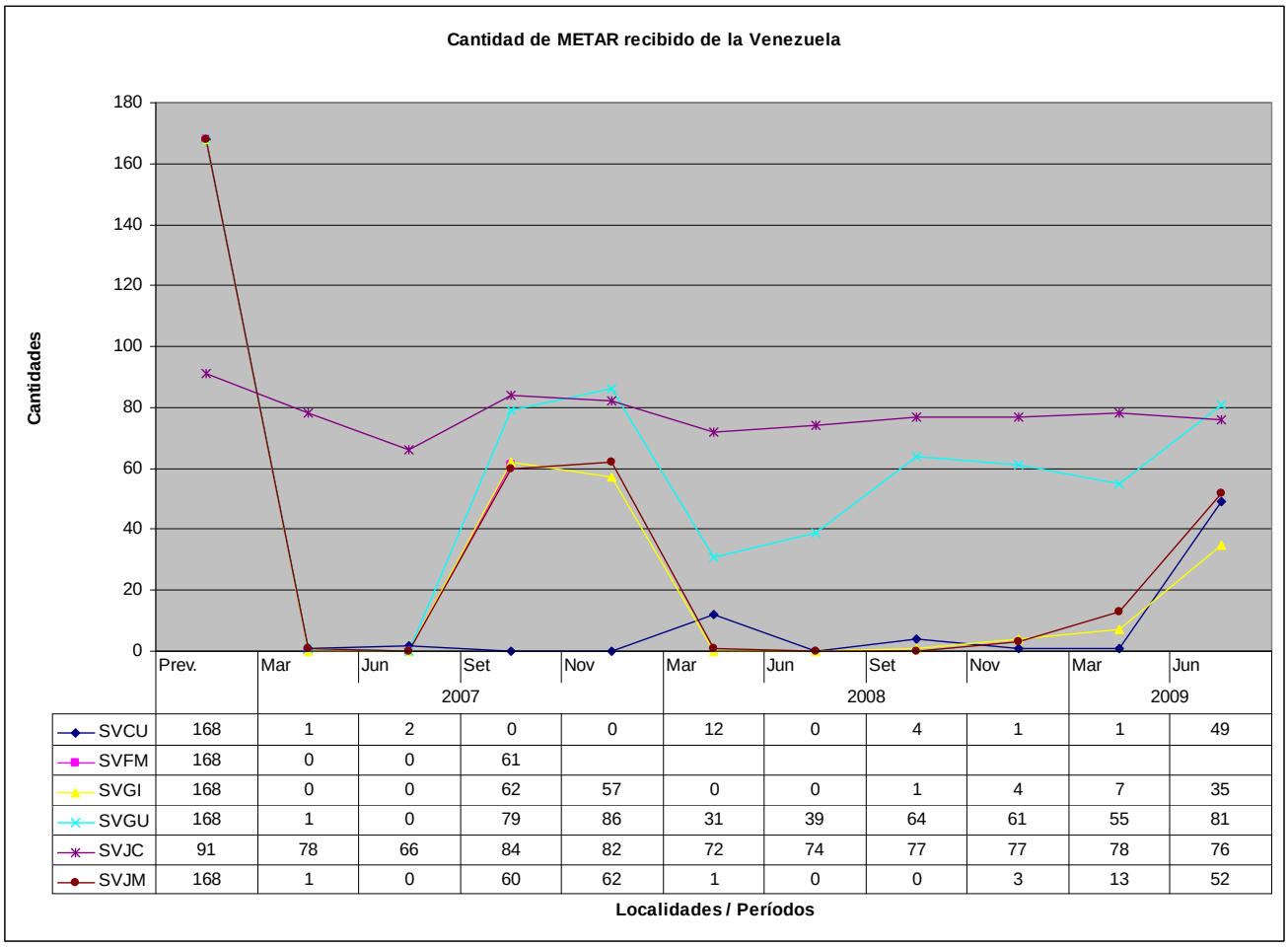
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SMJP	168	86	0	130	118	119	106	94	129	123	144
SMNI	112	61	0	79	68	68	77	53	95	93	102
SMZO	112	61	0	89	78	79	80	62	98	95	102



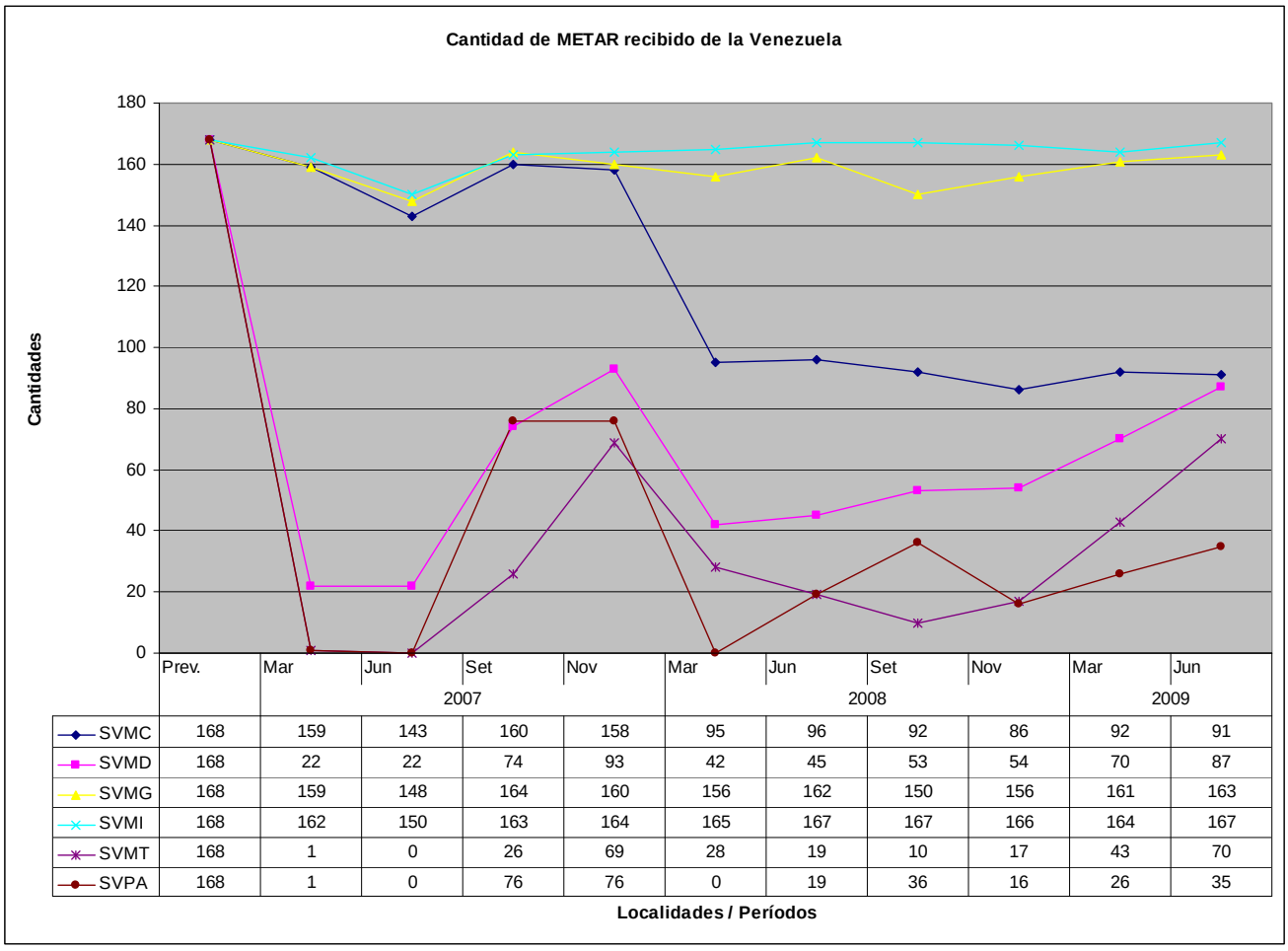
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SUAA	91	86	65	86	92	84	84	42	79	91	81
SUCA	91	32	23	20	22	22	11	27	48	91	6
SULS	168	122	87	124	122	150	157	82	6	168	160
SUMU	168	164	116	164	167	164	163	93	158	168	167
SURV	91	0	0	0	0	0	0	0	0	91	0
SUSO	91	0	0	0	0	0	0	0	5	91	0



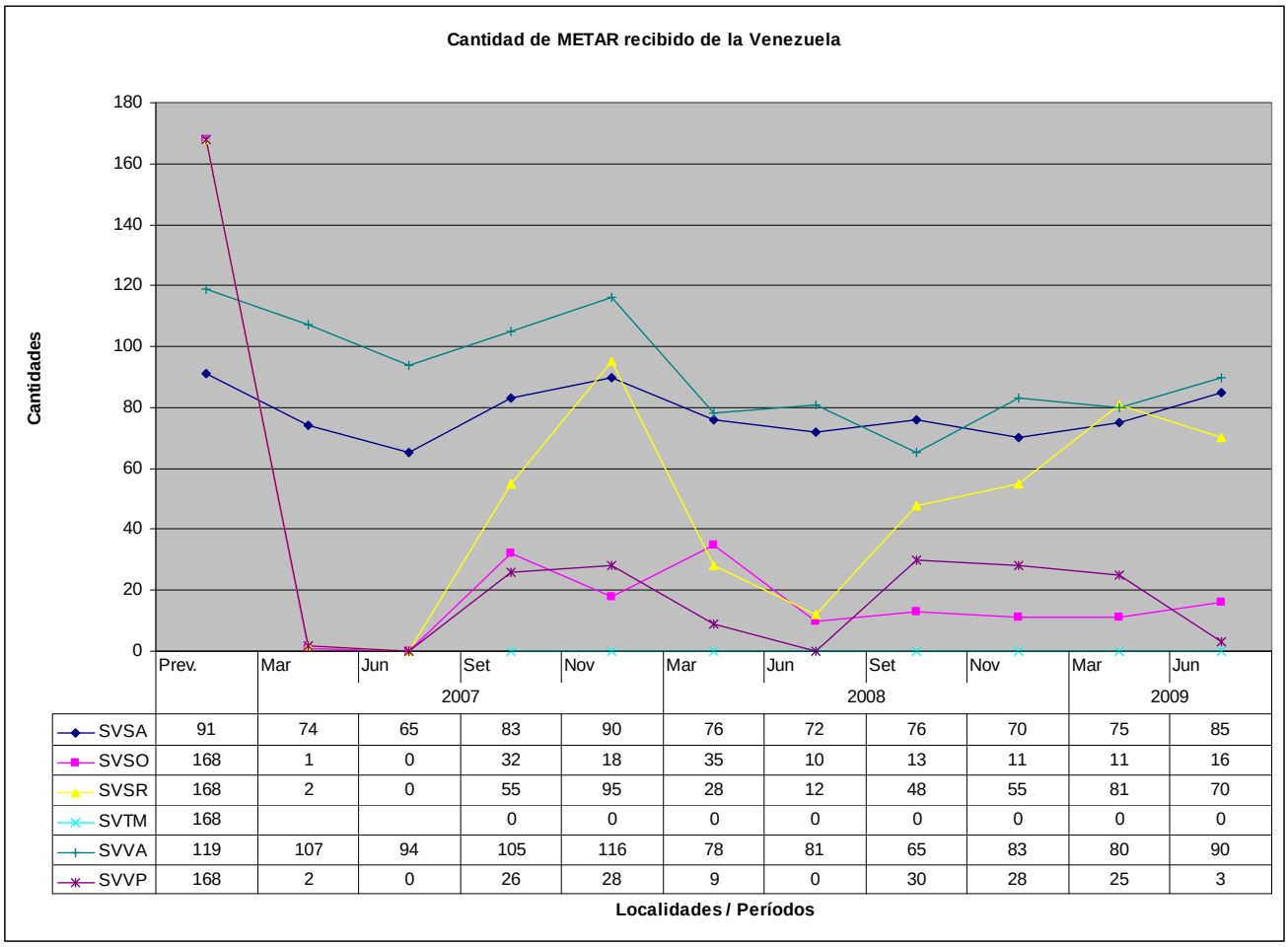
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SVAC	168	3	0	87	92	77	84	56	79	79	81
SVBC	168	163	62	0	153	146	142	147	158	140	161
SVBI	168	2	0	85	85	55	45	33	62	60	82
SVBM	133	1	0	126	125	117	123	126	125	108	129
SVCB	168	1	0	106	118	36	91	75	82	66	73
SVCL	168	2	0	38	85	14	68	63	49	42	40
SVCR	168	64	64	93	97	86	80	67	86	80	91



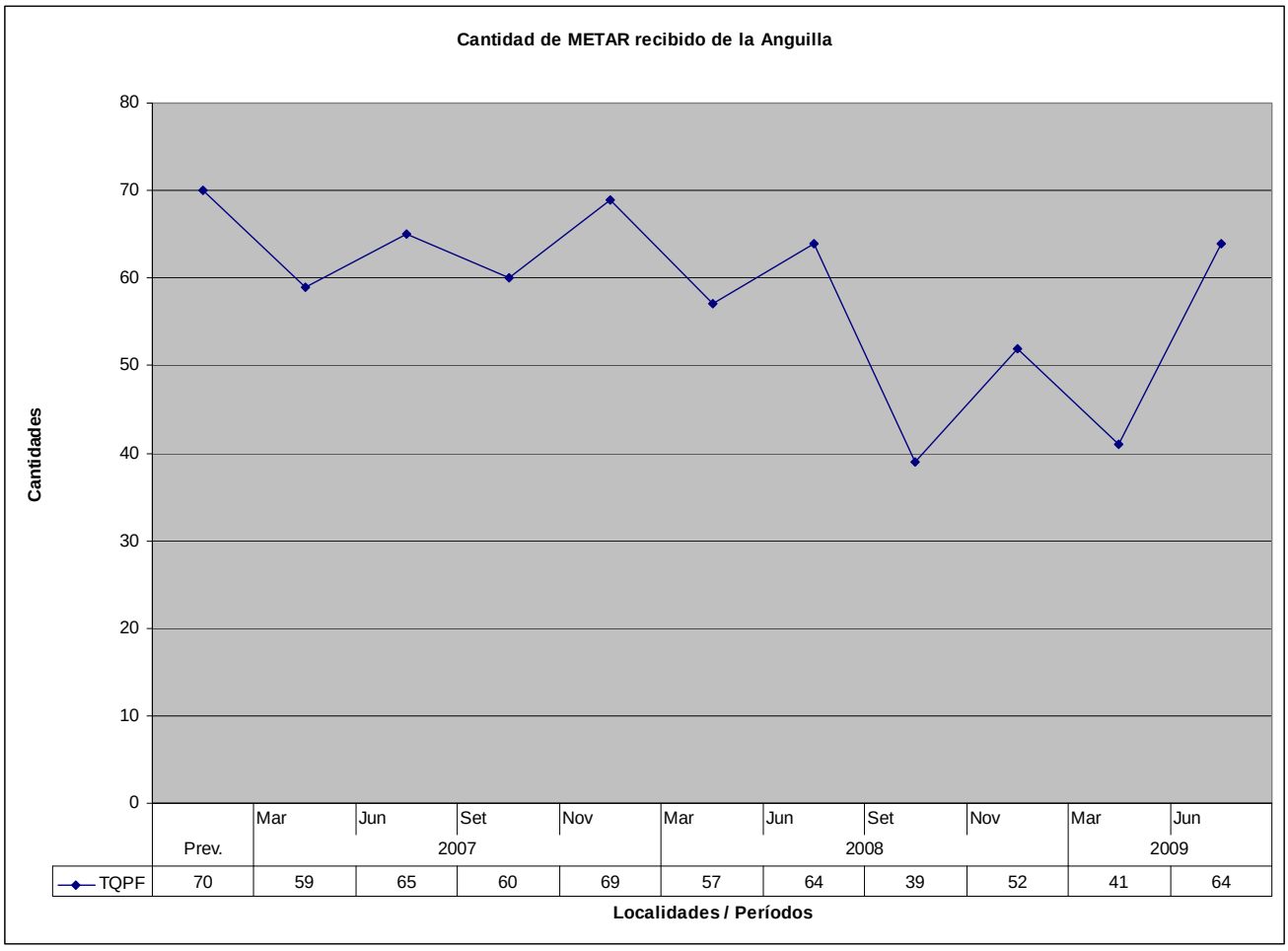
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SVCU	168	1	2	0	0	12	0	4	1	1	49
SVFM	168	0	0	61							
SVGI	168	0	0	62	57	0	0	1	4	7	35
SVGU	168	1	0	79	86	31	39	64	61	55	81
SVJC	91	78	66	84	82	72	74	77	77	78	76
SVJM	168	1	0	60	62	1	0	0	3	13	52

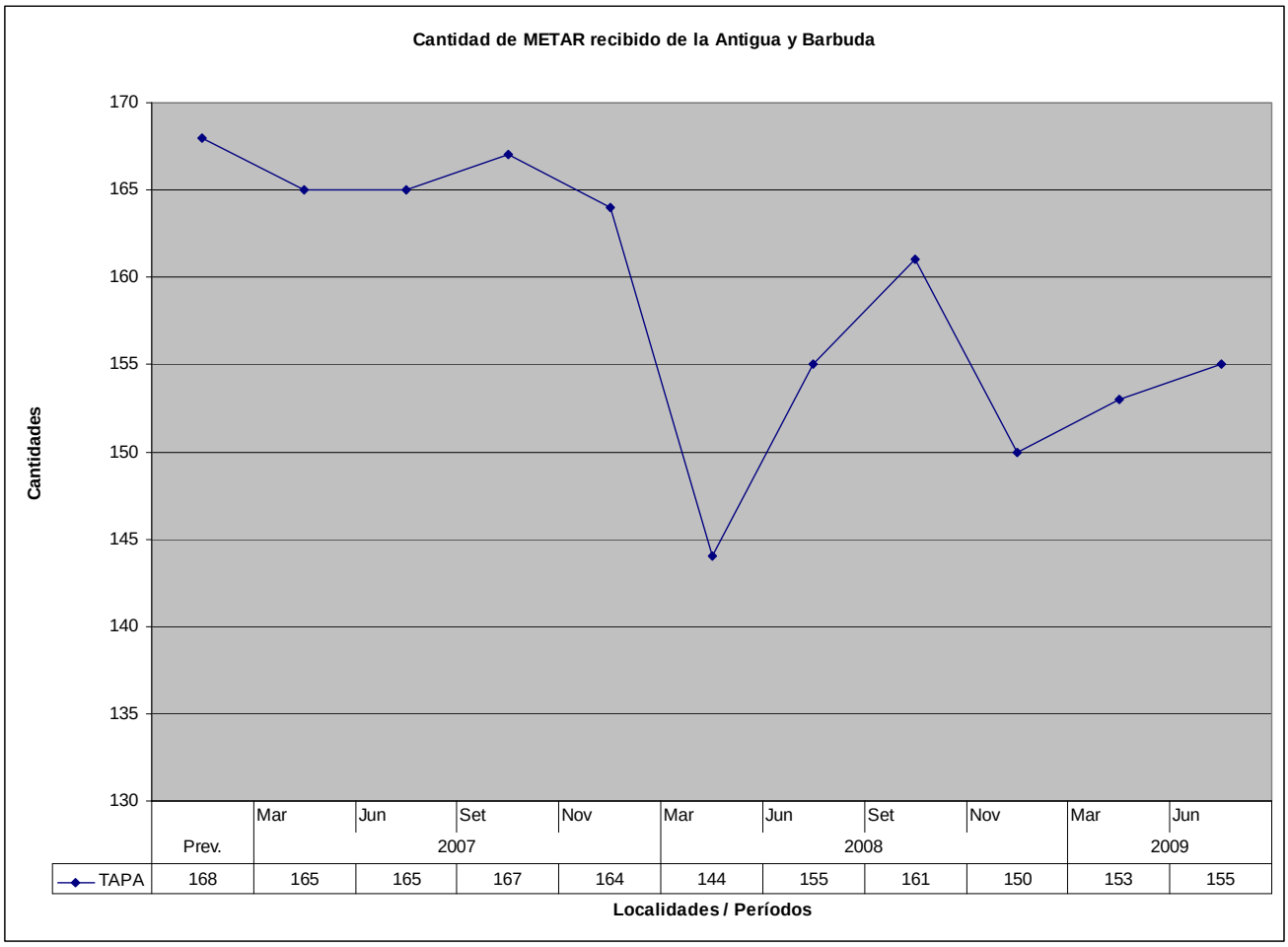


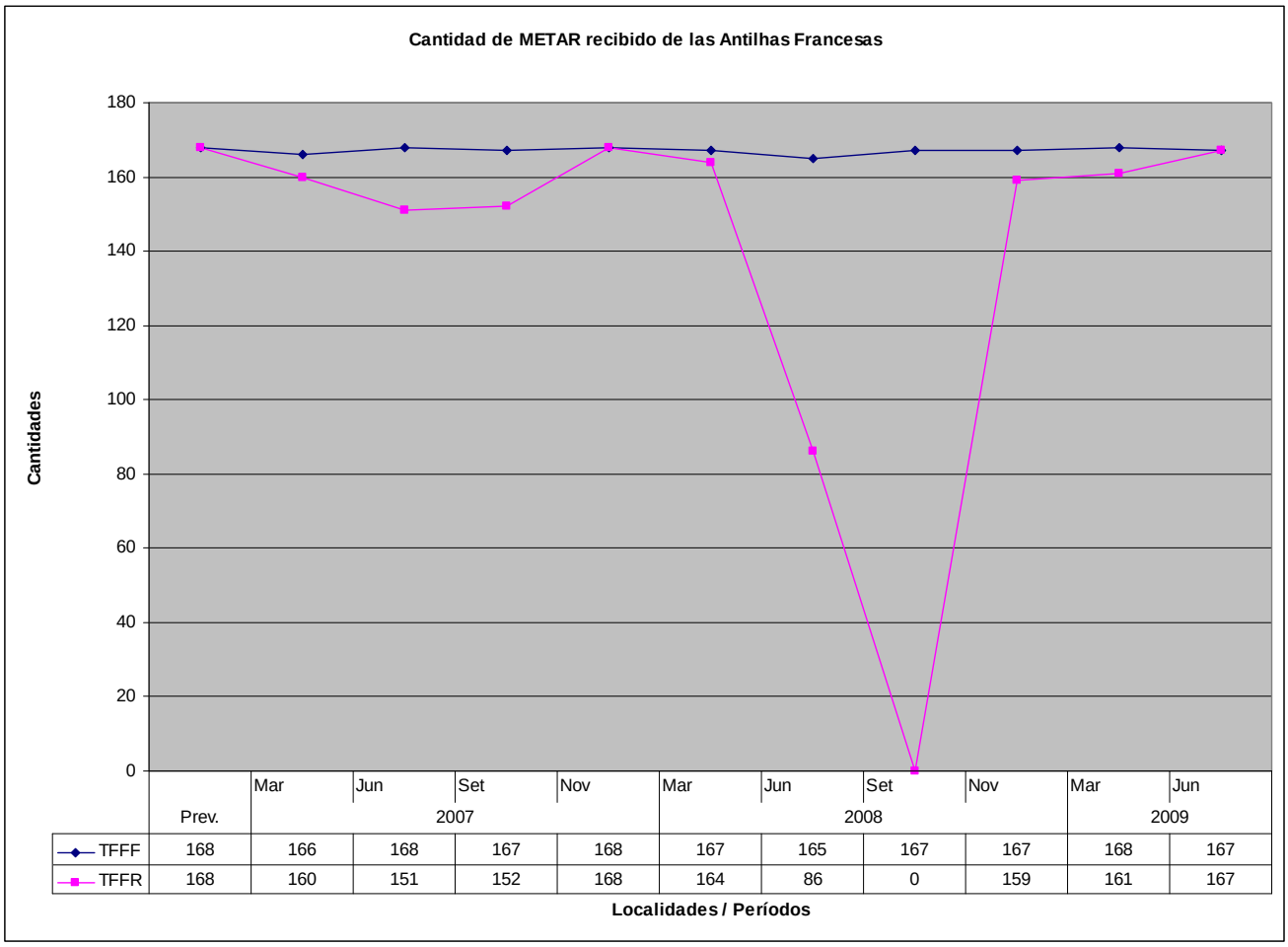
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SVMC	168	159	143	160	158	95	96	92	86	92	91
SVMD	168	22	22	74	93	42	45	53	54	70	87
SVMG	168	159	148	164	160	156	162	150	156	161	163
SVMI	168	162	150	163	164	165	167	167	166	164	167
SVMT	168	1	0	26	69	28	19	10	17	43	70
SVPA	168	1	0	76	76	0	19	36	16	26	35

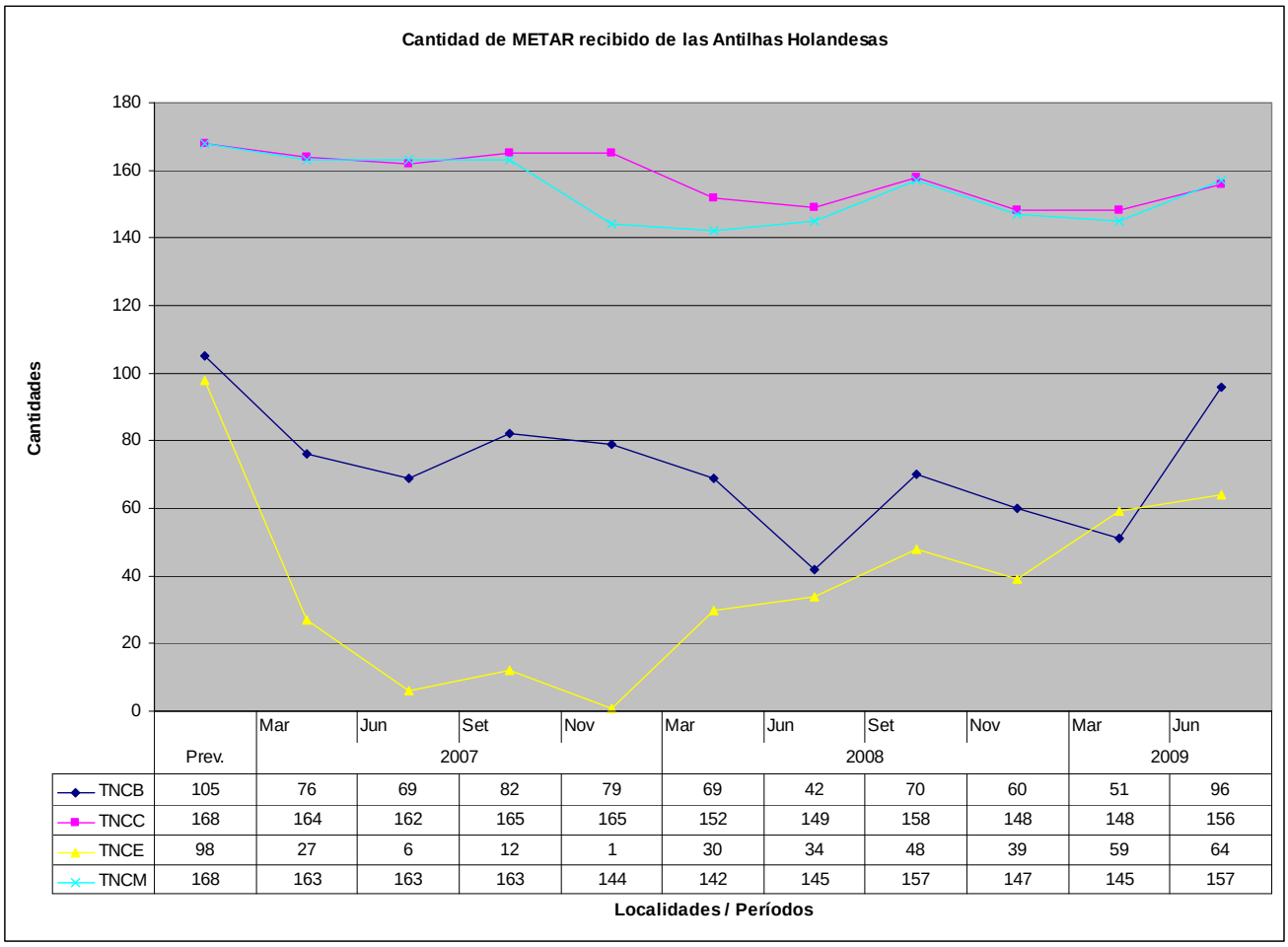


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
SVSA	91	74	65	83	90	76	72	76	70	75	85
SVSO	168	1	0	32	18	35	10	13	11	11	16
SVSR	168	2	0	55	95	28	12	48	55	81	70
SVTM	168			0	0	0	0	0	0	0	0
SVVA	119	107	94	105	116	78	81	65	83	80	90
SVVP	168	2	0	26	28	9	0	30	28	25	3

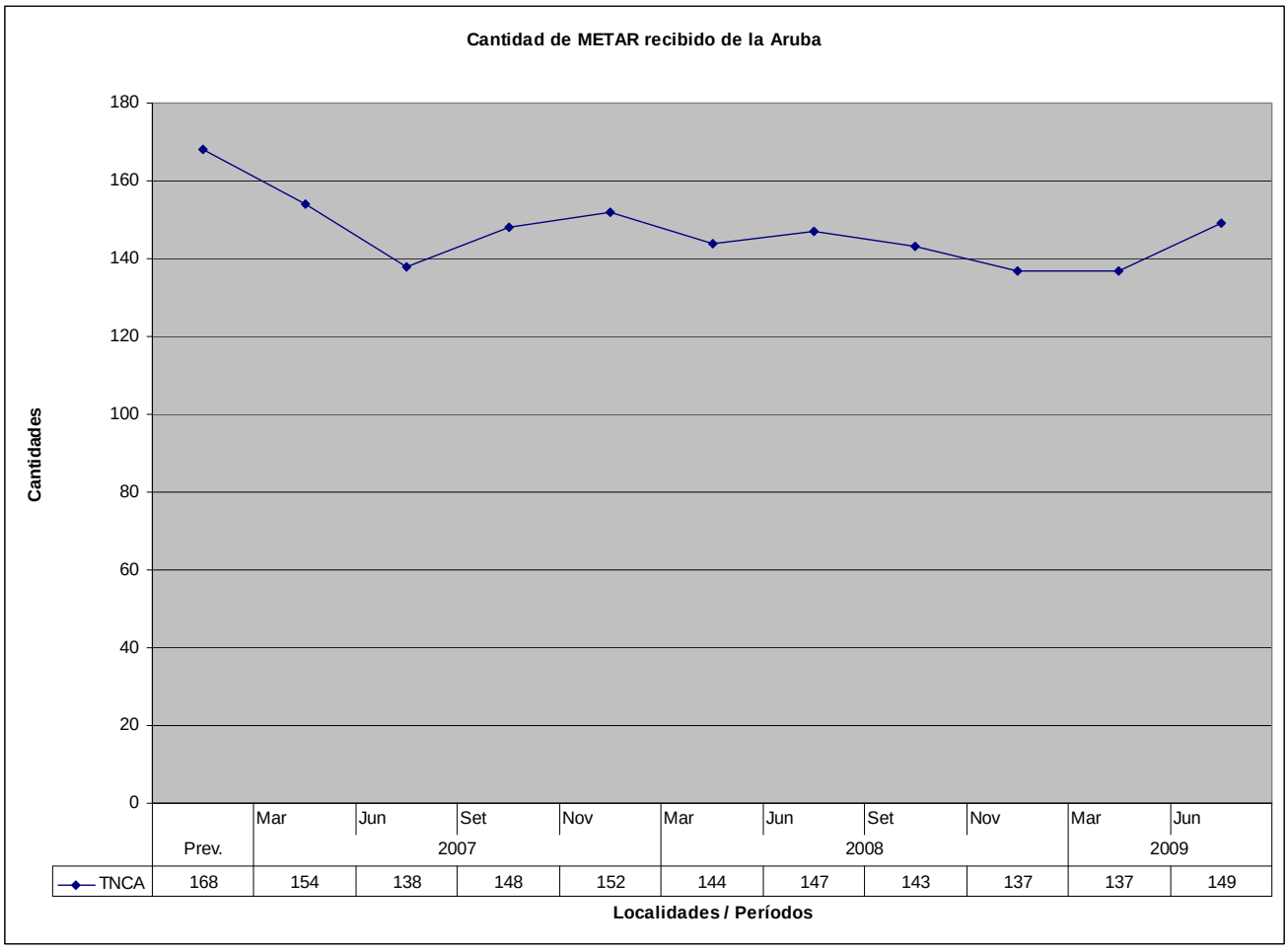

Cantidad de METAR recibido de la Anguilla
Cantidades
80
70
60
50
40
30
20
10
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TQPF
70
59
65
60
69
57
64
39
52
41
64
Localidades / Períodos

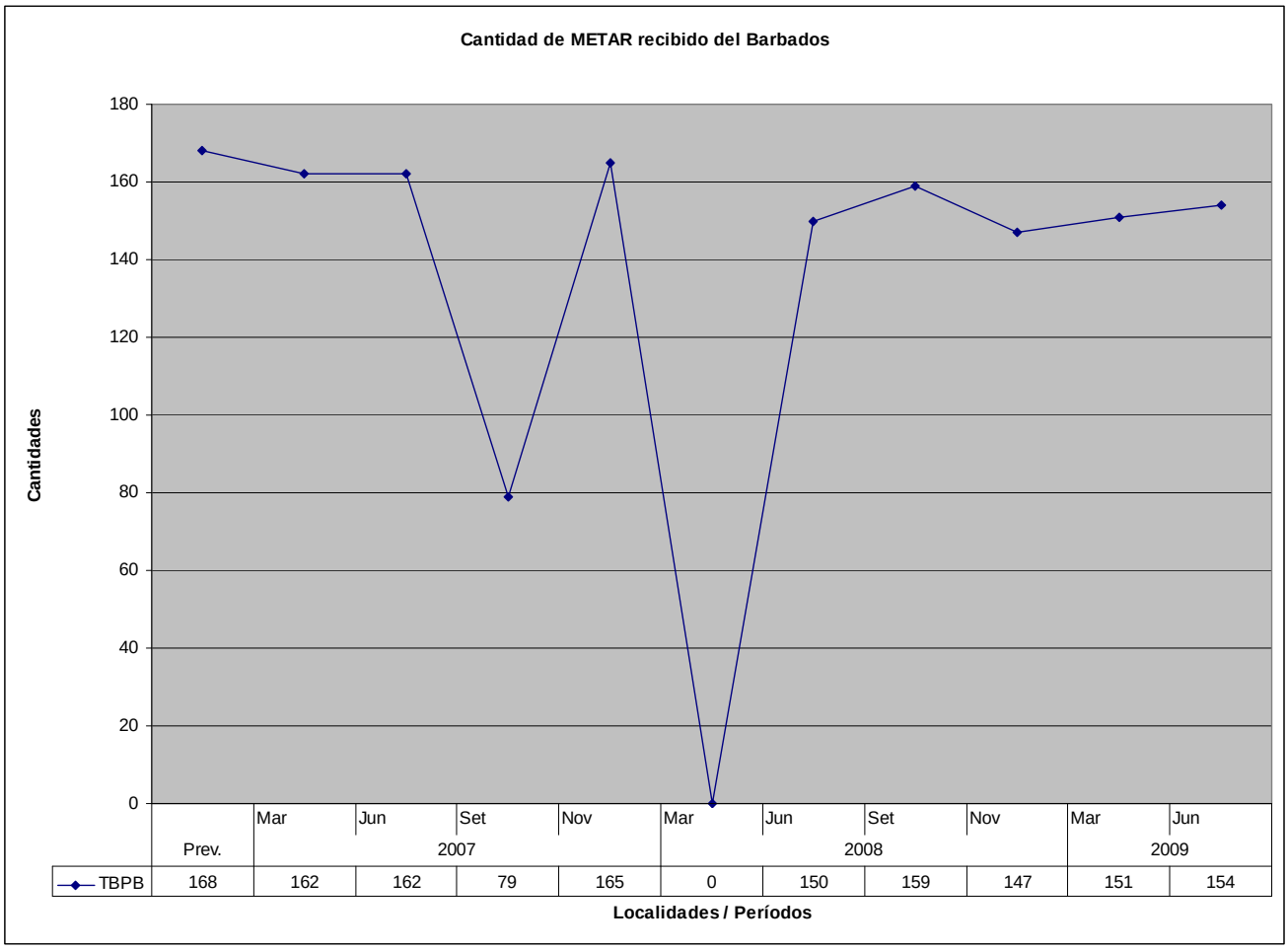

Cantidad de METAR recibido de la Antigua y Barbuda
Cantidades
170
165
160
155
150
145
140
135
130
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TAPA
168
165
165
167
164
144
155
161
150
153
155
Localidades / Períodos

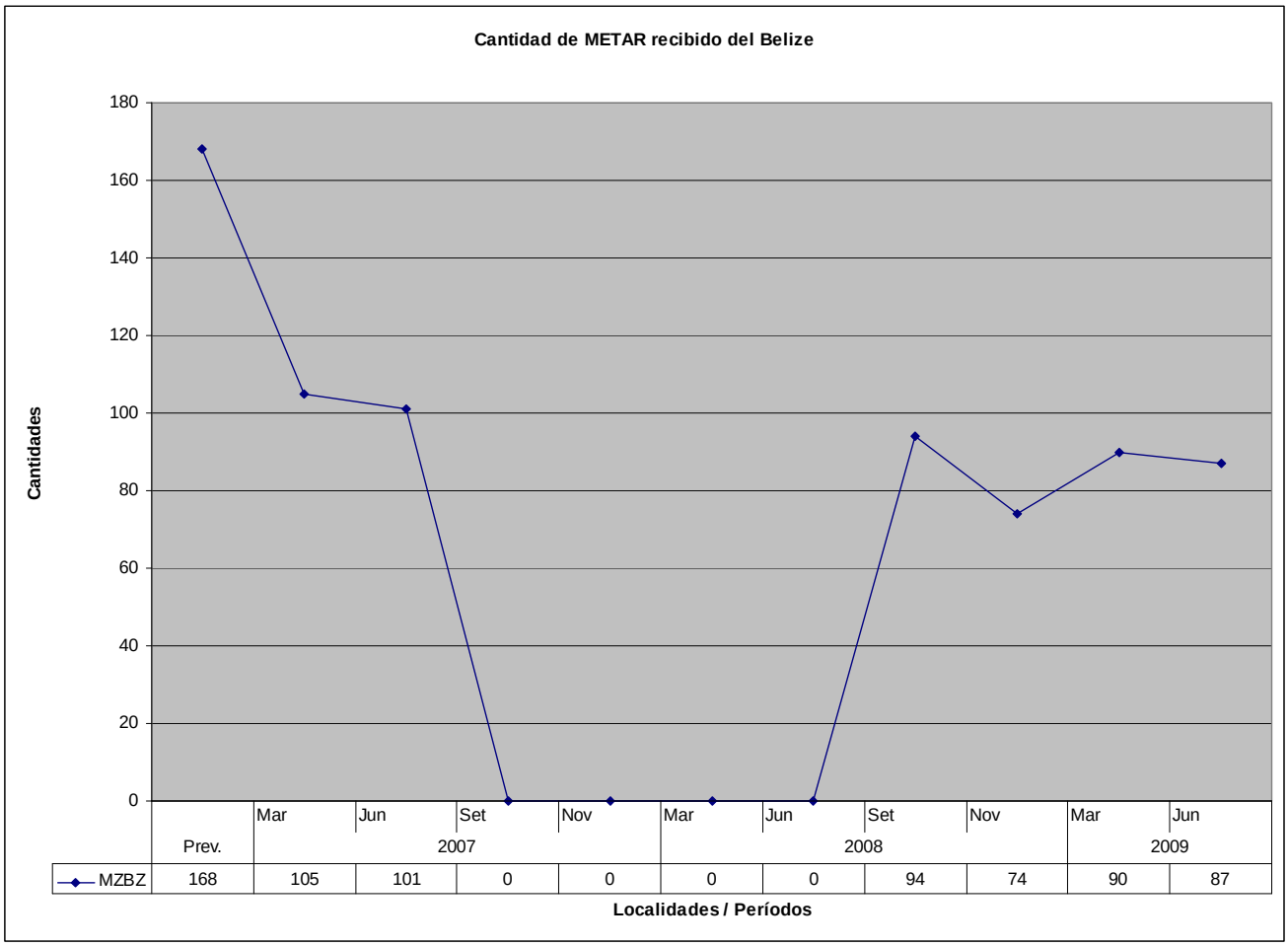

Cantidad de METAR recibido de las Antilhas Francesas
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TFFF 168 166 168 167 168 167 165 167 167 168 167
TFFR 168 160 151 152 168 164 86 0 159 161 167
Localidades / Períodos

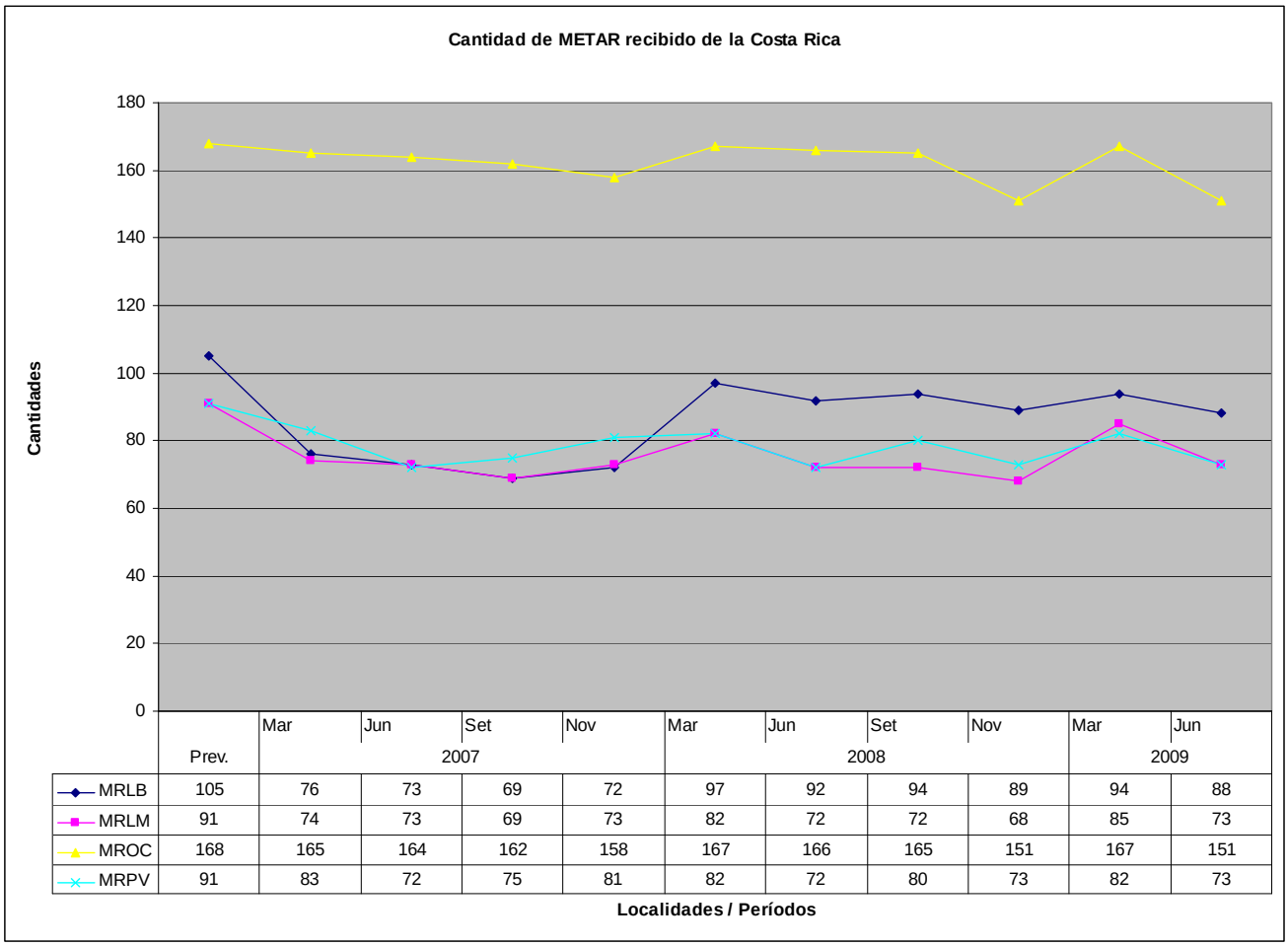


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TNCB	105	76	69	82	79	69	42	70	60	51	96
TNCC	168	164	162	165	165	152	149	158	148	148	156
TNCE	98	27	6	12	1	30	34	48	39	59	64
TNCM	168	163	163	163	144	142	145	157	147	145	157

