



AERMETSG/10
FINAL REPORT

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

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.

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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 WAWS 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 Item 7: 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:

| | |
|---------------------------|---|
| <i>Draft Conclusions:</i> | <i>Conclusions that require approval by GREPECAS prior to their implementation.</i> |
| <i>Draft Decisions:</i> | <i>Decisions that require approval and adoption by GREPECAS prior to their implementation</i> |
| <i>Decisions:</i> | <i>Decisions that deal with matters of concern to the Contributory Body.</i> |

ii.9

List of Draft Conclusions and Decisions

| NUMBER | TITLE | PAG. |
|--------|--|------|
| 10/1 | MIGRATION FROM ISCS-G2 TO WIFS | 2-3 |
| 10/2 | TRANSITION OF ISCS-G2 AND IMPLEMENTATION OF THE WAFS FILE SERVER | 2-3 |
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| 10/21 | UPDATED COURSE ON AMENDMENT 75 TO ANNEX 3 FOR MET AND ATS PERSONNEL | 11-1 |

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 | 04/09/09 | United States |
| WP/18 | 7 | Summary of recent and forthcoming developments to the WAFS 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 Implementation of the International Airways Volcano Watch (IAVV) | 07/09/09 | Secretariat |
| IP/03 | 3 | a) review the outcome of IAVWOPSG/4 Meeting Follow-up to IAVWOPSG/4 Conclusions | | 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 <i>(English only)</i> | 12/08/09 | United States |
| IP/06 | 5 | Exchange of OPMET Information TAF verification in the United States <i>(English only)</i> | 12/08/09 | United States |
| IP/07 | 5 | Exchange of OPMET Information Using the internet to disseminate OPMET data <i>(English only)</i> | 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 <i>(English only)</i> | 12/08/09 | United States |
| IP/09 | 2 | Implementation of the World Area Forecast System (WAWS) a) Review of the outcome of WAWSOPSG/4 Meeting Follow-up to WAWSOPSG/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 <i>(Spanish only)</i> | 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) <i>(Spanish only)</i> | 12/10/09 | Secretariat |

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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/States¹ International Organizations |
|--|--|--|--|--|
| Draft Conc. 9/2 | Conc. 15/4 | <p>D-VOLMET aeronautical data link requirements in the CAR/SAM Regions</p> <p>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.</p> | N/A | Valid |
| Draft Conc. 9/3 | Conc. 15/5 | <p>Training for CAR/SAM States on the details and use of new WAFS icing, turbulence and convective cloud forecasts derived from GRIB 2 data</p> <p>That the Washington WAFC, in coordination with WMO, be invited to:</p> <ul style="list-style-type: none"> a) starting in 2010 or 2011, provide computer-based training on the applications and use of the new forecasts issued by the WAFC 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 WAFC products in English and Spanish. | <p>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.</p> | 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 | <p>Update on the progress made in ISCS broadcast improvements by the Washington WAFC Provider State</p> <p>That the Washington WAFC provider State be invited to provide timely reports on planned changes to upgrade ISCS-G3 broadcast, taking into account:</p> <ul style="list-style-type: none"> 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. <p><i>Note: To keep States informed, the Washington WAFC provider State will use the ISCS list of contacts, which is kept updated by the Secretariat.</i></p> | N/A | <p>Valid</p> <p>Draft Letter to Mexico to be forwarded to United States, LT 2/8.0.15/SA184 of 2 April 2008.</p> <p>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.</p> |
| Draft Conc. 9/5 | Conc. 15/7 | <p>Data management reports</p> <p>That the WAFS provider State continue providing reports on data management over their circuits, the scheduled transition date, and the scope of product changes.</p> <p><i>Note: A DM example is provided in Appendix A.</i></p> | N/A | Implemented |
| Draft Conc.9/6 | Conc. 15/8 | <p>Update to WAFC workstations to introduce changes to OPMET data</p> <p>That:</p> <ul style="list-style-type: none"> 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 | <p>a) Implemented</p> <p>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.</p> <p>b) Implemented</p> <p>Letters to States: LT 2/8.0.15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p> |

| 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 |
|-------------------------------|--|---|---------------|---|
| | | <p>c) States review the existing maintenance service contract for their ISCS workstations, which should provide the necessary support to update the database management programme.</p> <p><i>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.</i></p> | | <p>c) Valid</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12/05/09 N 1/15 – EMX0487 of 14/05/09</p> |
| Draft Conc. 9/7 | Conc. 15/9 | <p>Implementation plan for the transition from GRIB 1 TO GRIB 2 CODE FORM</p> <p>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.</p> | N/A | <p>Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p> |
| Draft Conc. 9/8 | Conc. 15/10 | <p>Letters of agreement between civil aviation and meteorological authorities and the vulcanological agency</p> <p>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:</p> <p>a) States make full use of Doc 9766-AN/968, <i>Handbook on the International Airways Volcano Watch (IAVW) - Operational Procedures and Contact List</i>; and</p> <p>b) establish letters of agreement between the parties involved; in particular, the civil aviation and meteorological authorities and the vulcanological agency, specifying the agreed responsibilities of each party.</p> <p><i>Note: A sample letter of agreement is presented in Appendix A to Doc 9766-AN/968.</i></p> | N/A | <p>a) Implemented</p> <p>b) Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p> |

AERMETSG/10
Appendix A to the Report on Agenda Item 1

1A - 4

| 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 | <p>Implementation of the Volcano Observatory Notice for Aviation (VONA) format</p> <p>That ICAO urges the States to implement the VONA format in order to:</p> <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> a) Implemented b) Implemented |
| Draft Conc. 9/11 | Conc. 15/12 | <p>Back-up MWOs in the CAR/SAM States</p> <p>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 <i>CAR/SAM Regional SIGMET Guide</i>.</p> | N/A | <p>Implemented</p> <p>WP/05 presents a proposed list of back-up MWO to be included in CAR/SAM SIGMET Guide.</p> |
| Draft Conc. 9/9 | Conc. 15/13 | <p>Increased frequency of periodic SIGMET WV tests</p> <p>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.</p> | N/A | <p>Implemented</p> <p>Letters to States: LT 2/8.0/15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p> |

AERMETSG/10
Appendix A to the Report on Agenda Item 1

1A - 5

| 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 | <p>Seminar/workshop on SIGMET information</p> <p>That ICAO, in coordination with WMO and VAAC provider States, organize a seminar on the preparation, issuance, and dissemination of SIGMET information.</p> | <p>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.</p> | <p>Valid</p> <p>ICAO Secretary General sent on 13 July 2009 the letters:</p> <p>Ref.: AN 10/16.1 SWG 16/1 SWG 16/1 to WMO Secretary General.</p> <p>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.</p> |
| Draft Conc. 9/13 | Párrafo 3.3.15 del Informe | N/A | N/A | N/A |
| Draft Conc. 9/14 | Conc. 15/15 | <p>Transition to the new TAF format</p> <p>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.</p> | N/A | <p>Implemented</p> <p>Letters to States:</p> <p>LT 2/8.0./15 – SA310 of 12 May 2009</p> <p>N 1/15 – EMX0487 of 14 May 2009</p> |

| 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 | <p>Harmonization of the information contained in CAR/SAM FASID Table AOP 1 and in Doc 7910</p> <p>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:</p> <ul style="list-style-type: none"> 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 | <p>Proposal for amendment to the CAR/SAM ANP FASID, Part VI – MET</p> <p>That the ICAO NACC and SAM Regional Offices amend Part VI – MET of the CAR/SAM <i>Facilities and Services Implementation Document</i> (FASID) as indicated in Appendix C to this part of the report.</p> | N/A | <p>Implemented</p> <p>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.</p> <p>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.</p> |

| 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 | <p>Development of Performance Based regional and national plans</p> <p>That,</p> <p>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</p> <p>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.</p> | 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 | <p>Identification and application of mechanisms for the translation of MET training material and guides</p> <p>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.</p> | N/A | Implemented |

STATUS OF IMPLEMENTATION OF GREPECAS/15 CONCLUSIONS BY THE STATES

AERMETSG/10

Attachment to Appendix A to the Report on Agenda Item 1

A1A - 2

| 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 | NA | 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 | | | | NA | | N/A | No | Completed |
| Uruguay | N/A | N/A | N/A | N/A | | | | NA | | N/A | No | Completed |
| Venezuela | N/A | N/A | N/A | N/A | Completed | Valid | Completed | NA | | 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 | <p>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.</p> | Valid |
| Conc. 12/67 | <p>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.</p> | Valid |
| Conc. 13/16 | <p>Cost recovery of MET services in the CAR/SAM Regions That the States/Territories/International Organizations, in coordination with the aeronautical meteorological authorities:</p> <ul style="list-style-type: none"> 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 WAWS products, especially charges for the replacement or improvement of workstations and the WAWS software required for receiving these products in GRIB and BUFR codes, and maintenance of the ISCS1 (VSAT) workstation. | Superseded |
| Dec. 13/23 | <p>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.</p> | Superseded |
| Dec. 13/28 | <p>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.</p> | 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 SUMMARY¹

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 WAWS

3.1 Under this agenda item, the group reviewed the regional procedures related to world area forecast system (WAWS) 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 WAWS

4.1 The group took note of the WAWS 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).

¹The 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 WAWS significant weather (SIGWX) (Conclusion 5/4).

4.4 With regard to the harmonisation of the information on tropical cyclones (TC) in the WAWS 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 WAWS 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 WAWS forecasts on the ISCS and SADIS satellite broadcasts. With regard to the GRIB 2 WAWS 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 WAWS 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 WAWS 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 WAWSOPSG 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 WAWS 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 WAWS

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 WAWS 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 WAWS 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 WAFC 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 WAFC 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 WAFC 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 WAFC 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 WAFC forecasts 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 WAFC 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 WAFC IMPLEMENTATION

6.1 The group reviewed the WAFC 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 WAWS 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 2009, 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 INTERNATIONAL 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 it 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 |

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| 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. | TPPP |
| TRINIDAD AND TOBAGO | | UNITED STATES | |
| PORT OF SPAIN/Piarco Intl, Trinidad I. | TPPP | 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 / sovaaccue@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 Argentino (SEGEMAR) | 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 | acccb@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 | SBBSEMYX | (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 | jnarango@sernageomin.cl jósénarango@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 |

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| 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 |
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| 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 | | | | | | |
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| MWO | Montevideo | SUMU | SUMUYMYX | (5982) 2001 807 | (5982) 6040 242 | dmae@adinet.com.uy |
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| 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 | | | | | | |
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| | Pasto | N/A | N/A | (5727) 310 514 (5727) 312 595 | (5727) 310 514 | ovt@ingeominas.gov.co |

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| | Popayan | N/A | N/A | (5728) 242 341 (5728) 242 057 (5728) 240 210 | (5728) 241 255 | |
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| ACC | Barranquilla | SKBQ | SKBQZQZX | (575) 3348 075 (575) 3348 503 | (575) 3348 503 | Maritza.lopez@aerocivil.gov.co |
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| ACC | Bogotá | SKBO | SKBOZQZX | (571) 4139 998 (571) 2663 460 (571) 4135 445 | (571) 4135 376 | jramirez@aerocivil.gov.co |
| MWO | Bogotá | SKBO | SKBOYMYX | (571) 4138 792 (571) 2662 481 | (571) 4138 440 | fhalgo@ideam.gov.co |
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| 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 |
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| MWO | OVM | MDSD | MDSODYMYX | 8095491291 | 8095490256 | avionaila@yahoo.com |
| NOF | Ofic. NOTAM Intl. | MCSC | MDSODYNYX | 8095490095 | 8095490095 | ais@idac.gov.do |
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| FIR ROCHAMBEAU | | | | | | |
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| STATE | Name | ICAO Loc. Indicator | AFTN | Telephone (24 hours) | Fax (24 hours) | E-mail |
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| 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 | | | |
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| 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 |

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Appendix C to the Report on Agenda Item 4

| STATE | Name | ICAO Loc. Indicator | AFTN | Telephone (24 hours) | Fax (24 hours) | E-mail |
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| 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 | MMMXYYNYX | (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 | | | | | | |
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| 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 |
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| STATE | Name | ICAO Loc. Indicator | AFTN | Telephone (24 hours) | Fax (24 hours) | E-mail |
|---|-----------------|---------------------|----------------------|--|------------------|---|
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| 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 | TPPP | TPPPYMYX | (1 868) 669 4392 | (1 868) 6694 727 | |
| NOF | Port of Spain | TPPP | TPPPYNYX | (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

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The designations employed and the presentation of 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 delimitations of its frontiers or boundaries

RECORD OF AMENDMENTS AND CORRIGENDA

| Amendment | | | | Corrigenda | | | |
|-----------|--------|------------|------|------------|-----------------|------------|------|
| No. | Detail | Entered by | Date | No. | Date applicable | Entered by | Date |
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GUIDE FOR THE ISSUANCE AND USE OF OPMET INFORMATION IN THE CAR/SAM REGIONS

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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:

T₁T₂A₁A₂ii CCCC YYGGgg [AAx]/[CCx]/[RRx]

3.2.5 The group **T₁T₂A₁A₂ii** is the identifier of the bulletin for OPMET Information, constructed as follows:

| T₁T₂A₁A₂ii | | | |
|---|--------------------------------|---|---|
| T₁T₂ | Message type designator | SA | METAR including trend forecasts based on Table MET 1A (issued by the AMS) |
| A₁A₂ | | SP | SPECI including trend forecast based on Table MET 1A (issued by the AMS) |
| ii | | 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) |
| A₁A₂ | | | 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 | <ul style="list-style-type: none"> - 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 290° 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), 20°C at 19 UTC of day 27 |
| TN17/2811Z | Minimum temperature forecast of the period considered (validity), 17°C at 11 UTC of day 28 |
| BECMG | Becoming |
| 2723/2801 | Day 27 from 23 UTC until day 28 at 01 ITC |
| 26005KT | Wind forecast 260° 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, 270° 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, 240° 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 WAWS 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 1983).

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.

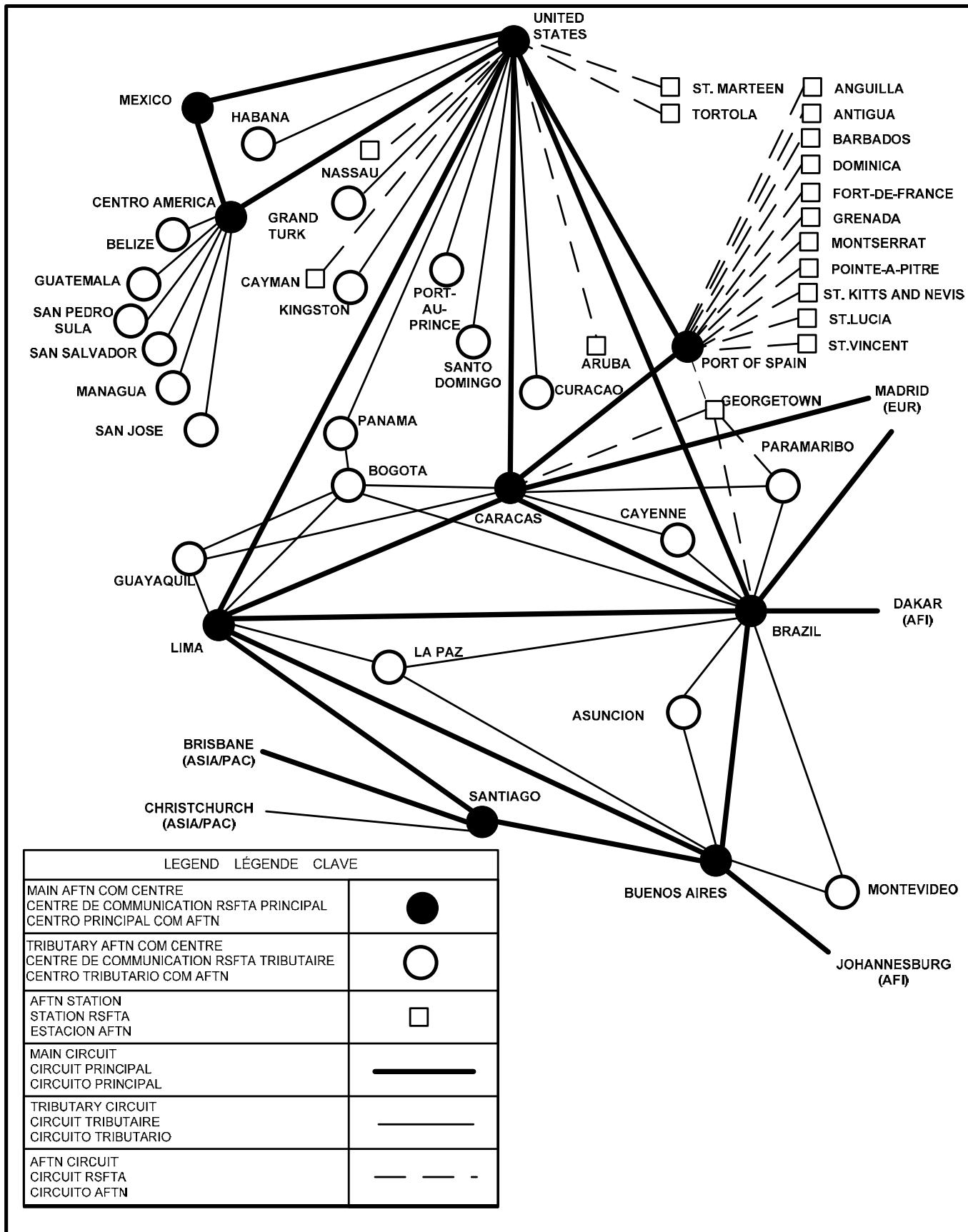
5.4 The response time for the requests sent to the databanks should be less than 15 minutes. AFTN messages containing requests for the databanks and responses from same should achieve transit times of less than five minutes.