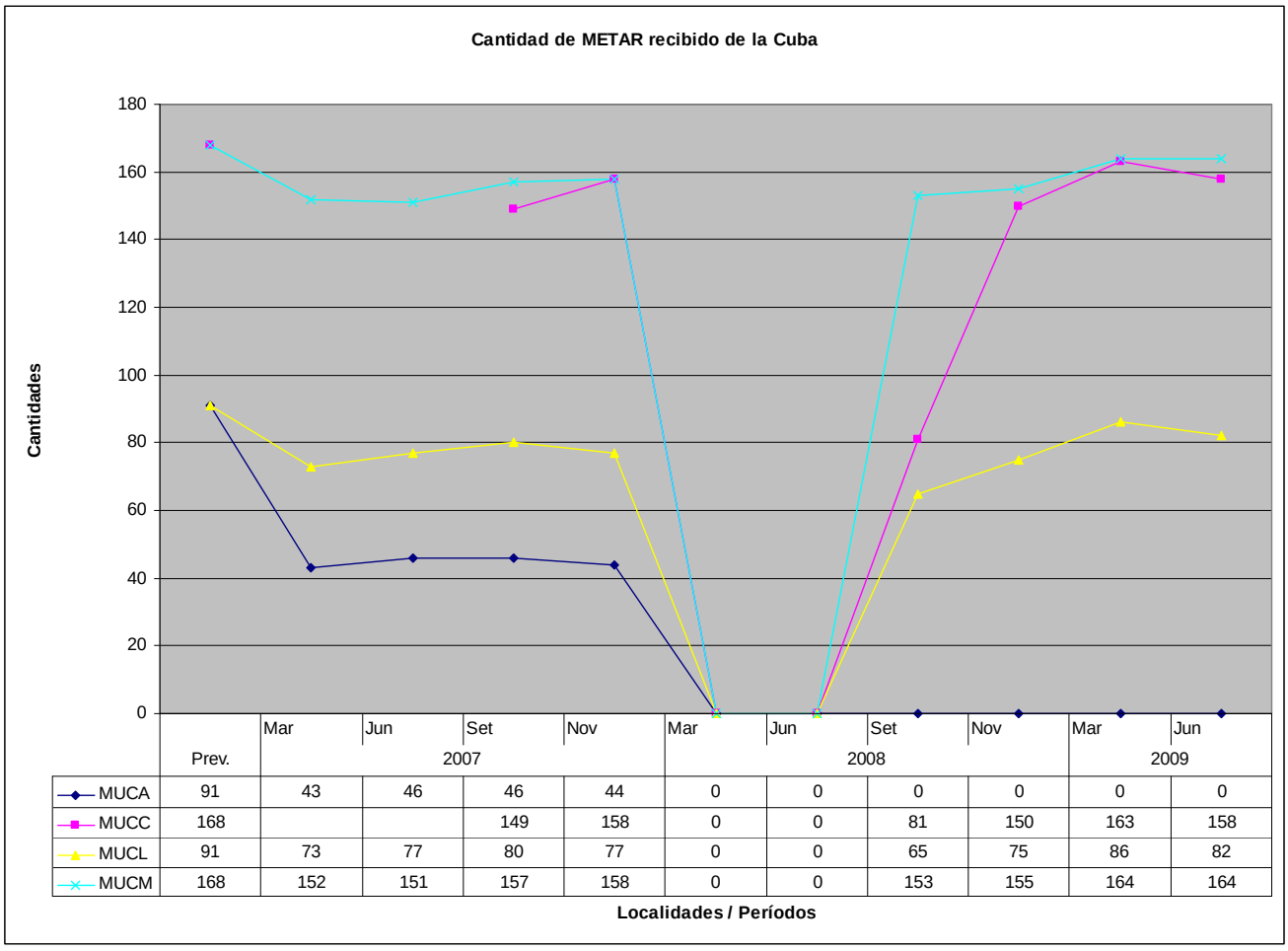

Cantidad de METAR recibido de la Aruba
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TNCA
168
154
138
148
152
144
147
143
137
137
149
Localidades / Períodos


Cantidad de METAR recibido del Barbados
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TBPB
168
162
162
79
165
0
150
159
147
151
154
Localidades / Períodos

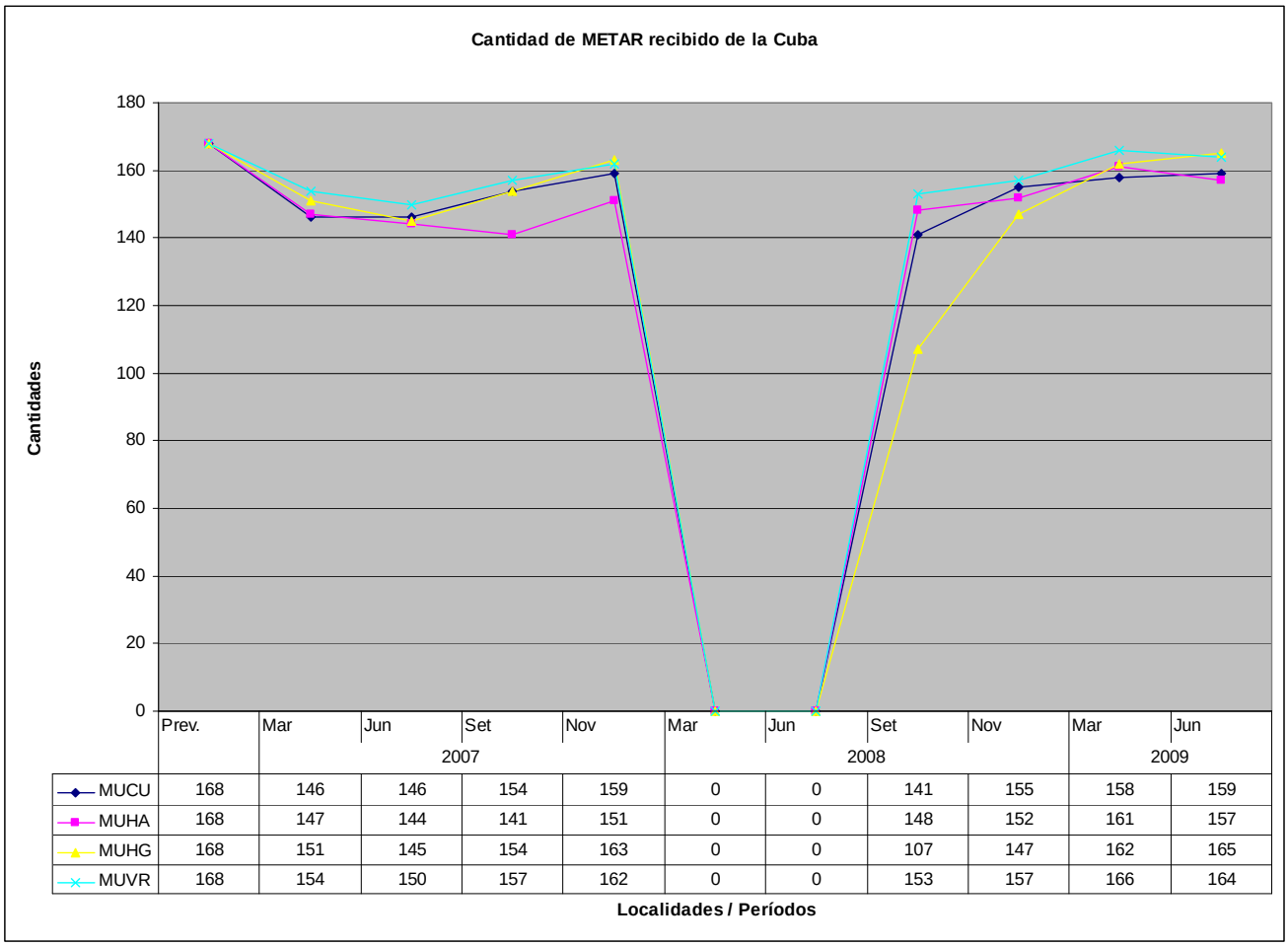

Cantidad de METAR recibido del Belize
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
MZBZ
168
105
101
0
0
0
0
94
74
90
87
Localidades / Períodos



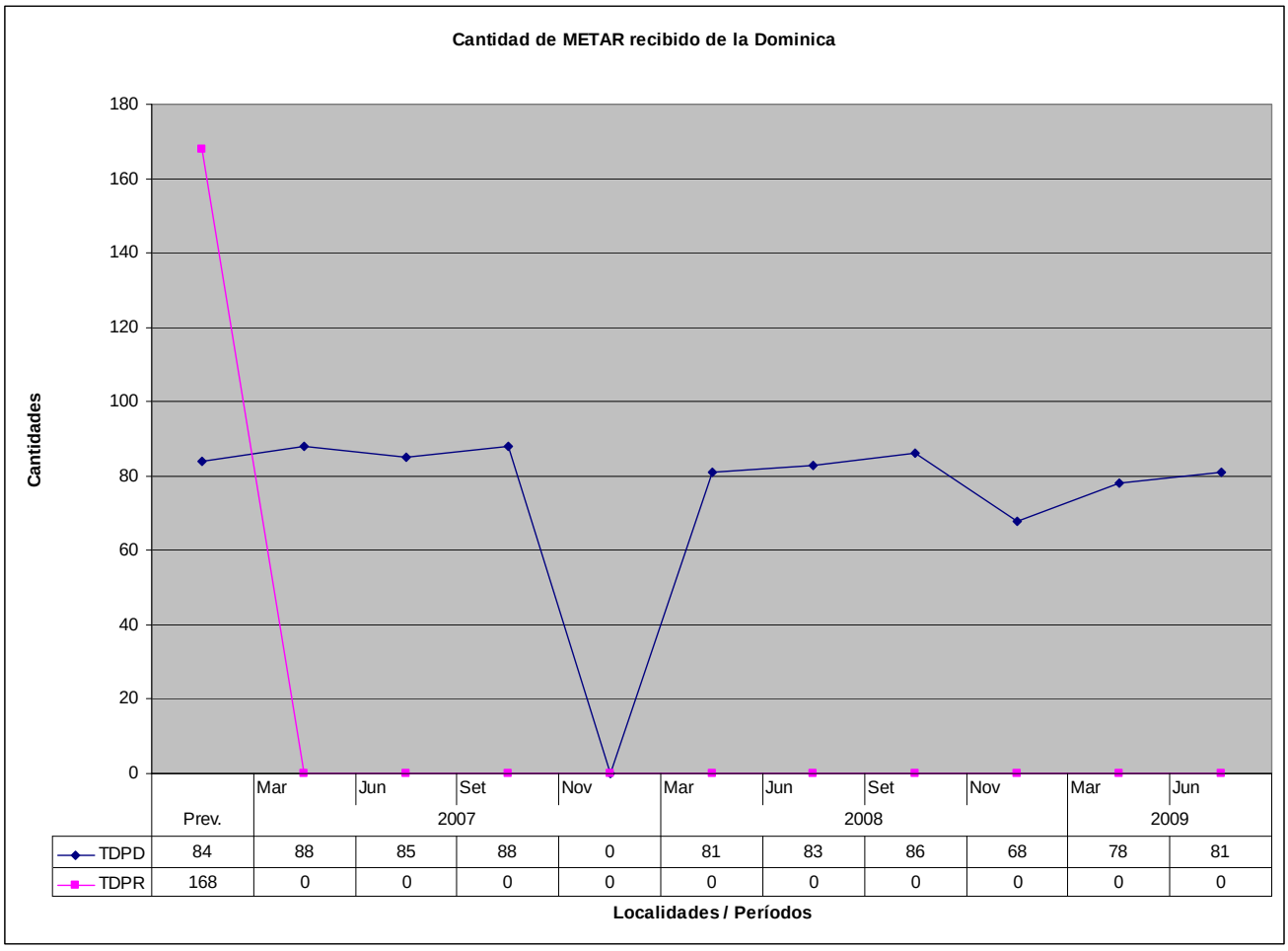
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MRLB	105	76	73	69	72	97	92	94	89	94	88
MRLM	91	74	73	69	73	82	72	72	68	85	73
MROC	168	165	164	162	158	167	166	165	151	167	151
MRPV	91	83	72	75	81	82	72	80	73	82	73



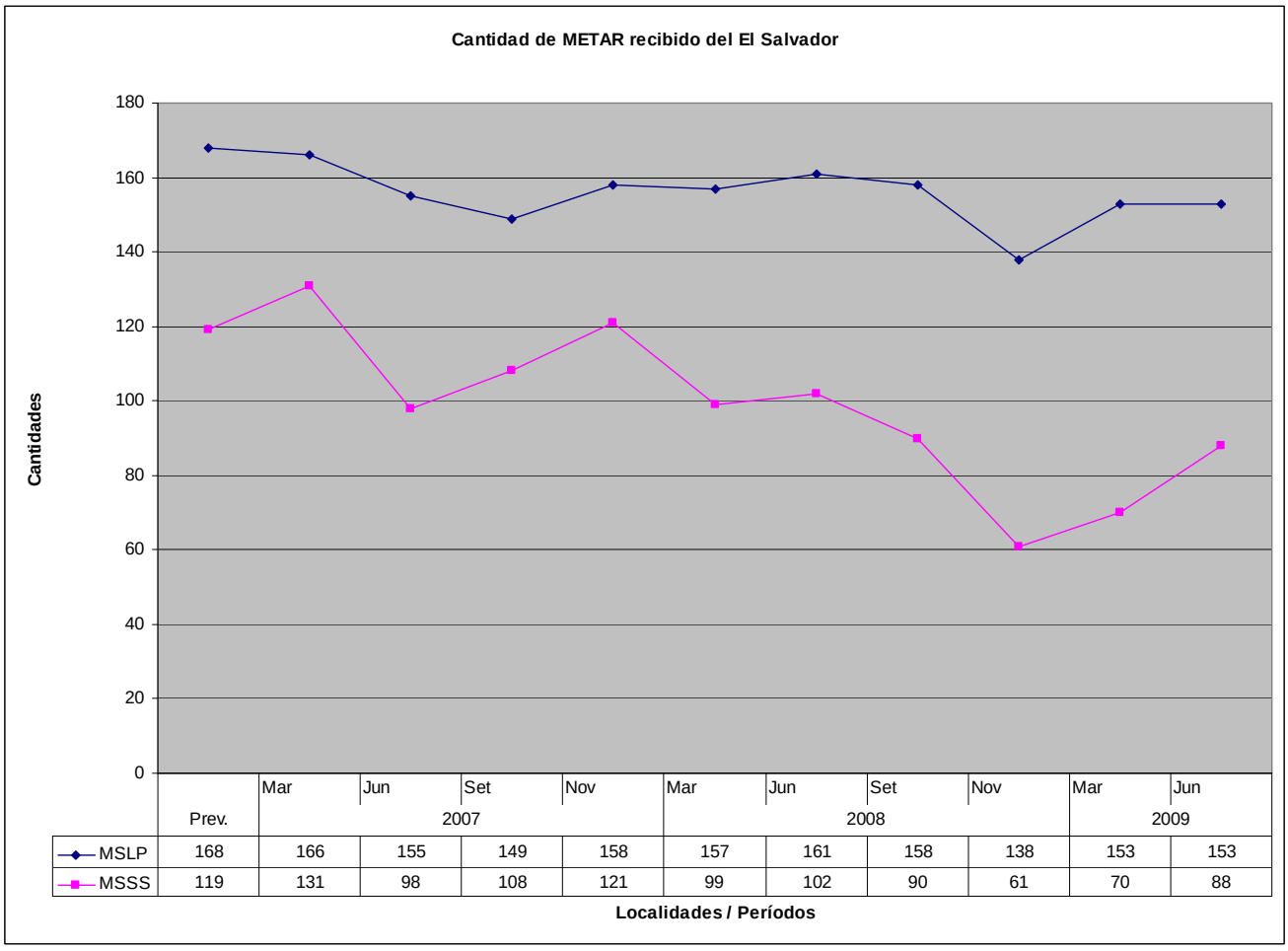
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MUCA	91	43	46	46	44	0	0	0	0	0	0
MUCC	168			149	158	0	0	81	150	163	158
MUCL	91	73	77	80	77	0	0	65	75	86	82
MUCM	168	152	151	157	158	0	0	153	155	164	164

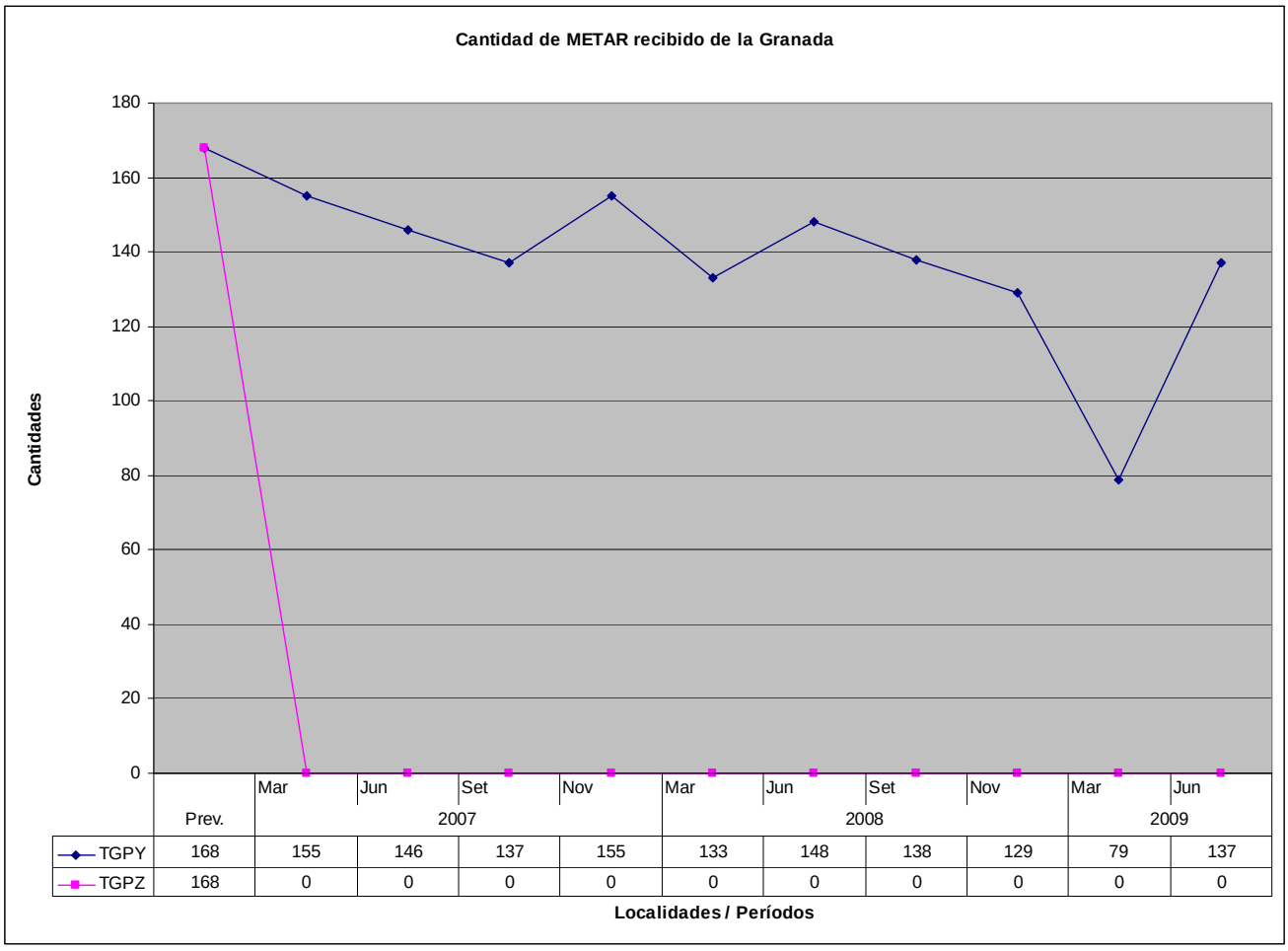


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MUCU	168	146	146	154	159	0	0	141	155	158	159
MUHA	168	147	144	141	151	0	0	148	152	161	157
MUHG	168	151	145	154	163	0	0	107	147	162	165
MUVR	168	154	150	157	162	0	0	153	157	166	164

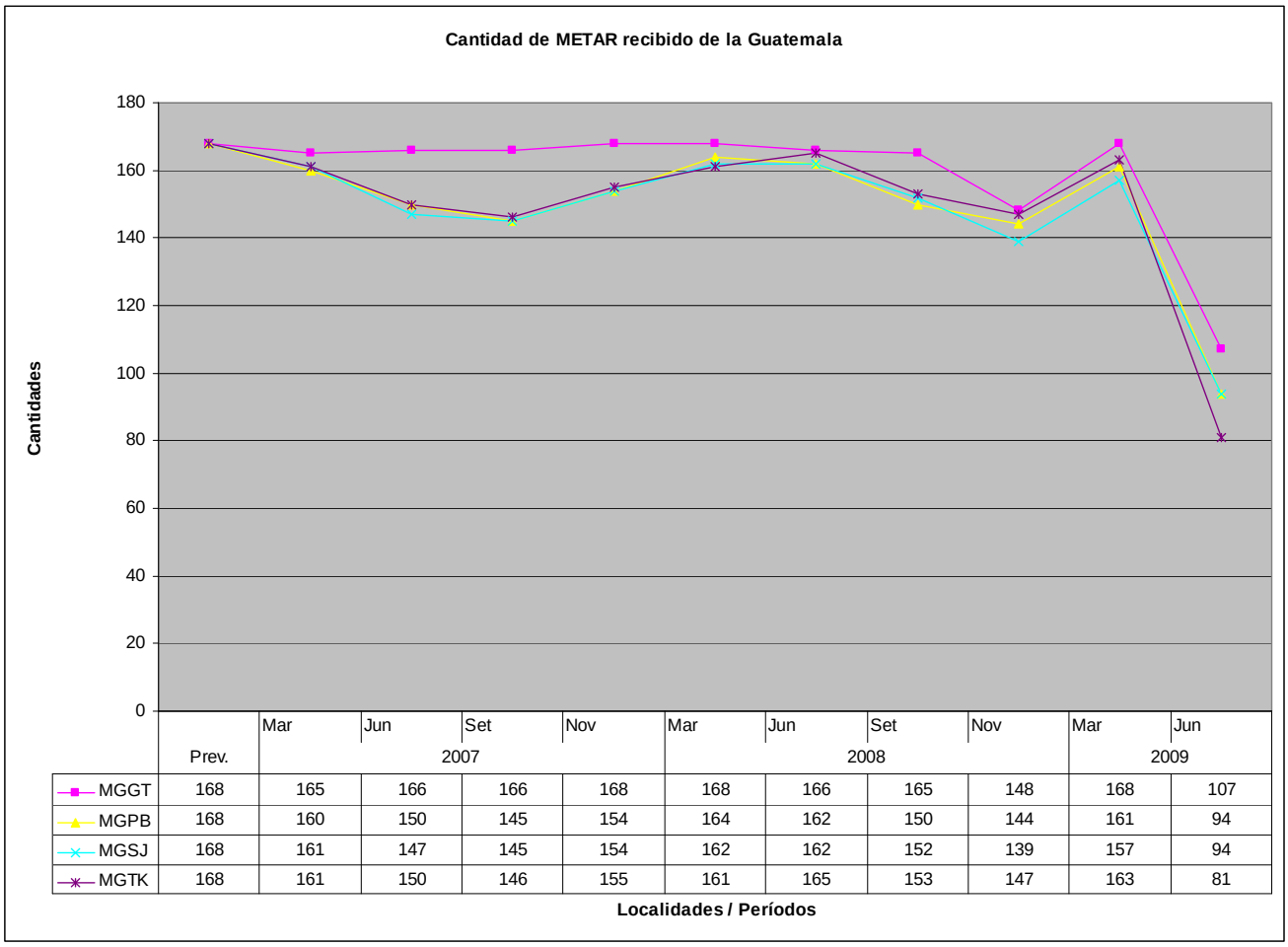


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TDPD	84	88	85	88	0	81	83	86	68	78	81
TDPR	168	0	0	0	0	0	0	0	0	0	0

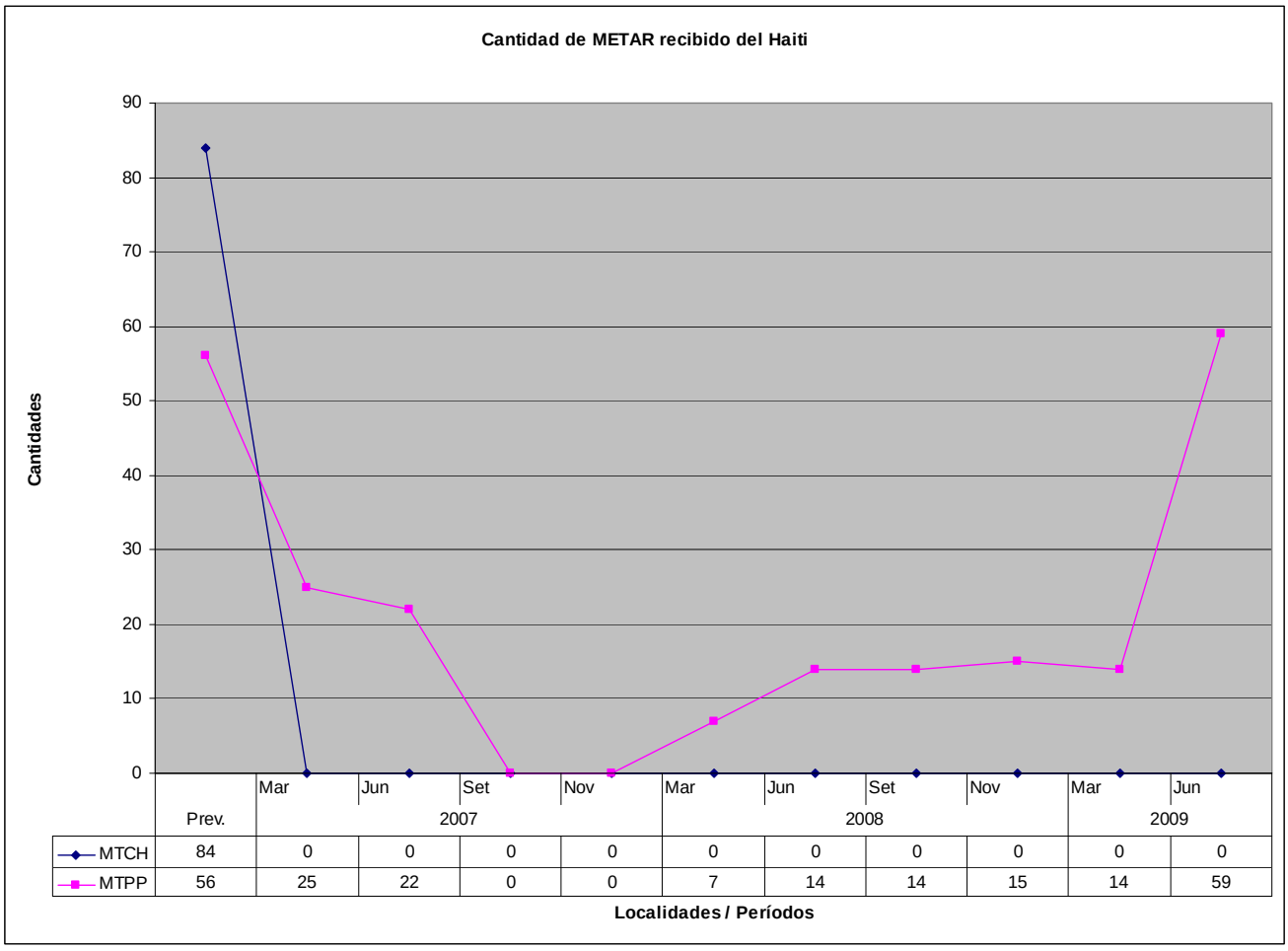

Cantidad de METAR recibido del El Salvador
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
MSLP 168 166 155 149 158 157 161 158 138 153 153
MSSS 119 131 98 108 121 99 102 90 61 70 88
Localidades / Períodos

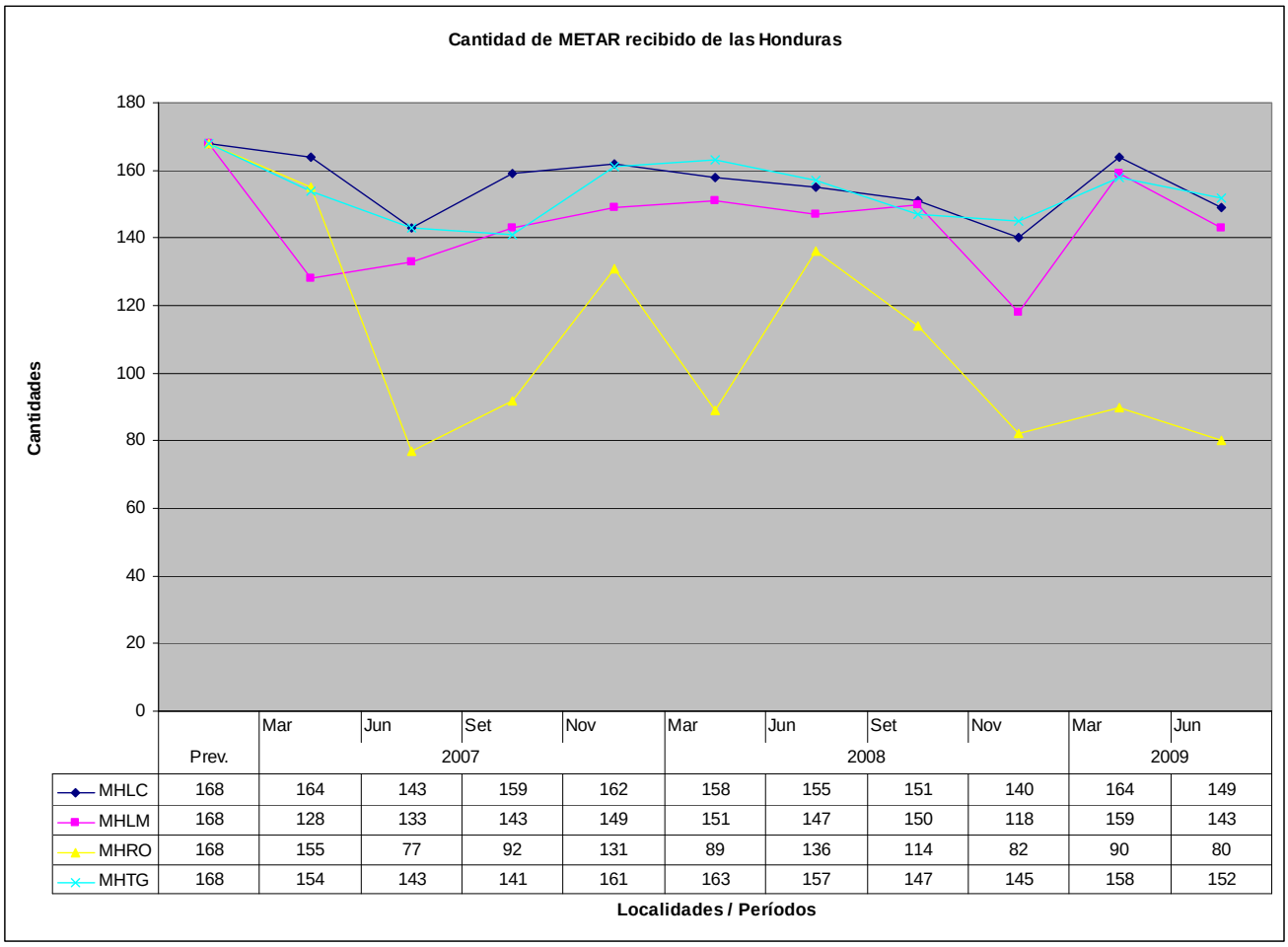


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TGPY	168	155	146	137	155	133	148	138	129	79	137
TGPZ	168	0	0	0	0	0	0	0	0	0	0

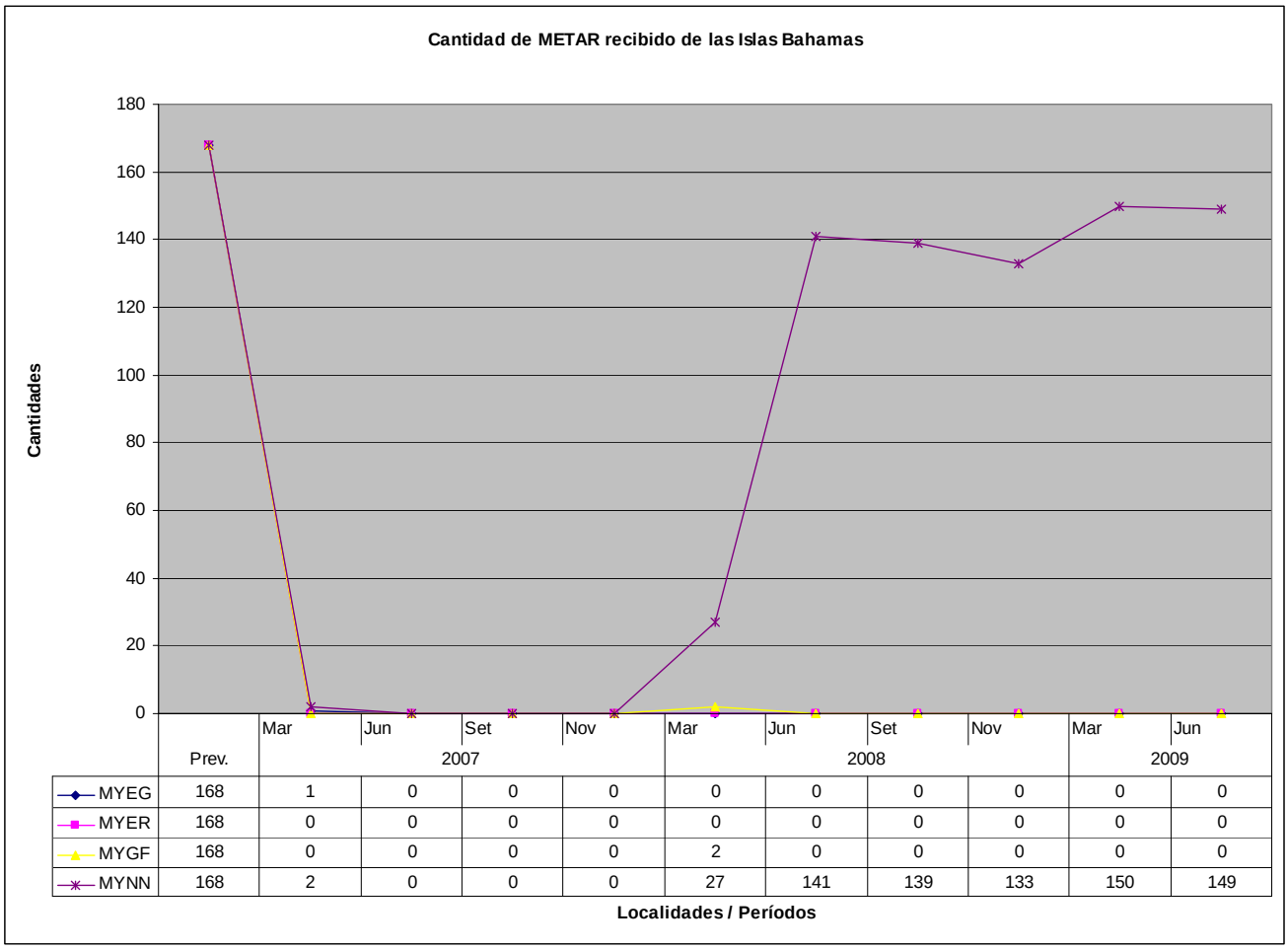


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MGGT	168	165	166	166	168	168	166	165	148	168	107
MGPB	168	160	150	145	154	164	162	150	144	161	94
MGSJ	168	161	147	145	154	162	162	152	139	157	94
MGTK	168	161	150	146	155	161	165	153	147	163	81

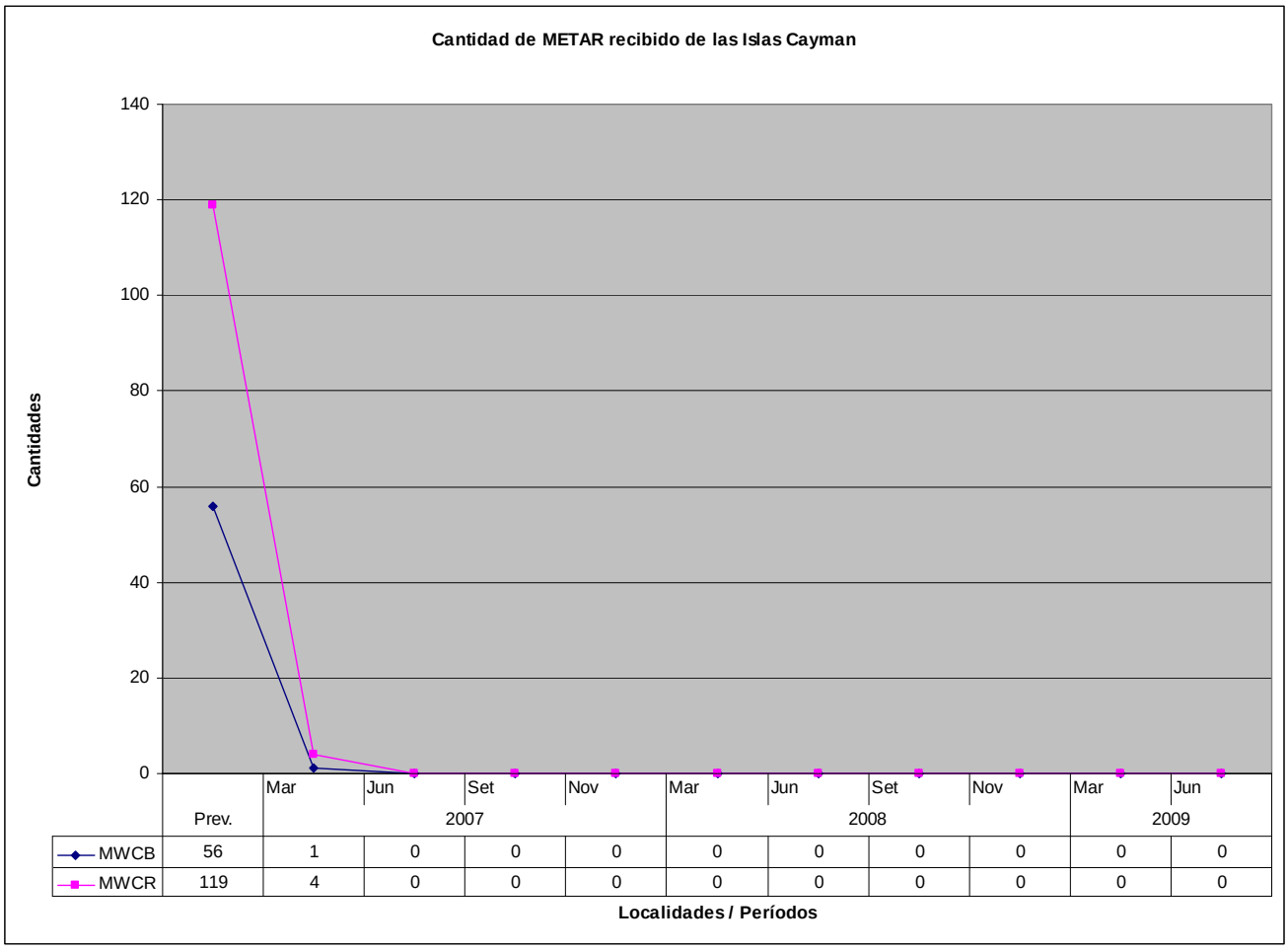

Cantidad de METAR recibido del Haiti
Cantidades
90
80
70
60
50
40
30
20
10
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
MTCH 84 0 0 0 0 0 0 0 0 0 0
MTPP 56 25 22 0 0 7 14 14 15 14 59
Localidades / Períodos

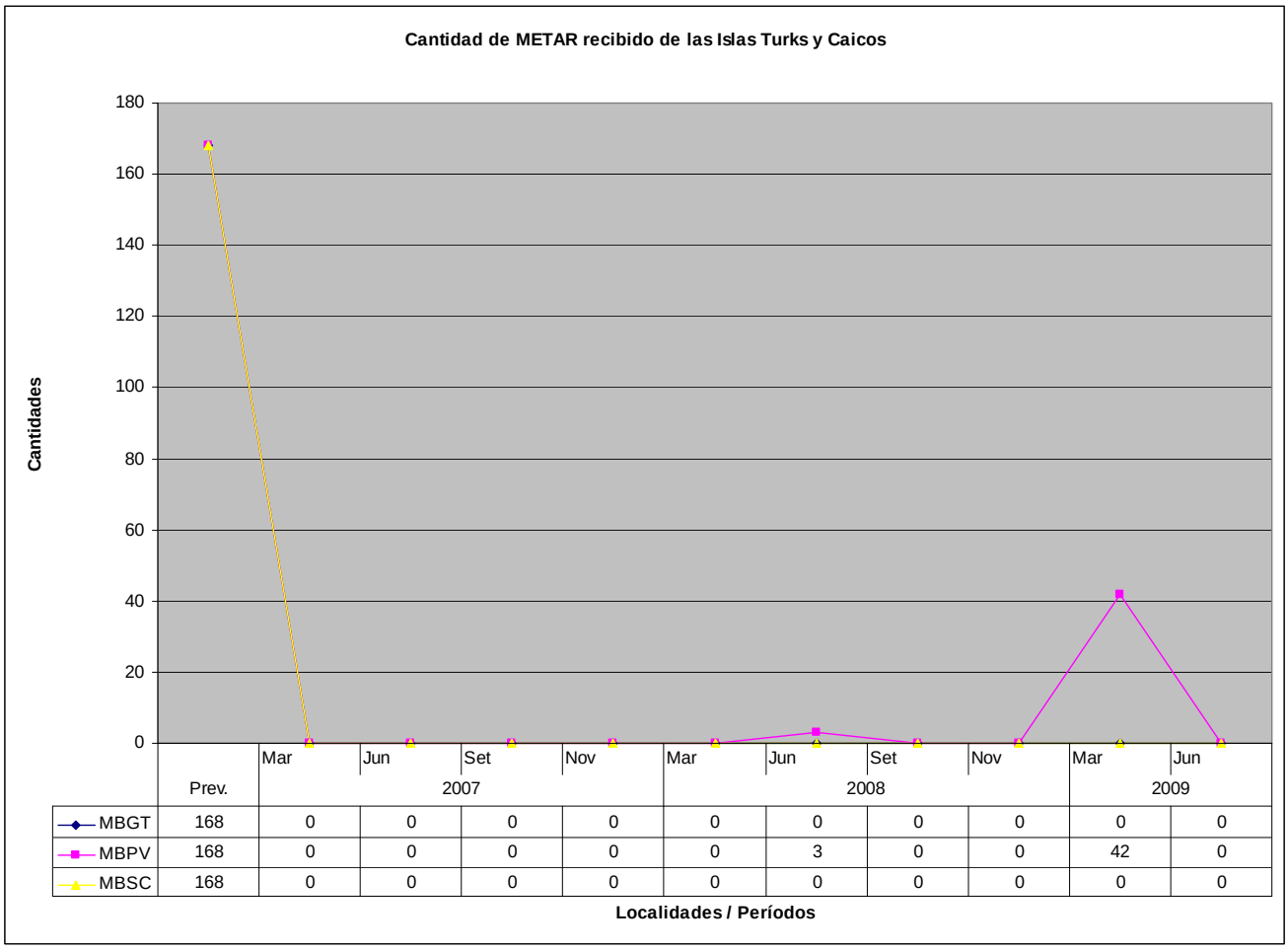


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MHLC	168	164	143	159	162	158	155	151	140	164	149
MHLM	168	128	133	143	149	151	147	150	118	159	143
MHRO	168	155	77	92	131	89	136	114	82	90	80
MHTG	168	154	143	141	161	163	157	147	145	158	152