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



**FASID TABLE MET 2A****OPMET INFORMATION (METAR, SPECI AND TAF)
REQUIRED IN ISCS AND SADIS****EXPLANATION OF THE TABLE****Column****1 Aerodromes in the AOP Tables of the Air Navigation Plans**

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

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

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

3 Location indicator**4 Availability of METAR/SPECI****5 Requirement for aerodrome forecasts in TAF code**

C - Requirement for 9-hour validity aerodrome forecasts in TAF code (9H)

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

X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)

6 Availability of OPMET information

F - Full : OPMET data as listed issued for the aerodrome all through the 24-hour period

P - Partial : OPMET data as listed not issued for the aerodrome for the entire 24-hour period

N - None : No OPMET data issued for the time being



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|---|---|--|---|--|--|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 |
| Anguilla (United Kingdom) WALLBLAKE,ANGUILLA | | TQPF | Y | T | P |
| Antigua and Barbuda V.C.BIRD,ANTIGUA | | TAPA | Y | T | F |
| Argentina AEROPARQUE J. NEWBERRY, CABA COMODORO RIVADAVIA/GRAL MOSCONI,CHT CORDOBA/ING. A.L.V. TARAVELLA CBA EZEIZA MINISTRO PISTARINI, BA IGUAZU/CATARATAS DEL IGUAZU, MS JUJUY,J. MAR DEL PLATA,BA MENDOZA/EL PLUMERILLO,MZA NEUQUEN,N RESISTENCIA,CHO RIO GALLEGOS/BRIG. GRAL. D.A. PARODI (SC) ROSARIO,SF SALTA,S. SAN CARLOS DE BARILOCHE,RN SAN FERNANDO,BA USHUAIA/MALVINAS ARGENTINAS (TAIS) | FORMOSA,F POSADAS,MS TUCUMAN/TEN. BENJAMIN MATIENZO,T | SABE SAVC SACO SAEZ SARF SARI SASJ SAZM SAME SAZN SARP SARE SAWG SAAR SASA SAZS SADF SANT SAWH | Y | T | F |
| Aruba (Netherlands) ORANJESTAD/BEATRIX | | TNCA | Y | T | F |
| Bahamas GEORGE TOWN GOVERNOR'S HARBOUR GRAND BAHAMA INTERNATIONAL MARSH HARBOUR NASSAU INTERNATIONAL NORTH ELEUTHERA SAN SALVADOR INTERNATIONAL SOUTH BIMINI STELLA MARIS TREASURE CAY | ROCK SOUND | MYEG MYEM MYGF MYAM MYNN MYEH MYER MYSM MYBS MYLS MYAT | Y Y Y Y Y Y Y | T T T T T T T | F N F N F N F N N N |
| Barbados | | | | | |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|--|-------------------------------|--------------------|------------|----------------------|-------------------|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 |
| GRANTLEY ADAMS,BARBADOS | | TBPB | Y | T | F |
| Belize PHILIP S.W. GOLDSON INTERNATIONAL | | MZBZ | Y | T | F |
| Bolivia COCHABAMBA | COBIJA | SLCO | Y | T | P |
| LA PAZ | EL TROMPILLO | SLCB | Y | T | F |
| | | SLET | Y | T | P |
| | | SLLP | Y | T | |
| TARIJA | PUERTO SUAREZ | SLPS | Y | T | P |
| TRINIDAD | SUCRE | SLSU | Y | T | P |
| VIRU VIRU | | SLTJ | Y | T | P |
| | | SLTR | Y | T | P |
| | | SLVR | Y | T | F |
| Brazil BELEM/VAL DE CANS, PA | | SBBE | Y | T | F |
| BELO HORIZONTE/TANCREDO NEVES,MG | | SBCF | Y | T | F |
| BOA VISTA/BOA VISTA, RR | | SBBV | Y | T | F |
| BRASILIA/PRES. JUSCELINO KUBITSCHAK, 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 | | SBGL | Y | T | F |
| JOBIM, RJ | | SBSV | Y | T | F |
| SAVADOR/DEPUTADO LUIS EDUARDO | | SBSN | Y | T | F |
| MAGALHAES, BA | | SBSL | Y | T | F |
| SANTAREM/SANTAREM,PA | | | | | |
| SAO LUIS/MARECHAL CUNHA MACHADO,MA | | | | | |



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



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|---|-------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 |
| Costa Rica ALAJUELA/JUAN SANTAMARIA INTL. LIBERIA/DANIEL ODUBER QUIROS INTL. LIMON/INTL. PAVAS/TOBIAS BOLANOS INTL. | | MROC MRLB MRLM MRPV | Y Y Y Y | T T T T | F P P P |
| Cuba CAMAGUEY/IGNACIO AGRAMONTE INTL CAYO LARGO DEL SUR/VILO ACUNA INTL. CIEGO DE AVILA/MAXIMO GOMEZ HABANA/JOSE MARTI INTL. HOLGUIN/FRANK PAIS INTL. - CIV/MIL SANTIAGO DE CUBA/ANTONIO MACEO INTL VARADERO/JUAN G. GOMEZ INTL | CAYO COCO/JARDINES DEL REY | MUCM MUCC MUCL MUCA MUHA MUHG MUCU MUVR | Y Y Y Y Y Y Y Y | T T T T T T T T | P F P P F F F F |
| Dominica MELVILLE HALL,DOMINICA ROSEAU,DOMINICA | | TDPD TDPR | Y Y | T T | F F |
| Dominican Republic BARAHONA LA ROMANA/INTL PUERTO PLATA PUNTA CANA SANTIAGO/CIBAO SANTO DOMINGO/HERRERA SANTO DOMINGO/JOSE FRANCISCO PENA GOMEZ | | MDBH MDLR MDPP MDPC MDST MDHE MDSD | Y Y Y Y Y Y Y | T T T T T T T | F F F F F F F |
| Ecuador GUAYAQUIL LATACUNGA MANA QUITO | | SEGU SELT SEMT SEQU | Y Y Y Y | T T T T | F P F F |
| El Salvador AEROPUERTO INTERNACIONAL DE ILOPANGO AEROPUERTO INTERNACIONAL EL SAVADOR | | MSSS MSLP | Y Y | T T | P F |
| French Antilles (France) FORT-DE-FRANCE-LE LAMENTIN POINTE-A-PITRE-LE RAIZET SAINT-BARTHELEMY | | TFFF TFFR TFFJ | Y Y Y | T T T | F F F |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|---|--------------------------|---------------|-------|----------------------|--------------|
| Listed in AOP Tables | Not Listed in AOP Tables | ICAO Location | SA/SP | TAF | Availability |
| 1 | 2 | 3 | 4 | 5 | 6 |
| SAINT-MARTIN-GRAND CASE | | TFFG | Y | T | F |
| French Guiana (France) CAYENNE-ROCHAMBEAU | | SOCA | Y | T | F |
| Grenada LAURISTON, CARRIACOU, GRENADA, GRENADINES POINT SALINES, GRENADA | | TGPZ | Y | T | F |
| Guatemala LA AURORA PUERTO BARRIOS PUERTO DE SAN JOSE | | TGPY | Y | T | F |
| | TIKAL | MGGT | Y | T | F |
| | | MGPB | Y | T | F |
| | | MGSJ | Y | T | F |
| | | MGTK | Y | T | F |
| Guyana CHEDDI JAGAN INTERNATIONAL | | SYCJ | Y | T | F |
| Haiti CAP HAITIEN PORT-AU-PRINCE/INTL | | MTCH | Y | T | F |
| | | MTPP | Y | T | F |
| Honduras LA CEIBA/GOLOSON INTL ROATAN INTL. SAN PEDRO SULA/LA MESA TEGUCIGALPA/TONCONTIN | | MHLC | Y | T | F |
| | | MHRO | Y | T | P |
| | | MHLM | Y | T | F |
| | | MHTG | Y | T | F |
| Jamaica KINGSTON/NORMAN MANLEY MONTEGO BAY/SANGSTER | | MKJP | Y | T | F |
| | | MKJS | Y | T | F |
| Mexico ACAPULCO AEROPUERTO DEL NORTE | | MMAA | Y | T | F |
| | AGUASCALIENTES | MMAN | Y | T | P |
| | | 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 |
| CHETUMAL | CD. VICTORIA | MMCV | Y | T | P |
| CHIHUAHUA | | MMCM | Y | T | P |
| CIUDAD ACUNA | | MMCU | Y | T | P |
| | | MMCC | | | N |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|---|-------------------------------|--------------------|------------|----------------------|-------------------|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 |
| COZUMEL | <i>CIUDAD DEL CARMEN</i> | MMCE | Y | T | P |
| CULIACAN | <i>CIUDAD OBREGON</i> | MMCN | Y | T | P |
| DURANGO | <i>COLIMA</i> | MMIA | Y | T | F |
| GUADALAJARA | | MMCZ | Y | T | P |
| GUAYMAS | <i>CUERNAVACA</i> | MMCB | Y | T | P |
| HERMOSILLO | | MMCL | Y | T | P |
| IXTAPA-ZIHUATANEJO | | MMDO | Y | T | P |
| LA PAZ | | MMGL | Y | T | F |
| LEON | | MMGM | Y | T | P |
| LORETO | | MMHO | Y | T | P |
| MANZANILLO | <i>LOS MOCHIS</i> | MMZH | Y | T | P |
| MATAMOROS | | MMLP | Y | T | P |
| MAZATLAN | | MMLO | Y | T | P |
| MERIDA | | MMLT | Y | T | P |
| MEXICALI | | MMLM | Y | T | P |
| MEXICO | | MMZO | Y | T | P |
| MONTERREY | <i>MINATITLAN</i> | MMMA | Y | T | P |
| MORELIA | | MMMZ | Y | T | F |
| NOGALES | | MMMD | Y | T | F |
| NUEVO LAREDO | | MMML | Y | T | P |
| PIEDRAS NEGRAS | <i>OAXACA</i> | MMMX | Y | T | F |
| PUERTO VALLARTA | <i>POZA RICA</i> | MMMT | Y | T | P |
| REYNOSA | <i>PUEBLA</i> | MMMY | Y | T | F |
| SAN FELIPE | <i>PUERTO ESCONDIDO</i> | MMMM | Y | T | P |
| SAN JOSE DEL CABO | | MMNG | | | N |
| TAMPICO | <i>QUERETARO</i> | MMNL | Y | T | P |
| TAPACHULA | | MMOX | Y | T | P |
| TIJUANA | <i>SALTILLO</i> | MMPG | Y | T | P |
| TOLUCA | | MMPA | Y | T | P |
| TORREON | <i>SAN LUIS POTOSI</i> | MMPB | Y | T | P |
| | <i>TEPIC</i> | MMPS | Y | T | P |
| | | MMPR | Y | T | F |
| | | MMQT | Y | T | P |
| | | MMRX | Y | T | P |
| | | MMIO | Y | T | F |
| | | MMSF | | | N |
| | | MMSD | Y | T | P |
| | | MMSP | Y | T | F |
| | | MMTM | Y | T | P |
| | | MMTP | Y | T | P |
| | | MMEP | Y | T | P |
| | | MMTJ | Y | T | F |
| | | MMTO | Y | T | F |
| | | MMTC | Y | T | P |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | | OPMET to be provided | |
|---|---|--------------------------------------|-----------------------|-----------------------|-----------------------|--|
| Listed in AOP Tables | Not Listed in AOP Tables | ICAO Location | SA/SP | TAF | Availability | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| VERACRUZ VILLAHERMOSA ZACATECAS | TUXTLA GUTIERREZ (CIV) URUAPAN | MMTG MMPN MMVR MMVA MMZC | Y Y Y Y Y | T T T T T | P P F P P | |
| Montserrat (United Kingdom) GERALD'S AIRPORT, MONTSERRAT | | TRPG | Y | T | P | |