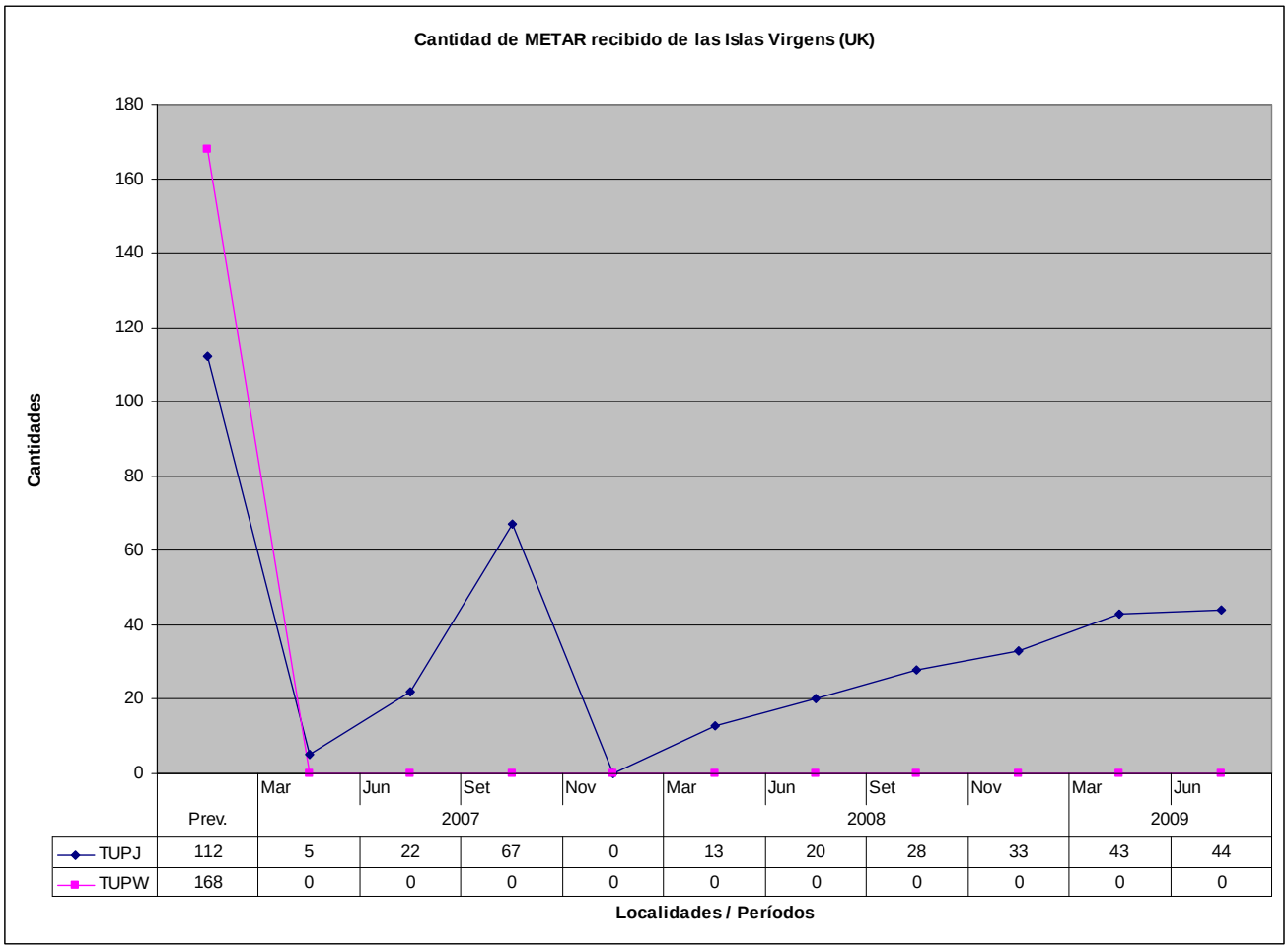


	Prev.	Mar 2007	Jun 2007	Set 2007	Nov 2007	Mar 2008	Jun 2008	Set 2008	Nov 2008	Mar 2009	Jun 2009
MYEG	168	1	0	0	0	0	0	0	0	0	0
MYER	168	0	0	0	0	0	0	0	0	0	0
MYGF	168	0	0	0	0	2	0	0	0	0	0
MYNN	168	2	0	0	0	27	141	139	133	150	149

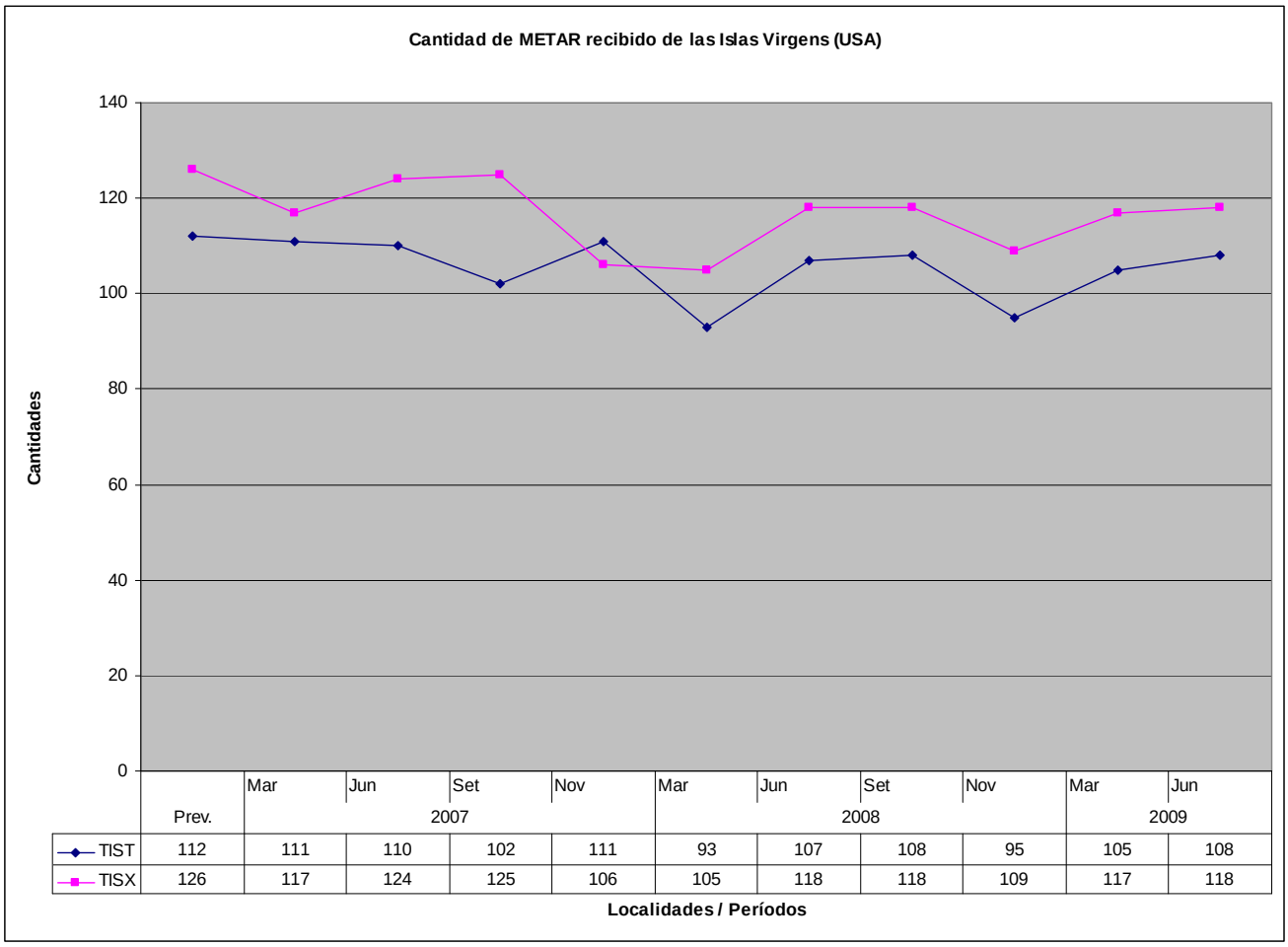

Cantidad de METAR recibido de las Islas Cayman
Cantidades
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
MWCB 56 1 0 0 0 0 0 0 0 0 0
MWCR 119 4 0 0 0 0 0 0 0 0 0
Localidades / Períodos



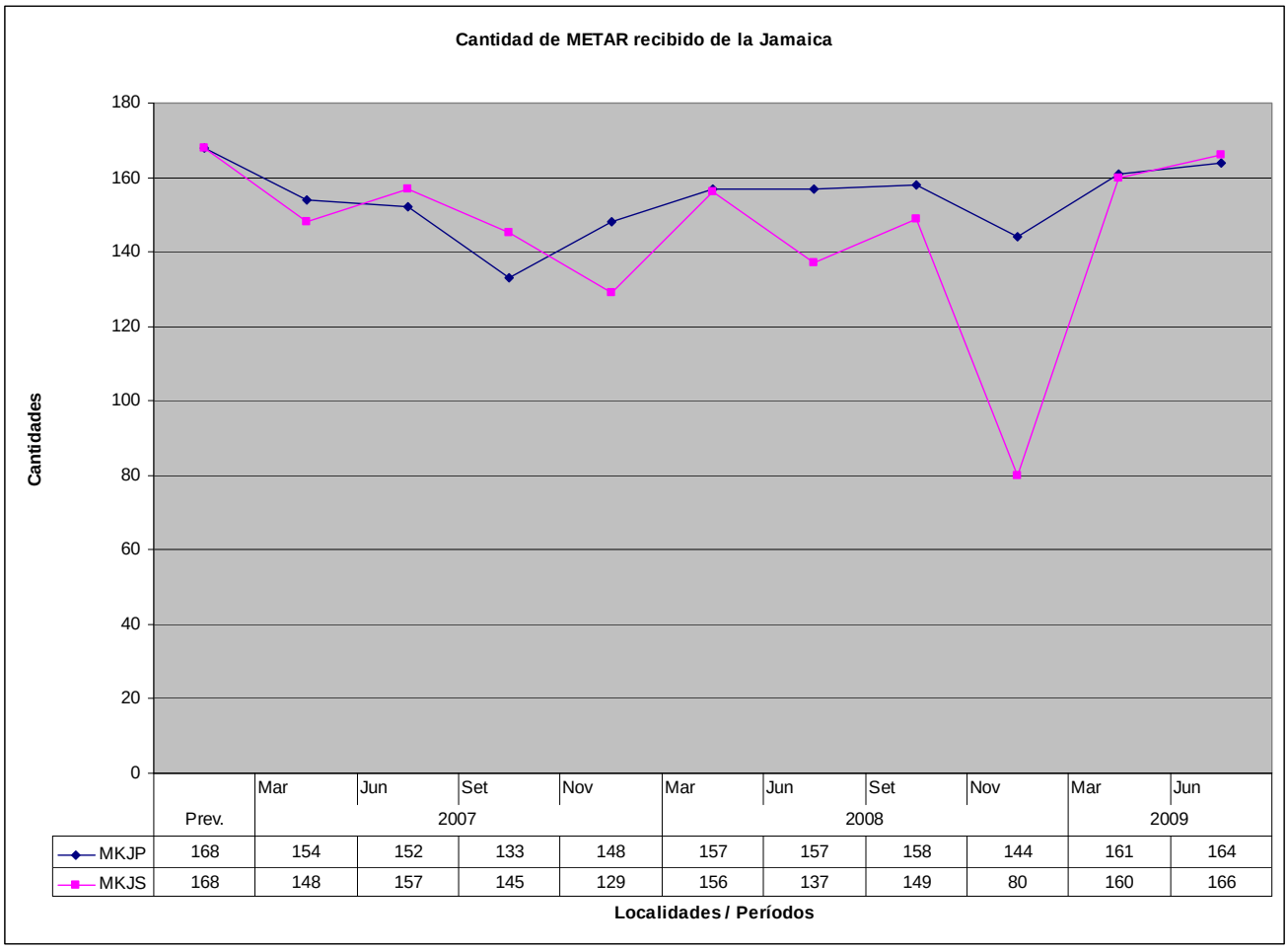
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MBGT	168	0	0	0	0	0	0	0	0	0	0
MBPV	168	0	0	0	0	0	3	0	0	42	0
MBSC	168	0	0	0	0	0	0	0	0	0	0

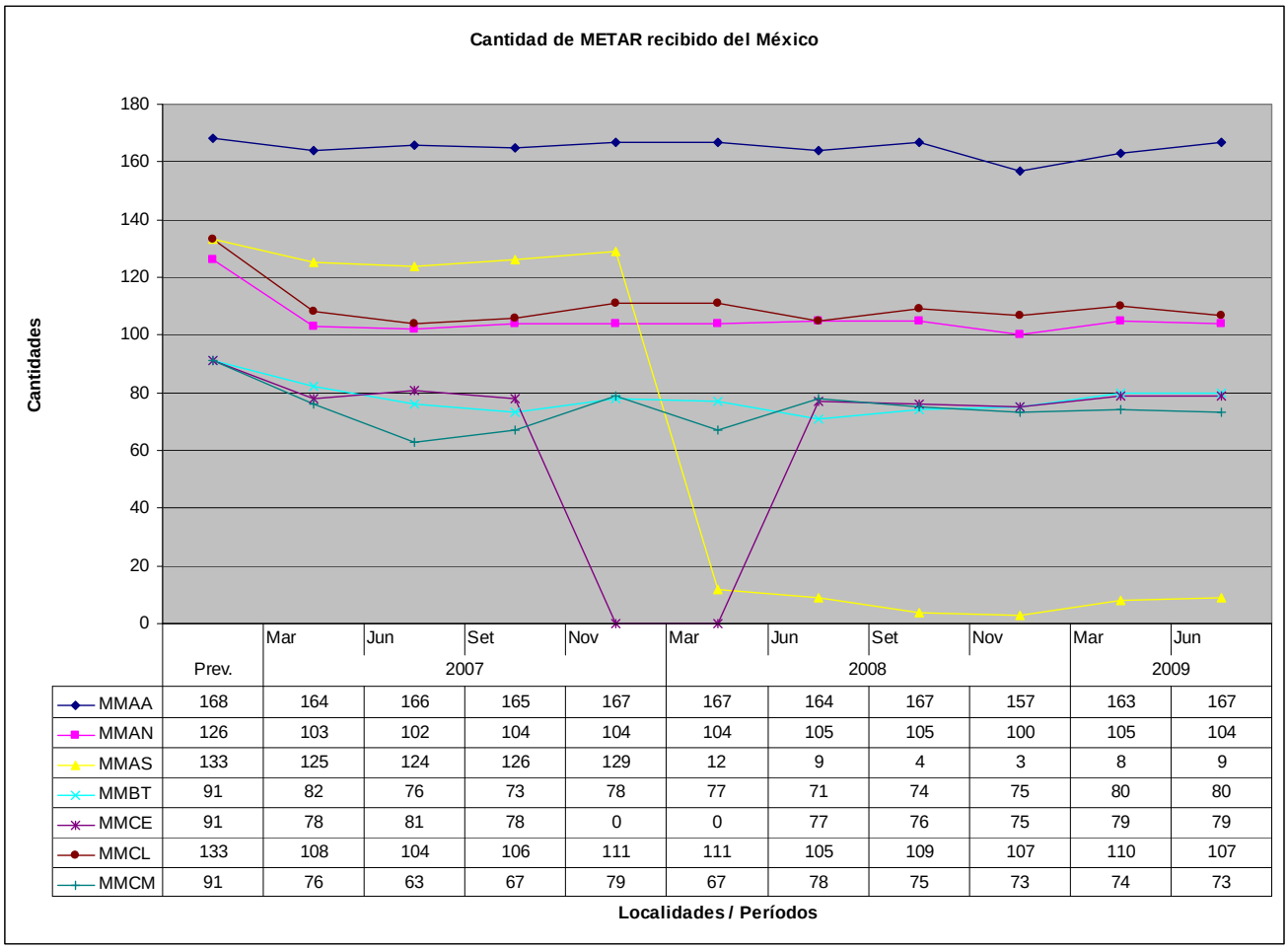


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TUPJ	112	5	22	67	0	13	20	28	33	43	44
TUPW	168	0	0	0	0	0	0	0	0	0	0

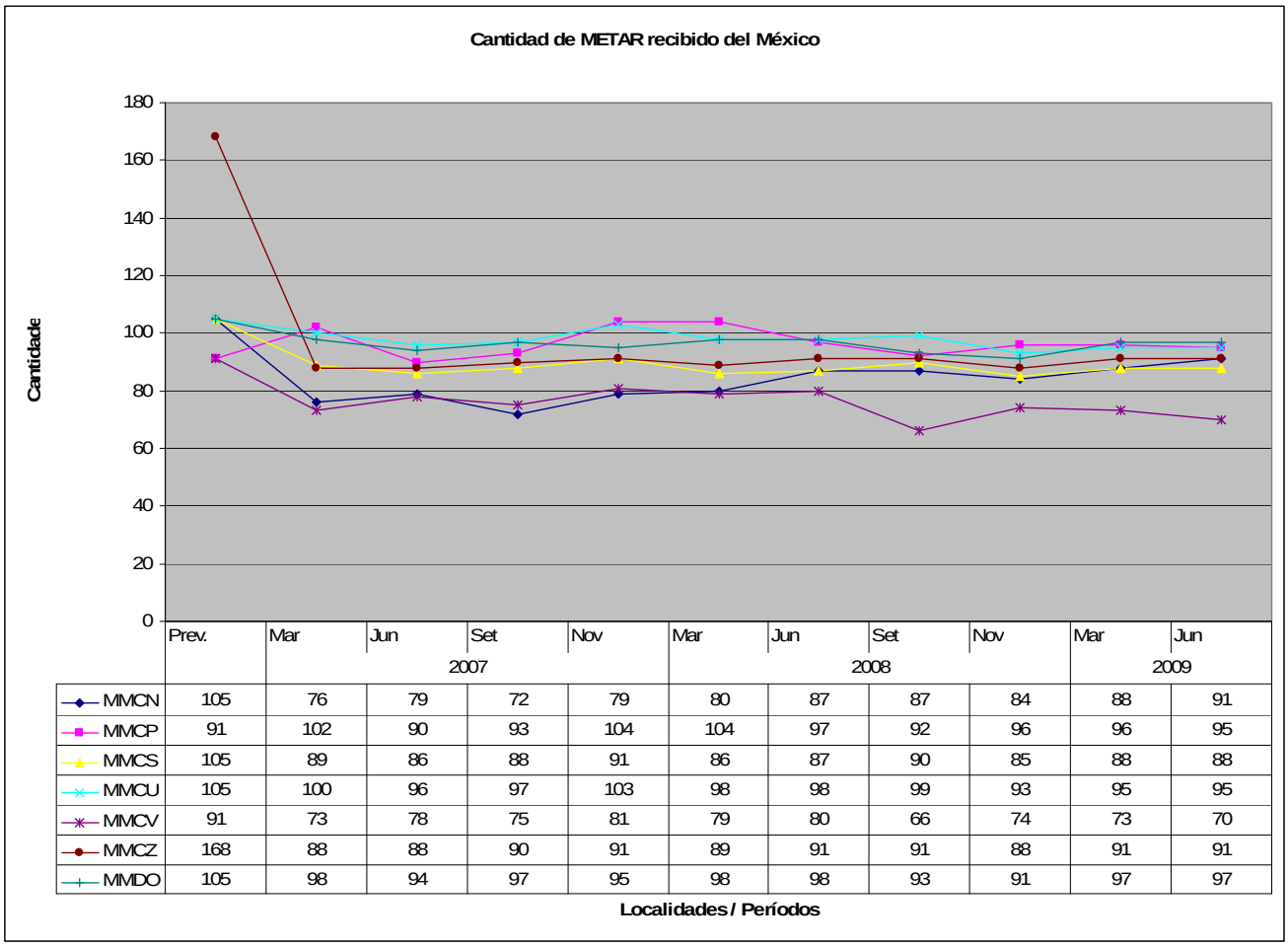


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TIST	112	111	110	102	111	93	107	108	95	105	108
TISX	126	117	124	125	106	105	118	118	109	117	118

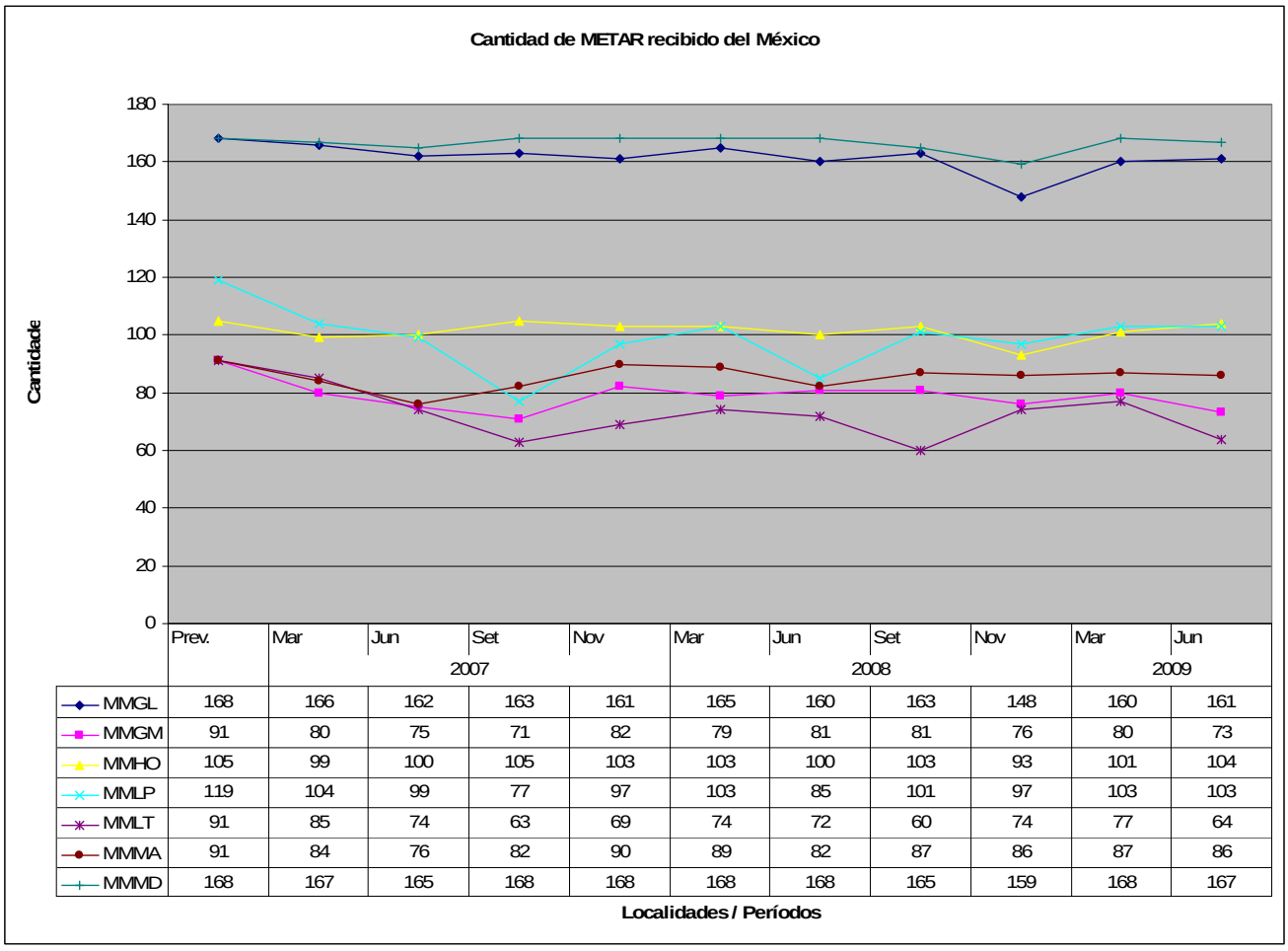

Cantidad de METAR recibido de la Jamaica
Cantidades
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
MKJP 168 154 152 133 148 157 157 158 144 161 164
MKJS 168 148 157 145 129 156 137 149 80 160 166
Localidades / Períodos



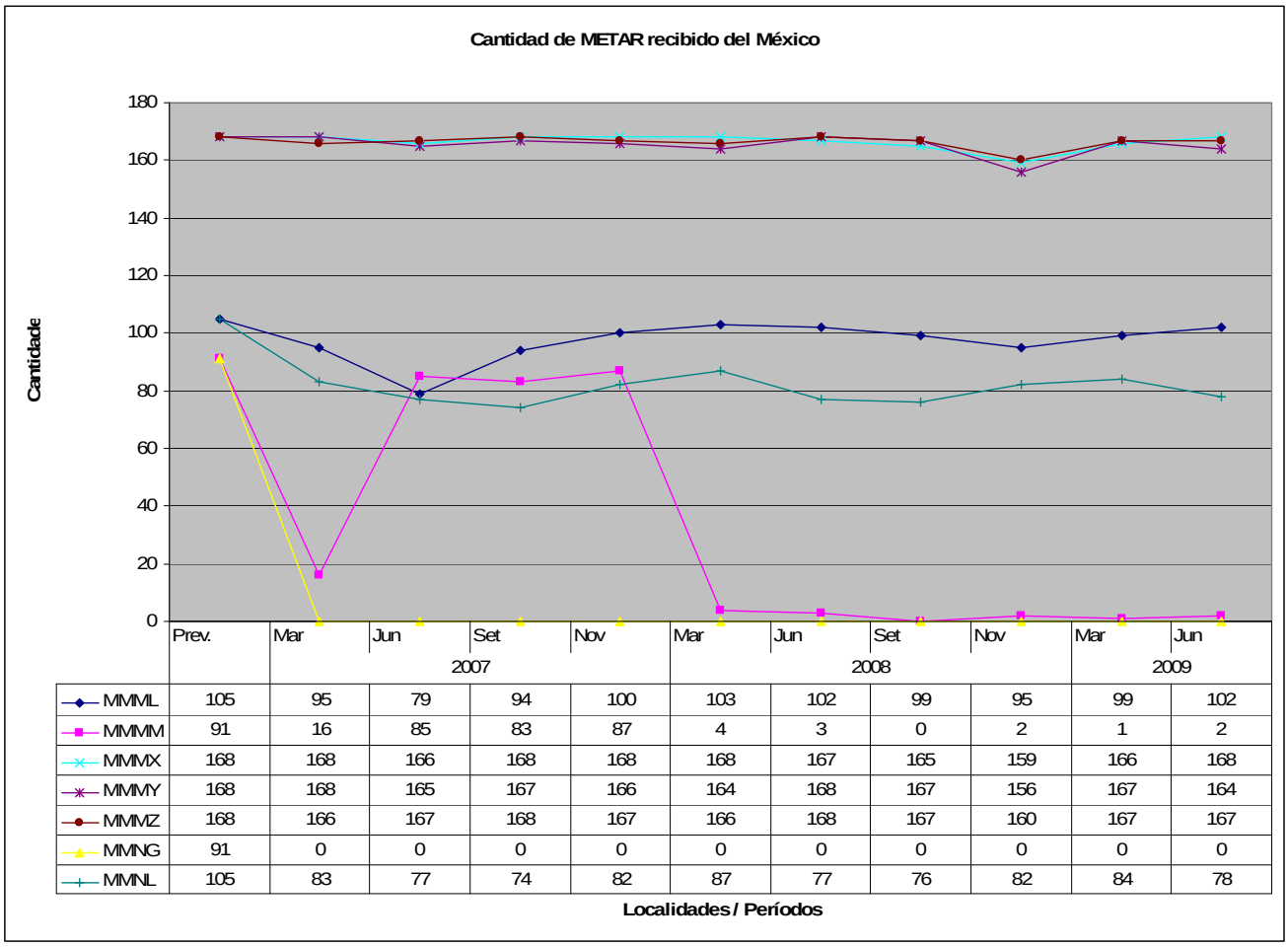
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMAA	168	164	166	165	167	167	164	167	157	163	167
MMAN	126	103	102	104	104	104	105	105	100	105	104
MMAS	133	125	124	126	129	12	9	4	3	8	9
MMBT	91	82	76	73	78	77	71	74	75	80	80
MMCE	91	78	81	78	0	0	77	76	75	79	79
MMCL	133	108	104	106	111	111	105	109	107	110	107
MMCM	91	76	63	67	79	67	78	75	73	74	73



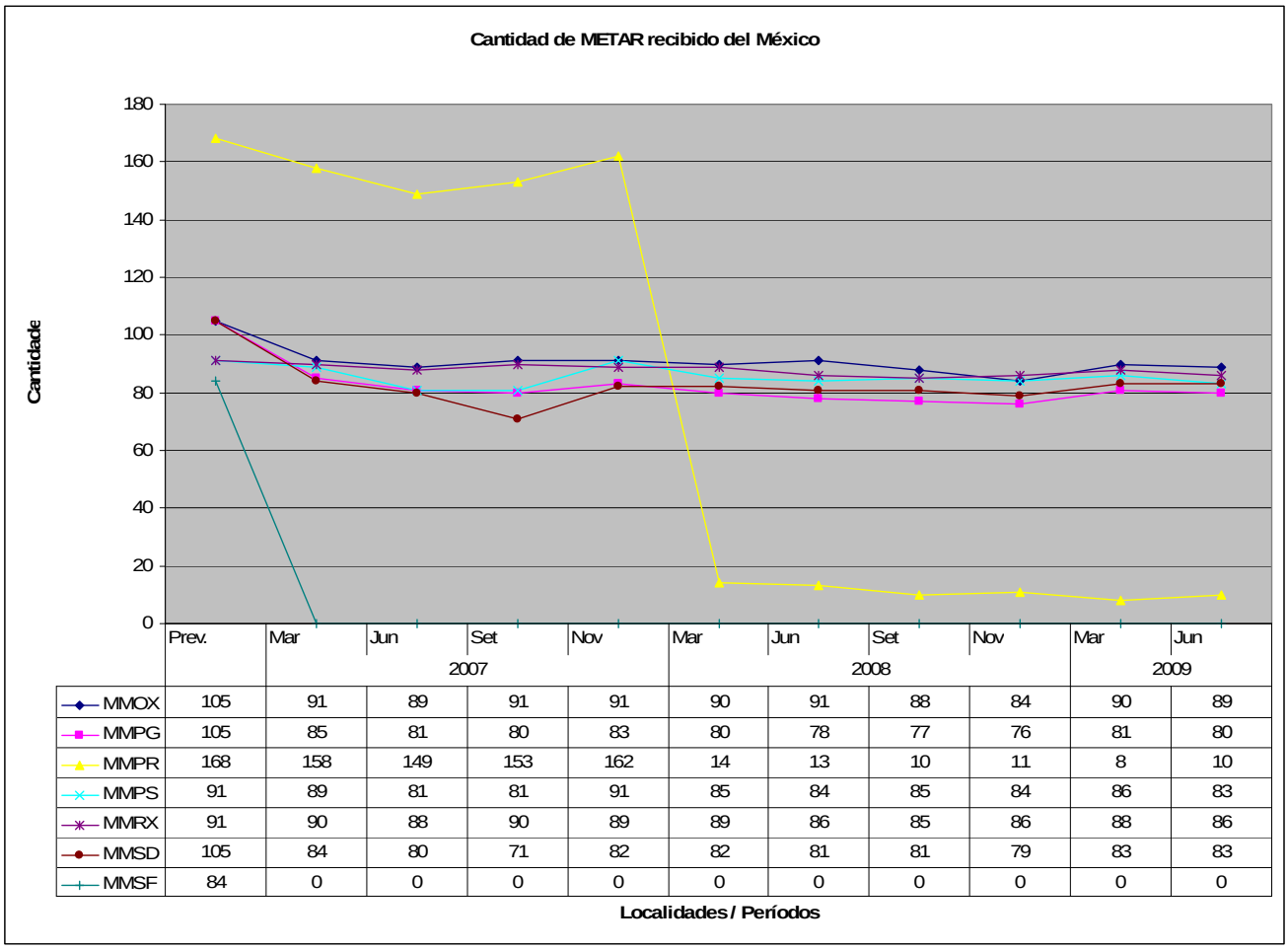
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMCN	105	76	79	72	79	80	87	87	84	88	91
MMCP	91	102	90	93	104	104	97	92	96	96	95
MMCS	105	89	86	88	91	86	87	90	85	88	88
MMCU	105	100	96	97	103	98	98	99	93	95	95
MMCV	91	73	78	75	81	79	80	66	74	73	70
MMCZ	168	88	88	90	91	89	91	91	88	91	91
MMDO	105	98	94	97	95	98	98	93	91	97	97



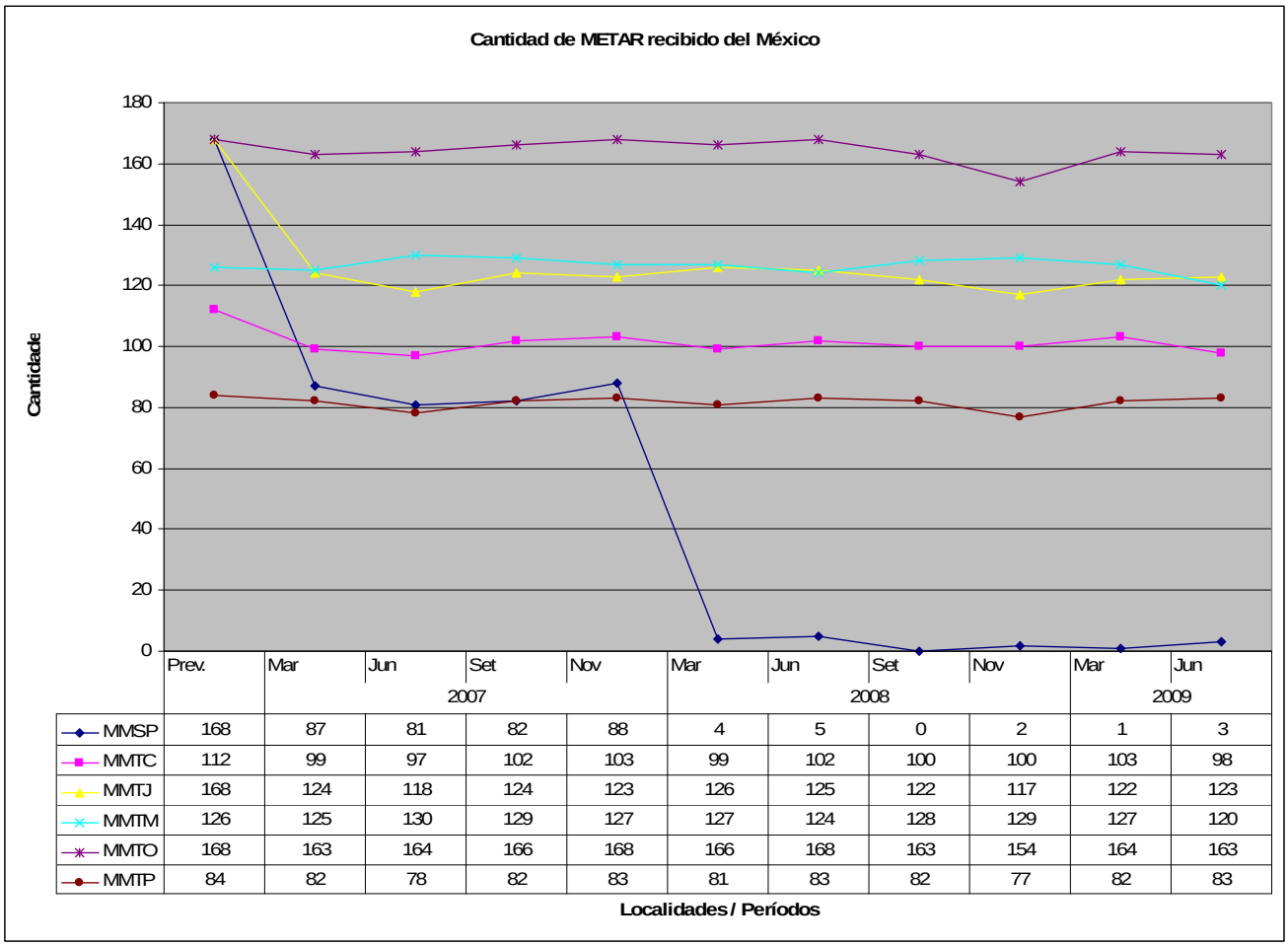
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMGL	168	166	162	163	161	165	160	163	148	160	161
MMGM	91	80	75	71	82	79	81	81	76	80	73
MMHO	105	99	100	105	103	103	100	103	93	101	104
MMLP	119	104	99	77	97	103	85	101	97	103	103
MMLT	91	85	74	63	69	74	72	60	74	77	64
MMMA	91	84	76	82	90	89	82	87	86	87	86
MMMD	168	167	165	168	168	168	168	165	159	168	167



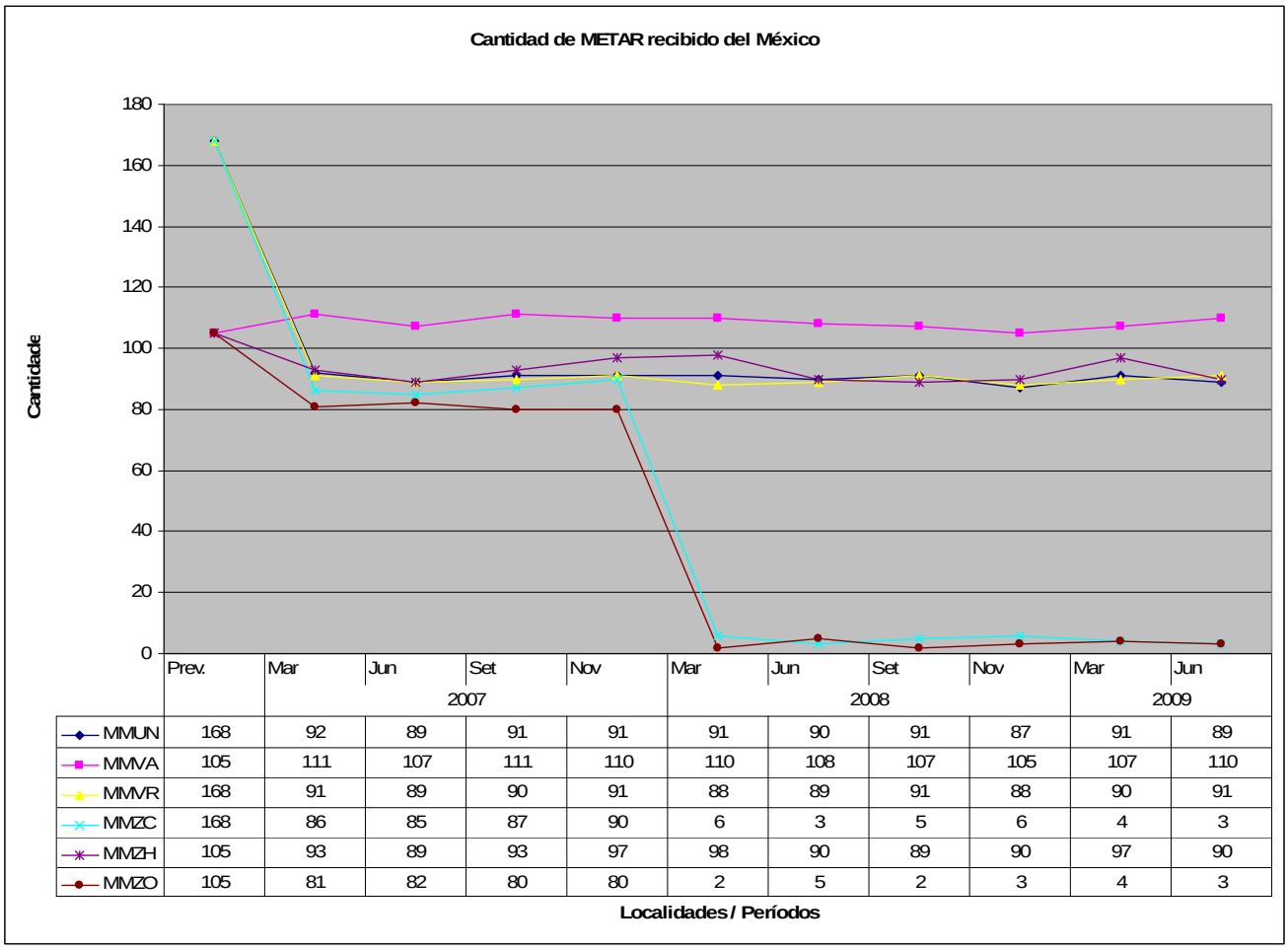
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMML	105	95	79	94	100	103	102	99	95	99	102
MMMM	91	16	85	83	87	4	3	0	2	1	2
MMMX	168	168	166	168	168	168	167	165	159	166	168
MMMY	168	168	165	167	166	164	168	167	156	167	164
MMMZ	168	166	167	168	167	166	168	167	160	167	167
MMNG	91	0	0	0	0	0	0	0	0	0	0
MMNL	105	83	77	74	82	87	77	76	82	84	78