| Netherlands Antilles (Netherlands) BONAIRE/FLAMINGO CURACAO/AEROPUERTO HATO ST. EUSTATIUS/F.D ROOSEVELT ST. MAARTEN/PRINCESS JULIANA | | TNCB TNCC TNCE TNCM | Y Y Y Y | T T T T | P F P F | |
| Nicaragua MANAGUA/MANAGUA PUERTO CABEZAS/ZELAYA | | MNMG MNPC | Y Y | T T | F P | |
| Panama BOCAS DEL TORO/BOCAS DEL TORO CHANGUINOLA/MANUEL NINO DAVID/ENRIQUE MALEK PANAMA/MARCOS A. GELABERT PANAMA/TOCUMEN | | MPBO MPCH MPDA MPMG MPTO | Y Y Y Y Y | T T T T T | P P P P F | |
| Paraguay ASUNCION/S.PETTIROSSI CIUDAD DEL ESTE/GUARANI | | SGAS SGES | Y Y | T T | F F | |
| Peru AREQUIPA/RODRIGUEZ BALLON | ANDAHUAYLAS | SPHY SPQU SPHO | Y Y Y | T T T | P F P | |
| CHICLAYO/CAP. JOSE ABELARDO QUINONES GONZALEZ CUSCO/VELAZCO ASTETE | AYACUCHO/CORONEL FAP ALFREDO MENDIVIL DUARTE CAJAMARCA/MAYOR GENERAL FAP ARMANDO REVOREDO IGLESIAS | SPJR | Y | T | P | |
| IQUITOS/CORONEL FAP FRANCISCO SECADA VIGNETTA | ILO | SPHI SPZO SPLO SPQT | Y Y Y Y | T T T T | F F F F | |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | | OPMET to be provided | |
|--|---|--|---------------------------------|---------------------------------|---------------------------------|--|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 | |
| LIMA-CALLAO/INTL JORGE CHAVEZ PISCO | JUANJUI JULIACA PTO. MALDONADO/PADRE ALDAMIZ PUCALLPA/DAVID ABENSUR R. | SPJI SPJL SPIM SPSO SPTU SPCL SPTN | Y Y Y Y Y Y Y | T T T T T T T | P P F F P P P | |
| TACNA/CORONEL FAP CARLOS CIRIANI SANTA ROSA | TALAR/CAPITAN MONTES TARAPOTO/CDTE. GUILLERMO DEL CASTILLO PAREDES TINGO MARIA | SPYL SPST | Y Y | T T | P P | |
| TRUJILLO/CAPITAN CARLOS MARTINEZ DE PINILLOS | TUMBES/PEDRO CANGA YURIMAGUAS/MOISES BENZAQUEN RENGINO | SPGM SPRU | Y Y | T T | P P | |
| Puerto Rico (United States) AGUADILLA/RAPHAEL HERNANDEZ PR. FAJARDO/DIEGO JIMENEZ TORRES PR. PONCE/MERCEDITA,PR. | MAYAGUEZ/EUGENIO MARIA DE HOSTOS, PR. ROOSEVELT ROADS NAS,PR. | TJBQ TJFA TJMZ TJPS TJNR TJSJ | Y Y Y Y Y Y | T T T T T T | P N P F N F | |
| SAN JUAN/LUIS MUÑOZ MARIN INTERNATIONAL, PR. VIEQUES, ISLA DE VIEQUES, PR. | | TJVQ | | | N | |
| Saint Kitts and Nevis ROBERT L. BRADSHAW, ST. CHRISTOPHER (ST. KITTS) AND NEVIS VANCE WINKWORTH AMORY, ST. CHRISTOPHER (ST. KITTS) AND NEVIS | | TKPK TKPN | Y Y | T T | P P | |
| Saint Lucia GEORGE CHARLES, SAINT LUCIA HEWANORRA SAINT LUCIA | | TLPC TLPL | Y Y | T T | P F | |
| Saint Vincent and the Grenadines CANOUAN, ST. VINCENT AND THE GRENADINES E.T. JOSHUA, ST. VINCENT, AND THE GRENADINES J.F. MITCHELL, BEQUIA ST. VINCENT AND THE GRENADINES MUSTIQUE, ST. VINCENT AND THE GRENADINES | | TVSC TVSV TVSB TVSM | Y | T | N P N N | |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | |
|--|---|--|---------------------------------|---------------------------------|---------------------------------|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 |
| UNION ISLAND, ST.VINCENT AND THE GRENADINES | | TVSU | | | N |
| Suriname J.A. PENGEL INTL.AIRP NICKERIE/MAJ. FERNANDES ZORG EN HOOP | | SMJP SMNI SMZO | Y Y Y | T T T | F P P |
| Trinidad and Tobago CROWN POINT, TOGAGO PIARCO, TRINIDAD | | TTCP TPPP | Y Y | T T | F F |
| Turks and Caicos Islands (United Kingdom) GRAND TURK PROVIDENCIALES SOUTH CAICOS | | MBGT MBPV MBSC | Y Y Y | T T T | P P P |
| United Kingdom | MOUNT PLEASANT | EGYP | Y | C | F |
| Uruguay COLONIA/INTL "LAGUNA DE LOS PATOS" | DURAZNO/SANTA BERNARDINA INTL. DE ALTERNATIVA | SUCA SUDU | Y Y | T T | P F |
| MALDONADO/ INTL C/C CARLOS A.CURBELO "LAGUNA DEL SAUCE" MONTEVIDEO/AD ANGEL S. ADAMI MONTEVIDEO/INTL.CARRASCO "GRAL. CESAREO L. BERISSO" RIVERA/INTL. PRESIDENTE GENERAL (PILOTO AVIADOR MILITAR) DON OSCAR D. GESTIDO SALTO/INTL.NUEVA HESPERIDES | | SULS | Y | T | F |
| Venezuela | ACARIGUA, PORTUGUESA B.A. GENERALISIMO FRANCISCO DE MIRANDA, CARACAS, MIRANDA | SVAC SVFM | Y Y | T T | F F |
| BARCELONA, ANZOATEGUI | BARINAS, BARINAS BARQUISIMETO, LARA CALABOZO, GUARICO CIUDAD BOLIVAR, BOLIVAR CORO, FALCON CUMANA, SUCRE | SVBC SVBI SVBM SVCL SVCB SVCR SVCU | Y Y Y Y Y Y Y | T T T T T T T | F F F F F F F |



MET 2A - CARSAM

| Aerodrome where service is to be provided | | | | OPMET to be provided | | |
|--|--|--|--|--|--|--|
| Listed in AOP Tables 1 | Not Listed in AOP Tables 2 | ICAO Location 3 | SA/SP 4 | TAF 5 | Availability 6 | |
| MAIQUETIA, INTERNACIONAL SIMON BOLIVAR, MAIQUETIA, VARGAS MARACAIBO, ZULIA MARGARITA, NUEVA ESPARTA | GUANARE, PORTUGUESA GUIRIA, SUCRE | SVGU SVGI SVMI | Y Y Y | T T T | F F F | |
| PARAGUANA, JOSEFA CAMEJO, FALCON | MATURIN,MONAGAS MERIDA, MERIDA | SVMC SVMG SVMT SVMD SVJC SVPA SVSA SVSR SVJM SVSO | Y Y Y Y Y Y Y Y Y Y | T T T T T T T T T T | F F F F P F P F F F | |
| SAN ANTONIO DEL TACHIRA, TACHIRA | PUERTO AYACUCHO, AMAZONAS | SVTM SVVA SVVP | Y Y Y | T T T | F P F | |
| VALENCIA, CARABOBO | SAN FERNANDO DE APURE,APURE SAN JUAN DE LOS MORROS, GUARICO SANTO DOMINGO, B.A.MAYOR BUENAVENTURA VIVAS,TACHIRA TUMEREMO, BOLIVAR VALLE DE LA PASCUA, GUARICO | TIST TISX | Y Y | T T | F F | |
| Virgin Islands (United States) CHARLOTTE AMALIE ST. THOMAS/CYRIL E. KING, VI. HENRY.E.ROHLSSEN | | | | | | |

VI-MET 2B-1

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: $F = \text{METAR/SPECI} + \text{TAF}$