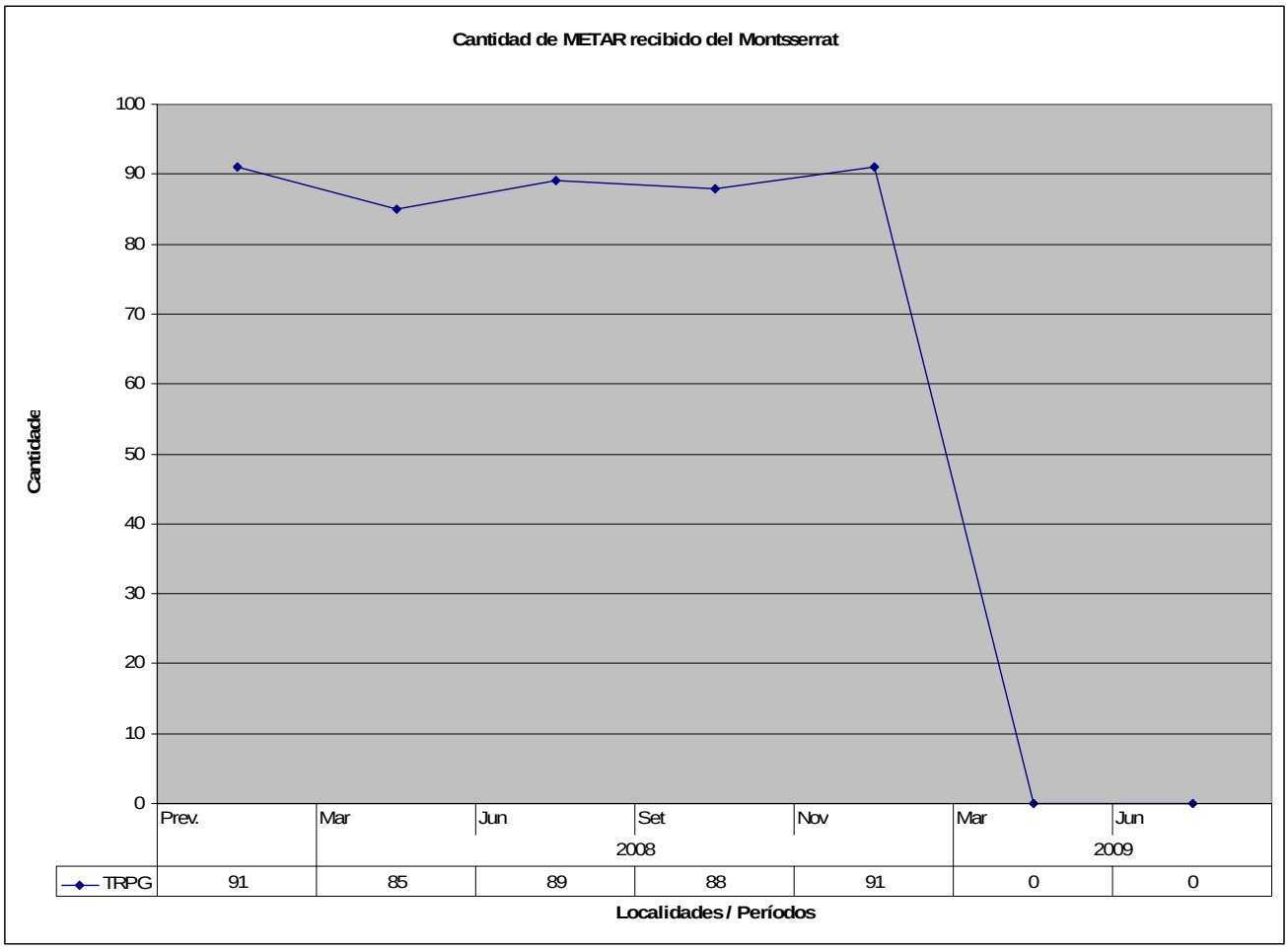
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMOX	105	91	89	91	91	90	91	88	84	90	89
MMPG	105	85	81	80	83	80	78	77	76	81	80
MMPR	168	158	149	153	162	14	13	10	11	8	10
MMPS	91	89	81	81	91	85	84	85	84	86	83
MMRX	91	90	88	90	89	89	86	85	86	88	86
MMSD	105	84	80	71	82	82	81	81	79	83	83
MMSF	84	0	0	0	0	0	0	0	0	0	0

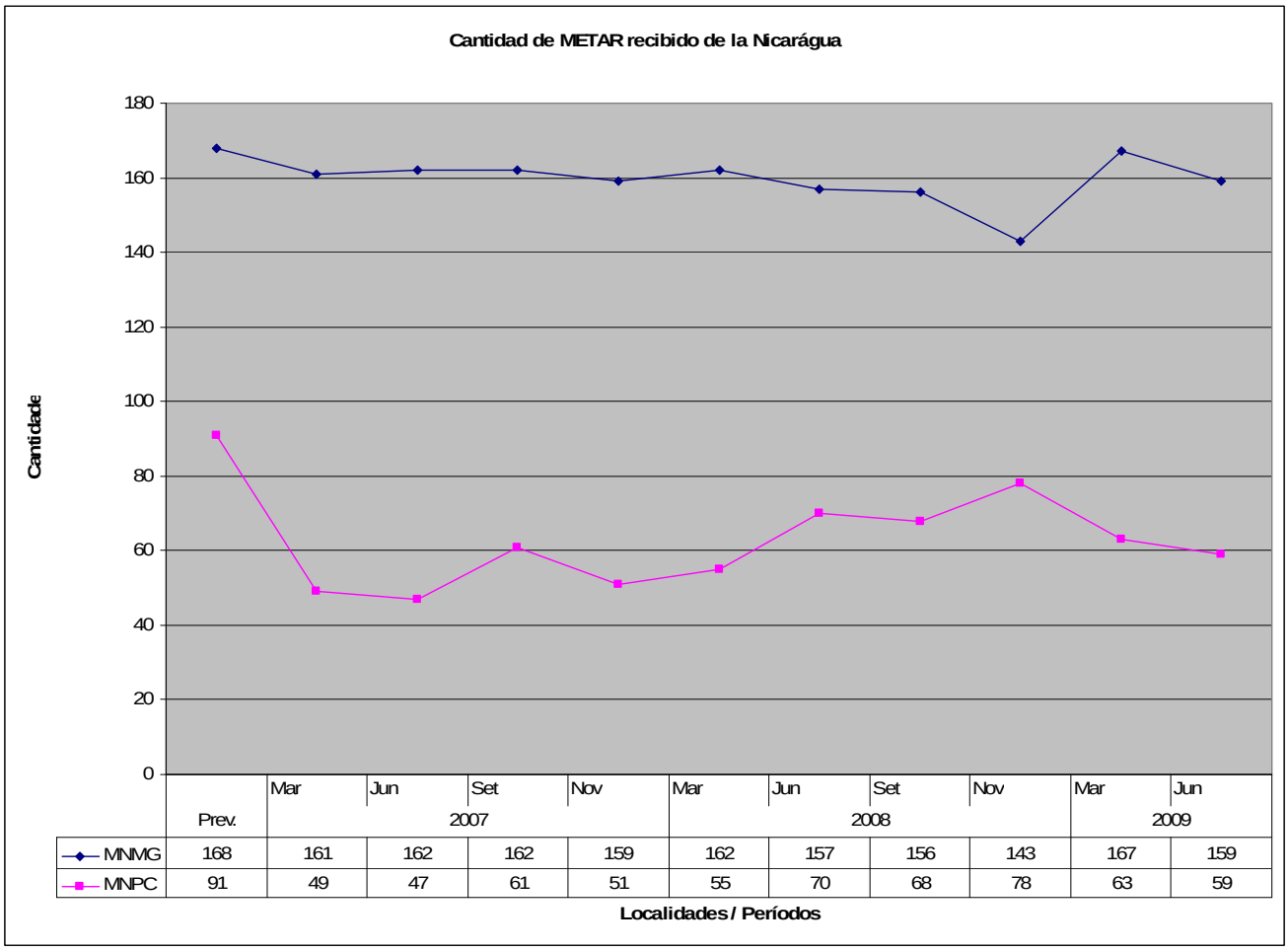


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMSP	168	87	81	82	88	4	5	0	2	1	3
MMTC	112	99	97	102	103	99	102	100	100	103	98
MMTJ	168	124	118	124	123	126	125	122	117	122	123
MMTM	126	125	130	129	127	127	124	128	129	127	120
MMTO	168	163	164	166	168	166	168	163	154	164	163
MMTP	84	82	78	82	83	81	83	82	77	82	83

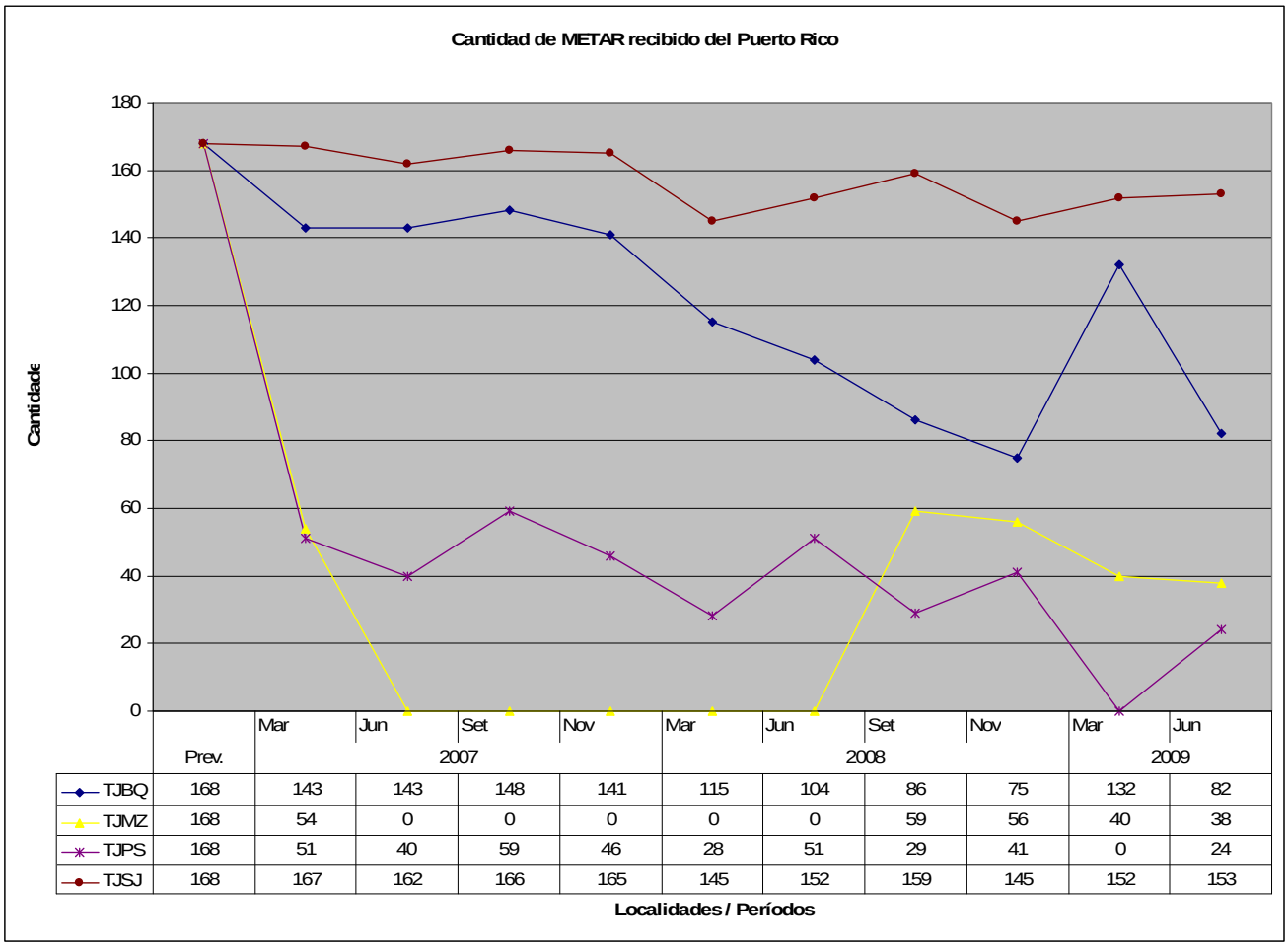


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MMUN	168	92	89	91	91	91	90	91	87	91	89
MMVA	105	111	107	111	110	110	108	107	105	107	110
MMVR	168	91	89	90	91	88	89	91	88	90	91
MMZC	168	86	85	87	90	6	3	5	6	4	3
MMZH	105	93	89	93	97	98	90	89	90	97	90
MMZO	105	81	82	80	80	2	5	2	3	4	3

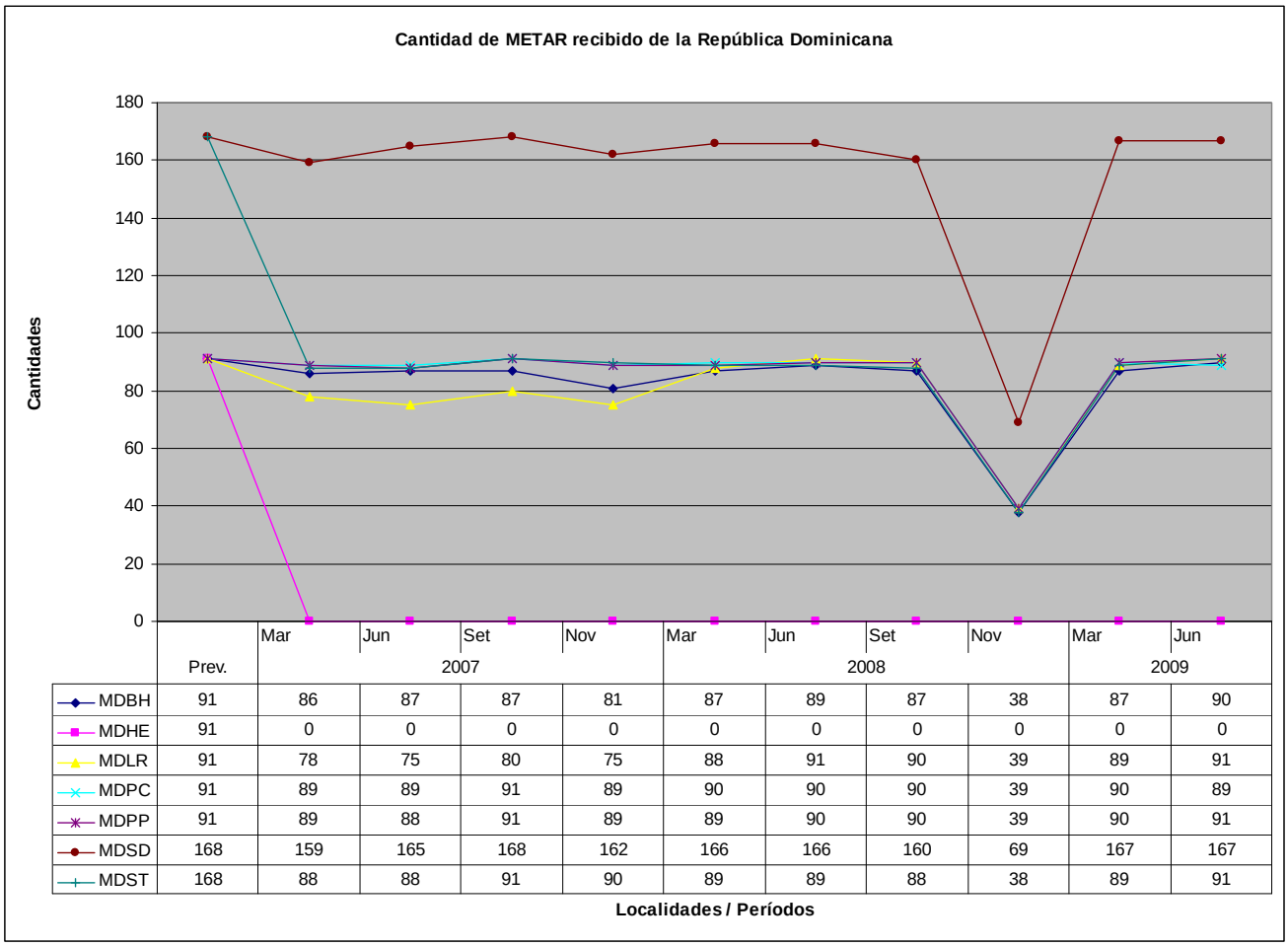

Cantidad de METAR recibido del Montsserrat
Cantidade
100
90
80
70
60
50
40
30
20
10
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
2008
2009
TRPG
91
85
89
88
91
0
0
Localidades / Períodos



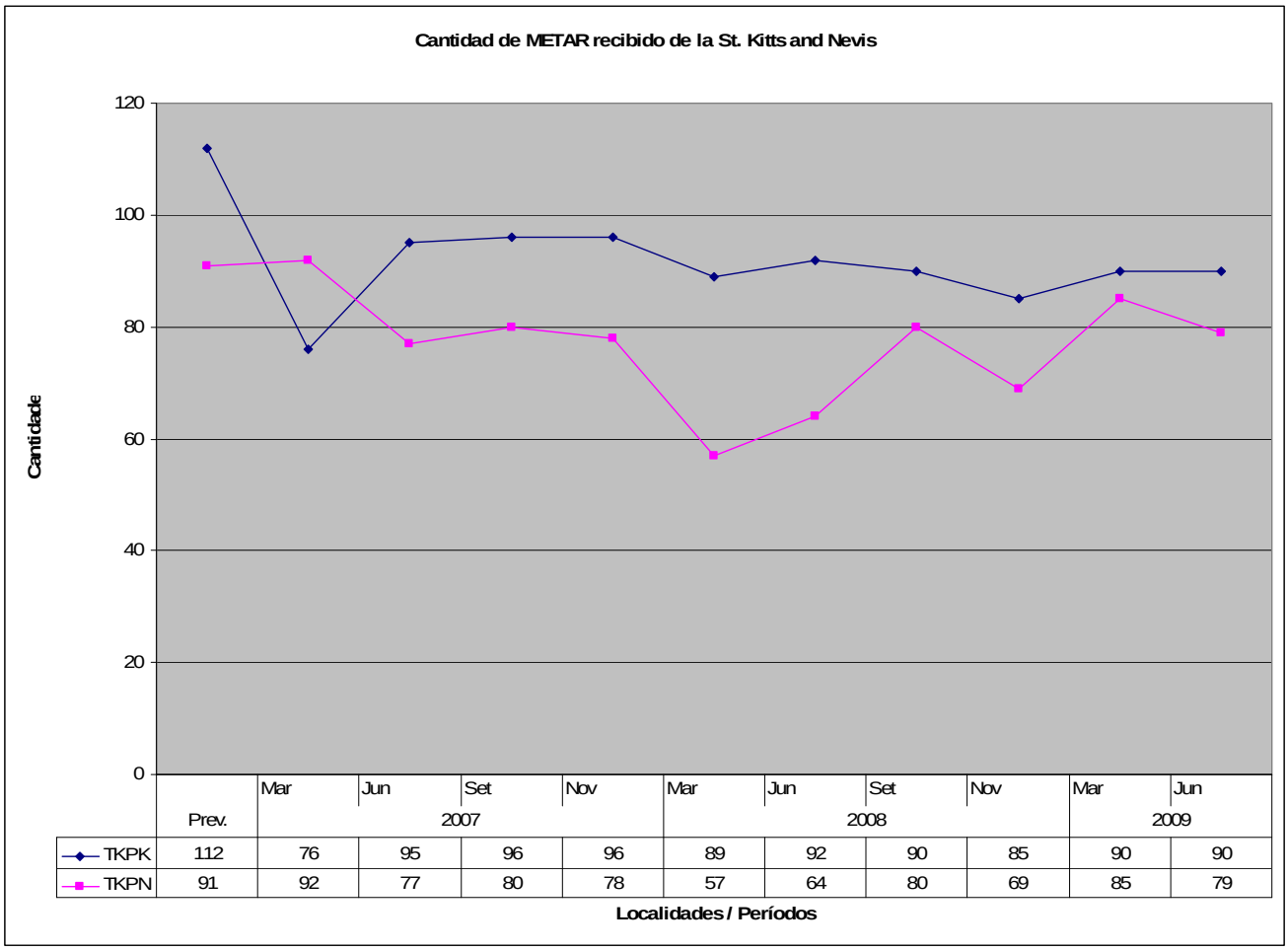
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MNMG	168	161	162	162	159	162	157	156	143	167	159
MNPC	91	49	47	61	51	55	70	68	78	63	59



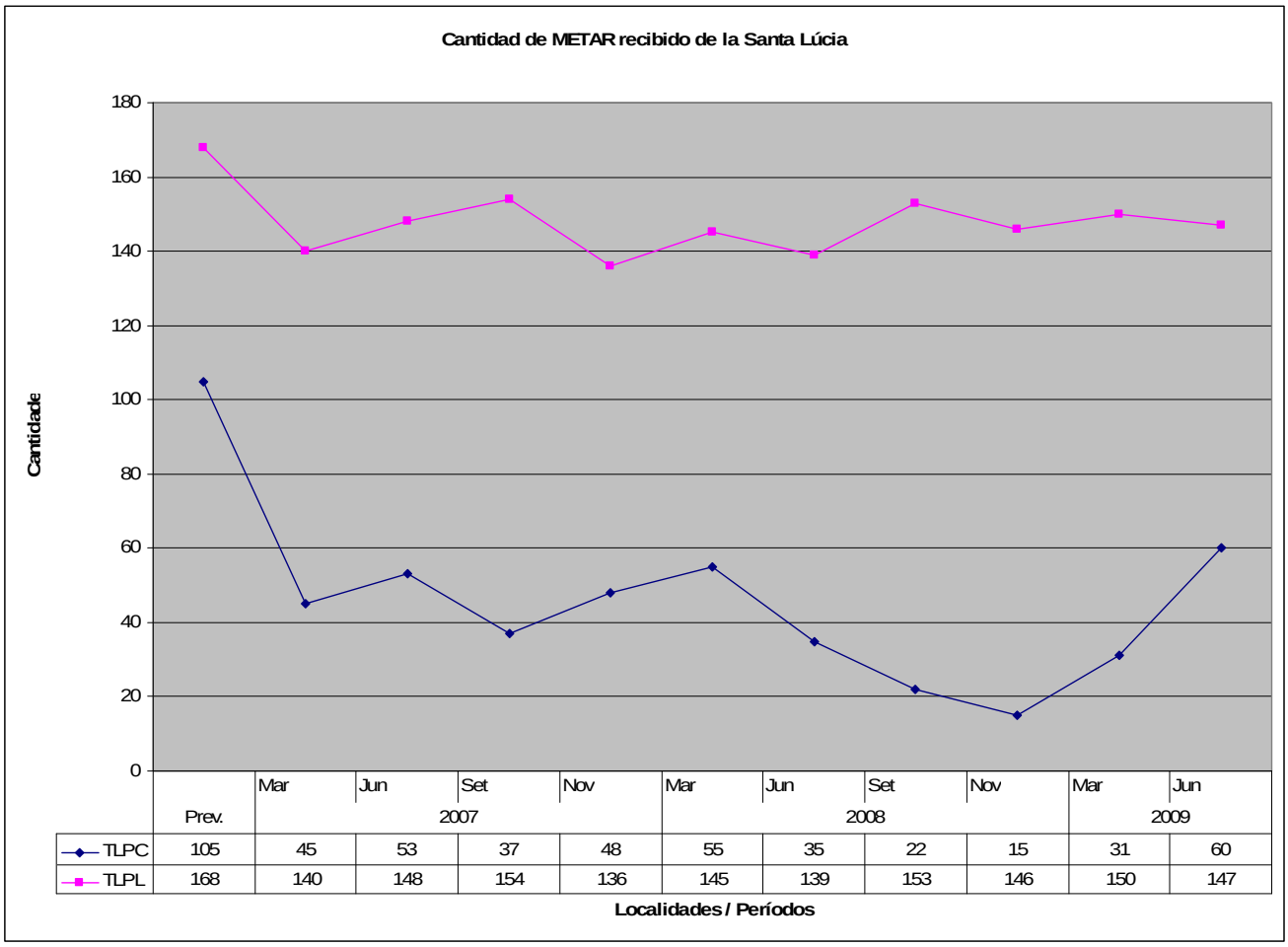
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TJBQ	168	143	143	148	141	115	104	86	75	132	82
TJMZ	168	54	0	0	0	0	0	59	56	40	38
TJPS	168	51	40	59	46	28	51	29	41	0	24
TJSJ	168	167	162	166	165	145	152	159	145	152	153



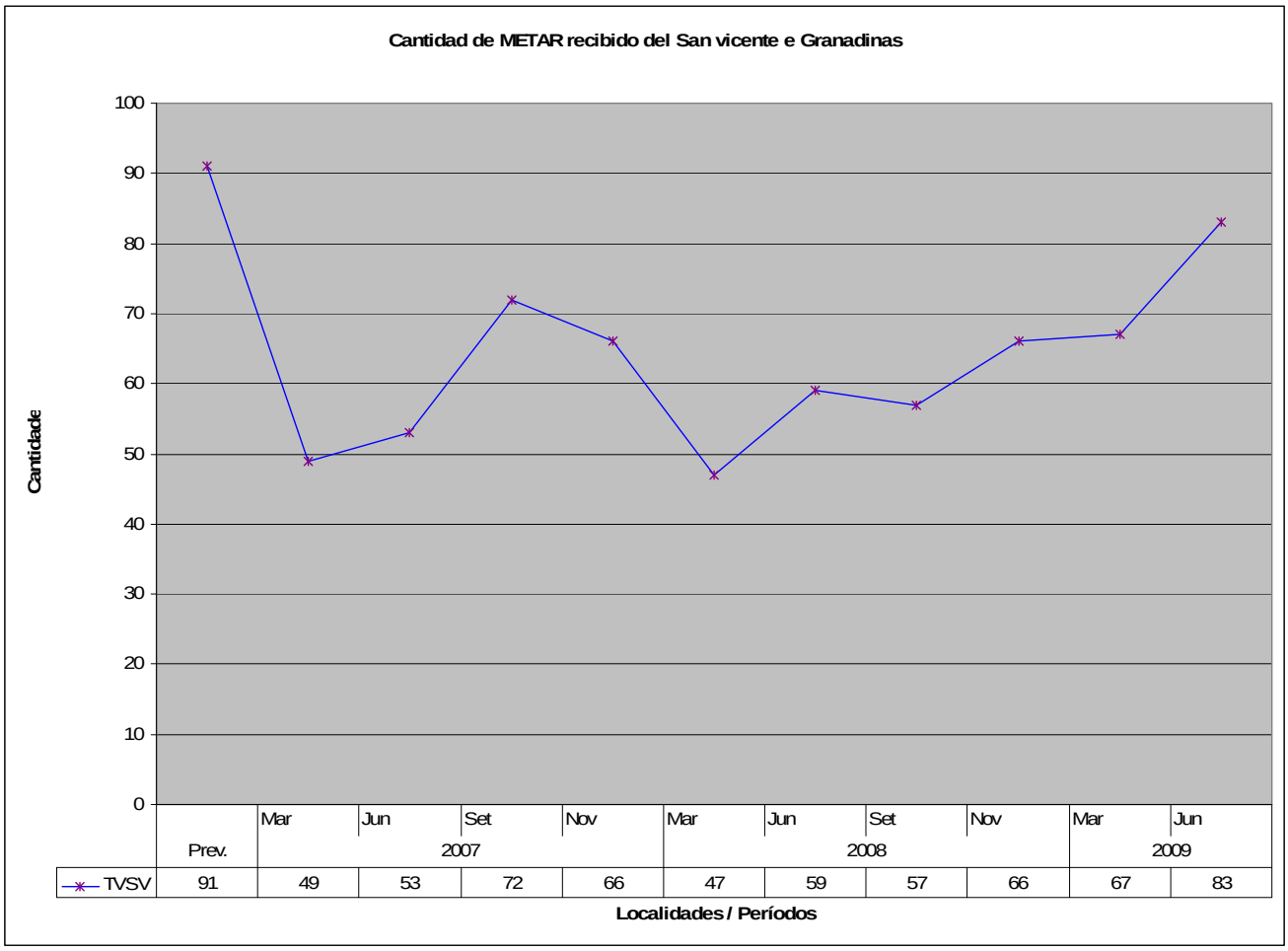
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
MDBH	91	86	87	87	81	87	89	87	38	87	90
MDHE	91	0	0	0	0	0	0	0	0	0	0
MDLR	91	78	75	80	75	88	91	90	39	89	91
MDPC	91	89	89	91	89	90	90	90	39	90	89
MDPP	91	89	88	91	89	89	90	90	39	90	91
MDSD	168	159	165	168	162	166	166	160	69	167	167
MDST	168	88	88	91	90	89	89	88	38	89	91

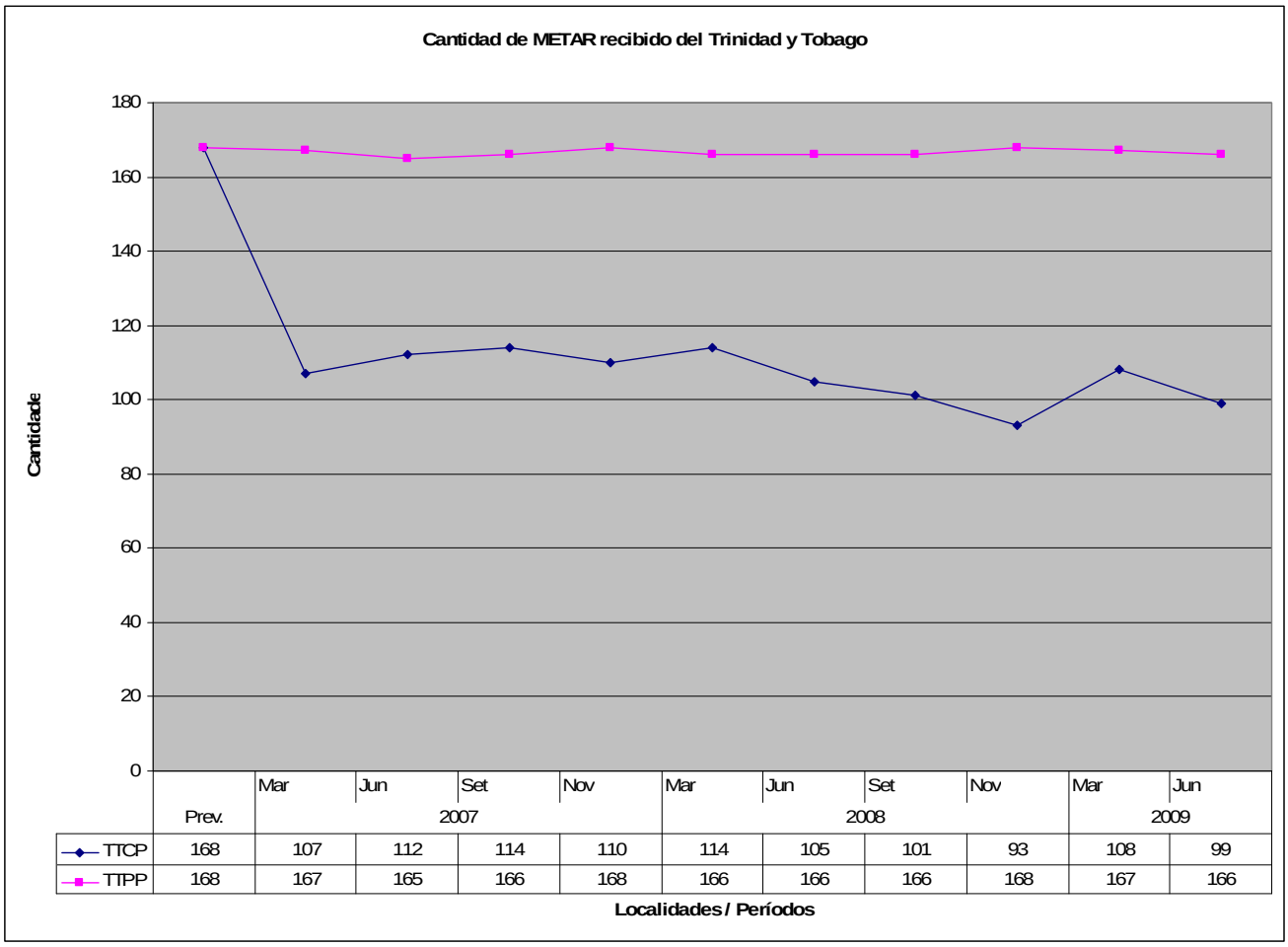


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TKPK	112	76	95	96	96	89	92	90	85	90	90
TKPN	91	92	77	80	78	57	64	80	69	85	79

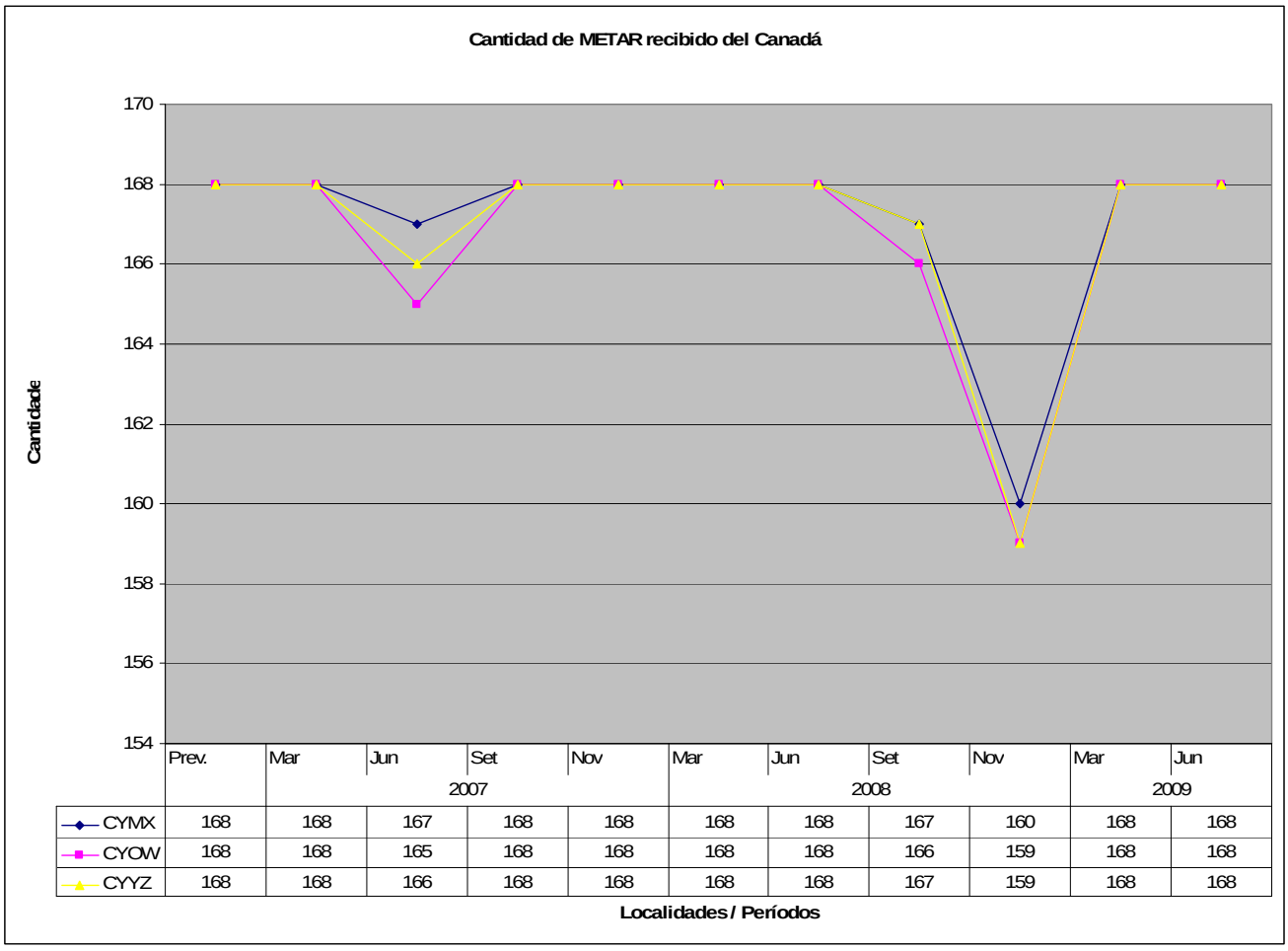


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TLPC	105	45	53	37	48	55	35	22	15	31	60
TLPL	168	140	148	154	136	145	139	153	146	150	147

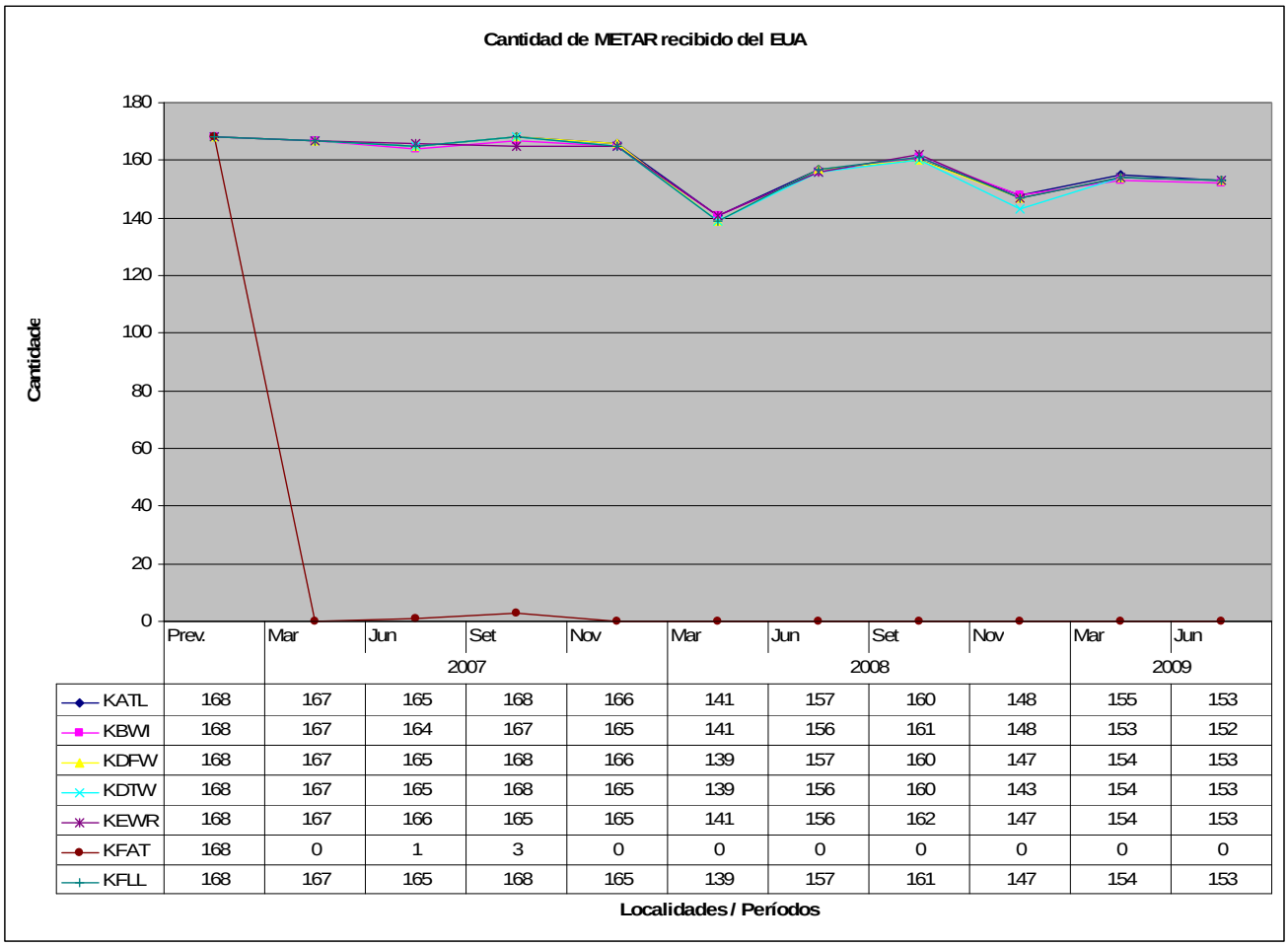

Cantidad de METAR recibido del San vicente e Granadinas
Cantidade
100
90
80
70
60
50
40
30
20
10
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TVSV
91
49
53
72
66
47
59
57
66
67
83
Localidades / Períodos



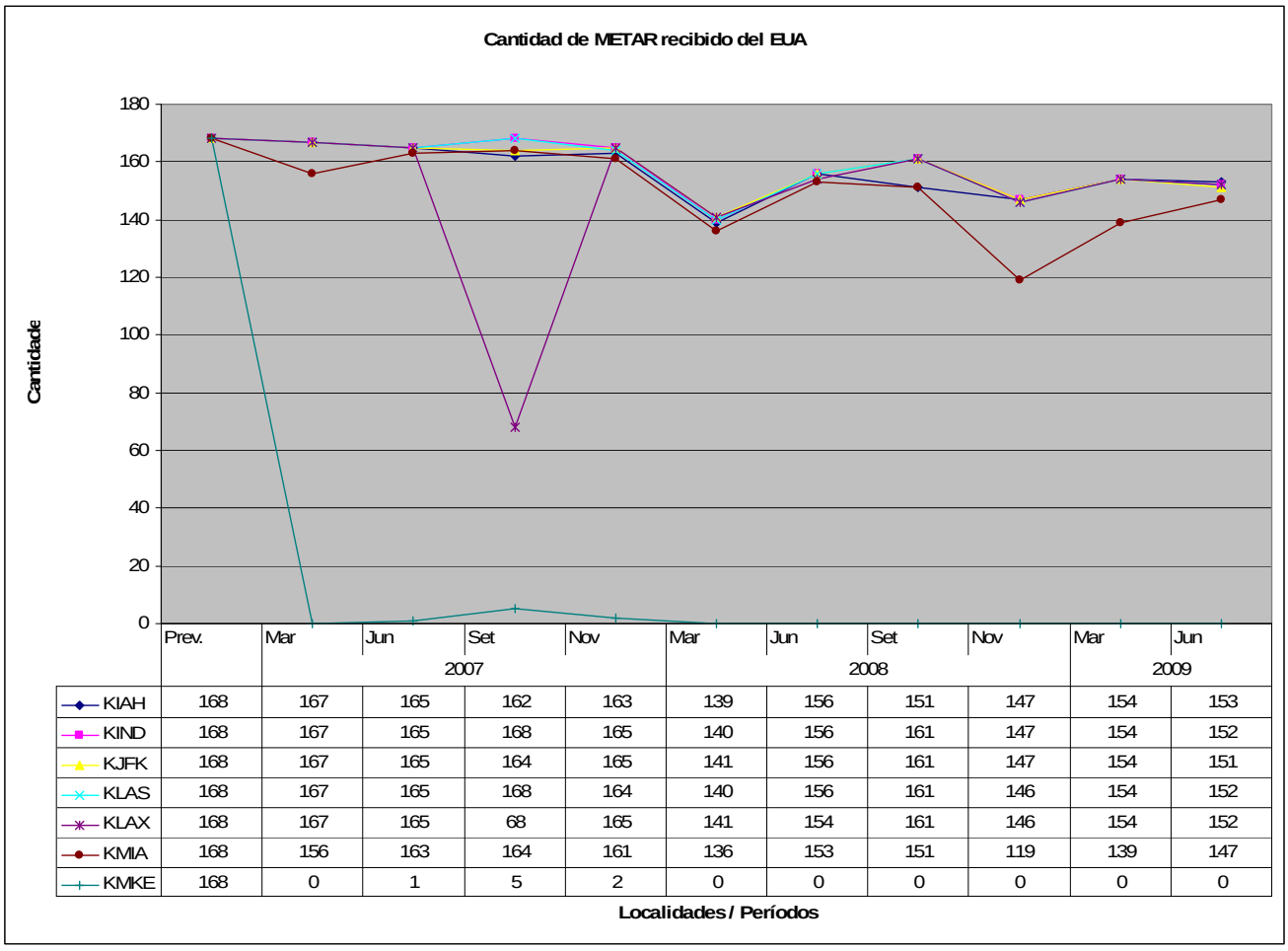
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
TTCP	168	107	112	114	110	114	105	101	93	108	99
TTPP	168	167	165	166	168	166	166	166	168	167	166



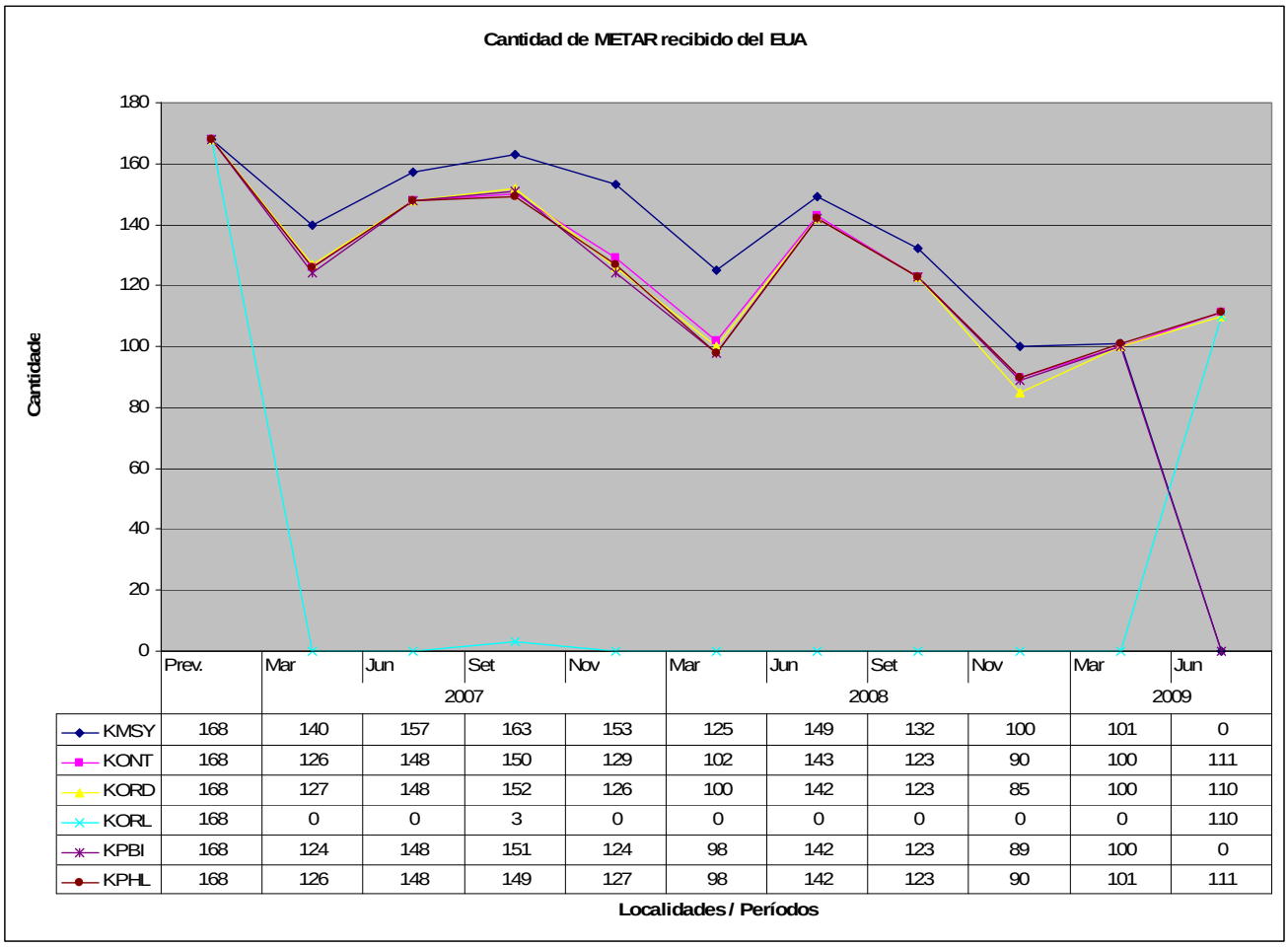
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
CYMX	168	168	167	168	168	168	168	167	160	168	168
CYOW	168	168	165	168	168	168	168	166	159	168	168
CYYZ	168	168	166	168	168	168	168	167	159	168	168



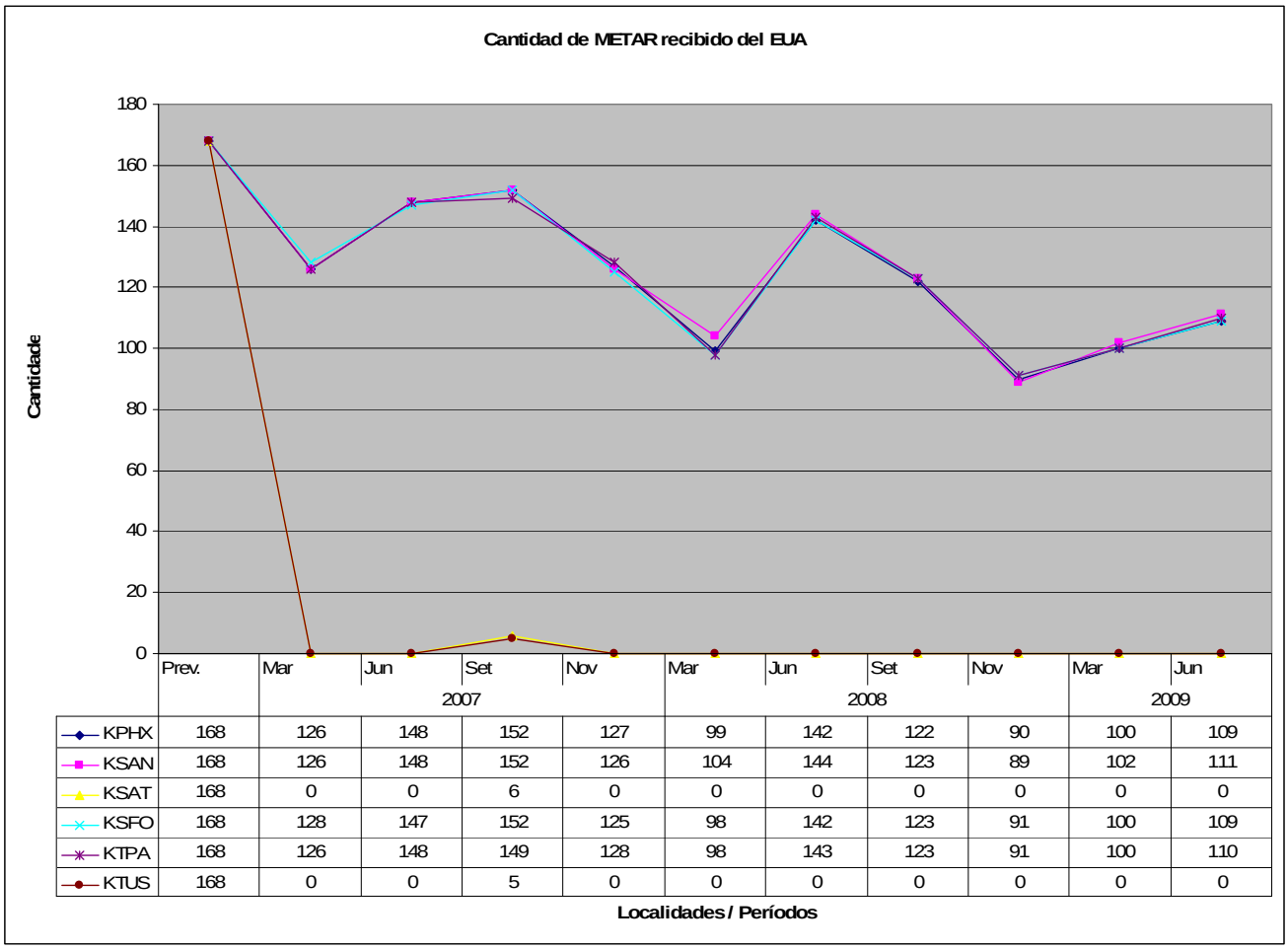
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
KATL	168	167	165	168	166	141	157	160	148	155	153
KBWI	168	167	164	167	165	141	156	161	148	153	152
KDFW	168	167	165	168	166	139	157	160	147	154	153
KDTW	168	167	165	168	165	139	156	160	143	154	153
KEWR	168	167	166	165	165	141	156	162	147	154	153
KFAT	168	0	1	3	0	0	0	0	0	0	0
KFLL	168	167	165	168	165	139	157	161	147	154	153



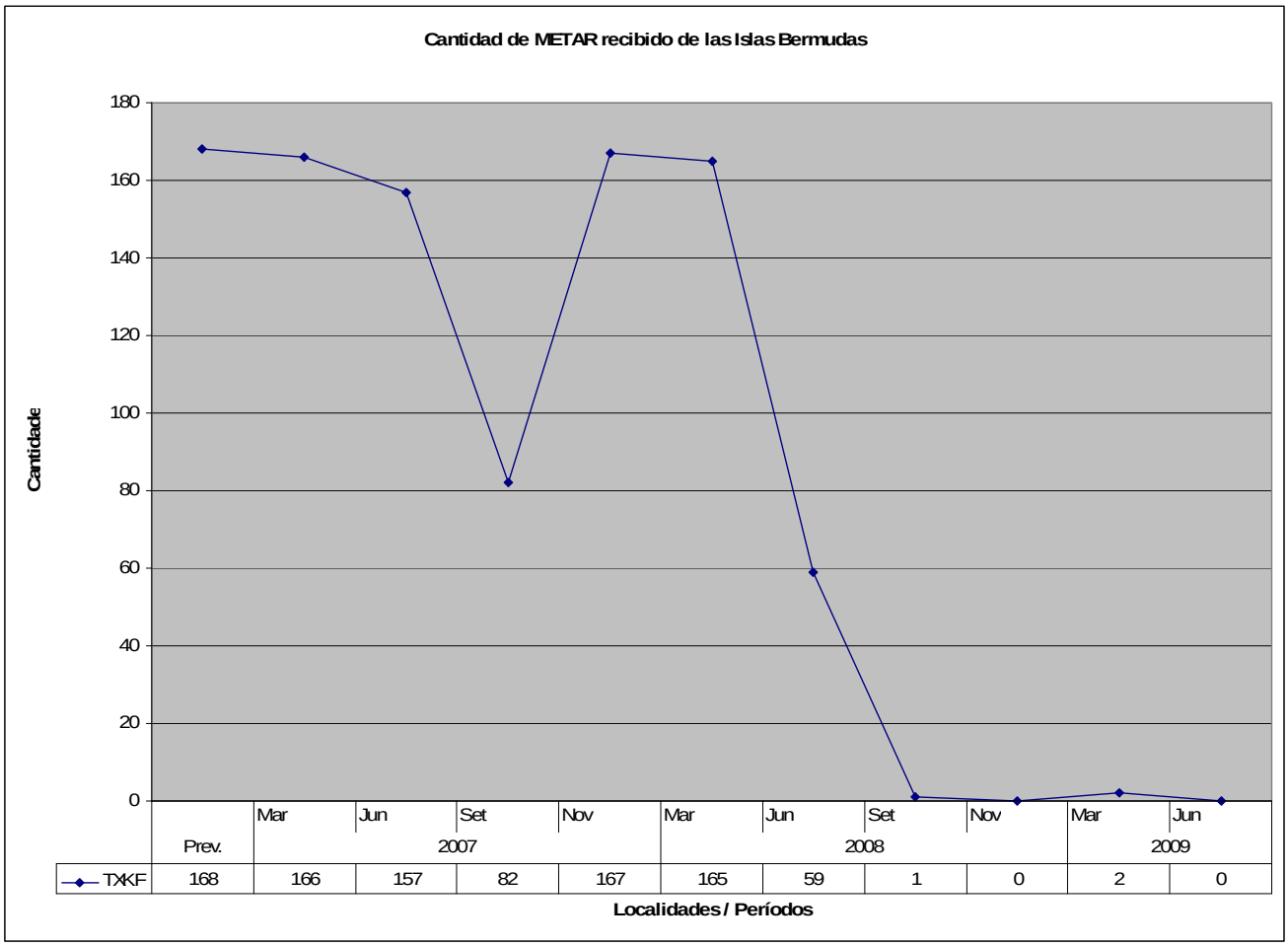
	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
KIAH	168	167	165	162	163	139	156	151	147	154	153
KIND	168	167	165	168	165	140	156	161	147	154	152
KJFK	168	167	165	164	165	141	156	161	147	154	151
KLAS	168	167	165	168	164	140	156	161	146	154	152
KLAX	168	167	165	68	165	141	154	161	146	154	152
KMIA	168	156	163	164	161	136	153	151	119	139	147
KMKE	168	0	1	5	2	0	0	0	0	0	0

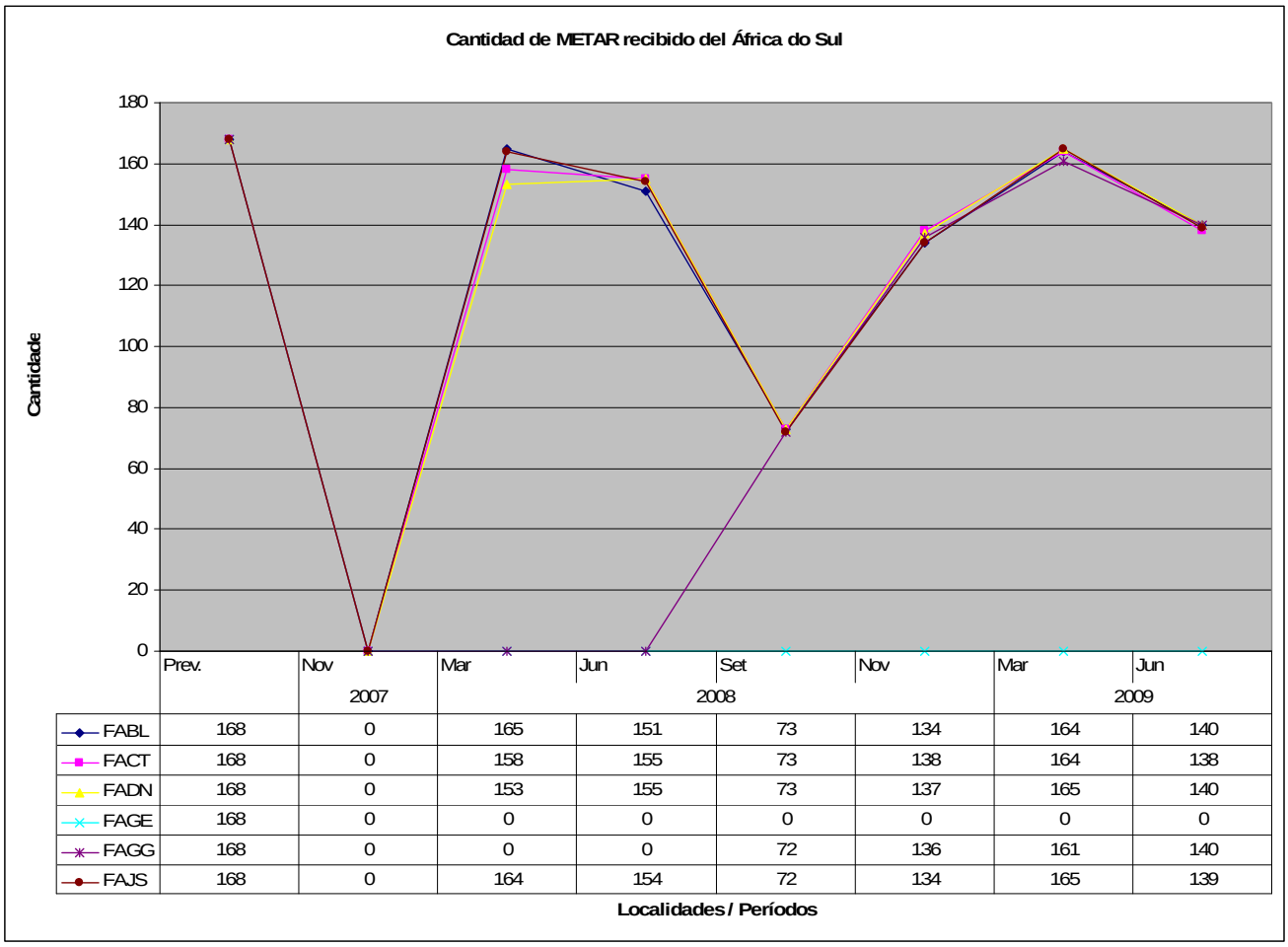


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
KMSY	168	140	157	163	153	125	149	132	100	101	0
KONT	168	126	148	150	129	102	143	123	90	100	111
KORD	168	127	148	152	126	100	142	123	85	100	110
KORL	168	0	0	3	0	0	0	0	0	0	110
KPBI	168	124	148	151	124	98	142	123	89	100	0
KPHL	168	126	148	149	127	98	142	123	90	101	111

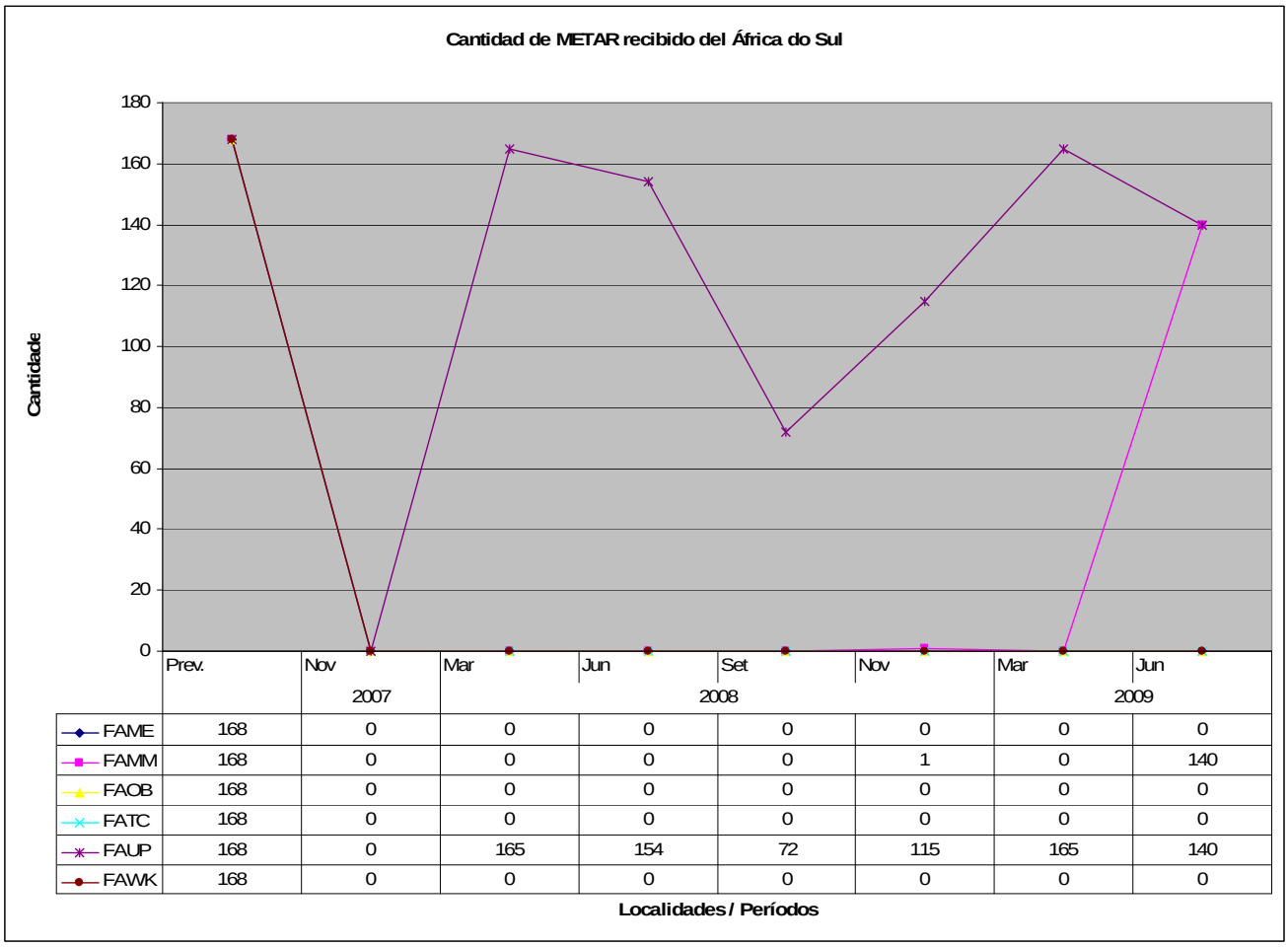


	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
KPHX	168	126	148	152	127	99	142	122	90	100	109
KSAN	168	126	148	152	126	104	144	123	89	102	111
KSAT	168	0	0	6	0	0	0	0	0	0	0
KSFO	168	128	147	152	125	98	142	123	91	100	109
KTPA	168	126	148	149	128	98	143	123	91	100	110
KTUS	168	0	0	5	0	0	0	0	0	0	0

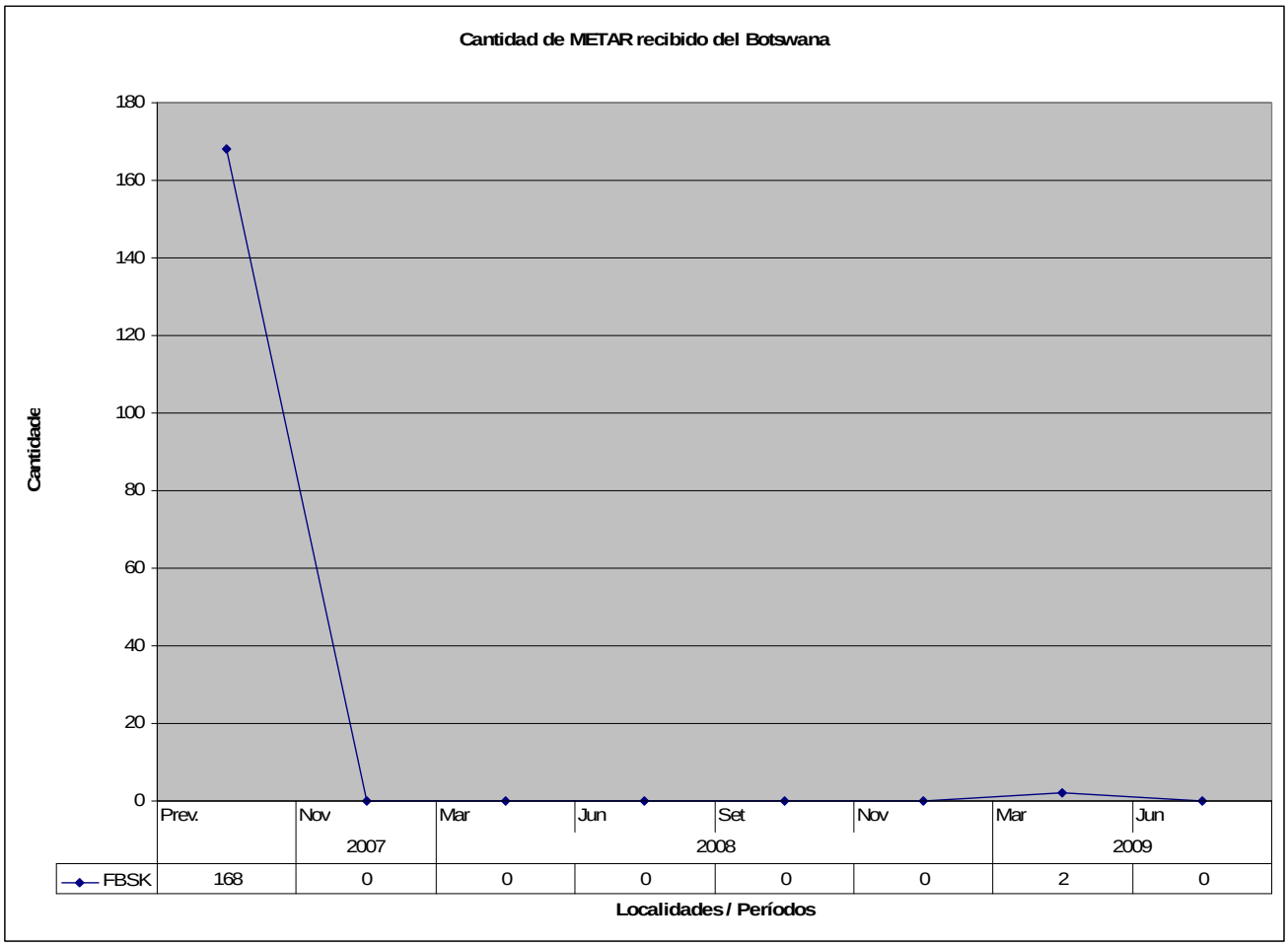

Cantidad de METAR recibido de las Islas Bermudas
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
TXKF
168
166
157
82
167
165
59
1
0
2
0
Localidades / Períodos

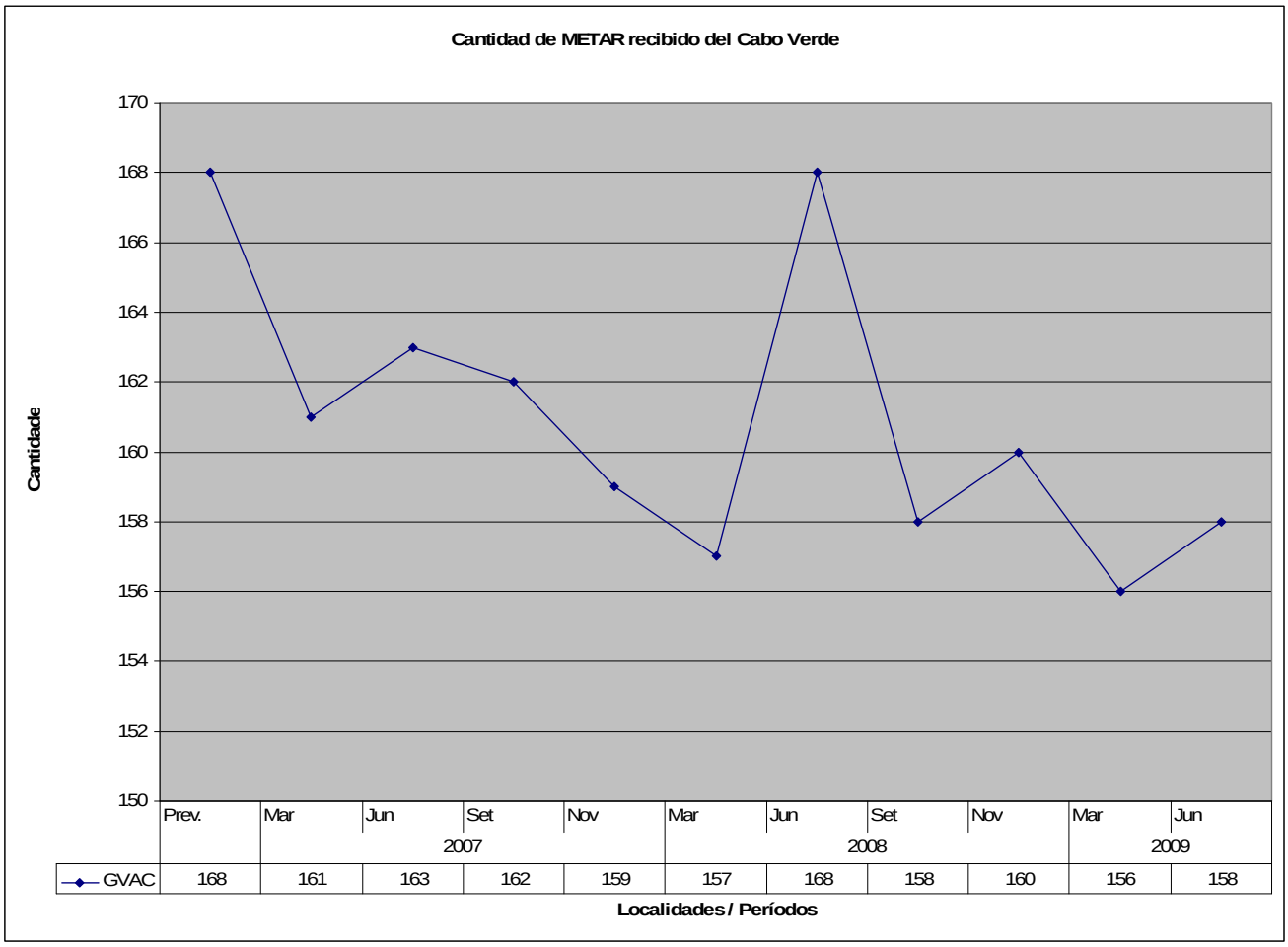


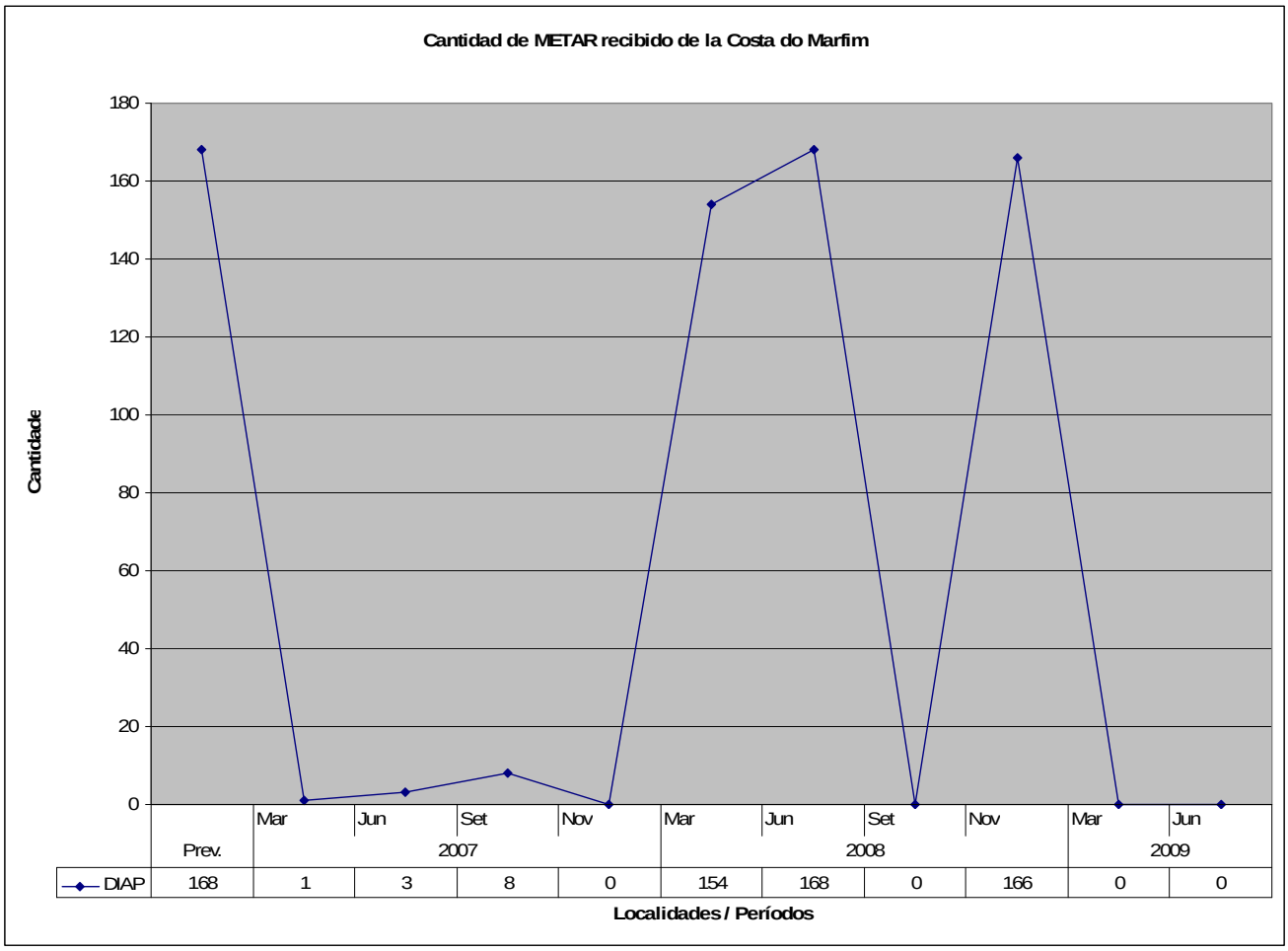
	Prev.	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007	2008				2009	
FABL	168	0	165	151	73	134	164	140
FACT	168	0	158	155	73	138	164	138
FADN	168	0	153	155	73	137	165	140
FAGE	168	0	0	0	0	0	0	0
FAGG	168	0	0	0	72	136	161	140
FAJS	168	0	164	154	72	134	165	139

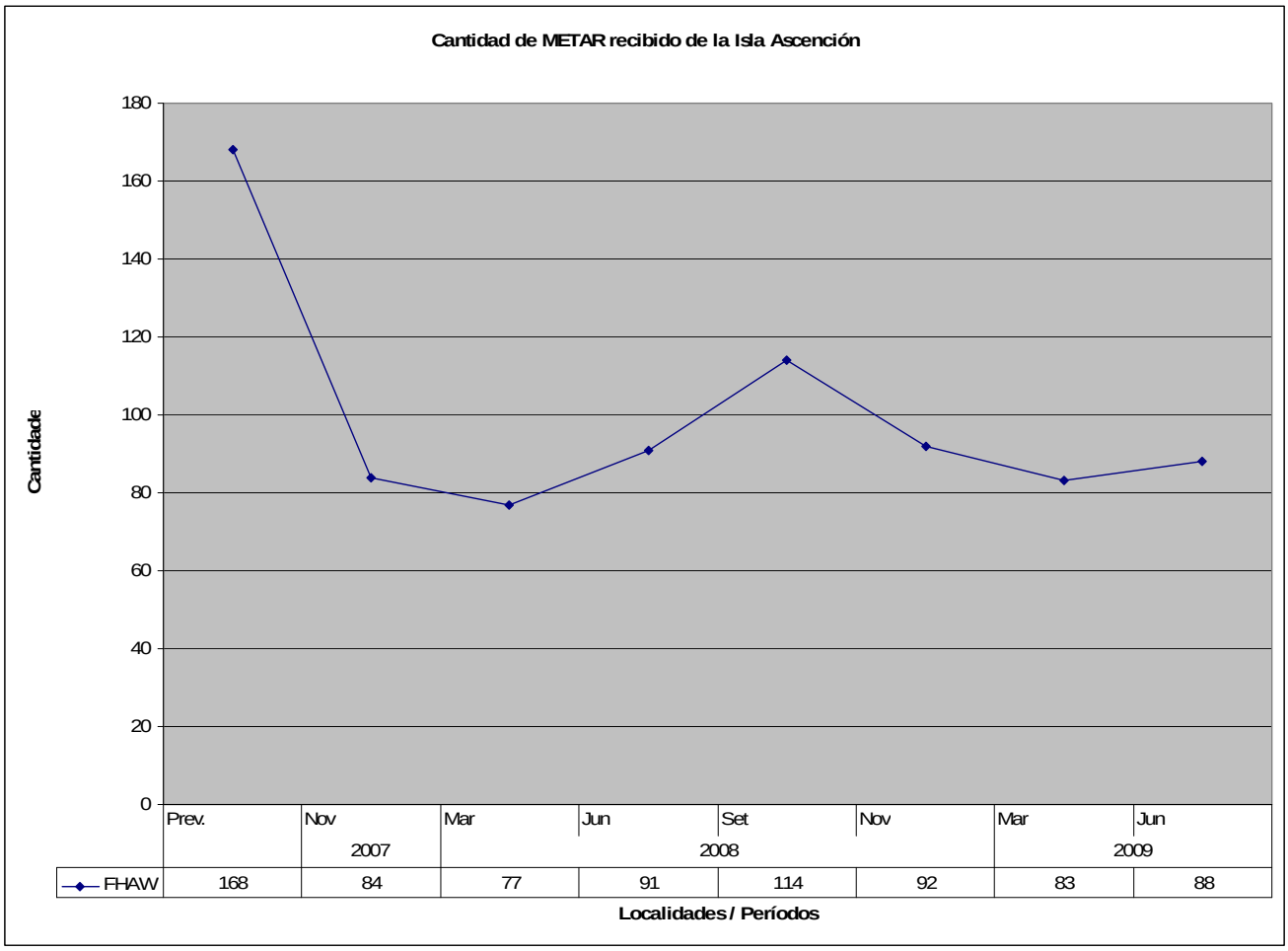


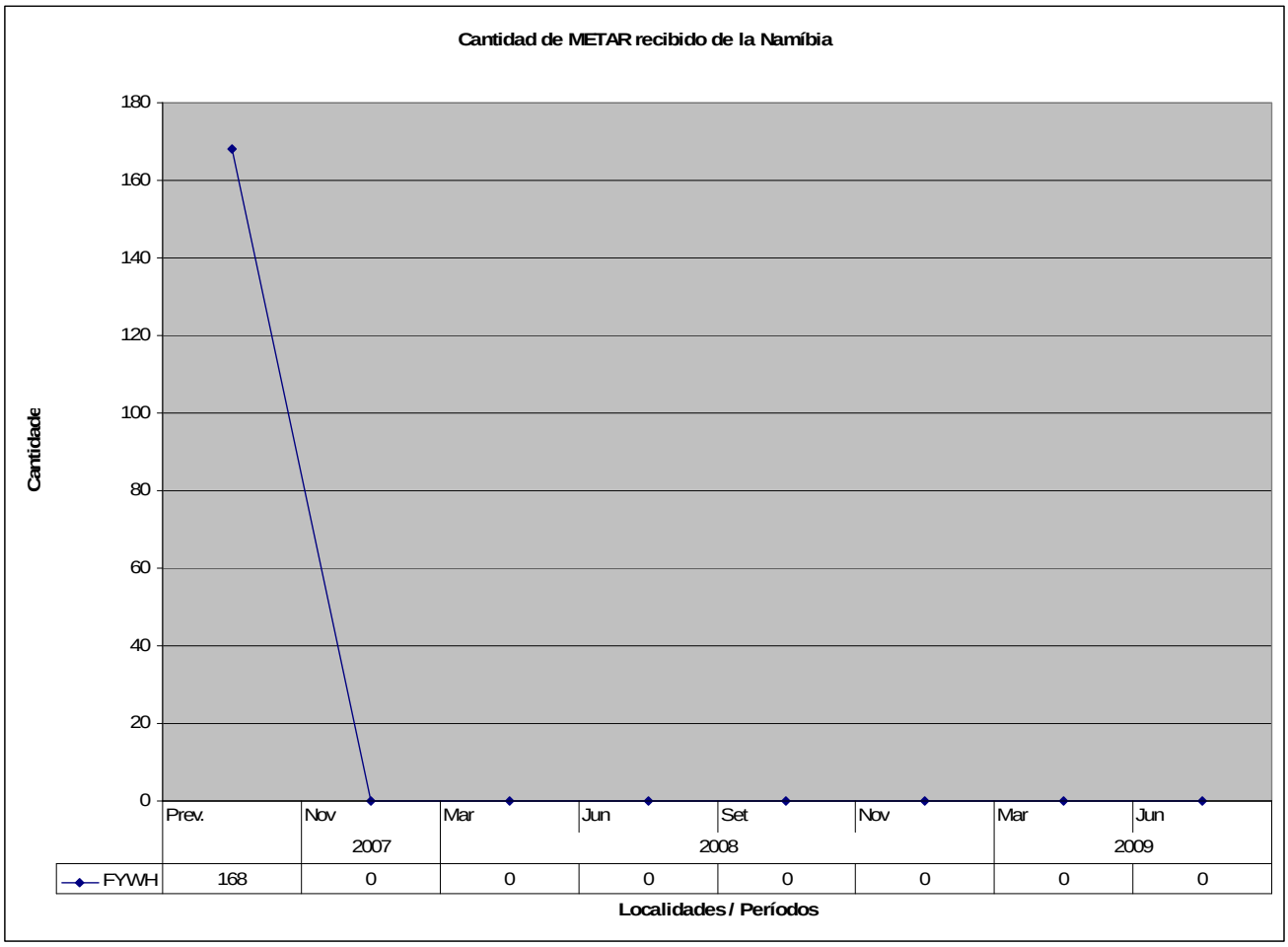
	Prev.	Nov 2007	Mar	Jun	Set	Nov 2008	Mar	Jun 2009
FAME	168	0	0	0	0	0	0	0
FAMM	168	0	0	0	0	1	0	140
FAOB	168	0	0	0	0	0	0	0
FATC	168	0	0	0	0	0	0	0
FAUP	168	0	165	154	72	115	165	140
FAWK	168	0	0	0	0	0	0	0

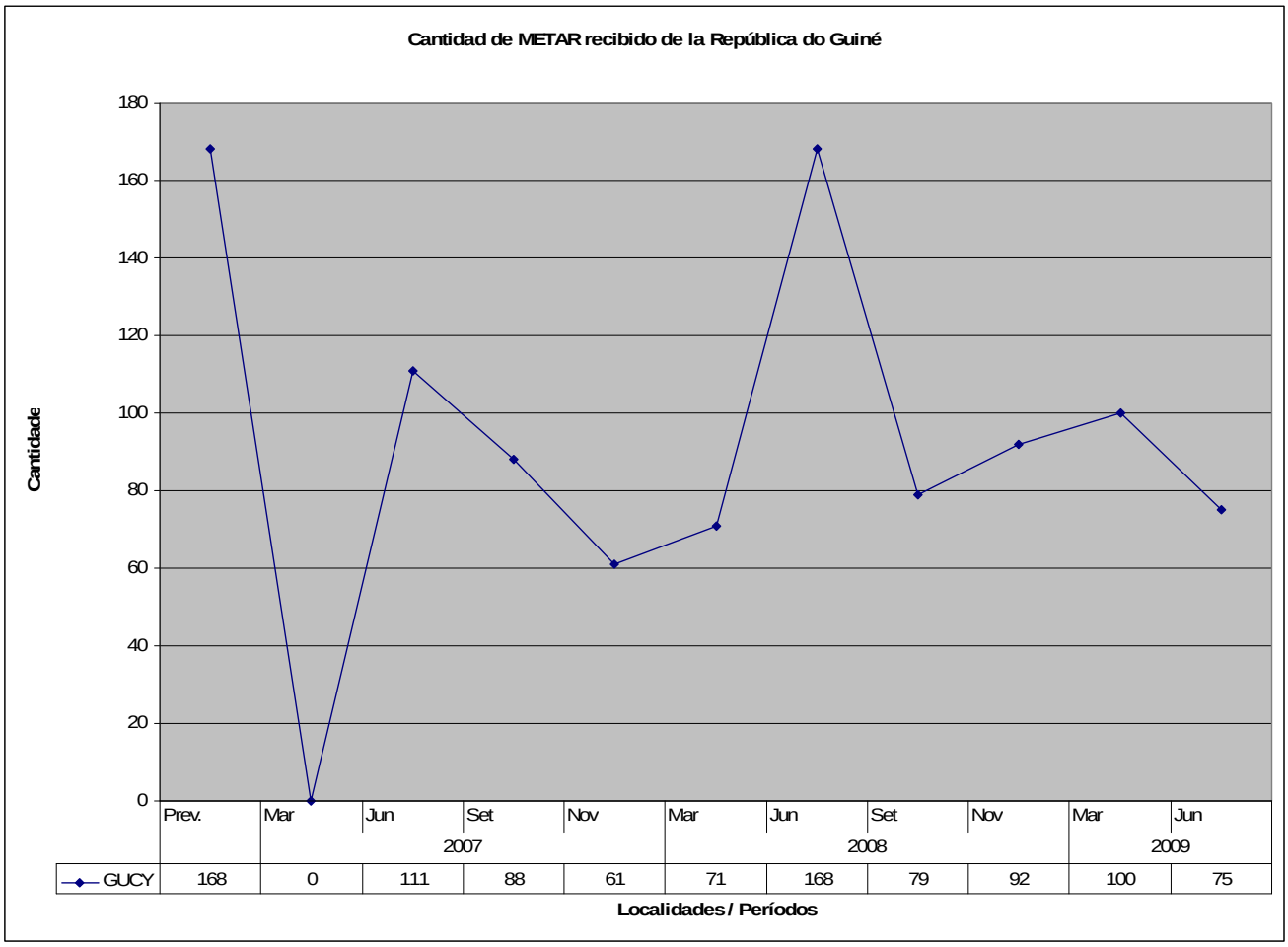

Cantidad de METAR recibido del Botswana
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
FBSK
168
0
0
0
0
0
2
0
Localidades / Períodos