$S = \text{METAR/SPECI}$

$T = \text{TAF}$

EXPLICACIÓN DE LA TABLA

Columna 1: Nombre del aeródromo

Columna 2: Indicador de lugar

Columna 3: $F = \text{METAR/SPECI} + \text{TAF}$

$S = \text{METAR/SPECI}$

$T = \text{TAF}$

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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----|--|--------------------|---------------------|-----------|---------------------|---------|----------|--------|---------|--------|-------------------|-------|----------|------------|------|----------|--------------------|---------|-------------|--------------------------|------------------------|---------|-----------|--------|-------|----------|---------|--------|----------------------|-----------------------------------|-----------|--------|----------|------|--------------------|-----------------------|-------------|-------------------------------|----------|---------------------|---------------------------------|---------|-----------|-----------------------|-----------------------|---|--|
| | | 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 |
| FROM/DE | CAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANGUILLA (U.K.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The Valley | | TQPF | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | F | F | | | | | | | | | | |
| ANTIGUA AND BARBUDA | | TAPA | F | T | F | | | | | | | T | F | | F | F | T | T | | | F | F | | | F | F | F | F | F | F | F | F | F | F | | | | | | | | | | | | | | |
| ARUBA (NeTherlands) | | TNCA | | F | | T | | F | F | F | F | F | | | | F | F | T | | F | F | | | F | F | F | F | F | F | F | F | F | F | F | | | | | | | | | | | | | | |
| BAHAMAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freeport | | MYGF | | T | F | T | | | | | | F | F | | | | | | | | | | | | | | | | | | | | | F | F | | | | | | | | | | | | | |
| George Town | | MYEG | F | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | | | | | | | | | | | |
| Nassau | | MYNN | F | T | F | T | F | T | F | F | F | F | T | F | | | F | T | F | F | F | F | F | F | T | T | F | T | | F | F | F | F | 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 | | | | | | | | | | | | |
| BELIZE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Belize | | MZBZ | | | | | | | | | | F | | F | | | | | | | | | | | | | | | | | | | | F | F | | | | | | | | | | | | | |
| BRITISH VIRGIN ISLANDS (U.K.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roadtown | | TUPJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | F | F | F | | | | | | | | | |
| Virgin Gorda I. | | TUPW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | F | F | F | | | | | | | | | |
| CAYMAN IS. (U.K.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cayman Brac | | MWCR | | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | T | | F | F | F | | | | | | | | | |
| Georgetown | | MWCR | | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | F | | F | F | F | | | | | | | | | |
| COSTA RICA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alajuela | | MROC | | T | T | F | | | T | T | F | F | F | T | F | | | F | | F | F | F | F | F | T | F | | | | | | F | | F | F | F | | | | | | | | | | | | |
| Liberia | | MRLB | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | F | F | F | | | | | | | | | |
| Limón | | MRLM | T | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | F | F | F | F | F | | | | | | | | | |
| Pavas | | MRPV | | | | | | | | | | 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 | 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 |
| PUERTO RICO (US) | | TJBQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | F | F | | | | | | | | | | |
| Aguadilla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fajardo | | TJFA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Mayaguez/Eugenio María de Hostos</i> | | TJMZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ponce | | TJPS | F | F | T | F | | | | F | T | F | F | T | F | | | T | F | F | T | F | F | F | T | F | | | | | | | | | | | | | | | | | | | | | | |
| <i>Roosevelt Roads Was</i> | | TJNR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| San Juan | | TJSJ | F | F | T | F | F | T | | F | T | F | F | F | T | | F | T | T | F | T | F | F | F | T | F | F | | | | | | | | | | | | | | | | | | | | | |
| Vieques | | TJVQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAINT KITTS AND NEVIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basseterre | | TKPK | F | F | | | | | | | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charlestown | | TKPN | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAINT LUCIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Castries | | TLPC | F | | | F | | | | | | | | | | | | F | F | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vieux-Fort | | TLPL | F | | F | F | | | | F | T | | F | | | | F | F | T | F | F | F | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ST. VINCENT & GREN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kingstown | | TVSV | | | | F | F | | | | | | | | | | F | F | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRINIDAD AND TOBAGO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port-of-Spain | | TPPP | F | T | | F | | F | | F | | | F | T | F | T | F | T | F | T | F | F | F | | T | F | F | F | F | F | F | F | F | F | | | | | | | | | | | | | | |
| Scarborough | | TTCP | F | | | F | | | | | | | | | | | F | F | F | F | | | F | | F | F | F | F | F | F | F | F | F | F | F | | | | | | | | | | | | | |
| TURKS AND CAICOS IS.(UK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Turk | | MBGT | | | | | | | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Providenciales | | MBPV | | | | | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Caicos | | MBSC | | | | | | | | | | | | | | | | | | | | | | | F | | | | | | | | | | | | | | | | | | | | | | | |
| UNITED KINGDOM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Pleasant | | GGYP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | F | | | | | | | | | | | | | | |
| Saint Thomas | | TIST | F | F | | | | | | | F | F | F | F | | | | | | | | | | F | F | | | T | F | | T | F | F | 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 SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TAPAYMYX TNCCYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| ANTIGUA AND BARBUDA | | | |
| V. C. BIRD, ANTIGUA | TAPA | METAR/SPECI y/and TAF | TQPFYMYX TBPBMYX TDPDYM MYX TFFFYMYX TFFRYMYX TGPYMYX TRPMYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TPPYMYX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TNCAYMYX MUHAYMYX SYZZMAMX MTPPYMYX SVZZYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| ARGENTINA | | | |
| AEROPARQUE J. NEWBERY, CAB | SABE | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| COMODORO RIVADAVIA/GRAL MO | SAVC | METAR/SPECI y/and TAF | SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CÓRDOBA/ING. A.L.V. TARAVELA | SACO | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MROCYMYX SEZZMAMX MMMXYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| EZEIZA MINISTRO PISTARINI, BA | SAEZ | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX MUHAYMYX MDSDYMYX SEZZMAMX MMMXYMYX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| IGUAZÚ/ CATARATAS DE IGUAZU | SAVC | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| JUJUY, J. | SASJ | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MAR DE PLATA, BA | SARE | METAR/SPECI y/and TAF | SCZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SCZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MENDOZA/EL PLUMERILLO, MZA | SAME | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MROCYMYX MUHAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| NEUQUÉN, N | SAZN | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX MUHAYMY SEZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| RESISTENCIA, CHO | SARE | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| RÍO GALLEGOS/BRIG. GRAL. D. A. | SAWG | METAR/SPECI y/and TAF | SKZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| ROSARIO; SF | SAAR | METAR/SPECI y/and TAF | SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MUHAYMY SBBRZYX KWBCYMYX EGZZMSAM |
| SALTA, S. | SASA | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SAN CARLOS DE BARILOCHE, RN | SAZS | METAR/SPECI y/and TAF | SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SAN FERNANDO, BA | SADF | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| USHUAIA/MALVINAS ARGENTINAS | SAWH | METAR/SPECI y/and TAF | SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| ARUBA (Netherlands) | | | |
| ORANJESTAD/BEATRIX | TNCA | METAR/SPECI y/and TAF | MYNNYMYX SKZZMAMX MUHAYMY MDSDYMYX TNCCYMYX MTPPYMYX MKJPYMYX MPZZMAMX TJSJYMYX SMZZMAMX TPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MMMXYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| BAHAMAS | | | |
| GEORGE TOWN | MYEG | METAR/SPECI y/and TAF | TAPAYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| GOVERNOR'S HARBOUR | MYEM | METAR/SPECI y/and TAF | SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX 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 MROCIMYC MUHAYMYX MKJPYMYX MMMXYMYX TNCCYMYX MBGTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TBPBMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MARSH HARBOUR | MYAM | METAR/SPECI y/and TAF | TAPAMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| NASSA INTERNATIONAL | MYNN | METAR/SPECI y/and TAF | TAPAMYX TNCAYMYX MZBZMYX SKZZMAMX MROCIMYX MUHAYMYX MDSDYMYX MSSSYMYX MGTYMYX MTPPYMY MHTGYMYX MKJPYMYX MMMXMYMYX MNMGYMYX MPZZMAMX TKPKYMYX MBGTYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TBPBMYX SCZZMAMX SEZZMAMX SYZZMAMX SGZZMAMX SPZZMAMX TTTPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| NORTH ELEUTHERA | MYEH | METAR/SPECI y/and TAF | TAPAMYX SBBRZYX KWBCYMYX EGZZMCAR SGZZMAMX |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| ROCK SOUND | MYER | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| SAN SALVADOR INTERNATIONAL | MYSM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| SOUTH BIMINI | MYBS | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| STELLA MARIS | MYLS | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR SGZZMAMX |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| TREASURE CAY | MYAT | METAR/SPECI y/and TAF | TAPAMYX SBBRZYX KWBCYMYX EGZZMCAR SGZZMAMX |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| BARBADOS | | | |
| GRANTLEY ADAMS, BARBADOS | TBPB | METAR/SPECI y/and TAF | TAPAMYX SKZZMAMX MUHAYMYX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX MTTPYMY MKJPYMYX MMMXYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TVSVYMYX SMZZMAMX TTTPYMYX SVZZMAMX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MROCIMYX SOZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| BELIZE | | | |
| PHILIPS S.W. GOLSON/BELIZE INT | MZBZ | METAR/SPECI y/and TAF | MUHAYMYX MSSSYMYX MHTGYMYX MKJPYMYX MMMXYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| BOLIVIA | | | |
| COBIJA | SLCO | METAR/SPECI | SBBRZYX KWBCYMYX EGZZMSAM |
| COCHABAMBA | SLCB | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| EL TROMPILLO | SLET | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| LA PAZ | SLLP | METAR/SPECI y/and TAF | SAZZMAMX TNCAYMYX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SEZZMAMX MMMXYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| POTOSI | SLPO | METAR/SPECI | SBBRZYX KWBCYMYX EGZZMSAM |
| PUERTO SUAREZ | SLPS | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| SUCRE | SLSU | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| TARIJA | SLTJ | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| TRINIDAD | SLTR | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| VIRU VIRU | SLVR | METAR/SPECI y/and TAF | SAZZMAMX SCZZMAMX SKZZMAMX MPZZMAMX SGZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| BRASIL | | | |
| BELEM/VAL DE CANS, PA | SBBE | METAR/SPECI y/and TAF | SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX MPZZMAMX SMZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | TNCAYMYX TBPBMYX SKZZMAMX MUHAYMYX SEZZMAMX MMMXYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| BELO HORIZONTE/TANCREDO NE | SBCF | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| BOA VISTA/ BOA VISTA, RR | SBBV | METAR/SPECI y/and TAF | SOZZMAMX SYZZMAMX SMZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| BRASILIA/PRES. JUSCELINO KUBI | SBBR | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SCZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CAMPINAS/VIRACOPOS, SP | SBKP | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SCZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRZYX 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 TAF | SLZZMAMX MPZZMAMX TUPJYMYX SBBRZYX KWBCYMYX EGZZMSAM SAZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CORUMBA/CORUMBA, MS | SBCR | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CRUZEIRO DO SUL/ CRUZEIRO DO SUL | SBCZ | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| CUIBA/MARECHA RONDON, MT | SBCY | METAR/SPECI y/and TAF | SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX SGZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCCYMYX TBPYMYX SKZZMAMX MUHAYMYX MMMXYMYX MPZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CURITIBA/AFONSO PENA, PR | SBCT | METAR/SPECI y/and TAF TAF | SLZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM SAZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| FLORIANAPOLIS/HERCILIO LUZ, SC | SBFL | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| FORTALEZA/PINTO MARTINS, CE | SBFZ | METAR/SPECI y/and TAF | SOZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| FOZ DO IGUACU/CATARATAS, PR | SBFI | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SCZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MACAPA/MACAPA, AP | SBMQ | METAR/SPECI y/and TAF | SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX MPZZMAMX SMZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | TNCCYMYX TBPYMYX SKZZMAMX MUHAYMYX SEZZMAMX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MACEIÓ/TMA | SBMO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| MANAUS/EDUARDO GOMES, AM | SBEG | METAR/SPECI y/and TAF | SLZZMAMX SOZZMAMX SYZZMAMX TNCCYMYX SGZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCCYMYX TBPYMYX SKZZMAMX MUHAYMYX MMMXYMYX MPZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| NATAL /AUGUSTO SEVERO, RN | SBNT | METAR/SPECI y/and TAF TAF | SBBRZYX KWBCYMYX EGZZMSAM SAZZMAMX SCZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| PONTA PORAPONTA PORA, MS | SBPP | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| PORTO ALEGRE/SALGADO FILHO, | SBPA | METAR/SPECI y/and TAF | SAZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SLZZMAMX SKZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| RECIFE/GUARARAPES - GILBERTO | SBRF | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| RIO DE JANEIRO/GALEAO-ANTONI | SBGL | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SCZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX SEZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SALVADOR/DEPUTADO LUIS EDUARDO | SBSV | METAR/SPECI y/and TAF | SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SANTAREM/SANTAREM, PA | SBSN | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX MPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | TBPYMYX SKZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SAO LUIS/MARECHAL CUNHA MAC | SBSL | METAR/SPECI y/and TAF | SOZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SAO PAULO/GUARULHOS, GOVER | SBGR | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SCZZMAMX MPZZMAMX SGZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX MUHAYMYX SEZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| TABATINGA/ TABATINGA, AM | SBTT | METAR/SPECI y/and TAF | SLZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MWCRYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| URUGUAIANA/RUBEM BERTA, RS | SBTT | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| BRITISH VIRGIN ISLANDS (UNITED KINGDOM) | | | |
| TERRANCE B. LETTSOME, TORTOL | TUPJ | METAR/SPECI y/and TAF | TJSJYMYX TKPKYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| VIRGIN GORDA, B.B.V.I | TUPW | METAR/SPECI y/and TAF | TJSJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| CAYMAN ISLANDS (UNITED KINGDOM) | | | |
| GERRARD SMITH INTL/CAYMAN B | MWCB | METAR/SPECI y/and TAF | MROCIMYX MKJPYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MMMXYMYX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| OWEN ROBERTS INTL/GRAND CA | MWCR | METAR/SPECI y/and TAF | MROCIMYX MKJPYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| CHILE | | | |
| ANTOFAGASTA/AD CERRO MORE | SCFA | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX MPZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |

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

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|---------------------------------------|--------------------------|--|---|
| <i>GUANTANAMO (US NAVEL AIR BASE)</i> | MUGM | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| MUHA HABANA/JOSE MARTI INTL. | MUHA | METAR/SPECI y/and TAF | MYNNYMYX SLZZMAMX MROCYMYX MDSDYM MYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TBPBMYX SEZZMAMX SYZZMAMX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| HOLGUIN/FRANK PAIS INTL. - CIV/ | MUHG | METAR/SPECI y/and TAF | MYNNYMYX SLZZMAMX MROCYMYX MDSDYM MYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TBPBMYX SEZZMAMX SYZZMAMX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| SANTIAGO DE CUBA/ANTONIO MA | MUCU | METAR/SPECI y/and TAF | MDSDYM MYX MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SKZZMAMX MUHAYMY SBBRZYX KWBCYMYX EGZZMCAR |
| VARADERO/JUAN G. GOMEZ INTL | MUVR | METAR/SPECI y/and TAF | MDSDYM MYX SGZZMAMX SV SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SKZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| DOMINICA | | | |
| MELVILLE HALL,DOMINICA | TDPD | METAR/SPECI y/and TAF | TFFFYMYX TFFRYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TAPAYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| ROSEAU,DOMINICA | TDPR | METAR/SPECI y/and TAF | TFFFYMYX TFFRYMYX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| DOMINICAN REPUBLIC | | | |
| BARAHONA | MDBH | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| LA ROMANA/INTL | MDLR | METAR/SPECI y/and TAF | SUZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| PUERTO PLATA | MDPP | METAR/SPECI y/and TAF | MUHAYMYX TGPYMYX MTPPYMYX SUZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SPZZMAMX MBGTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| PUNTA CANA | MDPC | METAR/SPECI y/and TAF | SKZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| SANTIAGO/CIBAO | MDST | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| MDHE SANTO DOMINGO/HERRERA | MDHE | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| SANTO DOMINGO/JOSE FRANCISC | MDSD | METAR/SPECI y/and TAF | TNCAYMYX MYNNYMYX TBPBMYX SKZZMAMX MROCYMYX MUHAYMYX TFFFYMYX TFFRYMYX TGPGYMYX MTPPYMYX MHTGYMYX MKJPYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SEZZMAMX SOZZMAMX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| ECUADOR | | | |
| GUAYAQUIL | SEGU | METAR/SPECI y/and TAF | SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX MWCRYMYX SCZZMAMX MUHAYMYX MMMXYMYX TJSJYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| LATACUNGA | SELT | METAR/SPECI y/and TAF | SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX MWCRYMYX SCZZMAMX MROCYMYX MUHAYMYX MMMXYMYX TJSJYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| MANA | SEMT | METAR/SPECI y/and TAF | SLZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| QUITO | SEQU | METAR/SPECI y/and TAF | SLZZMAMX SKZZMAMX TNCCYMYX MPZZMAMX SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MROCYMYX MUHAYMYX MMMXYMYX TJSJYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| EL SALVADOR | | | |
| AEROPUERTO INTERNACIONAL D | MSSS | METAR/SPECI y/and TAF | MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| AEROPUERTO INTERNACIONAL EL | MSLP | METAR/SPECI y/and TAF | MZBZMYX MRCOYMYX MUHAYMY MGGBTMYX MHTGYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SPZZMAMXTJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| FRENCH ANTILLES (FRANCE) | | | |
| FORT DE FRANCE /LE LAMENTIN | TFFF | METAR/SPECI y/and TAF | TAPAYMYX TNCAYMYX TBPBMYX MUHAYMYX TDPDYMYX MDSDYM YX SOZZMAMX TGPYMYX SYZZMAMX MKJPYMYX TRPMYMYX TNCCYMYX MPZZMAMX TJSJYMYX TLPLYMYX TVSVYMYX TPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SKZZMAMX SEZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| POINTE A PITRE, LE RAIZET, GUA | TFFR | METAR/SPECI y/and TAF | TAPAYMYX TNCAYMYX TBPBMYX SKZZMAMX MUHAYMYX TDPDYMYX MDSDYM YX 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 TPPPYMYXSZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SEZZMAMX MTPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| SAINT BARTHELEMY, FRENCH AN | TFFJ | METAR/SPECI y/and TAF | TOPFMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MKJPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| SAINT MARTIN, GRANDE CASE, G | TFFG | METAR/SPECI y/and TAF | SKZZMAMX SMZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MUHAYMY SBBRZYX KWBCYMYX EGZZMCAR |
| FRENCH GUIANA (FRANCE) | | | |
| SOCA CAYENNE-ROCHAMBEAU | SOCA | METAR/SPECI y/and TAF | TBPBMYX TFFFYMYX TFFRYMYX SYZZMAMX TNCCYMYX SMZZMAMX TPPPYMYX SVZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SEZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| GRENADA | | | |
| LAURISTON, CARRIACOU, GRENA | TGPZ | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| POINT SALINES, GRENADA | TGPY | METAR/SPECI y/and TAF | TAPAMYX TBPBMYX MZBZMYX SKZZMAMX TLPLYMYX TVSVYMYX TPPPYMYX SVZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| GUATEMALA | | | |
| LA AURORA | MGGT | METAR/SPECI y/and TAF | MYNNYMYX MZBZMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYM MSSSYMYX MTPPYMYX MHTGMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TNCAYMYX SEZZMAMX SPZZMAMX SVZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| PUERTO BARRIOS | MGPB | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| PUERTO DE SAN JOSE | MGSJ | METAR/SPECI y/and TAF | MYNNYMYX MZBZMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYM MSSSYMYX MGCTYMYX MTPPYMYX MHTGMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX MPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TNCAYMYX SEZZMAMX SPZZMAMX SVZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| TIKAL | MGTK | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| GUYANA | | | |
| SYCJCHEDDI JAGAN INTERNATIONAL | SYCJ | METAR/SPECI y/and TAF | TBPBMYX SKZZMAMX MUHAYMYX FFFFYMYX FFRYMYX SYZZMAMX MMMXYMYX TNCCYMYX SGZZMAMXTJSJYMYX TLPLYMYX TPPYMYX MBGTYMYX SVZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| HAITI | | | |
| CAP HAITIEN | MTCH | METAR/SPECI y/and TAF | MBGTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MTPP PORT-AU-PRINCE/INTL | MTPP | METAR/SPECI y/and TAF | MYNNYMYX SKZZMAMX MUHAYMYX MDSDYM FFFFYMYX FFRYMYX TNCCYMYX MPZZMAMX TJSJYMYX MBGTYMYX SVZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TNCAYMYX TBPBMYX SMZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| HONDURAS | | | |
| LA CEIBA/GOLOSON INTL | MHLC | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| ROATAN INTL. | MHRO | METAR/SPECI y/and TAF | MZBZMYX MROCYMYX MUHAYMYX MSSSYMYXMGCTYMYX MKJPYMYX MMMXYMYX MNMGYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| SAN PEDRO SULA/LA MESA | MHLM | METAR/SPECI y/and TAF | MZBZMYX SKZZMAMX MROCYMYX MUHAYMYX MSSSYMYXMGCTYMYX MKJPYMYX MMXYMYX MNMGYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| TEGUCIGALPA/TONCONTIN | MHTG | METAR/SPECI y/and TAF | MZBZMYX MROCYMYX MUHAYMYX MSSSYMYXMGCTYMYX MKJPYMYX MMXYMYX MPZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MMXYMYX SEZZMAMX SOZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| JAMAICA | | | |
| KINGSTON/NORMAN MANLEY | MKJP | METAR/SPECI y/and TAF | MYNNYMYX TBPBMYX MZBZMYX MWCRYMYX SKZZMAMX MRCOYMYX HUHAYMYX MDSDYM MGCTYMYX MTPPYMYX MHTGMYX MMXYMYX TRPAMYX TNCCYMYX SGZZMAMX TJSJYMYX MBGTYMYX TUPJYMYX SVZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX TNCAYMYX SEZZMAMX SOZZMAMX SPZZMAMX SBBRZYX 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 TBPPBYMYX MZBZMYX MWCRYMYX SKZZMAMX MRCOYMYX HUHAYMYX MGGTMYX MPYPYMYX MHTGYMYX MMMXYMYX TNCCYMYX MPZZMAMX TSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MEXICO | | | |
| ACAPULCO | MMAA | METAR/SPECI y/and TAF | MROCYMYX MUHAYMYX MSSSYMYX MGGTMYXPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MYNNYMYX SKZZMAMX SEZZMAMX MHTGYMYX SEZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| AEROPUERTO DEL NORTE | MMAN | METAR/SPECI y/and TAF | MPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| <i>AGUASCALIENTES</i> | <i>MMAS</i> | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| BAHIAS DE HUATULCO | MMBT | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| CAMPECHE | MMCP | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| CANCUN | MMUN | METAR/SPECI y/and TAF | MYNNYMYX MUHAYMYX MDSDYM MYX MHTGYMYX MKJPYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SKZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| CD. JUAREZ | MMCS | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| <i>CD. VICTORIA</i> | <i>MMCV</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| CHETUMAL | MMCM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| CHIHUAHUA | MMCU | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| CIUDAD ACUNA | MMCC | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| <i>CIUDAD DEL CARMEN</i> | <i>MMCE</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| <i>CIUDAD OBREGON</i> | <i>MMCN</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| COZUMEL | MMCZ | METAR/SPECI y/and TAF | MYNNYMYX MZBZMYX MWCRYMYX MROCYMYX MUHAYMYX MSSSYMYX MGGTMYX MNMGYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TBPPBYMYX MHTGYMYX SPZZMAMX TSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| CULIACAN | MMCL | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| DURANGO | MMDO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| GUADALAJARA | MMGL | METAR/SPECI y/and TAF | MYNNYMYX MUHAYMYX BBRYZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SKZZMAMX SEZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| GUAYMAS | MMGM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| HERMOSILLO | MMHO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| IXTAPA-ZIHUATANEJO | MMZH | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| LA PAZ | MLLP | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| LEON | MMLO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| LORETO | MLLT | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| MANZANILLO | MMZO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| MATAMORO | MMMA | METAR/SPECI y/and TAF | MUHAYMY MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SEZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MAZATLAN | MMMZ | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MERIDA | MMMD | METAR/SPECI y/and TAF | MYNNYMYX MZBZMYX MWCRYMYX MROCYMYX MUHAYMYX MSSSYMYX MGGTMYX MTPPYMYX MNMGYMYX MPZZMAMX TSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TBPPBYMYX MHTGYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MEXICALI | MMML | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| MEXICO | MMMX | METAR/SPECI y/and TAF | MYNNYMYX MZBZMYX SLZZMAMX MROCYMYX MUHAYMYX MDSDYM MSSSYMYX MGGTMYX MHTGYMYX MNMGYMYX MPZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| MONTERREY | MMMY | METAR/SPECI y/and TAF | MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MORELIA | MMMM | METAR/SPECI y/and TAF | SEZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| NOGALES | MMNG | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| NUEVO LAREDO | MMNL | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| <i>OAXACA</i> | <i>MMOX</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| PIEDRAS NEGRAS | MMPG | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| <i>PUERTO ESCONDIDO</i> | <i>MMPS</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |

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|---|--------------------------|--|--|
| PUERTO VALLARTA | MMPR | METAR/SPECI y/and TAF | MZBZYMIX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGYMYX MHTGMYMX MNMGYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| REYNOSA | MMRX | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| SAN FELIPE | MMSF | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| SAN JOSE DEL CABO | MMSD | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MUHAYMY SBBRZYX KWBCYMYX EGZZMCAR |
| <i>SAN LUIS POTOSI</i> | <i>MMSP</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| TAMPICO | MMTM | METAR/SPECI y/and TAF | MZBZYMIX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGYMYX MHTGMYMX MNMGYMYX SGZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| TAPACHULA | MMTP | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| TIJUANA | MMTJ | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| TOLUCA | MMTO | METAR/SPECI y/and TAF | MSSSYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| TORREON | MMTC | METAR/SPECI y/and TAF | MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SEZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| VERACRUZ | MMVR | METAR/SPECI y/and TAF | MZBZYMIX SLZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGYMYX MHTGMYX MNMGYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MYNNYMYX SCZZMAMX SKZZMAMX SEZZMAMZ SPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| VILLAHERMOSA | MMVA | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| ZACATECAS | MMZC | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| NETHERLANDS ANTILLES (NETHERLANDS) | | | |
| BONAIRE/FLAMINGO | TNCB | METAR/SPECI y/and TAF | SYZZMAMX MTPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| CURACAO/AEROPUERTO HATO | TNCC | METAR/SPECI y/and TAF | TAPAMYX MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMYX SEZZMAMX TFFFYMYX TFFRYMYX MGGTYMYX SYZZMAMX MTPPYMYX MKJPYMYX MPZZMAMX TJSJYMYX SMZZMAMX TTTPPYMYX SVZZMAMXSBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MROCYMYX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| ST. EUSTATIUS/F.D ROOSEVELT | TNCE | METAR/SPECI y/and TAF | SKZZMAMX TJSJYMYX TKPKYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| ST. MAARTEN/PRINCESS JULIANA | TNCM | METAR/SPECI y/and TAF | SAZZMAMX TAPAMYX TBPBYMYX MDSDYMYX TFFFYMYX TFFRYMYX TJSJYMYX TKPKYMYX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| NICARAGUA | | | |
| MANAGUA//MANAGUA | MNMG | METAR/SPECI y/and TAF | MZBZYMIX SKZZMAMX MROCYMYX MUHAYMYX MDSDYMYX MSSSYMYX MGGYMYX MHTGMYX MMMXYMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TJSJYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| PUERTO CABEZAS/ZELAYA | MNPC | METAR/SPECI y/and TAF | MROCYMYX MUHAYMYX MHTGMYX MPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| PANAMA | | | |
| BOCAS DEL TORO/BOCAS DEL TORO | MPBO | METAR/SPECI | SBBRZYX KWBCYMYX EGZZMSAM |
| CHANGUINOLA/MANUEL NINO | MPCH | METAR/SPECI | SBBRZYX KWBCYMYX EGZZMSAM |
| DAVID/ENRIQUE MALEK | MPDA | METAR/SPECI y/and TAF | TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTTPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| PANAMA/MARCOS A. GELABERT | MPMG | METAR/SPECI y/and TAF | TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTTPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| PANAMA/TOCUMEN | MPTO | METAR/SPECI y/and TAF | TNCAYMYX MYNNYMYX SLLZZMAMX MWCRYMYX SKZZMAMX MRCOYMYX MUHAYMYX MDSDYMYX SEZZMAMX MGGTYMYX MHTGMYX MKJPYMYX MMMXYMYX TNCCYMYX MNMGYMYX SPZZMAMX TJSJYMYX TTTPPYMYX |