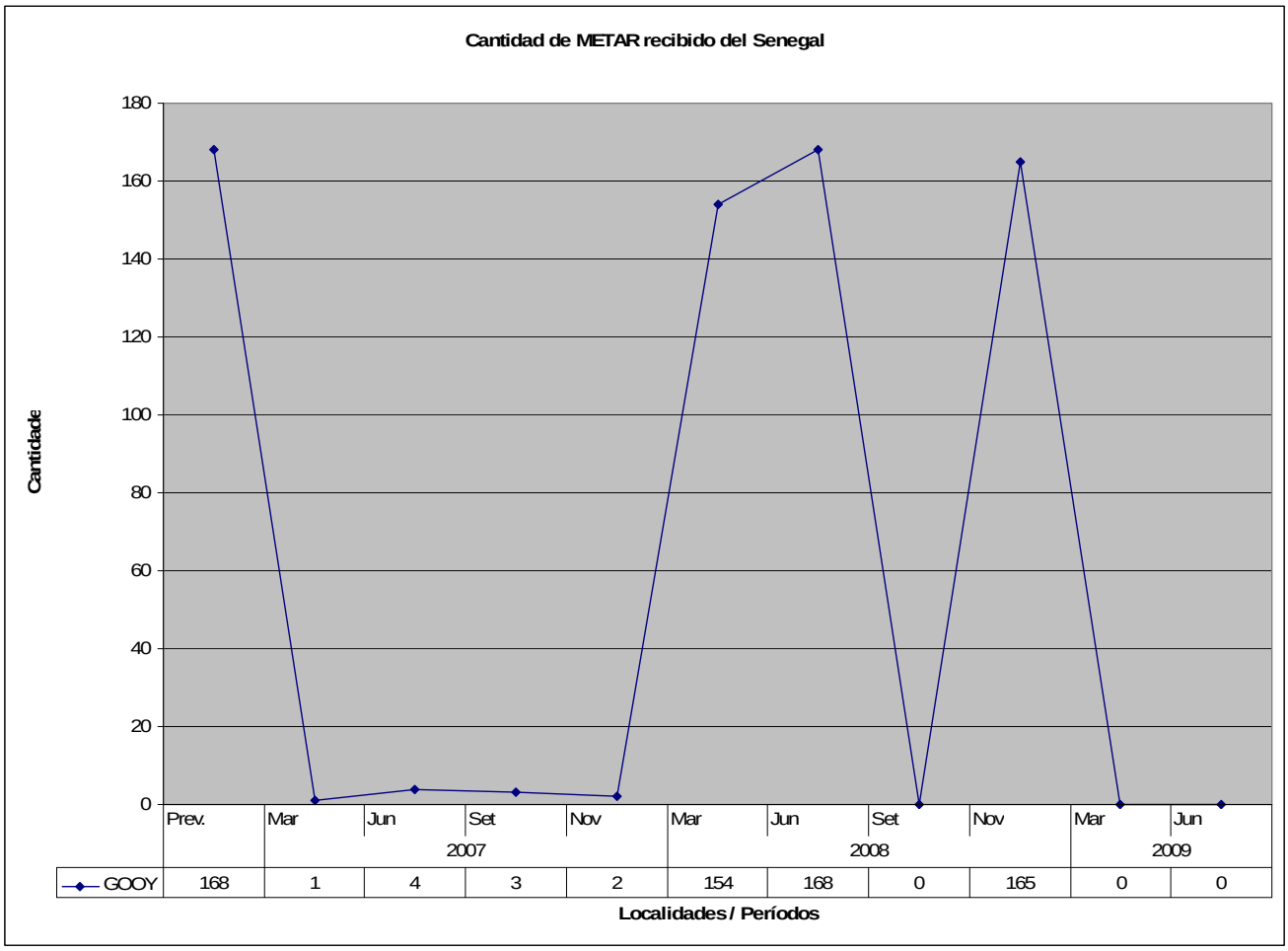

Cantidad de METAR recibido del Cabo Verde
Cantidade
170
168
166
164
162
160
158
156
154
152
150
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
GVAC
168
161
163
162
159
157
168
158
160
156
158
Localidades / Períodos

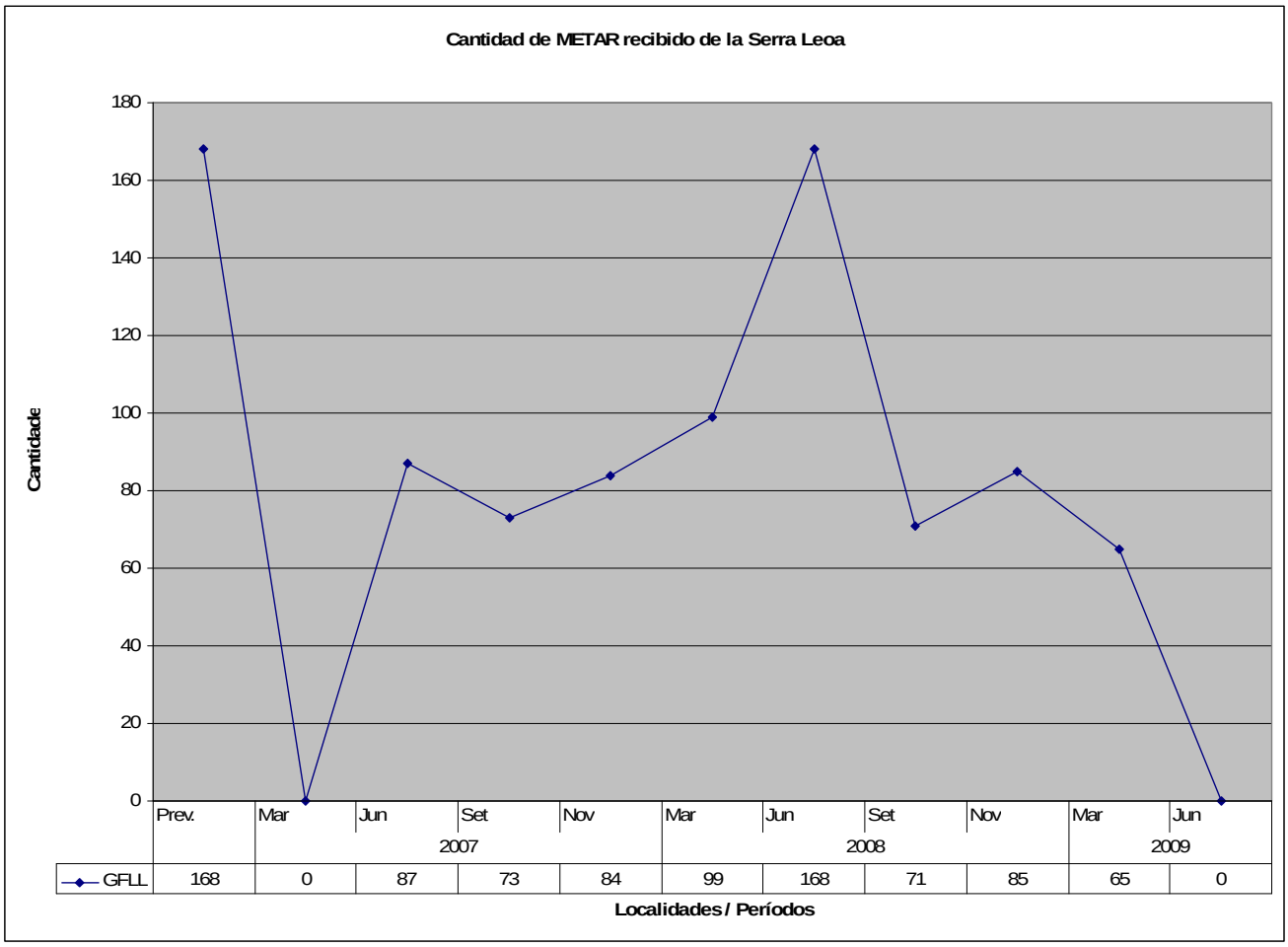

Cantidad de METAR recibido de la Costa do Marfim
Cantidade
180
160
140
120
100
80
60
40
20
0
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
Prev.
2007
2008
2009
DIAP
168
1
3
8
0
154
168
0
166
0
0
Localidades / Períodos

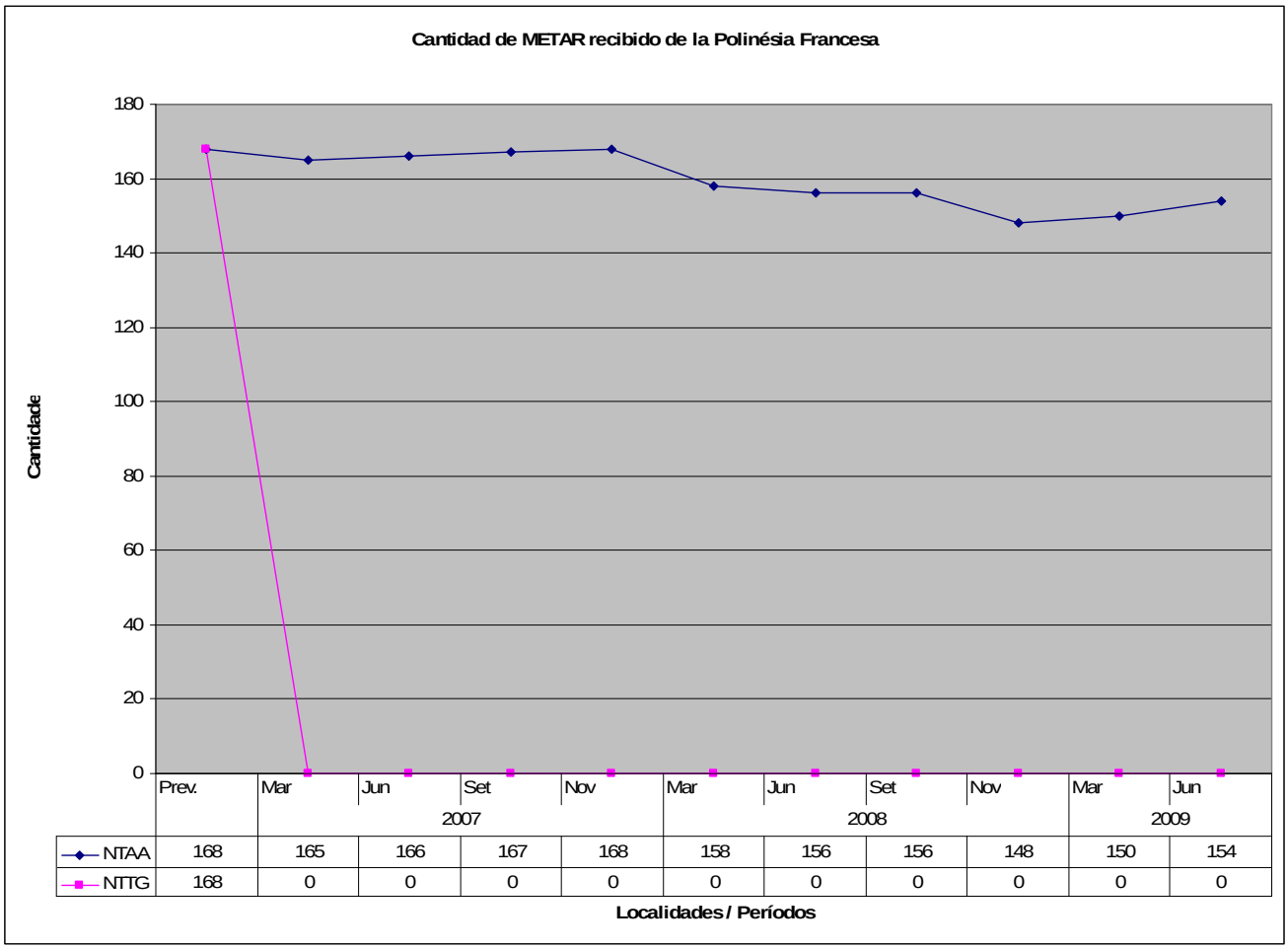

Cantidad de METAR recibido de la Isla Ascención
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
FHAW
168
84
77
91
114
92
83
88
Localidades / Períodos


Cantidad de METAR recibido de la Namíbia
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
FYWH
168
0
0
0
0
0
0
0
Localidades / Períodos


Cantidad de METAR recibido de la República do Guiné
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
GUCY
168
0
111
88
61
71
168
79
92
100
75
Localidades / Períodos


Cantidad de METAR recibido del Senegal
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
GOOY
168
1
4
3
2
154
168
0
165
0
0
Localidades / Períodos


Cantidad de METAR recibido de la Serra Leoa
Cantidade
180
160
140
120
100
80
60
40
20
0
Prev.
Mar
Jun
Set
Nov
Mar
Jun
Set
Nov
Mar
Jun
2007
2008
2009
GFLL
168
0
87
73
84
99
168
71
85
65
0
Localidades / Períodos



	Prev.	Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
		2007				2008				2009	
NTAA	168	165	166	167	168	158	156	156	148	150	154
NTTG	168	0	0	0	0	0	0	0	0	0	0

Table with the availability of TAF in Banco de Brasilia OPMET

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Region SAM Argentina											
SAAR	28	26	27	26	27	24	28	28	27	26	27
SABE	28	26	28	28	27	26	28	28	28	25	27
SACO	28	25	19	19	49	23	26	25	23	25	25
SADF	28	23	28	28	27	26	28	27	26	0	27
SAEZ	28	25	27	25	24	27	28	27	26	27	28
SAME	28	26	28	28	27	27	28	27	27	28	28
SANT	28	23	15	18	13	14	11	10	10	11	18
SARE	28	22	28	21	26	28	28	28	27	28	28
SARF	28	25	28	21	26	28	26	28	26	28	28
SARI	28	24	27	21	25	28	27	28	27	28	28
SARP	28	25	28	21	26	28	26	28	26	28	28
SASA	28	25	19	19	16	23	26	25	22	25	23
SASJ	28	25	19	18	16	23	24	25	22	25	22
SAVC	28	26	26	18	21	28	26	27	25	27	27
SAWG	28	26	26	16	21	28	27	26	25	27	28
SAWH	28	26	27	6	0	27	27	27	25	27	28
SAZM	28	26	27	28	25	27	28	28	28	27	27
SAZN	28	27	28	26	27	27	28	28	26	27	26
SAZS	28	26	28	27	25	26	28	28	26	26	26
Bolívia											
SLCB	28	28	28	28	28	28	28	28	28	28	28
SLET	28	0	0	1	0	0	0	0	20	21	21
SLLP	28	28	28	28	28	28	28	28	28	28	28
SLPO	28	0	0	0	0	0	0	0	0	0	0
SLPS	28	2	0	1	0	0	0	0	19	21	21
SLSU	28	2	0	0	0	0	0	0	18	97	21
SLTJ	21	21	24	20	21	21	21	6	19	21	21
SLTR	28	28	28	27	28	28	28	27	27	28	28
SLVR	28	28	28	27	27	28	28	28	28	28	28
Chile											
SCAR	28	21	21	21	21	21	21	21	20	21	21
SCBA	28	27	23	28	26	26	26	27	25	26	26
SCCF	21	21	21	21	21	21	21	21	20	21	21
SCCI	28	27	27	28	27	27	26	28	26	27	25
SCDA	28	13	21	21	21	21	21	21	20	21	21
SCEL	28	27	28	28	27	28	28	28	27	28	28
SCFA	21	20	21	21	21	21	21	21	20	21	21
SCIE	28	27	28	28	27	28	28	28	27	28	26
SCIP	14	13	14	14	14	14	14	14	13	14	14
SCJO	28	27	14	14	14	13	14	13	12	13	13

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
SCSE	28	27	28	28	27	28	28	28	27	28	28
SCTC	28	27	27	28	27	28	28	28	26	26	27
SCTE	28	27	28	28	27	28	28	27	27	27	28
Colômbia											
SKBG	28	2	28	27	24	0	27	28	28	26	11
SKBO	28	27	27	28	27	0	28	28	28	27	15
SKBQ	28	27	25	28	28	0	28	28	28	27	12
SKCC	28	26	28	28	28	0	28	27	28	26	11
SKCG	28	26	27	28	28	0	28	28	28	27	13
SKCL	28	27	28	28	28	0	28	28	28	25	11
SKLT	28	27	28	28	26	0	28	28	27	26	11
SKPE	28	2	27	25	23	0	26	28	26	27	14
SKRG	28	27	25	23	26	0	28	28	27	26	14
SKSP	28	27	24	23	26	0	28	28	28	27	12
Equador											
SEGU	28	24	27	23	24	24	26	25	22	22	28
SELT	21	21	27	23	24	23	26	25	24	25	28
SEMT	28	24	26	23	22	23	26	25	23	24	28
SEQU	28	24	27	23	24	23	26	25	23	25	28
Guiana											
SYCJ	28	0	0	7	0	4	0	1	0	8	6
Guiana Francesa											
SOCA	28	28	28	28	28	28	25	28	28	28	27
Panamá											
MPDA	21	14	13	13	10	14	14	0	0	0	12
MPMG	21	14	14	12	12	14	14	0	0	0	12
MPTO	28	28	26	28	28	28	28	0	0	0	24
Paraguai											
SGAS	28	25	28	28	15	28	28	28	23	26	28
SGES	28	25	27	28	14	27	27	28	23	26	28
Peru											
SPCL	28					0	0	0	0	0	0
SPGM	28					0	0	0	0	0	0
SPHO	21	1	0	0	0	21	21	19	15	16	21
SPHY	14	1	0	0	0	12	13	10	5	6	14
SPIM	28	28	28	27	28	28	28	28	28	27	28
SPJI	21					0	0	0	0	0	0
SPJL	28	1	0	0	0	23	22	11	5	7	18
SPJR	28					0	0	0	0	0	0
SPLO	21					0	0	0	0	0	0

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
SPME	14	0	0	0	0	16	21	15	12	14	16
SPMS	28					0	0	0	0	0	0
SPQT	28	28	28	27	28	28	28	28	28	28	27
SPQU	28	28	28	28	28	28	28	27	28	28	27
SPRU	28	28	28	27	28	28	28	28	28	27	28
SPSO	28	28	28	27	28	28	28	28	28	27	28
SPST	28					0	0	0	0	0	0
SPTN	28	28	28	27	28	28	28	28	28	27	28
SPTU	28	0	0	0	0	27	26	24	18	16	21
SPYL	28	1	0	0	0	23	23	13	7	5	12
SPZO	28	28	28	28	28	28	28	28	28	28	28
Suriname											
SMJP	28	18	0	27	27	26	24	23	24	26	28
SMNI	28	16	0	26	25	24	25	21	24	23	28
SMZO	28	18	0	27	27	26	25	22	25	21	27
Uruguai											
SUAA	28	28	17	26	25	25	25	3	26	27	27
SUCA	28	28	16	26	25	26	25	3	26	27	27
SULS	28	28	16	25	27	28	28	4	26	27	27
SUMU	28	28	11	25	27	28	28	2	26	28	26
SURV	28	28	13	26	25	26	25	3	23	26	26
SUSO	28	28	15	25	27	26	25	2	23	27	27
Venezuela											
SVAC	28	0	0	0	0	0	0	0	0	0	0
SVBC	28	26	26	24	23	24	24	25	21	25	26
SVBI	28	0	0	0	0	0	0	0	0	0	0
SVBM	28	0	14	13	17	19	20	13	15	16	17
SVCB	28	0	0	0	0	0	0	0	0	0	0
SVCL	28	0	0	0	0	0	0	0	0	0	0
SVCR	28	0	0	0	0	0	0	0	0	0	0
SVCU	28	0	0	0	0	0	0	0	0	0	0
SVFM	28	0	0	0	0	0	0	0	0	0	0
SVGI	28	0	0	0	0	0	0	0	0	0	0
SVGU	28	0	0	0	0	0	0	0	0	0	0
SVJC	14	0	0	0	0	0	0	0	0	0	0
SVJM	28	0	0	0	0	0	0	0	0	0	0
SVMC	28	25	26	24	24	24	24	23	22	26	26
SVMD	28	0	0	0	0	0	0	0	0	0	0
SVMG	28	25	26	24	24	24	24	25	21	25	26
SVMI	28	25	26	24	24	24	24	25	21	25	26
SVMT	28	0	0	0	0	0	0	0	0	0	0
SVPA	28	0	0	0	0	0	0	0	0	0	0
SVSA	28	25	26	24	24	24	24	25	21	23	26
SVSO	28	0	0	0	0	0	0	0	0	0	0

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
SVSR	28	0	0	0	0	0	0	0	0	0	0
SVTM	28			0	0	0	0	0	0	0	0
SVVA	28	17	17	21	27	24	19	23	20	23	20
SVVP	28	0	0	2	0	0	0	0	0	0	0
Region CAR											
Anguilla											
TQPF	28	0	0	0	0	13	14	17	13	13	13
Antígua e Barbuda											
TAPA	28	27	27	27	25	22	25	24	21	24	20
Antilhas Francesas											
TFFF	28	28	28	28	26	25	27	22	27	26	28
TFFR	28	28	28	27	26	25	21	21	26	8	26
Antilhas Holandesas											
TNCB	28	26	28	27	28	24	26	25	21	24	22
TNCC	28	26	28	27	28	25	26	25	25	28	27
TNCE	28	0	0	0	0	0	0	0	0	0	0
TNCM	28	26	28	27	27	21	21	24	22	19	18
Aruba											
TNCA	28	26	28	27	28	25	26	25	25	28	27
Barbados											
TBPB	28	28	28	15	25	25	25	27	25	28	27
Belize											
MZBZ	28	21	20	0	0	0	0	21	14	23	22
Costa Rica											
MRLB	28	26	25	23	26	27	27	26	24	22	23
MRLM	28	24	25	26	26	27	28	27	26	21	16
MROC	28	27	25	26	26	28	28	28	26	22	24
MRPV	28	25	25	26	26	27	28	28	26	22	23
Cuba											
MUCA	21	1	0	0	0	0	0	0	0	0	0
MUCC	28			28	28	0	0	28	25	26	28
MUCL	21	14	10	13	13	0	0	12	13	13	14
MUCM	21	28	28	0	28	28	26	2	8	8	0
MUCU	28	0	28	28	27	27	27	28	26	28	27
MUHA	28	28	28	28	28	28	27	28	26	28	28
MUHG	28	28	28	28	28	27	26	28	25	28	28
MUVR	28	28	28	28	28	26	27	28	26	28	28

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Dominica											
TDPD	28	0	0	0	0	0	0	0	0	0	11
TDPR	28	0	0	0	0	0	0	0	0	0	0
El Salvador											
MSLP	28	27	26	27	27	28	27	27	24	27	27
MSSS	28	27	25	27	27	28	27	26	9	15	22
Granada											
TGPY	28	17	17	14	19	17	12	15	18	8	5
TGPZ	28	0	0	0	0	0	0	0	0	0	0
Guatemala											
MGGT	28	23	25	21	27	28	27	26	24	24	18
MGPB	28	22	24	21	26	28	27	26	24	24	14
MGSJ	28	23	25	21	25	27	28	24	24	24	13
MGTK	28	14	16	15	14	24	23	24	21	21	11
Haiti											
MTCH	28	0	0	0	0	0	0	0	0	0	0
MTPP	28	0	0	0	0	0	0	0	0	0	13
Honduras											
MHLC	28	28	25	26	26	27	28	27	18	28	26
MHLM	28	28	25	27	27	28	28	26	18	28	26
MHRO	28	28	26	27	26	28	28	25	18	28	25
MHTG	28	28	24	27	28	28	28	27	18	28	26
Ilhas Bahamas											
MYEG	28	0	0	0	0	0	0	0	0	0	0
MYER	28	0	0	0	0	0	0	0	0	0	0
MYGF	28	1	0	0	0	1	0	0	0	0	0
MYNN	28	24	28	18	16	23	23	27	21	23	23
Ilhas Cayman											
MWCB	28	1	0	0	0	0	0	0	0	0	0
MWCR	28	1	0	0	0	0	0	0	0	0	0
Ilhas Turks and Caicos											
MBGT	28	9	16	14	5	13	17	27	13	8	21
MBPV	28	9	16	11	5	14	16	14	12	8	21
MBSC	28	0	0	0	0	0	0	14	0	0	0
Ilhas Virgens (UK)											
TUPJ	28	0	0	0	0	12	13	18	13	13	13
TUPW	28	0	0	0	0	0	0	0	0	0	0

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Ilhas Virgens (USA)											
TIST	28	28	28	23	27	24	23	23	22	21	19
TISX	28	28	28	28	25	24	23	23	22	20	19
Jamaica											
MKJP	28	25	24	20	19	7	20	10	16	14	21
MKJS	28	26	24	20	19	15	23	13	16	17	21
México											
MMAA	28	28	28	28	28	28	28	28	27	27	28
MMAN	28	14	14	14	14	14	14	14	13	14	14
MMAS	28	0	0	0	0	0	0	0	0	0	0
MMBT	28	1	0	0	0	0	0	0	0	0	0
MMCE	28	0	0	0	0	0	0	0	0	0	0
MMCL	28	14	14	14	14	14	14	14	13	14	14
MMCM	28	14	14	14	14	14	14	14	13	14	14
MMCN	28	0	0	0	0	0	0	0	0	0	0
MMCP	28	14	14	14	14	14	14	14	13	14	14
MMCS	28	13	14	14	18	14	14	14	13	14	14
MMCU	28	13	14	14	14	14	14	14	13	14	14
MMCV	28	0	0	0	0	0	0	0	0	0	0
MMCZ	28	12	14	14	14	14	14	13	25	28	28
MMDO	28	14	14	14	14	14	14	14	13	14	14
MMGL	28	28	28	28	28	28	28	27	26	28	28
MMGM	28	14	14	13	14	14	14	14	13	14	14
MMHO	28	14	14	14	14	14	14	14	13	14	14
MMLP	28	14	14	12	14	14	14	14	13	14	13
MMLT	28	0	0	0	0	0	0	0	0	0	0
MMMA	28	15	14	14	13	14	14	14	13	14	14
MMMD	28	28	28	28	28	28	28	27	25	28	28
MMML	28	14	14	14	14	14	14	14	13	14	14
MMMM	28	14	14	14	14	14	14	14	13	14	14
MMMX	28	26	28	27	27	26	28	26	22	26	28
MMMY	28	28	28	28	28	28	28	28	25	28	28
MMMZ	28	28	28	28	28	28	28	28	26	28	28
MMNG	28	0	0	0	0	0	0	0	0	0	0
MMNL	28	14	14	14	13	14	14	14	14	14	14
MMOX	28	0	0	0	0	0	0	0	0	0	0
MMPG	28	14	14	14	13	14	14	14	13	14	14
MMPR	28	28	28	28	28	28	28	27	26	28	28
MMPS	28	0	0	0	0	0	0	0	0	0	0
MMRX	28	14	14	14	13	14	14	14	13	14	14
MMSD	28	0	14	13	14	14	14	14	13	14	14
MMSF	28	0	0	0	0	0	0	0	0	0	0
MMSP	28	2	0	0	0	0	0	0	0	0	0
MMTC	28	13	14	14	14	14	14	14	13	14	14

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
MMTJ	28	28	28	28	28	28	28	28	26	28	28
MMTM	28	28	28	28	28	28	28	24	25	25	28
MMTO	28	28	28	28	28	28	28	28	27	27	28
MMTP	28	14	14	14	14	14	14	14	25	28	28
MMUN	28	28	28	28	28	28	28	27	25	28	28
MMVA	28	14	14	14	14	14	14	14	13	14	14
MMVR	28	28	28	28	28	28	28	28	27	27	28
MMZC	28	28	28	28	28	28	28	27	26	28	28
MMZH	28	14	14	14	14	14	14	13	14	14	14
MMZO	28	14	14	14	14	14	14	14	13	14	14
Montserrat											
TRPG	28					0	0	0	0	13	0
Nicarágua											
MNMG	28	28	22	21	15	13	26	17	24	27	27
MNPC	28	14	10	11	9	13	13	8	12	14	14
Porto Rico											
TJBQ	28	26	28	28	27	24	23	23	22	19	18
TJMZ	28	8	0	0	0	0	0	23	22	20	18
TJPS	28	24	25	27	24	24	23	23	22	20	19
TJSJ	28	28	28	28	27	24	24	23	22	20	18
República Dominicana											
MDBH	28	23	22	4	5	5	4	3	3	7	6
MDHE	28	0	0	0	0	0	0	0	0	0	0
MDLR	28	27	25	28	27	26	27	24	14	27	26
MDPC	28	26	25	28	27	26	27	24	13	27	26
MDPP	28	25	25	28	27	25	27	24	14	27	26
MDSD	28	27	25	28	27	25	27	24	14	27	26
MDST	28	27	25	28	27	26	27	23	14	27	26
Saint Kitts and Nevis											
TKPK	28	17	20	0	25	24	24	24	23	22	18
TKPN	28	0	0	0	0	0	0	0	0	0	0
Santa Lúcia											
TLPC	28	24	28	26	23	22	24	24	23	25	22
TLPL	28	25	28	26	24	25	26	0	23	28	24
San Vicente e Grenadinas											
TVSV	28	15	16	8	13	13	9	3	13	11	11
Trinidad e Tobago											
TTCP	28	27	28	26	26	24	23	0	27	25	24
TTPP	28	27	28	27	26	24	23	27	27	25	24

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Region NAM Canadá											
CYMX	28	28	28	28	28	28	28	27	25	28	28
CYOW	28	28	28	28	28	28	28	27	26	28	28
CYQG	28	28	28	28	28	28	28	27	25	28	28
CYQY	28	0	0	0	0	0	28	27	24	28	28
CYUL	28	28	28	28	28	28	28	27	26	28	28
CYVR	28	28	28	28	28	28	28	27	25	28	28
CYYZ	28	28	28	28	28	28	28	27	25	28	27
Estados Unidos											
KATL	28	23	28	27	24	25	24	23	14	11	14
KBDL	28	25	27	27	26	21	24	20	15	16	14
KBOS	28	20	27	26	26	25	26	19	13	14	14
KBWI	28	27	28	25	26	25	23	19	11	12	13
KCLE	28	26	27	26	24	25	22	18	16	9	12
KDEN	28	27	28	26	24	25	23	19	15	11	12
KDFW	28	27	28	27	25	25	24	21	14	13	14
KDTW	28	25	28	27	26	23	25	21	14	9	13
KEWR	28	27	27	27	23	24	24	20	14	17	14
KFAT	28	23	28	28	26	22	23	17	16	11	14
KFLL	28	25	28	28	27	22	23	20	15	12	12
KIAD	28	26	28	26	25	24	23	22	12	12	10
KIAG	28	22	28	27	24	23	23	20	13	13	10
KIAH	28	22	27	27	24	25	22	16	14	14	12
KIND	28	26	28	27	27	26	25	19	11	14	15
KJFK	28	25	27	26	23	25	24	19	17	15	13
KLAS	28	25	28	25	26	22	25	19	14	11	14
KLAX	28	22	28	26	26	24	21	19	14	11	12
KMIA	28	24	28	27	26	24	23	24	17	13	14
KMKE	28	24	27	26	25	24	24	19	16	13	13
KMSY	28	21	26	25	23	25	23	21	16	12	13
KOAK	28	25	27	27	26	24	23	19	15	14	10
KONT	28	26	28	24	26	25	23	20	18	15	16
KORD	28	23	27	28	27	25	24	21	14	12	13
KORL	28	0	0	0	0	0	0	0	0	0	0
KPBI	28	26	28	25	26	24	24	22	16	10	14
KPHL	28	27	28	26	26	25	24	19	11	12	12
KPHX	28	23	28	25	26	23	23	14	17	18	16
KPIT	28	25	27	26	24	24	24	17	13	11	14
KPUB	28	25	28	28	24	25	27	20	14	17	14
KSAN	28	26	28	27	27	26	25	23	16	12	17
KSAT	28	23	28	26	24	24	24	15	17	10	11
KSCK	28	20	26	27	24	24	23	18	15	12	15
KSEA	28	26	28	27	27	23	24	20	13	11	14
KSFO	28	26	27	27	26	25	25	17	14	14	13

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
KTPA	28	24	27	28	26	23	23	19	12	9	15
KTUS	28	0	28	27	24	22	24	17	14	12	13
Region NAT Bermudas											
TXKF	28	28	26	11	28	28	28	27	25	28	27
Region AFI África do Sul											
FABL	28	16	22	19	22	27	27	12	12	27	27
FACT	28	25	17	19	27	28	27	12	14	28	28
FADN	28	14	23	19	27	28	26	11	14	27	28
FAGE	28				0	0	0	0	0	0	0
FAGG	28				0	0	0	0	0	0	0
FAJS	28	18	23	23	23	28	27	12	13	28	28
FAME	28				0	0	0	0	0	0	0
FAMM	28				0	0	0	0	0	0	0
FAOB	28				0	0	0	0	0	0	0
FATC	28				0	0	0	0	0	0	0
FAUP	28				0	27	27	9	12	26	23
FAWK	28				0	0	0	0	0	0	0
Angola											
FNLU	28	0	2	2	2	21	21	0	21	17	16
Botswuana											
FBSK	28				0	0	0	0	0	0	27
Cabo Verde											
GVAC	28	26	26	26	27	28	28	28	28	28	28
Congo											
FCBB	28	27	28	28	28	27	28	27	28	28	28
Costa do Marfim											
DIAP	28	0	1	0	0	26	26	0	0	28	28
Gambia											
GBYD	28	0	2	0	0	27	28	0	0	28	28
Ghana											
DGAA	28	0	2	0	0	11	0	27	20	23	21
Guiné Bissau											
GGOV	28	0	1	0	0	27	26	1	0	0	25

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Ilha Ascención											
FHAW	28				0	12	25	28	24	25	27
Ilhas Canárias											
GCLP	28	28	28	27	28	28	28	28	24	26	28
GCTS	28	28	28	27	28	28	28	28	24	26	28
Libéria											
GLRB	28	0	23	25	23	24	25	16	7	0	21
Marrocos											
GMAA	28	0	0	0	0	0	0	0	0	0	0
GMME	28	0	1	0	0	22	24	26	28	24	26
GMMN	28	0	1	0	0	25	26	25	26	25	26
Mauritânia											
GQNN	28	0	1	0	0	23	27	0	0	0	26
GQPP	28	0	1	0	0	0	25	0	0	26	22
Namíbia											
FYWH	28				0	0	2	0	0	0	0
Nigéria											
DNKN	28	0	1	0	1	25	20	0	21	19	26
DNMM	28	9	19	0	12	27	28	0	27	27	28
República do Guiné											
GUCY	28	0	27	25	17	17	19	13	13	25	21
Senegal											
GOOY	28	0	26	25	27	27	28	28	28	27	28
Serra Leoa											
GFLL	28	0	24	14	15	21	12	5	10	3	9
Togo											
DXXX	28	27	1	12	16	26	19	0	27	28	27
Zaire											
FZAA	28	23	26	27	27	26	28	26	28	27	26
Region EUR Alemanha							,				
EDDF	28	28	28	28	28	28	28	28	24	26	28
EDDH	28	28	28	28	27	28	28	28	24	26	28
EDDK	28	28	27	28	27	28	28	28	22	27	28

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
EDDL	28	28	26	28	27	28	28	28	22	27	28
EDDM	28	28	26	28	27	28	28	28	23	26	28
EDDS	28	28	27	27	26	28	28	28	24	26	28
ETBS	28	0	0	0	0	0	0	0	0	0	0
ETDN	28	0	0	0	0	0	0	0	0	0	0
Áustria											
LOWG	28	28	26	28	28	28	28	28	16	20	21
LOWW	28	28	28	28	28	28	28	28	24	26	28
Bélgica											
EBBR	28	28	28	28	28	28	28	28	28	26	28
Dinamarca											
EKCH	28	28	28	28	28	28	28	28	28	26	27
Espanha											
LEAL	28	28	28	28	28	28	28	28	24	25	28
LEBL	28	28	28	28	28	28	28	28	24	26	28
LEMD	28	28	28	28	28	28	28	28	24	26	28
LEMG	28	28	28	28	28	28	28	28	24	26	28
LEST	28	28	27	28	28	28	28	28	24	25	28
LEVC	28	28	28	28	28	28	28	28	24	26	28
LEZL	28	28	28	28	28	28	28	28	24	26	28
Finlândia											
EFHK	28	28	28	28	28	28	28	28	23	26	28
França											
LFBD	28	28	28	28	28	28	27	28	22	27	28
LFBO	28	28	28	28	28	28	27	28	22	27	27
LFBT	28	0	0	0	0	0	0	0	22	27	28
LFLL	28	28	28	28	28	28	28	28	23	26	28
LFML	28	28	27	28	28	28	26	28	22	27	27
LFMN	28	28	27	28	28	28	27	28	23	27	28
LFMT	28	28	26	28	28	28	19	28	23	27	28
LFPG	28	28	28	28	28	28	27	28	21	26	28
LFPO	28	28	27	28	28	28	27	28	23	26	28
LFSB	28	28	28	28	28	28	28	28	22	26	27
Holanda											
EHAM	28	28	24	28	28	28	28	28	24	25	28
EHRD	28	28	24	28	27	28	28	28	23	25	27
Húngria											
LHBP	28	28	28	28	27	28	28	28	22	26	28

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Inglaterra											
EGFF	28	28	28	28	28	28	27	28	23	27	28
EGGW	28	28	26	28	28	28	28	28	22	27	28
EGKK	28	28	28	28	28	28	28	28	23	27	27
EGLL	28	28	28	28	27	28	28	28	24	27	27
Irlanda											
EIDW	28	28	28	27	28	27	28	28	23	25	28
EINN	28	28	28	27	28	27	28	28	23	25	28
Itália											
LIMC	28	28	28	28	28	28	28	28	24	27	28
LIMF	28	28	28	28	28	28	28	28	23	27	28
LIMJ	28	28	28	28	28	28	28	28	23	27	28
LIML	28	28	28	28	28	28	28	28	23	27	28
LIRF	28	28	28	28	28	28	28	28	24	27	28
Luxemburgo											
ELLX	28	28	28	28	28	28	28	28	24	25	28
Polônia											
EPWA	28	28	28	28	28	28	28	28	20	27	26
Portugal											
LPAZ	28	28	27	28	28	28	28	28	26	27	28
LPFR	28	28	28	28	28	28	28	28	25	27	28
LPPR	28	28	28	28	28	25	28	28	25	27	28
LPPS	28	28	28	28	28	28	28	28	26	27	28
LPPT	28	28	28	28	28	28	28	28	26	27	28
República Tcheca											
LKPR	28	28	28	28	28	28	28	28	24	28	28
Rússia											
UUEE	28	28	28	28	28	28	24	24	24	26	26
Slováquia											
LZIB	28	28	27	28	28	28	28	28	28	0	0
Suíça											
LSGG	28	28	25	28	27	27	28	27	23	26	28
LSZH	28	28	28	27	27	27	28	27	23	26	28

Local	Prev.	2007				2008				2009	
		Mar	Jun	Set	Nov	Mar	Jun	Set	Nov	Mar	Jun
Region ASIA Austrália											
YSSY	28	0	0	0	0	0	0	0	0	0	0
Nova Zelândia											
NZAA	28	28	28	28	28	27	26	28	25	27	25
NZCH	28	0	28	28	28	27	27	28	25	27	25
NZWN	28	28	28	28	28	27	26	28	25	27	25
Region PAC Polinésia Francesa											
NTAA	28	28	28	28	27	24	23	25	25	27	26
NTTG	28	0	0	0	0	0	0	0	0	0	0

Note: It not provides for the exchange of TAF int this period.

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

6.1 Under this agenda item, the Meeting reviewed 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.

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

6.2 The Meeting recalled that regional meteorological procedures indicated in Part VI – Meteorology of the CAR/SAM ANP Basic and FASID (Doc 8733), were amended in June and July 2009, respectively. The valid ANP Basic/FASID, Part VI – MET is available at ICAO SAM Office website, www.lima.icao.int/e-documents/CAR/SAM Air Navigation Plan.

Operational implementation of MET database – Tables MET 1A and MET 2A

6.3 The Subgroup recalled that 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.

6.4 The Meeting took note that 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 part of the report includes the amendments to CAR/SAM FASID Table MET 2A that do not require regional air navigation agreement and are amended in accordance with the information provided by the States.

6.5 The Meeting agreed to amend CAR/SAM FASID Tables MET 1A and MET 2A. In addition, 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. In this regard, the Subgroup agreed to exclude this Table from CAR/SAM FASID Part VI – MET, and include it as an Appendix to the CAR/SAM Guide for OPMET Exchange.

6.6 Based on the above, the Meeting formulated the following draft conclusion:

DRAFT
CONCLUSION 10/12 AMENDMENT TO CAR/SAM ANP BASIC AND FASID, PART VI - MET

That,

a) Part VI – MET of CAR/SAM ANP Basic and FASID Tables MET 1A and MET 2A are amended as shown in **Appendix B** to this part of the report; and

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

i. be eliminated from CAR/SAM FASID; and

ii. be included as an Appendix to the CAR/SAM Guide for OPMET exchange.

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

1	2	3	4	5	6
…..					
Bolivia					
	EL TROMPILLO	SLET	Y	T	~~P~~F
	SAN IGNACIO DE VELASCO	SLSI	Y		~~P~~F
	SANTA ANA DEL YACUMA	SLSA	Y		~~P~~F
VIRU VIRU		SLVR	Y	T	~~P~~F
	YACUIBA	SLYA	Y	T	~~P~~F
British Virgin Islands (United Kingdon)					
TERRANCE B. LETTSOME, TORTOLA VIRGIN GORDA, B.V.I.		TUPW	Y	T	P N
Dominica					
MELVILLE HALL, DOMINICA		TDPD	Y	Y	~~P~~F
México					
	COLIMA	MMIA	Y	T	~~F~~P
Peru					
	ILO	SPLO	Y	T	~~F~~P
	PUCALLPA/INTL. DAVID ABENSUR RENGIFO	SPCL	Y	T	~~P~~F
TACNA/CORONELFAP CARLOS CIRIANI SANTA ROSA		SPTN	Y	T	~~P~~F
TRUJILLO/CAPITAN CARLOS MAREINES DE PINILLOS		SPRU	Y	T	~~P~~F
Puerto Rico (United States)					
	ROOSEVELT ROADS NAS, PR.	TJNR	~~Y~~	~~T~~	~~F~~N

1	2	3	4	5	6
Venezuela[1]					
	~~*ACARIGUA, PORTUGUESA*~~	~~SVAC~~	~~Y~~	~~T~~	~~F~~
	~~*B.A. GENERALÍSIMO FRANCISCO DE MIRANDA, CARACAS, MIRANDA*~~	~~SVFM~~	~~Y~~	~~T~~	~~F~~
	~~*BARINAS, BARINAS*~~	~~SVBI~~	~~Y~~	~~T~~	~~F~~
	BARQUISIMETO, LARA	SVBM	Y	T	~~F~~P
	~~*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~~
	~~*GUANARE, PORTUGUESA*~~	~~SVGU~~	~~Y~~	~~T~~	~~F~~
	~~*GUIRA, SUCRE*~~	~~SVGI~~	~~Y~~	~~T~~	~~F~~
	~~*MATURIN, MONAGAS*~~	~~SVMT~~	~~Y~~	~~T~~	~~F~~
	~~*MERIDA, MERIDA*~~	~~SVMD~~	~~Y~~	~~T~~	~~F~~
	~~*PUERTO AYACUCHO, AMAZONAS*~~	~~SVPA~~	~~Y~~	~~T~~	~~F~~
	~~*SAN FERNANDO DE APURE, APURE*~~	~~SVSR~~	~~Y~~	~~T~~	~~F~~
	~~*SAN JUAN DE MORROS, GUARICO*~~	~~SVJM~~	~~Y~~	~~M~~	~~P~~
	SANTO DOMINGO, B. A. MAYOR BUENAVENTURA VIVAS, TACHIRA	SVSO	Y	~~T~~	~~F~~P
	~~*TUMEREMO, BOLIVAR*~~	~~SVTM~~	~~Y~~	~~T~~	~~F~~
	~~*VALLE DE LA PASCUA, GUARICO*~~	~~SVVP~~	~~Y~~	~~T~~	~~F~~
…..					

[1] Only two non-AOP aerodromes remain.

AMENDMET TO ANP BASIC, PART VI – MET

…

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]

…

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		~~T~~X	F
SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR	RS	SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP	SBGR		~~T~~X	F
Ecuador							
LATACUNGA	SELT	RN&AS	~~GUADUAL~~ QUITO	SE~~CD~~QU		T	P
Panama							
PANAMA/MARCOS A GELABERT	MPMG	RN&AS	PANAMA/TOCUMEN	MPTO	Y	T	P
PANAMA/TOCUMEN	MPTO	RS	PANAMA/TOCUMEN	MPTO	Y	T	F
Peru							
AREQUIPA/RODRIGUEZ BALLON	SPQU	AS	~~LIMA CALLAO JORGE CHAVEZ~~ AREQUIPA/RODRIGUEZ BALLON	SP~~IM~~QU	Y	T	F
CUSCO/VELAZCO ASTETE	SPZO	RS	~~LIMA CALLAO JORGE CHAVEZ~~ CUSCO/VELAZCO ASTETE	SP~~IM~~ZO	Y	T	F
IQUITOS/CORONEL FAP	SPQT	RS	~~LIMA CALLAO JORGE CHAVEZ~~ IQUITOS/CORONEL FAP	SP~~IM~~QT	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	~~T~~X ~~T~~X	F F
Bolivia	*COBIJA*	SLCO	Y		
Peru	*YURIMAGUA/MOISÉS BENZANQUEN RENGIFO*	SPMS	Y	T	P
……					

Agenda Item 7: Regional MET requirements for ATM

Regional and National Performance Framework

7.1 The Meeting took note that the ICAO planning objective aims to achieve a performance-based global air traffic management (ATM) system through the application of air navigation systems and procedures in a progressive, cost-effective and cooperative manner. The performance-based approach adheres to the following principles: strong focus on results through adoption of performance objectives and targets; collaborative decision-making driven by the results; and reliance on facts and data for decision-making. Assessment of achievements is periodically checked through a performance review, which in turn requires adequate performance measurement and data collection capabilities.

7.2 The advantages of a performance-based approach includes: orientation towards results, transparency and accountability; shifts from prescribing solutions to specifying desired performance; employs quantitative and qualitative methods; avoids a technology driven approach; helps decision-makers set priorities; makes the most appropriate trade-offs; and allows optimum resource allocation.

7.3 In terms of regional performance planning, the work will be based on the Global Air Navigation Plan in conjunction with Global Performance Manual. The outcome of this process would result in an output and management form that has been designated as "Performance Framework Form (PFF)." The PFF is applicable to both regional and national planning framework and thus ensures easy understanding and harmonization. GREPECAS agreed that, on the basis of PFF, the Group will identify the individual parties responsible for achieving the regional performance objectives and establish a monitoring mechanism. The Regional Plan includes information on progress achieved and provides periodic reports to ICAO Headquarters.

7.4 In terms of national performance planning, the States in cooperation with the ATM community, should update or develop national plans aligned with the regionally agreed performance objectives through the use of the common PFF template described in **Appendix A** to this part of the report.

7.5 The Meeting acknowledged that the global ATM system will emerge through the implementation of many initiatives by States over several years on an evolutionary basis. The set of global planning initiatives (GPIs) contained in the Global Plan are meant to facilitate and harmonize the work already underway within the regions and States so as to bring needed benefits to aircraft operators over the near and medium terms. For the long term, ICAO will continue to develop newer initiatives on the basis of the Operational Concept and subsequently these will be placed in the Global Plan.

7.6 The Meeting took note of GREPECAS Conclusion 15/1 regarding the need to have a clearly defined strategy to implement ATM systems as well as to align work programmes of the States, regions and ICAO Headquarters. In this regard, the following regional performance objectives in the MET field were identified, based on the current regional work programme: a) Implementation of International Airways Volcano Watch (IAVW); b) Implementation of WAFS and associated developments; c) Development of regional MET requirements to support ATM; d) Improvement of OPMET exchange efficiency; and e) Implementation of QMS MET. These CAR/SAM MET Regional Performance Objectives were used to complete the forms related to the performance framework, which is included as **Appendix B** to this part of the report.

7.7 Based on the above, the Meeting reviewed the completed MET performance framework and formulated the following draft conclusion:

DRAFT
CONCLUSION 10/13 CAR/SAM MET REGIONAL PERFORMANCE OBJECTIVES

That, the CAR/SAM MET Regional Performance Objectives and associated performance framework forms as contained in Appendix B to this part of the report are adopted.

7.8 The Meeting took note that the Next Generation Air Transport System (*NextGen*) developed by U.S. enables safe, efficient and reliable movement of large numbers of people and goods throughout the air transportation system. The system is founded upon a set of principles and is enabled by a series of key capabilities including network-enabled information access; performance-based services; layered adaptive security; weather assimilated into decision-making; broad-area precision navigation; aircraft trajectory-based operations; equivalent visual operations; and super-density operations. Real-time information access will provide users with all required information for decision-making. *NextGen* will use four dimensional trajectories as the basis for planning and executing system operations. *NextGen* will deliver an overall system capacity up to three times greater than that of current operating levels. Detailed information regarding *NextGen* is provided at http://www.jpdo.gov.

7.9 The Meeting also noted that some meteorological authorities of the CAR/SAM States have already adopted actions to support the Air Traffic Flow Management.

Changes to ICAO Flight Plan, Aeronautical Information Service and the Air Navigation Plan

7.10 The Meeting took note that the Air Traffic Management (ATM) will demand: a) a new flight plan so that the ATM systems could take the maximum advantage of the advanced capacities of aircraft and the changing requirements of automated systems; b) an Aeronautical Information Management and a global and digital aeronautical information exchange (AIXM); and c) a digital Global and Regional Air Navigation Plan (eANP).

7.11 The Subgroup agreed in the convening of a seminar/workshop with the purpose of developing a list of possible MET requirements in support of ATM for the CAR/SAM Regions and formulated the following draft conclusion:

DRAFT
CONCLUSION 10/14 ATM/MET SEMINAR/WORKSHOP

That, in order to develop a list of possible MET requirements in support of ATM for the CAR/SAM Regions, ICAO, in coordination with WMO, conduct a Seminar/Workshop for the CAR/SAM Regions.

Four dimensional (4-d) weather database in support of ATM

7.12 The Meeting took note that the models of numerical weather prediction (NWP) models for flight planning have operationally produced three aeronautical meteorological parameters: wind,

temperature and humidity. WAFS Provider States (United Kingdom and United States) have been producing global forecasts of icing, turbulence and cumulonimbus (CB) clouds in a grid point format on a trial basis since 2007. These new forecasts are produced by the same NWP models as the WAFS wind, temperature and humidity forecasts, and have valid times that match the forecasts of wind, temperature and humidity forecasts. With the addition of grid point forecasts of turbulence, icing, and CB clouds to the WAFS (as experimental products), the WAFS global forecasts become a first generation of a four dimensional (4-D) weather database.

7.13 The concept of a 4-D weather database is one of the key components to the Next Generation Air Transportation System (NextGen) in the United States, as well as SESAR (Single European Sky Air Traffic Management (ATM) Research) in Europe.

Aeronautical Meteorological Information (MET) and Air Traffic Management (ATM)

7.14 The Meeting noted that traditionally the aviation weather services utilize weather information to address safety issues. Aviation weather services in the future, such as those being planned for NextGen and SESAR, will be incorporated as decision support tools used by ATM to address capacity and efficiency issues, in addition to safety.

7.15 At final resolution and detail, MET will become an important key element for the short and medium term trajectory prediction. MET will be used either in planning the trajectory or in changing the flight trajectory in the short term due to several factors, inclusive the avoidance of weather hazards.

WAFS as a Four-Dimensional (4-D) Weather Database

7.16 The Meeting also took note that NextGen and SESAR plans will require MET data in four dimensions (space and time) for all phases of flight. WAFS has the potential to initially provide most of the required elements, albeit at a global scale. Amendment 75 (effective Nov 2010) to Annex 3 makes for the provision of upper wind, temperature, geopotential altitude, flight levels and temperature of tropopause, maximum wind, turbulence, icing and cumulonimbus (CB) cloud in gridded form. All the above elements will be provided in 4 dimensions (x,y,z,t) with a greater space (1.25 degrees) and time (every 3 hours).

Applying WAFS for Regional and Global ATM

7.17 The WAFS 4-D Weather Database is best suited for medium and longer term ATM and flight planning, e.g., from 6 hours to 36 hours. For the WAFS 4-D Weather to serve shorter term ATM (less than 6 hours), as well as NextGen and SESAR, will require higher resolution scales in all four dimensions, as well as more data sets in addition to the basic elements of the WAFS database described above.

7.18 The Subgroup took note that the Next Generation (NEXTGEN) Air Transportation System Joint Planning and Development Office (JPDO) was established in the Department of Transportation, Federal Aviation Administration is the central organization that coordinates the specialized efforts of the Departments of Transportation, Defense, Homeland Security, Commerce, FAA, NASA and that more information on JPDO can be found at http://www.jpdo.gov/index.asp and encouraged the Members of AERMET Subgroup to access this web page to learn more about the work under development.

7.19 In addition, the Subgroup took note that the European Community established the *Single European Sky ATM Research* (SESAR) which has a similar functionality as NEXTGEN. More information on SESAR can be found at the following website: http://www.eurocontrol.int/sesar/public/subsite_homepage/homepage.html.

7.20 The Subgroup also took note that future global ATM will be machine to machine exchange of weather information into decision support tools.

7.21 The Meeting took note that the information available on this matter can be used to develop a manual on weather functionality in support of ATFM. This should be done in collaboration with the ATFM TF, where they have identified the need for a manual that addresses:

- Optional methodologies for determining airport / en route demand and capacity
- Traffic management initiatives (definition, types, coordination)
- Traffic management coordination and communication
- Traffic management structure (options)
- Performance metrics
- Collaborative decision making

7.22 The MET community needs to work with ATFM to understand their operational requirements for meteorological service.

7.23 The Meeting agreed that a report to identify the training requirements in the CAR/SAM Regions and the guidelines that are needed in fully integrating weather into ATFM should be prepared.

7.24 Taking into consideration the above discussions, the Meeting agreed to update the tasks of the MET/ATM Task Force.

PERFORMANCE FRAMEWORK FORM

(a sample)

<table>
<tr><td colspan="5">REGIONAL PERFORMANCE OBJECTIVES /NATIONAL PERFORMANCE OBJECTIVES —
OPTIMIZE THE ATS ROUTE
STRUCTURE IN EN-ROUTE AIRSPACE</td></tr>
<tr><td colspan="5">Benefits</td></tr>
<tr><td>Environment
Efficiency</td><td colspan="4">• reductions in fuel consumption;
• ability of aircraft to conduct flight more closely to preferred trajectories;
• increase in airspace capacity;
• facilitate utilization of advanced technologies (e.g., FMS based arrivals) and ATC decision support tools (e.g., metering and sequencing), thereby increasing efficiency.</td></tr>
<tr><td colspan="5">Strategy
Short term (2010)
Medium term (2011 - 20015)</td></tr>
<tr><td>ATM OC COMPONENTS</td><td>TASKS</td><td>TIMEFRAME START-END</td><td>RESPONSIBILITY</td><td>STATUS</td></tr>
<tr><td rowspan="8">AOM</td><td>En-route airspace</td><td rowspan="8">2005-2008</td><td></td><td></td></tr>
<tr><td>• analyze the en-route ATS route structure and implement all identifiable improvements;</td><td></td><td></td></tr>
<tr><td>• implement all remaining regional requirements (e.g. RNP 10 routes); and</td><td></td><td></td></tr>
<tr><td>• finalize implementation of WGS-84</td><td></td><td></td></tr>
<tr><td>• monitor implementation progress</td><td></td><td></td></tr>
<tr><td>• develop a strategy and work programme to design and implement a trunk route network, connecting major city pairs in the upper airspace and for transit to/from aerodromes, on the basis of PBN and, in particular, RNAV/5, taking into account interregional harmonization;</td><td></td><td></td></tr>
<tr><td>• monitor implementation progress</td><td></td><td></td></tr>
<tr><td>linkage to GPIs</td><td colspan="4">GPI/5: performance-based navigation, GPI/7: dynamic and flexible ATS route management, GPI/8: collaborative airspace design and management, GPI/11: RNP and RNAV SIDs and STARs and GPI/12: FMS-based arrival procedures.</td></tr>
</table>

REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 1 Implement International Airways Volcano Watch (IAVW), International Tropical Cyclone Watch (ITCW) and SIGMETs				
Benefits				
Safety **Efficiency**	• Improve in-flight safety by providing information on volcanic ash, tropical cyclone or other hazardous weather • Improve pre-flight planning by optimizing flight routes with respect to volcanic ash and hazardous weather phenomena			
Strategy ***Short term/Medium term (2011 - 2015)***				
ATM OC COMPONENTS	**TASKS**	**TIME FRAME**	**RESPONSIBILITY**	**STATUS**
MET	• Monitor and provide assistance in the regional implementation of volcanic ash and tropical cyclone advisories and SIGMET	2009 - 2015	RO/MET LIMA & RO/MET MEXICO	In progress
	• Conduct periodic tests for SIGMET on volcanic ash and tropical cyclones in view of assessing improvements in their implementation	2009 - 2015	RO/MET LIMA, RO/MET MEXICO & AERMETSG	In progress
	• Develop and keep up-to-date a regional guidance in Spanish to explain the contents of Doc 9766, *Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List.*	2010 - 2015	RO/MET LIMA	Future
	• Conduct controls on the issuance of SIGMET WS, WV and WC in view of assessing improvements in their implementation	2010 - 2015	Brasilia International OPMET Databank	Future
	• Update the Regional SIGMET Guide, periodically, to keep it consistent with Annex 3 and with the corresponding FASID MET Tables	2010 - 2015	RO/MET LIMA	Future
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	▪ *Annex 3* ▪ *Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Doc 9691)* ▪ *Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List (Doc 9766)* ▪ *CAR/SAM Regional SIGMET Guide*			

REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 2 Implement WAFS and associated developments				
Benefits				
Safety **Efficiency**	• Improve the regional implementation of weather forecasts (upper-level winds, turbulence, icing, cumulonimbus) used by airlines and ATM needed to optimize flight routes which will provide an increase in efficiency and reduced carbon emissions			
Strategy ***Short term/Medium term (2011 - 2015)***				
ATM OC COMPONENTS	**TASKS**	**TIME FRAME**	**RESPONSIBILITY**	**STATUS**
MET	• Assist in the regional implementation of the new turbulence, icing and cumulonimbus forecasts	2009 - 2013	RO/MET LIMA, RO/MET MEXICO & AERMETSG	In progress
	• Coordinate the organization of regional training of the new turbulence, icing and cumulonimbus forecasts	2011	ICAO, WMO & Washington WAFC	In progress
	• Monitor the migration to ISCS G3 and to WIFS implementation.	2010 - 2012	WAFS/I TF	In progress
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	• *Annex 3* • http://www.icao.int/anb/wafsopsg/ • http://www.lima.icao.int/			

REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 3 Develop regional MET requirements to support ATM				
Benefits				
Safety Efficiency	• Improve efficiency of ATM and airlines by providing tailored regional MET products needed to optimize flight routes in all weather conditions			
Strategy ***Short term/Medium term (2011 - 2015)***				
ATM OC COMPONENTS	**TASKS**	**TIME FRAME**	**RESPONSIBILITY**	**STATUS**
MET	• Carry out annual surveys on ISCS efficacy in order to send them to the focal points and analyze the results to be presented at the next AERMETSG meeting.	Annually	RO/MET LIMA & RO/MET MEXICO	In progress
	• Based on the last edition of Doc 9750 - *Global Air Navigation Plan for CNS/ATM*, develop the MET chapter of the *CAR/SAM Regional Plan for the implementation of CNS/ATM systems*, Document I.	2011	MET/ATM/OP TF	Future
	• Conduct a CAR/SAM ATM/MET Seminar/workshop, in order to develop a list of possible regional MET requirements in support of ATM	2010	RO/MET LIMA, RO/MET MEXICO & WMO	Future
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	• *Manual on co-ordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services (Doc 9377)*			

REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 4 Improve the efficiency of OPMET exchange				
Benefits				
Safety Efficiency	• Improve the availability of OPMETE information for International Air Navigation through OPMET data CNS/MET coordinated controls in the States of the CAR/SAM Regions.			
Strategy ***Short term/Medium term (2010 - 2015)***				
ATM OC COMPONENTS	**TASKS**	**TIME FRAME**	**RESPONSIBILITY**	**STATUS**
MET	• Carry out OPMET data CNS/MET coordinated controls in the CAR/SAM Regions in order to submit them to the focal points and analyze their results to be presented in CNS/MET Seminars and AERMETSG meetings.	Annually	RO/MET LIMA & RO/MET MEXICO and States and Territories of the CAR/SAM Regions	Future
	• Develop a CNS/MET Seminar/Workshop for the CAR/SAM Regions every two years in order to identify the causes of the deficiencies and propose actions for their solution.	2010 - 2015	RO/MET LIMA & RO/MET MEXICO	Future
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	• *GREPECAS Conclusion 15/14*			

REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 5 Implementation of MET Quality Management System				
Benefits				
Safety Efficiency	• Improve the quality of meteorological information and meteorological services and reliability needed for flight planning (efficiency) and in-flight replanning (safety)			
Strategy ***Short term/Medium term (2011 - 2015)***				
ATM OC COMPONENTS	**TASKS**	**TIME FRAME**	**RESPONSIBILITY**	**STATUS**
MET	• Support States to implement a Quality Management System in the MET Services, developing a guide of procedures for implementing the Quality Management System for MET Services, including the documented procedures required by ISO 9001:2008 and guidance of the ICAO/WMO joint *Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation* (Doc 9873), as well as the documentary system for the provision of aeronautical meteorological service.	2010	RO/MET LIMA & QMS MET EXPERT	In progress
	• Develop of documentary system for the referred guide.	2010	RO/MET LIMA & QMS MET EXPERT	In progress
	• Develop a Quality Management Seminar/Workshop for MET services with the objective that the States adapt the quality management to their MET services.	2010	RO/MET LIMA & QMS MET EXPERT	In progress
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	• *Project Document RLA/06/901*			

Agenda Item 8: Implementation of MET quality system

8.1 Under this Agenda Item, the Meeting recalled that proposal for amendment to Annex 3 addresses, among others, provisions related to quality management systems and that the Air Navigation Commission, during its preliminary review and in order to have a better understanding of where the States are in the implementation process, requested that States be asked the following:

a) have quality management systems (QMS) been implemented in your State? If not, please evaluate the time required to have them in place?

b) do you foresee significant cost and efforts to implement Standard 2.2.2 in your State? (Only consider costs related to meteorological service for international air navigation); and

c) do you envisage changes to the level of charging for your meteorological services to international air navigation as a result of the implementation of QMS?

8.2 In addition, the Meeting could recall that during its ninth meeting (AERMETSG/9), Decision 9/22 - Establishment of the MET Quality Management Task Force was formulated, with the main task of developing, in coordination with the Secretariat, a draft Guide with the procedures and instructions for MET service in line with Standard ISO 9000 and Doc 9873 - *Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation*.

8.3 The Subgroup reviewed and discussed the Working Instructions of the Meteorological Watch Office, presented by the Quality Management Task Force Rapporteur, which is included as **Appendix A** to this part of the report. The Meeting particularly analyzed concepts on aeronautical meteorology sub-processes and agreed that the form of the referred Working Instructions should be standardized, taking into account following considerations:

a) that the item on responsibilities only considers concepts referred to the meteorological service for international aviation; and

b) that the item on the description of activities only considers ICAO Annex 3 regulations, or National Aeronautical Regulations according to each State's reality.

8.4 In such sense, the Meeting noted that the implementation of such plan would require sufficient time for its fulfilment and agreed to update the Taks Force's work programme.

8.5 Additionally, the Meeting noted that Project RLA/06/901, which objective is to assist the nine (9) States of the SAM Region participating in the project in the implementation of the ATM operational concept and the corresponding technological support in communications, navigation and surveillance (CNS), has considered Aeronautical Meteorology (MET), reason for which the development of the complete Guide will be made within the framework of this project.

8.6 With regard to CAR Region, letters N 1-8.4.16 – EMX0908 dated 21 September 2009 and LT 13/12.5 – SA678 dated 29 September 2009 were sent to English speaking CAR/SAM States, inviting them to participate in the Seminar/Workshop on the Meteorological Services for Air Navigation for the NAM/CAR/SAM Regions, *"Development of a Quality Assurance System for the enhancement of the Aeronautical Meteorological Service"* (Montego Bay, Jamaica, 25-27 November 2009), in English only.

Agenda Item 9: Status of MET deficiencies (GREPECAS List of MET Deficiencies)

9.1 Under this agenda item, the Meeting recalled that according to their responsibilities and based on the uniform methodology for the identification, evaluation and reporting of air navigation deficiencies, formulated by the ICAO Council, the Regional Offices, in coordination with the States and GREPECAS mechanism, have been periodically reviewing the status of implementation of the SARPs and the CAR/SAM Regional Air Navigation Plan, with a view to identifying and assessing safety aspects. Based on the results of this review, air navigation deficiencies are identified and then submitted to the ICAO Council, and reported to the States and user organizations involved.

9.2 Likewise, the Meeting was aware that the Regional Offices maintain the list of deficiencies updated and GREPECAS mechanism, through the Aviation Safety Board (ASB), periodically reviews that list and recommends actions for resolving urgent air navigation deficiencies (U) in the CAR/SAM Regions. Likewise, the Regional Offices in agreement with the States resolve the deficiencies, and make the follow-up on the recommendations of GREPECAS Aviation Safety Board (ASB).

9.3 Moreover, the Meeting recalled that the existing deficiencies affecting the provision of air navigation services in the ICAO Regions, and the need for the States to implement programmes to resolve them, are a matter of constant concern and high priority for the ICAO Council and that an important element of the ICAO Global Aviation Safety Plan (GASP), approved through Assembly Resolution A33-16, is the need to improve the identification and resolution of air navigation deficiencies in order to take specific actions for their deletion.

9.4 The Subgroup noted that GREPECAS verified that many of the problems concerning deficiencies could be solved through better coordination between the States and their respective Regional Offices and that the GREPECAS Air Navigation Deficiency Database (GANDD) was the best tool to improve this coordination.

9.5 The Group as well noted that the failure by States to update the GANDD could be due to the coordination of personnel responsible for this function. With this purpose, GREPECAS adopted Conclusion 14/59 for the designation of a National Coordinator, in order to facilitate administrative coordination of the database with those responsible in each area of air navigation services of the States. In this sense, **Appendix A** to this part of the report includes the list of coordinators for the CAR and SAM Regions.

Standardized classification of "U" deficiencies

9.6 The Meeting took note that GREPECAS agreed to make a complete review of the deficiency system, including the procedures, database, as well as the preparation of a database user's guide. As a result of the review by the Secretariat of the method for capturing and storing information in the GANDD, and the reformulation of the reports provided by the former, Appendices A, B, C, and D were deleted, and it was agreed that outstanding deficiencies would be reported in a single format and corrected deficiencies would be maintained for statistical purposes only.

9.7 The procedures developed by the Secretariat for the classification and treatment of GREPECAS "U" deficiencies contribute to the application of the Uniform methodology for the identification, assessment, and reporting of deficiencies approved by the ICAO Council, which contains criteria for identifying "U" deficiencies. The procedure recommends the application of the risk analysis

method used in the official ICAO SMS course, which is included as **Appendix B** to this part of the report. According to these criteria, indices **5A, 5B, 5C, 4A, 4B**, and **3A** correspond to "U" deficiencies

9.8 Likewise, GREPECAS/15 examined the risk analysis of "U" deficiencies, pursuant to Conclusion ASB/8/2, and noted that, due to an involuntary error, the list of "U" deficiencies had been only circulated to States/Territories but not to IATA and IFALPA. Consequently, the Meeting felt that the exercise should continue, with the participation of IATA and IFALPA and with the States that had not yet applied the classification based on the risk analysis, with a view to having the ASB assess the results. Accordingly, Conclusion 15/47 was formulated. The results of the actions provided for in the cited conclusion will be discussed at the next ASB Meeting (ASB/10), before GREPECAS/16, foreseen to be carried out in April 2010.

Standard classification of "A" and "B" deficiencies

9.9 In addition, the Meeting was informed that GREPECAS/15 reviewed the implementation of Decision ASB/8/1 on the classification of "A" and "B" deficiencies, using the current SMS Risk Analysis Model, and adopted the use of the ICAO SMS Risk Analysis Model for the classification of "U", "A", and "B" deficiencies.

9.10 The Subgroup examined and analyzed the list of deficiencies, which is included as **Appendix C** to this part of the report.

COORDINADORES NACIONALES GANDD / GANDD NATIONAL COORDINATORS

REGION CAR / CAR REGION

Estado / State	Coordinador / Coordinator	Dirección e-mail / E-mail address
Anguilla (U. K.)		
Antigua & Barbuda	Rosemond James	oecs.dca@candw.ag
Antillas Francesas / French Antilles	Roger Gabriel Prudent	roger-gabriel.prudent@aviation-civile.gouv.fr
Antillas Neerlandesas / Netherlands Antilles	Vilmo Pieter	vilmo.pieter@gov.an
Aruba	Louis Reed	louis.reed@aruba.gov.aw
Bahamas	Wendy Major	wendymajor@bahamas.gov.bs
Barbados	David Brones	civilav@sunbeach.net
Belice / Belize	J.A. Contreras	dcabelize@btl.net
Bermuda	Rosemond James	oecs.dca@candw.ag
Costa Rica	Luis Gustavo González Trigo	ggonzalez@dgac.go.cr
Cuba	Iraida Alfonso	iraida.alfonso@iacc.avianet.cu
Dominica	Rosemond James	oecs.dca@candw.ag
El Salvador	Mauricio E. Rivas Rodas	navegacion-aerea@acc.gob.sv
Estados Unidos / United States	Mayte Ashby	mayte.ashby@faa.gov
Granada / Grenada	Rosemond James	oecs.dca@candw.ag
Guatemala	Carlos Urizar	carouriz@yahoo.com
Haiti	Jacques Boursiquot	jboursiquot@ofnac.org
Honduras	Geovany Sauceda	gsauceda@yahoo.com
Islas Caimanes / Cayman Islands	Richard Smith	richard.smith@caacayman.com
Islas Turcas y Caicos / Turks and Caicos Is.	Thomas Swann	tswann@gov.tc
Islas Vírgenes Br / Virgin Islands Br	Margaret Wilson	margaret.wilson@caribairsafety.aero
Jamaica	Patrick Stern	dans@jcca.gov.jm
Mexico	José Javier Roch Soto	jjrochso@sct.gob.mx
Montserrat	Margaret Wilson	margaret.wilson@caribairsafety.aero
Nicaragua	Carlos Salazar	dg@inac.gob.ni
República Dominicana / Dominican Republic	Santiago Rosa	subdireccion_sna@idac.gov.do

Estado / State	Coordinador / Coordinator	Dirección e-mail / E-mail address
St Kitts & Nevis	Rosemond James	oecs.dca@candw.ag
St. Vincent and The Grenadines	Alastair Alexander	ETJoshua@caribsurf.com
Santa Lucía / St. Lucia	Rosemond James	oecs.dca@candw.ag
Trinidad y Tabago / Trinidad and Tobago	Randy Gomez	rgomez@caa.gov.tt

REGION SAM / SAM REGION

Estado / State	Coordinador / Coordinator	Dirección e-mail / E-mail address
Argentina	Eduardo Rodino	buecrucga@faa.mil.ar
Bolivia	Daniel Navajas Orellana Jefe de la Unidad de Infraestructura Aeroportuaria	dnavajas@dgac.gov.bo
Brasil / Brazil	Paulo Jorge de Medeiros Vieira Asesor de la CERNAI	asscernai1@decea.gov.br
Chile	Jesús Sánchez Cvitanic Jefe Sección Navegación Aérea del Departamento Planificación	jsanchez@dgac.cl
Colombia	Grupo de Proyectos Internacionales	sparis@aerocivil.gov.co nsanchez@aerocivil.gov.co
Ecuador	Bolívar Dávalos Cárdenas	bolivar_davalos@dgac.gov.ec bolodavalos@hotmail.com
Guyana Francesa / French Guiana	Catherine Arnaud	catherine.arnaud@aviation-civile.gouv.fr
Guyana / Guiana	Director Air Navigation Services	dans@gcaa-gy.org
Panamá		
Paraguay	Hernán Jhonny Colman Gerente de Navegación Aérea	gna@dinac.gob.py
Perú	Raymundo Hurtado Paredes Inspector de Navegación Aérea	rhurtado@mtc.gob.pe
Surinam		
Uruguay	Carlos Acosta Director de Circulación Aérea	insvuelo@adinet.com.uy
Venezuela	Pablo Cecilio Rattia Rodríguez Gerencia de Servicios a la Navegación Aérea	p.rattia@inac.gov.ve

METHODOLOGY FOR DETERMINING THE THREE PRIORITY LEVELS FOR AIR NAVIGATION DEFICIENCIES (U/A/B)

ON THE BASIS OF RISK INDEX

Risk Probability		Risk Severity				
		Catastrophic A	Hazardous B	Major C	Minor D	Negligible E
Frequent	5	5A	5B	5C	5D	5E
Occasional	4	4A	4B	4C	4D	4E
Remote	3	3A	3B	3C	3D	3E
Improbable	2	2A	2B	2C	2D	2E
Extremely improbable	1	1A	1B	1C	1D	1E

"U" type deficiencies correspond to the shadowed area of this matrix (Risk Indexes: 5A, 5B, 5C, 4A, 4B and 3A)
"A" type deficiencies correspond to all the remaining risk indexes
"B" type deficiencies are not safety related and do not correspond to any of the above risk indexes

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
AIA Anguilla										
MET 7 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Anguilla	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	State		
MET 58 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Anguilla	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	State		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
ATG Antigua and Barbuda										
MET 59 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Antigua and Barbuda	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B	JUN/ 1996	a) To implement the SIP COM/MET Recommendations for the CAR Region, b) to make use for the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	State		The deficiencies in the OPMET exchange remain. An AFTN terminal is required at the MET Office

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
ABW Aruba										
MET 8 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Aruba	Meteorology	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 27 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Aruba	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 45 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Aruba	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 60 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Aruba	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
BHS Bahamas										
MET 9 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Bahamas	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49.	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 46 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Bahamas	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies.	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 61 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Bahamas	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
BLZ Belize										
MET 11 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5.	Belize	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49.	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 30 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Belize	RVR have not been implemented.	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 47 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Belize	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies.	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 63 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Belize	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	a) Implement the SIP COM/MET Recommendations for the CAR Region, b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		
MET 88 CAR	Surface wind displays relating to each sensor shall be located in the meteorological station with corresponding displays in the appropriate air traffic services (Annex 3, Part II, Appendix 3, Standard 4.1.2.1)	Belize	Surface wind displays at the meteorological station and the air traffic control tower correspond to different wind sensors located more than 800m apart. This is also the case with other meteorological parameters (temperature, preassure, QNH, etc.).	AUG/ 2008	The acquisition of an automated weather system with sensors located by the runway, preferably the TDZ, with identical displays located at the meteorological station and the ATS units (TWR and APP) is required. Consider a regional project for Central America including training for maintenance.	A				
MET 89 CAR	The averaging period for surface wind observation shall be a) 2 minutes for local reports and for wind displays in the ATS units; and b) 10 minutes for METAR and SPECI, except when the 10-minute period includes a marked discontinuity (Annex 3, Part II, Appendix 3, Standard 4.1.3.1).	Belize	Wind systems in use do not provide instantaneous 2-minute and 10-minute mean values of wind direction and speed for operational purposes.	AUG/ 2008	The acquisition of an automated weather system that provides adequate, instantaneous 2-minute and 10-minute mean meteorological data to fulfill the needs of meteorological information at the ATS (TWR and APP) units and the meteorological station is required, to comply with the SARPs of Annex 3.	B				

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
MET 90 CAR	METAR and SPECI reports shall contain identification of type of report (Annex 3, Part I, Chapter 4, Standard 4.5.1).	Belize	Aviation weather reports METAR and SPECI are not identified by automated OPMET Data Banks, therefore, they are not available for the aviation users.	AUG/ 2008	Ensure that METAR and SPECI reports are coded according to Table A3-1 template METAR/SPECI, considering examples A3-1 and A3-2, Annex 3, Part II, App. 3.	A				

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
CRI Costa Rica										
MET 12 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Costa Rica	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 31 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Costa Rica	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 48 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Costa Rica	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 64 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Costa Rica	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	a) Implement the SIP COM/MET Recommendations for the CAR Region, b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
CUB Cuba										
MET 32 CAR	CAR/SAM ANP MET Requirements, Table AOP 1.	Cuba	MUCM RVR has not been implemented.	JUN/ 1996		B	Request ICAO a proposal for amendment of the CAR/SAM ANP FASID Table AOP1 Completion date: Boyeros - December 2006 Varadero - December 2007 Camagüey - the requirement will be deleted when requesting the elimination of the main runway Cat I	ECASA	DEC/ 2007	

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
DOM Dominican Republic										
MET 14 CAR	Adequate number of MET trained staff.	Dominican Republic	There are requirements of specialized meteorology personnel in the aeronautical meteorology field and of an increase of the number of aeronautical meteorologists.	JUN/ 1996	To use CAR/SAM technical cooperation regional projects for the training of aeronautical meteorology.	A	To establish training courses at national level for basic and regular levels, and to use the regional projects of Technical Cooperation for high level. Action Plan: There are requirements of specialized meteorological personnel in the Meteorological Aeronautical field and an important amount of aeronautical meteorologists.	States	DEC/ 2008	Few regional contacts for a training plan and lack of financing.
MET 33 CAR	CAR/SAM ANP MET Requirements, Table AOP 1.	Dominican Republic	RVR have not been implemented.	JUN/ 1996		B	Establishment of RVR systems. Action Plan: The RVR hav not been implemented yet.	State	DEC/ 2008	Lack of financing and very expensive equipment.
MET 49 CAR	CAR/SAM ANP, Part VI, Meteorology, para. 3.	Dominican Republic	Do not transmit regularly the special AIREPs in accordance with requirements.	MAY/ 1996	Keep a strict supervision and control of the operational ATS/MET staff to keep them informed on the importance of AIREPs and on the need to disseminate them where required.	A	To coordinate with the ATC the technical agreements to obtain the information from the aricrafts. Action Plan: The special AIREPs are not being transmitted in regular form, according to the requirements.	States		Problems to establish the letters of agreement and few personnel.
MET 86 CAR	Assess visual range in runway for CAT I operations (Annex 3, Chapter 4, Rec 4.6.3.2 a)	Dominican Republic aeronautical meteorological stations	MDPC and MDSD RVRs are not implemented or in operation.		Plan the acquisition of or repair RVRs .	A		CAA		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
SLV El Salvador										
MET 15 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	El Salvador	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49 .	JUN/ 1996	Review the functions and training of the aeronautical meteorologist.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 34 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	El Salvador	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 50 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	El Salvador	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 67 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	El Salvador	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	a) Implement the SIP COM/MET Recommendations for the CAR Region, b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
GRD Grenada										
MET 16 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Grenada	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	State		
MET 35 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Grenada	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 51 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Grenada	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	State		
MET 69 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Grenada	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B	JUN/ 1996	a) Implement the SIP COM/MET Recommendations for the CAR Region, b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	State		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
GTM Guatemala										
MET 17 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Guatemala	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 36 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Guatemala	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 52 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Guatemala	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies.	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 70 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Guatemala	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	a) Implement the COM/MET SIP Recommendations for the CAR Region; and b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		
MET 91 CAR	An agreement should be established between the proper meteorological authority and the ATS authority (Annex 3, Part I, Chapter 4, recommendation 4.2).	Guatemala (DGAC, INSIVUMEH)	No letter of agreement has been established between the MET and ATS authorities. Therefore, some issues of meteorological equipment and aircraft meteorological are not properly understood.	AUG/ 2008	Establish a letter of agreement identical or equivalent to the sample included in Doc 9377 - Manual on coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services.	A				
MET 92 CAR	Surface wind displays relating to each sensor shall be located in the meteorological station with corresponding displays in the appropriate air traffic services units (Annex 3, Part II, Appendix 3, Standard 4.1.2.1).	Guatemala (DGAC, COCESNA and INSIVUMEH)	Surface wind displays in the meteorological station and air traffic control tower correspond to different wind sensor located among them at a distance greater than 800m. It is also the case of other meteorological parameters (temperature, pression, QNH, etc.)	AUG/ 2008	The acquisition of a meteorological automated system with sensors located in the runway is required, preferably TDZ, with identical displays located in the meteorological station and ATS units ATS (TWR and APP). Consider a regional project for Central America inncluding maintenance training.	A				

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
HTI Haiti										
MET 2 CAR	SIGMET information (Annex 3, Part I, Chapter 7, standard 7.1.1)	Haiti	Not all SIGMET messages are prepared based on the procedures established by ICAO.	MAY/ 1996	a) Implement the COM/MET SIP recommendations for the CAR Region; and b) make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure the correct elaboration of SIGMETs and their dissemination in accordance with the requirements of Table MET 2A.	State	APR/ 2003	TC, CB and VA should be reported in SIGMET but TC and VA occasionally affect Port-au-Prince FIR, TC advisories are issued by Miami TCRC and TC and CB cloud systems may be identified in satellite pictures.
MET 18 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Haiti	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49.	JUN/ 1996	Review the functions and training of the aeronautical meteorologist	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	States		
MET 37 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Haiti	RVR have not been implemented.	JUN/ 1996	Plan de acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 53 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Haiti	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 71 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Haiti	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B	JUN/ 1996	a) Implement the COM/MET SIP Recommendations for the CAR Region; and b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
HND Honduras										
MET 19 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Honduras	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	DGCA		
MET 38 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Honduras	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	DGCA		
MET 81 CAR	Establishment of a meteorological watch office (MWO) (Annex 3, App. 3, Estándar 3.4.1 and Table MET 2B of CAR/SAM FASID).	Honduras	Honduras does not have adequate instalations for the MWO of Tegucigalpa.	SEP/ 2005		B		DGCA		MWO requires better installations and communications since it issues SIGMET for Central American FIR.
MET 82 CAR	Aeronautical weather information (Annex 3, Chap. 8, Standard 8.1.1)	Honduras	No aerodrome weather tables are being prepared, nor aerodrome weather summaries.	SEP/ 2005		B		DGCA		
MET 83 CAR	Flight documentation (Annex 3, Chap 9, Standard 9.3.4)	Honduras	No flight documentation is being prepared.	SEP/ 2005		A		DGCA		The MET office is equipped with a WAFS workstation but requires communication facilities to provide flight documentation to distant users.
MET 84 CAR	Communications (Annex 3, Chap. 11, Standards 11.1.1, 11.1.2, 11.1.4)	Honduras	These requirements are not being complied.	SEP/ 2005		A		DGCA		MWO is linked to AFTN but better communications, including Internet are required to contact Washington VACC volcanic observatories and ATS, AIS and MET units in Central America.
MET 85 CAR	Exchange of special airreports (Annex 3, Chap. 5, Standard 5.9)	Honduras / ATS Units	ATS units do not document special AIREP to MET units.	SEP/ 2005	Develop an ATS/MET letter of agreement and make a follow-up in order to comply with that established on it.	A		DGCA		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
JAM Jamaica										
MET 4 CAR	SIGMET information (Annex 3, Part I, Chapter 7, standard 7.1.1)	Jamaica	Not all SIGMET messages are prepared based on the procedures established by ICAO	MAY/ 1996	Implement the COM/MET SIP recommendations for the CAR Region; and b) make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure the correct elaboration of SIGMETs and their dissemination in accordance with the requirements of Table MET 2A.	State	APR/ 2003	TC, CB and VA shall be reported in SIGMET but TC and VA occasionally affect the Kingston FIR, TC advisories are issued by Miami TCRC and TC and CB cloud systems may be identified in satellite pictures.
MET 39 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Jamaica	RVR have not been implemented	JUN/ 1996	Plan the acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 44 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Antigua and Barbuda	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies.	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements. Action Plan: This deficiency still remains.	State		
MET 54 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Jamaica	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
MEX Mexico										
MET 40 CAR	CAR/SAM ANP MET Requirements, Table AOP 1.	Mexico	RVR have not been implemented.	JUN/ 1996		B	Toluca Airport (MMTO) has three RVR sensors, and it is expected to be operating at the end of 2005. Expected dates of RVR installation at MMMX, MMGL and MMMY airports: 6/2007	State	JUN/ 2007	Budgetary reasons had delayed the acquisition of these equipments.
MET 74 CAR	CAR/SAM ANP Requirements, Part VI, para. 8.	Mexico	There are deficiencies in the OPMET exchange.	JUN/ 1996	Review the OPMET exchange procedures, both in the meteorology and communications areas.	A	It is expected that at the end of 2005 the implementation of the template be continued in order to avoid mistakes in the MET report transmission.	States	APR/ 2006	Budgetary reasons had delayed the implementation of this programme-template.

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
ANT Netherlands Antilles										
MET 5 CAR	SIGMET information (Annex 3, Part I, Chapter 7, standard 7.1.1)	Netherlands Antilles	Not all SIGMET messages are prepared based on the procedures established by ICAO.	MAY/ 1996	a) Implement the COM/MET SIP recommendations for the CAR Region; and b) make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	A	Ensure the correct elaboration of SIGMETs and their dissemination in accordance with the requirements of Table MET 2A.	State	APR/ 2003	TC, CB and VA shall be reported in SIGMET but TC and VA occasionally affect Curacao FIR, TC advisories are issued by Miami TCRC and, TC and CB cloud systems may be identified in satellite pictures.
MET 55 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Netherlands Antilles	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies.	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	States		
MET 75 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Netherlands Antilles	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
NIC Nicaragua										
MET 23 CAR	Adequate number of MET trained staff.	Nicaragua	There are requirements of specialized meteorology personnel in the aeronautical meteorology field and of an increase of the number of aeronautical meteorologists.	JUN/ 1996	To use CAR/SAM technical cooperation regional projects for the training of aeronautical meteorology.	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology. Action plan: There are ten aeronautical meteorologists duly trained by the OMM. This amount is due to the actual level of automation. The Aeronautical Authority developed an action plan in conjunction with the meteorological service provider, INETER, which envisages the inclusion of at least two meteorological specialists to be added to the current 10 aeronautical meteorologists who are duly trained by the WMO. This quantity is due to the automation level currently in place..	States	2009	
MET 41 CAR	CAR/SAM ANP MET Requirements, Table AOP 1.	Nicaragua	RVR have not been implemented.	JUN/ 1996		B	To ensure the implementation of required RVR. The Aeronautical Authority developed an action plan in collaboration with INETER for the procurement of an RVR.	State	2009	
MET 76 CAR	CAR/SAM ANP Requirements, Part VI, para. 8.	Nicaragua	There are deficiencies in the OPMET exchange.	JUN/ 1996	Review the OPMET exchange procedures, both in the meteorology and communications areas.	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A. Action plan: The operating data exchange is given in a quick and dynamic way due to the new system of fiber optic that was installed in the last semester 2003.	States		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
LCA Saint Lucia										
MET 24 CAR	Compliance with the requirements of WMO with regard to qualifications and training of aeronautical meteorology personnel (Annex 3, Part I, Chapter 2, standard 2.1.5	Saint Lucia	Not all personnel complies with the requirements related to qualifications and training of WMO Publications N°. 49	JUN/ 1996	Review the functions and training of the aeronautical meteorologist	A	To make the best efforts to have the adequate number of personnel duly trained in aeronautical meteorology.	State		
MET 42 CAR	Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2)	Saint Lucia	RVR have not been implemented	JUN/ 1996	Plan de acquisition of the RVR	B	To ensure the implementation of required RVR.	State		
MET 56 CAR	Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8)	Saint Lucia	ATS dependencies do not transmit regularly all special AIREPs to MET dependencies	MAY/ 1996	Review the ATS/MET Letter of agreement and make a follow-up to ensure its compliance.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements.	State		
MET 77 CAR	Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39)	Saint Lucia	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 3B.	JUN/ 1996	a) Implement the COM/MET SIP Recommendations for the CAR Region; and b) Make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions	A	Ensure that OPMET exchange is made in accordance with requirements of Tables MET 2 and MET 2A.	State		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
VCT Saint Vincent and the Grenadines										
MET 79 CAR	Adequate number of MET trained staff.	Saint Vincent	There are requirements of specialized meteorology personnel in the aeronautical meteorology field and of an increase of the number of aeronautical meteorologists.	JUN/ 1996	To use CAR/SAM technical cooperation regional projects for the training of aeronautical meteorology.	A	Upgrade training to senior and junior members of staff and increase the number of personnel.	State		

Appendix C to the report on Agenda Item 9

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE CAR REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
TTO Trinidad and Tobago										
MET 43 CAR	CAR/SAM ANP MET Requirements, Table AOP 1.	Trinidad and Tobago	RVR have not been implemented.	JUN/ 1996		B	As stated in an earlier document, the Trinidad and Tobago Meteorological Service will not be installing Runway Visual Range equipment in Trinidad and Tobago, due to the low frequency of limiting visibility. The Civil Aviation Authority is advised that the "Supplement in respect of the provisions of Trinidad and Tobabo be amended"	State	JUN/ 2004	
MET 57 CAR	CAR/SAM ANP, Part VI, Meteorology, para. 3.	Trinidad and Tobago	Do not transmit regularly the special AIREPs in accordance with requirements.	MAY/ 1996	Keep a strict supervision and control of the operational ATS/MET staff to keep them informed on the importance of AIREPs and on the need to disseminate them where required.	A	Disseminate air notifications to required locations in accordance with the Table MET 2A requirements. Action plan: The Meteorological Service has not received an AIREP message during the past four (4) years at least from Civil Aviation. Therefore we are unable to transmit these messages.	State	APR/ 2003	

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
ARG Argentina										
MET 53 SAM	Notify the RVR for CAT 1 operations (Annex 3, Part I, Chapter 4, Rec. 4.6.3.2)	Argentina / Aeronautical meteorological stations	The RVR of SAEZ, SACO, SAZM, SARE and SAME have not been implemented.	AUG/ 2006	Plan the acquisition or repairment of the RVR.	A	Installation of RVR Integrated Systems, Nefobasimeter and Automatic Meteorological Station with visual presentations in MET and TWR.	FAA - CRA in coordination with Natl. MET Service.	2007	
MET 76 SAM	Notify the RVR for CAT 1 operations [(Annex 3, Part I, Chapter 4, Rec. 4.6.3.2]	Argentina / Aeronautical meteorological stations	The RVR of SAZS, SARI y SAWH have not been implemented.	AUG/ 2006	Plan the acquisition or repairment of the RVR.	A	Acquisition and installation of RVR Integrated Systems, Nefobasimeter and Automatic Meteorological Station with visual presentations in MET and TWR.	FAA - CRA in coordination with Natl. MET Service.	2008	Waiting for the assignment of the corresponding financial resources.
MET 77 SAM	Notify the RVR for CAT 1 operations [(Annex 3, Part I, Chapter 4, Rec. 4.6.3.2]	Argentina / Aeronautical meteorological stations	The RVR of SASA, SAZN SARP have not been implemented.	AUG/ 2006	Plan the acquisition or repairment of the RVR.	A	Acquisition and installation of RVR Integrated Systems, Nefobasimeter and Automatic Meteorological Station with visual presentations in MET and TWR.	FAA - CRA in coordination with Natl. MET Service.	2009	Waiting for the assignment of the corresponding financial resources.
MET 78 SAM	Notify the RVR for CAT 1 operations [(Annex 3, Part I, Chapter 4, Rec. 4.6.3.2]	Argentina / Aeronautical meteorological stations	The RVR of SASJ, SAWG, SANT have not been implemented.	AUG/ 2006	Plan the acquisition or repairment of the RVR.	A	Acquisition and installation of RVR Integrated Systems, Nefobasimeter and Automatic Meteorological Station with visual presentations in MET and TWR.	FAA - CRA in coordination with Natl. MET Service.	2010	Waiting for the assignment of the corresponding financial resources.
MET 79 SAM	Notify the RVR for CAT 1 operations [(Annex 3, Part I, Chapter 4, Rec. 4.6.3.2]	Argentina / Aeronautical meteorological stations	The RVR of SAWE, SAVC, SARF have not been implemented.	AUG/ 2006	Plan the acquisition or repairment of the RVR.	A	Acquisition and installation of RVR Integrated Systems, Nefobasimeter and Automatic Meteorological Station with visual presentations in MET and TWR.	FAA - CRA in coordination with Natl. MET Service.	2011	Waiting for the assignment of the corresponding financial resources.

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
BOL Bolivia										
MET 30 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Chapter 2, Standard 2.1.5)	Bolivia / Aerodrome meteorological offices and meteorological watch office (MWO) of La Paz	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49. MET Technical personnel is complying functions of professional meteorologists.	OCT/ 2006	a) Carry out a review the funcions and training of the aeronautical meteorologists; and b) plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U	They have sent MET personnel to get trained in Argentina. These efforts will continue.	AASANA		a) Personnel licenses for aeronautical meteorology will be applied. b) Courses for meteorological forecasters are being scheduled.
MET 41 SAM	Notify the RVR for CAT 1 operations [(Annex 3, Chapter 4, para. 4.7.4 a)]	Bolivia / Aeronautical meteorological stations.	RVRs SLCB, SLVR and SLTR have not been implemented or are not operational.	OCT/ 2006	Plan the acquisition or repair of the RVRs.	A		AASANA	2010	
MET 87 SAM	Routine observations and reports (Annex 3, Chap. 8, Standard 4.3.2 a.)	Bolivia / all the aerodromes	Do note prepare MET REPORT.	OCT/ 2006	Standard implementation.	A		AASANA		
MET 88 SAM	Special observations and reports (Annex 3, Chap. 4, Standard 4.4.2 a.).	Bolivia / all the aerodromes	SPECIAL is not prepared.	OCT/ 2006	Standard implementation.	A		AASANA		
MET 89 SAM	Aeronautical Climatological information (Annex 3, Chap. 8, Standard 8.1.1)	Bolivia / all the aerodromes.	Aerodrome climatologial tables are not prepared.	OCT/ 2008	Standard implementation.	B		AASANA		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
COL Colombia										
MET 32 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Chapter 2, Standard 2.1.5)	Colombia / Aerodrome meteorological offices and meteorological watch office (MWO) of Bogotá	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49, MET Class IV personnel is carrying out functions of MET Class II personnel.	JUN/ 1996	a) Review the functions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U	In consultancy process, through TDA; through which alternatives for the solution to this problem are expected.	UAEAC		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
ECU Ecuador										
MET 33 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Part I, Chapter 2, standard 2.1.5)	Ecuador / Aerodrome meteorological offices and meteorological watch office (MWO) of Guayaquil	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49.	JUN/ 1996	a) Review the funcions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U	Training programmes at national and international level are being carried out to have the specialized aeronautical meteorology personnel required.	DGAC	2007	
MET 84 SAM	Observations and routine reports (annex 3, Part I, Chap. 4, Standard 4.3.2 a)	Ecuador, aerodrome meteorological Offices.	The standard has not been implemented.	MAY/ 2007	Update personnel and implement the standard.	A		DGCA		
MET 85 SAM	Observations and routine reports (annex 3, Part I, Chap. 4, Standard 4.4.2 a)	Ecuador, aerodrome meteorological Offices.	The standard has not been implemented.	MAY/ 2007	Update personnel and implement the standard.	A		DGCA		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
GUY Guyana										
MET 17 SAM	Exchange of OPMET information (FASID CAR/SAM para. 35 to 39)	Guyana / Aeronautical meteorological stations and meteorological watch offices (MWO) of Georgetown	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 2B.	NOV/ 2006	Follow-up CAR/SAM FASID Tables MET 2A and MET 2B.	A		Hidromet Service		
MET 28 SAM	SIGMET information (Annex 3, Chapter 7, Standard 7.1.1)	Guyana / Meteorological watch offices (MWO) of Georgetown	Not all SIGMET messages are prepared based on the procedures established by ICAO.	NOV/ 2006	a) Prepare SIGMET information based on Table A6-1 Template for SIGMET and AIRMET messages and special air-reports (uplink); and b) make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	U		Hydromet Service		
MET 34 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Part I, Chapter 2, standard 2.1.5)	Guyana / Aerodrome meteorological office and meteorological watch office (MWO) of Georgetown	The MET Authority does not have available the minimum quantily of personnel to provide MET service.	NOV/ 2006	a) Review the funcions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U		Hydromet Service		
MET 44 SAM	Report the RVR for CAT 1 operations [(Annex 3, Part I, Chapter 4, Recommendation 4.7.4 a)]	Guyana / Georgetown aeronautical meteorological station	RVRs SYCJ is not operational.	NOV/ 2006	Plan the repairment of the RVR	A		Hydromet Service		
MET 56 SAM	Surface wind, Annex 3, Standard 4.1.2.1)	Guyana COM Unit	Displays of surface wind in ATS units corresponds to wind sensor installed under the control tower	NOV/ 2006	Surface wind displays from surface wind from meteorological stations shall be installed in ATS units	U	Project proposal for new equipment includes Automated Weather System. This will fulfill this task when it becomes available. It is envisaged that once the project is approved, the deficiency will no longer exist.	Hydromet Service		
MET 61 SAM	Requirements for communications, Annex 3, Chap. 11, Standard 11.1.1	Guyana, COM uit		NOV/ 2006	Suitable communications facilities shall be made available to permit MET offices to supply the required MET information to ATS units.	A	Project proposal for new equipment includes Automated Weather System. This will fulfill this task when it becomes available. It is envisaged that once the project is approved, the deficiency will no longer exist.	Hydromet Service		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
MET 93 SAM	Routine observations and reports (Annex 3, Chap. 8, Standard 4.3.2 a.)	Guyana/Timehri Meteorological Office	MET Reports are not prepared.	DEC/ 2008	Implement the standard	A		Hydromet Service	JUL/ 2009	
MET 94 SAM	Special observations and reports (Annex 3, Chap. 4, Standard 4.4.2 a.).	Guyana/Timehri Meteorological Office	SPECIAL is not prepared	DEC/ 2008	Implement the standard.	A		Hydromet Service	JUL/ 2009	
MET 95 SAM	Aeronautical Climatological information (Annex 3, Chap. 8, Standard 8.1.1)	Guyana/Timehri Meteorological Office	Aerodrome climatological tables are not prepared.	DEC/ 2008	Implement the standard.	B		Hydromet Service	JUL/ 2009	

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
PAN Panama										
MET 35 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Chapter 2, Standard 2.1.5)	Panama / Aerodrome meteorological offices and meteorological watch offices (MWO) of Tocumen	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49.	NOV/ 2000	a) Review the funcions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U	They are making efforts to use the resources of some projects to be implemented. Plans for the formation and update to start in 2009 and end in 2011. Coordination with the universities is being carried out to correct this deficiency.	NCAA in coordination with Hydromet Nat. Service		
MET 81 SAM	Aeronautical meteorological stations and observations (Annex 3, Part I, Chap. 4, standard 4.1.1)	Panama, Changinoa, Bocas del Toro and David aerodromes.	There are no MET stations in the aerodromes of MPBO, MPCH and MPDA.		Acquire and install the stations.	U	The Aeronauticla Authority of has already planned the installation of sensors and meteorological equipment at the aerodromes of Bocas del Toro, Changuinola and David, in order to correct this deficiency as soon as possible.	AAC		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
PER Peru										
MET 46 SAM	Notify the RVR for CAT 1 operations (Annex 3, Chap 4, Rec 4.6.3.2)	Peru / Aeronautical meteorological stations	RVRs SPHI, SPSO and SPTN have not been implemented.	JUN/ 1996	Plan the acquisition or repairment of the RVRs.	A	Chiclayo in process of acquisition, Pisco and Tacna 2011.	CORPAC	2011	
MET 101 SAM	Aeronautical Climatological information (Annex 3, Chap. 8, Standard 8.1.1)	Aeronautical meteorological offices.	Aerodrome climatological tables are not prepared in Chiclayo, Pisco, Tacna and Trujillo.	SEP/ 2009	Implement the standard.	B		CORPAC		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
PRY Paraguay										
MET 36 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Chapter 2, Standard 2.1.5)	Paraguay / Aerodrome meteorological offices and meteorolgoical watch office (MWO)	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49. The actual personnel does not satisfy the minimum requirements for the preovision of MET service.	OCT/ 2006	Plan and carry out training and/or updating courses for aeronautical meteorological personnel, as necessary.	U	Short Term: Hire the personnel available graduated at the FP-UNA and 5 meteorological observers, graduated in Class IV Course carried out by INAC. Med. Term: Carry out an Aeronautical Meteorology Formation Course, in accordance with the requirements of WMO document No. 258. Long Term: Develop projects for the formation of Class I and Class II personnel with the assistance of Voluntary Technical Cooperation and senior level education institutes of the country.	DINAC	DEC/ 2007	There are legal restrictions, since currently it is not possible to increase the number of public officers hired.
MET 45 SAM	Notify the RVR for CAT 1 operations (Annex 3, Part I, Chapter 4, Recommendation 4.6.3.2)	Paraguay / aeronautical meteorological stations	RVRs SGAS is functioning but not in operation. The RVR SGES is not in operation.	OCT/ 2006	In SGAS, the equipment is installed but with communication problem. In SGES, the equipment is out of service and the purchase of a semi-automatic meteorological station is planned, including an RVR equipment.	A	In SGAS. Contract with ICAO is being reviewed for the acquisition of the RADIO-MODEM, to carry out the RVR connection and the ATS/MET units ATS/MET (CAP). A project is being developed, which is in the bidding process, for the acquisition of a semi-automatic meteorological station, including RVR for SGES, is foreseen.	DINAC	JAN/ 2009	
MET 90 SAM	Routine observations and reports (Annex 3, Chap. 8, Standard 4.3.2 a.)	Paraguay Ciudad del Este aerodrome	Do not prepare MET REPORT.	OCT/ 2006	Standard implementation.	A		DINAC	JUL/ 2009	
MET 91 SAM	Special observations and reports (Annex 3, Chap. 4, Standard 4.4.2 a.).	Paraguay/Ciudad del Este aerodrome.	SPECIAL is not prepared	OCT/ 2006	Standard implementation	A		DINAC	JUL/ 2009	
MET 92 SAM	Aeronautical Climatological information (Annex 3, Chap. 8, Standard 8.1.1)	Paraguay/Asunción and Ciudad del Este aerodromes	Aerodrome climatological tables are not prepared.	OCT/ 2008	Standard implementation.	B		DINAC	JUL/ 2009	

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
SUR Suriname										
MET 21 SAM	Exchange of OPMET information (CAR/SAM FASID para. 35 to 39)	Suriname / Aeronautical meteorological stations and meteorological watch office (MWO) of Paramaribo	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 2B.	JUN/ 1996	Follow-up CAR/SAM FASID Tables MET 2A and MET 2B.	A		Meteorological Service	DEC/ 2009	
MET 38 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Part I, Chapter 2, standard 2.1.5)	Suriname / Aerodrome meteorological offices and meteorological watch office (MWO) of Paramaribo	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49.	JUN/ 1996	a) Review the funcions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U		NCAA in coordination with MET Service	DEC/ 2009	
MET 47 SAM	Report the RVR for CAT 1 operations (Annex 3, Part I, Chapter 4, Recommendation 6.3.2)	Suriname / Aeronautical meteorological stations	SMJP RVR of Zandery has not been implemented.	JUN/ 1996	Plan the acquisition of RVR.	A		NCAA in coordinatin with MET Service	DEC/ 2009	
MET 58 SAM	SIGMET information (Annex 3, Chap 7, Standard 7.1.1)	Suriname/Meteorological Watch Office (MWO-Paramaribo)	SIGMETs have not been prepared	OCT/ 2004	a) Prepare SIGMET information based on Table A6-1 Template for SIGMET and AIRMET messages and special air-reports (uplink); and b) make use of the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	U		Meteorological Service	DEC/ 2009	
MET 59 SAM	Surface wind (Annex 3, Standard 4.1.2.1)	Suriname COM Dependency	Displays of surface wind in ATS units correspond to wind sensor installed at the top of the TWR	OCT/ 2004	Surface wind display in the surface of ATS dependencies must corresponds to the sensors of the MET station	U		NCAA in coordination with Meteorological Service	DEC/ 2009	
MET 64 SAM	Requirements for communications (Annex 3, Standard 11.1.1)	Suriname COM unit		OCT/ 2004	Suitable telecommunications facilities shall be made available to permit MET offices to supply the required MET information to ATS units.	A		NCAA in coordination with Meteorological Service	DEC/ 2009	
MET 96 SAM	Routine observations and reports (Annex 3, chap. 8, Standard 4.3.2 a.)	Suriname/SMNI, SMZO, SMJP Aerodromes.	MET Reports are not prepared.	DEC/ 2008	Implement the standard.	A		Meteorological Service	DEC/ 2009	

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
MET 97 SAM	Special observations and reports (Annex 3, Chap. 4, Standard 4.4.2 a).	Suriname/SMNI, SMZO, SMJP Aerodromes	SPECIAL reports are not prepared.	DEC/ 2008	Implement the standard.	A	CORRECTED	Meteorological Service	DEC/ 2009	
MET 98 SAM	Aeronautical Climatological information (Annex 3, chap. 8, Standard 8.1.1)	Suriname/SMNI, SMZO, SMJP Aerodromes.	Aerodrome climatological tables are not prepared.	DEC/ 2008	Implement the standard.	B		Meteorological Service	DEC/ 2009	

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
URY Uruguay										
MET 22 SAM	Exchange of OPMET information (FASID CAR/SAM para. 35 to 39)	Uruguay / Aeronautical meteorological stations and meteorological watch offices (MWO)	OPMET information is not being disseminated in accordance with the requirements of CAR/SAM FASID Tables MET 2A and MET 2B.	JUN/ 1996	Implement the COM/MET SIP Recommendations for the SAM Region.	A	Coordination between COM/MET.	COM/MET - WMO		
MET 39 SAM	Compliance with the requirements of the World Meteorological Organization (WMO) with regard to qualifications and training of aeronautical meteorology (MET) personnel (Annex 3, Chapter 2, Standard 2.1.5)	Uruguay / Meteorological Watch Offices (MWO) and aerodrome meteorological offcies.	Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49.	JUN/ 1996	a) Review the funcions and training of the aeronautical meteorologists; and b) Plan and carry out training and/or refreshment courses for aeronautical meteorological personnel requiring them.	U		DINACIA / DNM		
MET 80 SAM	Aerodrome meteorological stations and observations. (Annex 3, Chap 4, Standard 4.1)	Uruguay, SUCA and SURV.	There is not aerodrome meteorological station.	OCT/ 2006	Acquire and install the stations.	A		DINACIA/ DNM		

OUTSTANDING DEFICIENCIES

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE SAM REGION

IDENTIFICATION			DEFICIENCY				ACTION PLAN			
ID	Requirements	States/facilities	Description	Date first reported	Remarks	Priority	Description	Executing body	Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10	11
VEN Venezuela										
MET 67 SAM	FASID Table AOP 1 (CAR/SAM III-AOP 1-39)	Caracas and Margarita	RVR assessments have not been implemented.	JUN/ 1996		A	Acquisition programmed.	INAC in coordination with the SMN	DEC/ 2009	The RVR from Caracas and Margarita are in the installation phase.
MET 68 SAM	Exchange of OPMET information (CAR/SAM ANP Basic, paras. 35 to 39)	Caracas MWO and MET offices	MET offices do not have direct access to AFTN, except Maiquetia.	DEC/ 2004	Implement COM Recommendations of SIP COM/MET for CAR/SAM Regions	A	Project for the modernization of the communications	INAC in coordination with the SMN	DEC/ 2010	The meteorological watch office has direct acceses to the AFTN network. Regarding the other airports it is foreseen that direct access will be available in 2010.
MET 99 SAM	FASID AOP 1 Table (CAR/SAM III-AOP 1-39)	Barcelona and Maracaibo	RVR assessments have not been implemented.	JUN/ 1996		A	Acquisition programmed.	INAC in coordination with SMN	DEC/ 2010	
MET 100 SAM	Aeronautical Climatological information (Annex 3, Chap. 8, Standard 8.1.1)	Aeronautical meteorological offices.	Aerodrome climatological tables are not prepared.	AUG/ 2009	Implement the standard.	B		SERMETAVIA		

Agenda Item 10: Future Work Programme of the AERMET Subgroup

10.1 Under this agenda item, the Meeting recalled that coordination among GREPECAS contributory bodies is ruled by the Procedural Handbook of this Group, taking into account the terms of reference and the specific task of each body. During the meetings of the GREPECAS Administration Coordination Group (ACG), since its establishment, the GREPECAS Procedural Handbook has been thoroughly revised, taking into consideration the mechanisms of its structure. In this regard, the Meeting took note of the Fifth Edition of the GREPECAS Procedural Handbook, as amended by the ACG/7 Meeting, Lima, Peru, 3 - 4 March 2008, and GREPECAS/15, Rio de Janeiro, Brazil, 13 to 17 October 2008.

10.2 In addition, the Subgroup recalled that the terms of reference of the ACG include, among others, to coordinate and harmonize administrative matters of GREPECAS and its contributory bodies, as well as to make follow-up and monitoring of target dates assigned to tasks.

10.3 The Meeting also recalled that ICAO has established Strategic Objectives in each area of competency with a Business Plan for their implementation. In this context, it has also favoured the functional integration of the Regional Offices with Headquarters. Consequently, all the activities developed by the Regional Offices must be identified with the strategic objectives of the organization.

10.4 The Meeting took note of the tasks being advanced by the ICAO meteorology area according with the strategic objectives, which are listed below:

a) **Safety (A):**

- International airways volcanic watch
- Tropical cyclone warning system
- Quality management system (QMS)
- Uplink and downlink of MET information

- Turbulence reporting and warnings
    - SIGMET
    - wind shear

b) **Efficiency (D):**

- World Area Forecast System (WAFS)
- Satellite distribution system for the information relating to air navigation
- Observing and forecasting of MET conditions at aerodromes and terminal area
- Migration of OPMET messages to digital codes
- MET Information to support ATM

10.5 Additionally, **Appendix A** presents Global Plan Initiatives of meteorological systems (GPI-19) with its related operational concept components:

- **AOM**: Airspace organization management
- **DCB**: Demand and capacity balancing
- **AO**: Aerodrome operations de aeródromo
- **AUO**: Airspace user operations

Review of the AERMET subgroup work programme approved by GREPECAS/14, including priorities and target dates of the tasks inherent to the Subgroup

10.6 The Meeting updated the terms of reference and work programme of the subgroup and formulated one (1) Draft Decision and four (5) Decisions, as follows:

DRAFT
DECISION 10/15 AERMET SUBGROUP NEW WORK PROGRAMME

That the AERMET Subgroup new work programme is adopted as indicated in **Appendix B** to this part of the report.

DECISION 10/16 DISBANDING OF TASK FORCE ON THE VOLCANIC ASH

That, due to the fact that most of the tasks of this Task Force have been finalized:

a) express the gratitude to the group Rapporteur and its members for the work carried out and their contribution to the Subgroup;

b) the preparation of the protocol and analysis of SIGMET tests results be carried out by the AERMET Subgroup; and

c) the Task Force on Volcanic Ash be disbanded.

DECISION 10/17 ESTABLISHMENT OF THE WAFS TASK FORCE

That the WAFS Task Force be established with the terms of reference, work programme and composition presented in **Appendix C** to this part of the report.

DECISION 10/18 ESTABLISHMENT OF THE COM/MET TASK FORCE

That the COM/MET Task Force be established with the terms of reference, work programme and composition presented in **Appendix D** to this part of the report.

DECISION 10/19 **NEW TERMS OF REFERENCE AND WORK PROGRAMME OF THE MET/ATM/OP TASK FORCE ON MET IN THE ATM CONCEPT**

That the MET/ATM/OP Task Force on MET in the ATM concept terms of reference, work programme and composition be updated as indicated under **Appendix E** to this part of the report.

DECISION 10/20 **NEW TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE QMS TASK FORCE**

That the QMS Task Force terms of reference, work programme and composition be updated as indicated under **Appendix F** to this part of the report.

Date and venue for the next Meeting of the AERMET Subgroup

10.7 The Subgroup took note that ICAO Council, on 18 March 2008, ICAO Council considered a report submitted by the Air Navigation Commission on this subject and adopted, among other decisions, that ICAO contracting States that are service providers in an air navigation region and part of that region's ANP, should be included in the membership of that region's PIRG. Also, international organizations recognized by the Council may be invited to attend as observers to the PIRG meetings.

10.8 The Meeting recalled that GREPECAS establishes the date of the next subgroup's meeting, however, in order to coordinate its members' participation, the subgroup could propose the last week of October, the first week of November 2010 or May 2011, in case it could be able to take place before a meeting of the Hurricane Committee in the Caribbean.

10.9 In addition, the Meeting recalled that in accordance with GREPECAS procedures, GREPECAS and its Contributory Bodies meetings should take place in both regions, by turns. In this regard, the next meting of the Subgroup should be carried out in a CAR Region State, thus, if there is any State that could offer to host the AERMETSG/11 Meeting, could submit a written proposal to GREPECAS Secretary at the earliest convenience.

(GPI-19) METEOROLOGICAL SYSTEMS

Objective: To improve the availability of meteorological information in support of a seamless global ATM system.

Related Operational Concept Components: AOM, DCB, AO, AUO

Description of strategy

1.85 Immediate access to real-time, global operational meteorological (OPMET) information is required to assist ATM in tactical decision-making for aircraft surveillance, air traffic flow management and flexible/dynamic aircraft routing which will contribute to the optimization of the use of airspace. Such stringent requirements will imply that most meteorological systems should be automated and that meteorological service for international air navigation be provided in an integrated and comprehensive manner through global systems such as the world area forecast system (WAFS), the international airways volcano watch (IAVW) and the ICAO tropical cyclone warning system.

1.86 Enhancements to WAFS, IAVW and the ICAO tropical cyclone warning system to improve the accuracy, timeliness and usefulness of the forecasts issued will be required to facilitate the optimization of the use of airspace.

1.87 Increasing use of data-link to downlink and uplink meteorological information (through such systems as D-ATIS and D-VOLMET) will assist in the automatic sequencing of aircraft on approach and will contribute to the maximization of capacity. The development of automated ground-based meteorological systems in support of operations in the terminal area will provide OPMET information (such as automated low-level wind shear alerts) and automated runway wake vortex reports. OPMET information from the automated systems will also assist in the timely provision of forecasts and warnings of hazardous weather phenomena. These forecasts and warnings, together with automated OPMET information, will contribute to maximizing runway capacity.

AERONAUTICAL METEOROLOGY SUBGROUP (AERMETSG)

1. **Terms of reference**

a) Ensure seamless and consistent development of the CAR/SAM Regional Air Navigation Plan and the CAR/SAM Regional Plan for ATM System in the MET area;

b) Review in a continuous basis the list of MET deficiencies, identify new deficiencies that prevent the implementation or provision of MET service in the CAR/SAM Regions and propose actions for their correction;

c) Monitor the research and development of the ATM system, the tests and demonstrations in the ATM/MET field and facilitate the transference of these information and experience among the CAR/SAM States and recommend specific actions aimed at the implementation of MET services to satisfy ATM requirements.

d) Monitor the implementation of WAFS, IAVW and tropical cyclones warning system.

e) Monitor the implementation of a Quality Management System.

2. **Work Programme**

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
D Efficiency	MET/1	Review the results of WAFSOPSG/5 and WAFSOPSG/6 Meetings and identify the necessary follow up actions on a regional basis.	Prepare and circulate the proposal for amendment to ANP CAR/SAM	Secretariat (RO, Lima)	Valid	Improvements in WAFS implementation and update ANP CAR/SAM, Part VI – MET concerning WAFS	May 2010
DC*[1] 10/01, 10/02 and 10/03 D - Efficiency	MET/2	Coordinate and develop the strategies for the cessation of ISCS G2 and the migration to WIFS, and develop a WIFS users guide.	Follow up table to each task of the TF.	Secretariat (RO, Mexico) TF Rapporteur and States	Valid	Efficiency in the reception of WAFS products	October 2012
A- Safety	MET/3	Review the results of IAVWOPSG/4 and IAVWOPSG/5 Meetings and identify the necessary follow up actions on a regional basis.	Prepare and circulate the proposal for amendment to ANP CAR/SAM	Secretariat (RO, Lima)	Valid	Improvements in IAVW implementation and update ANP CAR/SAM, Part VI – MET concerning IAVW	October 2010
DC*[1] 10/04 A - Safety	MET/4	Develop and periodically update regional guidance in Spanish, on the contents of Doc 9766, *Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List*.	Prepare the Guide	Secretariat (RO, Lima)	Valid	Improvements in IAVW implementation and update ANP CAR/SAM, Part VI – MET concerning IAVW	October 2010

*[1] Draft Conclusions of the AERMETSG/10 Meeting.

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
A - Safety	MET/5	Periodically update the Guide for the preparation, dissemination and use of SIGMET messages in the CAR/SAM Regions.	Update the Guide based on amendment 75 to Annex 3 and amendments to ANP CAR/SAM	Secretariat (RO, Lima)	Valid	Improvements in the implementation of SIGMET information	October 2010
DC*[1]10/05 D - Efficiency	MET/6	Develop and periodically update the Guide for the issuance and use of OPMET information in the CAR/SAM Regions. Monitor SIGMET.	Update the Guide based on amendment 75 to Annex 3 and amendments to ANP CAR/SAM	Secretariat (RO, Lima)	Valid	Improvements in the implementation of the preparation and exchange of OPMET information.	October 2010
D Efficiency	MET/7	Foster and follow up the implementation of the requirements for OPMET exchange, carry out controls at the States and International OPMET data bank level and assess the need to continue with the referred controls, as well as the joint analysis with CNS Experts to correct the identified deficiencies.	Follow up table for each task of the TF.	Secretariat (RO, Lima) TF Rapporteur and States	Valid	Efficiency in OPMET exchange	October 2010
DC*[1]10/11 A- Safety D - Efficiency	MET/8	Develop regional guidance on the procedures and instructions for MET service aligned to Standard ISO 9000 2008 and with Doc 9873, *Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation*.	Follow up table for each task of the TF.	Secretariat (RO, Lima) TF Rapporteur and States	Valid	Improvement in the provision of MET service	October 2010

3. **Composition**

Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, France, Panama, Paraguay, Peru, Spain, United States, Uruguay, Venezuela, COCESNA, IATA, IFALPA and WMO.

4. **Chairmanship**

Chairman: Carlos Roberto Salinas Rojas (Paraguay)
Vice-Chairman: Steven R. Albersheim (United States)

EXPLANATION OF THE TABLE OF THE AERMETSG WORK PROGRAMME

Number / Column Title	Contents Description
1 / No.	Indicates the relation of the task with ICAO strategic objective/objectives and/or GREPECAS valid conclusions or decisions
2/ Task number	Indicates the number of the task assigned by the Subgroup or Committee of GREPECAS.
3/ Task	Description of the Task to be carried out
4/ Follow-up Action	Indicates the mechanism for follow up of the tasks execution (ICAO Regional Offices Activities, Coordination Meeting, Meetings of the Subgroup Task Forces or informal meetings, etc.)
5/ To be initiated by	Indicates Responsible person or group for the execution of the task
6/ Status	Indicates the advance status of task implementation
7/ Deliverable	Indicates the expected product
8/ Deadline	Indicates the deadline for the delivery of the product describes in column 5

TASK FORCE ON WAFS

1. **Terms of Reference**

   a) To provide oversight on the transition by State's from the satellite broadcast provided by the International Satellite Communication System to the WIFS to access WAFS products and OPMET data

2. **Work Programme**

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
D Efficiency & GPI 19	1	Validate current ISCS POC as defined in AERMETSG/9 Report to confirm as WIFS POC	E-mail and teleconference	Chile (SAM) y Costa Rica (CAR)	In progress	Updated ISCS POC list	DEC 2009
D Efficiency & GPI 19	2	Check list to be developed by Washington WAFC for verification of WAFC Station capabilities	E-mail and teleconference	WAFC Provider State	In progress	Check list	DEC 2009
D Efficiency & GPI 19	3	Request States to confirm operation of WAFC Workstation capabilities.	E-mail and teleconference	Chile (SAM) y Costa Rica (CAR)	In progress	Report for the Rapporteur of the of the Task Force	FEB 2010
D Efficiency & GPI 19	4	WAFS Washington Provider State to initiate testing of WIFS with selected vendors	E-mail and teleconference	WAFC Provider State	In progress	Documents on the Test plan and procedures manual	FEB 2010
D Efficiency & GPI 19	5	WAFS Provider State to coordinate with vendors to determine willingness to support testing with selected States not to exceed three.	E-mail and teleconference	WAFC Provider State	In progress	List of vendors and potential Statess	FEB 2010

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
D Efficiency & GPI 19	6	States to identify who will participate in testing.	E-mail and teleconference	Ad-hoc group	In progress	List of States that will participate in the tests	FEB 2010
D Efficiency & GPI 19	7	Provide Interface Control Document guidance to vendors and States in English on software modification for accessing WIFS.	E-mail and teleconference	WAFC Provider State	In progress	Interface control Guide	FEB 2010
D Efficiency & GPI 19	8	Categorize State's capabilities to transition from easy to hard and provide cost estimate for new WIFS access software for workstation.	E-mail and teleconference	Oficinas Regional CAR y SAM	In progress	WIFS survey to be delivered to the Rapporteur of the Task Force	MAR 2010
D Efficiency & GPI 19	9	WIFS Operational with list of authorized Users identified for Washington WAFC.	E-mail and teleconference	CAR/SAM Regional Offices	In progress	List of authorized WIFS users	MAR 2010
D Efficiency & GPI 19	10	State's transition to WIFS.	E-mail and teleconference	CAR/SAM Regional Offices	In progress	Implementation report	JUN 2012
D Efficiency & GPI 19	11	Cessation of ISCS G2.	E-mail and teleconference	WIFS provider State	In progress	Notification of cessation of the WAFS ISCS-G2 broadcast	JUN 2012

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
D Efficiency & GPI 19	12	Report back to AERMETSG/11 and 12 on State's capability to transition including proposed date by State to transition with interim reports every six months to ICAO Regional Offices in Mexico and Lima.	E-mail and teleconference	WIFS Provider State	In progress	Final report on the implementation of the WIFS in the CAR/SAM Regions	OCT 2012

3. Composition

Argentina:	Rodolfo Hugo Cerutti
Brasil:	Paulo Roberto Bastos de Carvalho
Chile:	Reinaldo Gutiérrez Cisterna
Costa Rica:	Guillermo Vega
Cuba:	Juan Ayón
Estados Unidos:	Steven Albersheim (***Rapporteur***)
Panamá:	Celestino Lamboglia
Perú:	Baldomero Celis

COM/MET TASK FORCE

1. **Terms of Reference**

To coordinate by electronic mail all activities included in the work programme, with a view to present a report containing the results to the Eleventh Meeting to the AERMET Subgroup

2. **Work Programme**

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
A – Safety & GPI 19	1	Prepare a questionnaire addressed to CAR/SAM Region, enabling to diagnose the main problems existing in the interchange of OPMET information.	AERMETSG Secretary, Rapporteur	Daniel Martins Neiva Filho, Juan Ayón, Xenia Gabriela Guardia.	To be initiated	Survey to the States	31 JAN 2010
A – Safety & GPI 19	2	Submit the elaborated questionnaire to the Secretary of the AERMET Subgroup in order to distribute same under States of CAR/SAM Regions in coordination with the Secretary of the CNS/ATM Subgroup.	ICAO SAM and NACC Regional Offices	Rapporteur	To be initiated	Survey to the States	10 MAR 2010
A – Safety & GPI 19	3	Evaluate the responses to the questionnaire received from the States of the CAR/SAM Region within the term established by the mentioned Subgroups Secretaries.	AERMETSG Secretary, Rapporteur	Rodolfo Cerutti, Walter Ríos Aliaga, Oscar Bermúdez, Juan Ayón	To be initiated	Summary of responses	31 JUL 2010

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
A – Safety & GPI 19	4	Evaluate the results of the CNS/MET OPMET data controls carried out from 10 to 16 June 2010.	AERMETSG Secretary, Rapporteur	Rodolfo Cerutti, Walter Ríos Aliaga, Daniel Martins Neiva Filho, Oscar Bermúdez, Juan Ayón Alfonso, Xenia Gabriela Guardia	To be initiated	Summary document	31 JUL 2010
A – Safety & GPI 19	5	Based on the results obtained from the application of the questionnaire and the OPMET controls, elaborate a draft report containing proposals of actions to be analyzed by the members of the Task Force.	AERMETSG Secretary, Rapporteur	Rodolfo Cerutti, Walter Ríos Aliaga, Daniel Martins Neiva Filho, Oscar Bermúdez, Juan Ayón Alfonso, Xenia Gabriela Guardia	To be initiated	Draft Final Report	30 OCT 2010
A – Safety & GPI 19	6	Elaborate a final report to be presented by the Rapporteur to the Eleventh Meeting of the AERMET Subgroup.	AERMETSG Secretary, Rapporteur	Rapporteur	To be initiated	Final Report	31 JAN 2010

3. Composition

Argentina: Rodolfo Cerutti
Bolivia: Walter Ríos Aliaga
Brazil: Daniel Martins Neiva Filho
Colombia: Oscar Bermúdez
Cuba: Juan Ayón Alfonso (***Rapporteur***)
Panama: Xenia Gabriela Guardia

MET/ATM/OP TASK FORCE ON MET IN THE CNS/ATM CONCEPT

1. **Terms of reference**

Implementation of MET services in support of ATFM.

2. **Work Programme:**

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
		MET Requirements in the CNS/ATM concept					
A – Safety D - Efficiency & GPI 19	1	Development of the MET part of the performance based regional plan, in accordance with the Global Air Navigation Plan and the Global ATM Operational Concept.	Task Force	Task Force	Valid	Regional MET planning in concurrence with global planning.	SEP 2010
D - Efficiency & GPI 19	2	Identify member of the ATFM TF to work with MET.	E-mail to Rapporteur of ATFM TF	Secretariat	Valid	Representative nomination	DEC 2010
A – Safety D – Efficiency & GPI 19	3	Monitor the research and development of MET concept in CNS/ATM field and facilitate the transference of this information and experience among CAR/SAM States.	Document Review	Steve Albersheim	Valid	Report to AERMETSG/11	OCT 2010

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
D - Efficiency & GPI 19	4	Review draft Manual of Globl ATFM	Document Review	Steve Albersheim and ATFM Member	Valid	List of MET requirements to support ATM	JUN 2010
D - Efficiency & GPI 19	5	Report to AERMETSG/11 on Manual		Steve Albersheim	Valid	WP at AERMETSG/11	OCT 2010
D - Efficiency & GPI 19	6	Draft input for ANP that addresses MET and ATM		Steve Albersheim and ATFM Member	Valid	WP at AERMETSB/12	OCT 2010

3. **Composition**

Bolivia: Aníbal Castro Cárdenas
Brasil: Artur Goncalves Ferreira (MET)
Chile: Reinaldo Gutiérrez
Cuba: Juan Ayón
Estados Unidos: Steven Albersheim ***(Rapporteur)***
Panama: Celestino Lamboglia
Peru: Baldomero Celis
IFALPA: Christian Cardoso

MET QUALITY MANAGEMENT TASK FORCE

1. **Terms of Reference**

Implementation of the MET Quality System

2. **Work Programme**

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
A – Safety & GPI 19	1	Circulate the Draft Guide	Secretariat and Rapporteur	Ricardo Reyes	To be initiated	The first Draft Guide	30 NOV 2009
A – Safety & GPI 19	2	Submit comments of MET Operational Procedures of the Draft Guide	Secretariat and Rapporteur	Steve Albersheim, Xenia Guardia, Walter Rios, Juan Ayon, Olver Boolsen, Jose Lovera, Raul Garcia, Reinaldo Gutierrez y Guillermo Vega	To be initiated	Drafts with comments	31DEC 2010
A – Safety & GPI 19	3	Present a final Draft to the Task Force.	Secretariat and Rapporteur	Ricardo Reyes	To be initiated	The second Draft Guide	30 JAN 2010
A – Safety & GPI 19	4	Submit comments on the final Draft Guide	Secretariat and Rapporteur	Steve Albersheim, Xenia Guardia, Walter Rios, Juan Ayon, Olver Boolsen, Jose Lovera, Raul Garcia, Reinaldo Gutierrez y Guillermo Vega	To be initiated	The second Draft Guide with comments	20 FEB 2010

Valid GREPECAS Conclusions/ Decisions/ Strategic Objective	Task Number	Task	Follow-up Action	To be initiated by	Status	Deliverable	Deadline
1	2	3	4	5	6	7	8
A – Safety & GPI 19	5	Present the final version of the Guide to the Secretary of the AERMET Subgroup, for its submission to GREPECAS.	Secretariat and Rapporteur	Ricardo Reyes	To be initiated	Final Draft Guide	20 MAR 2010

3. **Composition**

Argentina:	Olver Federico Boolsen
Bolivia:	Walter Ríos Aliaga
Costa Rica:	Guillermo Vega Gowrzong
Cuba:	Juan Ayón Alfonso
Chile:	Reinaldo Gutiérrez
Panama:	Xenia Gabriela Guardia
Peru:	Ricardo Reyes T. ***(Rapporteur)***
United States:	Steve Albersheim
Uruguay:	Raúl García
Venezuela:	José Lovera Lago

Agenda Item 11: Any other business

Status of implementation of Amendment 74 to Annex 3

11.1 The Meeting was aware of the urgency that States that have not yet done so, make all efforts to implement the new TAF format with applicability date 5 November 2008, in accordance with Amendment 74 to Annex 3.

11.2 Regarding proposal for Amendment 75 to Annex 3 which date foreseen for application is 18 November 2010, the Meeting agreed the urgency that States take the pertinent and timely actions for its implementation, adopting following draft conclusion:

DRAFT
CONCLUSION 10/21 UPDATED COURSE ON AMENDMENT 75 TO ANNEX 3 FOR MET AND ATS PERSONNEL

That the States plan an update course on Amendment 75 to Annex 3 for MET and ATS personnel, once they receive from ICAO the approval of the referred amendment.