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|---------------------------------------|--------------------------|--|---|
| | | | SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MSSSYMYX MTPPYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| PARAGUAY | | | |
| ASUNCION/S.PETTIROSSI | SGAS | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SCZZMAMX MMMXYMYX MPZZMAMX SPZZMAMX SUZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| CIUDAD DEL ESTE/GUARANI | SGES | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| PERU | | | |
| <i>ANDAHUAYLAS</i> | <i>SPHY</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMSAM</i> |
| SPQU AREQUIPA/RODRIGUEZ BALLON | SPQU | METAR/SPECI y/and TAF | SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| <i>AYACUCHO/CORONEL FAP ALFREDO M</i> | <i>SPHO</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMSAM</i> |
| CHICLAYO/CAP. JOSE ABELARDO | SPHI | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SKZZMAMX TNCAVMYX SEZZMAMX TNCCYMYX MPZZMAMX SGZZMAMX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCAVMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TJSJYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| CUSCO/VELAZCO ASTETE | SPZO | METAR/SPECI y/and TAF | SLZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| IQUITOS/CORONEL FAP FRANCIS | SPQT | METAR/SPECI y/and TAF | SKZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | MWCRYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| JULIACA | SPJL | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| LIMA-CALLAO/INTL JORGE CHAVE | SPIM | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCAVMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TNCCYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| PISCO | SPSO | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX MWCRYMYX MROCYMYX MUHAYMY SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| <i>PTO. MALDONADO/PADRE ALDAMIZ</i> | <i>SPTU</i> | <i>METAR/SPECI</i> | <i>SBBRZYX KWBCYMYX EGZZMSAM</i> |
| TACNA/CORONEL FAP CARLOS CI | SPTN | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX MUHAYMY SBBRZYX KWBCYMYX EGZZMSAM |
| SPYL TALAR/CAPITAN MONTES | SPYL | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| TRUJILLO/CAPITAN CARLOS MART | SPRU | METAR/SPECI y/and TAF | SLZZMAMX SCZZMAMX SKZZMAMX SEZZMAMX MPZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCAVMYX MWCRYMYX MROCYMYX MUHAYMY MMMXYMYX TNCCYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| TUMBES/PEDRO CANGA | SPME | METAR/SPECI | SBBRZYX KWBCYMYX EGZZMSAM |
| PUERTO RICO (UNITED STATES) | | | |
| AGUADILLA/RAPHAEL HERNANDE | TJBQ | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| FAJARDO/DIEGO JIMENEZ TORRE | TJFA | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| <i>MAYAGUEZ/EUGENIO MARIA DE HOST</i> | <i>TJMZ</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| PONCE/MERCEDITA, PR. | TJPS | METAR/SPECI y/and TAF | TQPFYMYX TAPAYMYX TBPBYMYX SKZZMAMX TDPPDMYX MDSDMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TKPKYMYX TUPJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TNCAYMYX MROCYMYX SEZZMAMX MGGTYMYX MUHAYMY TJSJYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| <i>ROOSEVELT ROADS NAS.PR.</i> | <i>TJNR</i> | <i>METAR/SPECI y/and TAF</i> | <i>SBBRZYX KWBCYMYX EGZZMCAR</i> |
| SAN JUAN/LUIS MUÑOZ MARIN INT | TJSJ | METAR/SPECI y/and TAF | TQPFYMYX TAPAYMYX TNCAVMYX TBPBYMYX SKZZMAMX MUHAYMYX TDPPDMYX MDSDMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX MMMXYMYX TNCCYMYX MPZZMAMX TKPKYMYX TUPJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | SAZZMAMX MROCYMYX SEZZMAMX SOZZMAMX MGGTYMYX MHTGMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| VIEQUES, ISLA DE VIEQUES, PR. | TJVQ | METAR/SPECI y/and TAF | TQPFYMYX TAPAYMYX TBPBYMYX SKZZMAMX TDPPDMYX MDSDMYX TFFFYMYX TFFRYMYX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TKPKYMYX TUPJYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TNCAYMYX MROCYMYX SEZZMAMX MGGTYMYX MMMXYMYX TJSJYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| SAINT KITTS AND NEVIS | | | |
| ROBERT L. BRADSHAW, ST. CHRIS | TKPK | METAR/SPECI y/and TAF | TQPFYMYX TAPAYMYX TFFFYMYX TFFRYMYX TRPMYMYX TNCCYMYX TJSJYMYX TTTPYMYX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| VANCE WINKWORTH AMORY, ST. | TKPN | METAR/SPECI y/and TAF | TQPFYMYX TNCCYMYX TJSJYMYXSBBRZYX 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 |
|---|--------------------------|--|--|
| SAIN T LUCIA | | | |
| GEORGE CHARLES, SAINT LUCIA | TLPC | METAR/SPECI y/and TAF | TAPAYMYX TBPBYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX TJSJYMYX TVSVYMYX TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| HEWANORRA SAINT LUCIA | TLPL | METAR/SPECI y/and TAF | TAPAYMYX TBPBYMYX MZBZMYX SKZZMAMX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX TPPYMYX MKJPYMYX TNCCYMYX TJSJYMYX TKPKYMYX TPPYMYX SVZZMAMX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MROCYMYX MGTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| SAINT VINCENT AND THE GRENADINES | | | |
| CANOUAN,ST.VINCENT AND THE | TVSC | METAR/SPECI y/and TAF | TBPBYMYX MZBZMYX TFFFYMYX TFFRYMYX TGPGYMYX TLPLYMYX TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| E.T.JOSHUA,ST.VINCENT, AND TH | TVSV | METAR/SPECI y/and TAF | TBPBYMYX MZBZMYX TFFFYMYX TFFRYMYX TGPGYMYX TLPLYMYX TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| J.F. MITCHELL,BEQUIA ST.VINCEN | TVSB | METAR/SPECI y/and TAF | SYZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| MUSTIQUE,ST.VINCENT AND THE | TVSM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| UNION ISLAND,ST.VINCENT AND T | TVSU | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMCAR |
| SURINAME | | | |
| J.A. PENGEL INTL.AIRP | SMJP | METAR/SPECI y/and TAF | TBPBYMYX SKZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX SYZZMAMX TNCCYMYX TJSJYMYX TPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SEZZMAMX TPPYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| NICKERIE/MAJ. FERNANDES | SMNI | METAR/SPECI y/and TAF | TBPBYMYX SKZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX SYZZMAMX TNCCYMYX TJSJYMYX TPPYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SEZZMAMX TPPYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| ZORG EN HOOP | SMZO | METAR/SPECI y/and TAF | SYZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| TRINIDAD AND TOBAGO | | | |
| CROWN POINT,TOGAGO | TTCP | METAR/SPECI y/and TAF | TAPAYMYX TBPBYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX TNCCYMYX TKPKYMYX TLPLYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| PIARCO,TRINIDAD | TPPP | METAR/SPECI y/and TAF | TAPAYMYX TBPBYMYX SKZZMAMX MDSDYMYX TFFFYMYX TFFRYMYX TGPGYMYX SYZZMAMX TPPYMYX MKJPYMYX TNCCYMYX TJSJYMYX TKPKYMYX TLPLYMYX TVSVYMYX SMZZMAMX SVZZMAMX TUPJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | TNCAYMYX MSSYMYX SOZZMAMX MGTYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMCAR |
| TURKS AND CAICOS IS. (UK) | | | |
| GRAND TURK | MBGT | METAR/SPECI y/and TAF | SMDSDYMYX TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| PROVIDENCIALES | MBPV | METAR/SPECI y/and TAF | TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| | | TAF | MYNNYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| SOUTH CAICOS | MBSC | METAR/SPECI y/and TAF | TPPYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| URUGUAY | | | |
| COLONIA/INTL "LAGUNA DE LOS P | SUCA | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MALDONADO/ INTL C/C CARLOS A. | SULS | METAR/SPECI y/and TAF | SAZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MONTEVIDEO/AD ANGEL S. ADAMI | SUAA | METAR/SPECI y/and TAF | SAZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MONTEVIDEO/INTL.CARRASCO "G | SUMU | METAR/SPECI y/and TAF | SAZZMAMX SLZZMAMX SCZZMAMX SGZZMAMX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SKZZMAMX MUHAYMY MMMXYMYX SVZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| RIVERA/INTL. PRESIDENTE GENE | SURV | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SALTO/INTL.NUEVA HESPERIDES | SUSO | METAR/SPECI y/and TAF | SGZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| VE NEZUELA | | | |
| ACARIGUA, PORTUGUESA | SVAC | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| B. A. GENERALISIMO FRANCISCO DE MIRANDA | SVFM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| BARCELONA, ANZOATEGUI | SVBC | METAR/SPECI y/and TAF | TPPYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| BARINAS, BARINAS | SVBI | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| BARQUISIMETO, LARA | SVBM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| CALABOZO, GUARICO | SVCL | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| CIUDAD BOLIVAR, BOLIVAR | SVCB | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| CORO, FALCON | SVCR | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| CUMANA, SUCRE | SVCU | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| GUANARE, PORTUGUESA | SVGU | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| GUIRIA, SUCRE | SVGI | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| HIGUERO TE, MIRANDA | SVHG | METAR/SPECI y/and TAF | SBBRZYX 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 TNCAVAMYX MYNNYMYX TBPBYMYX SLZZMAMX SKZZMAMX MUHAYMYX TDPPDYMIX MDSDYMIX SEZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX TGPGYMYX SYZZMAMX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX TKPKYMYX TLPLYMYX SMZZMAMX TPPPYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MGGBTYMYX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MARACAIBO, ZULIA | SVMC | METAR/SPECI y/and TAF | TNCAVAMYX MYNNYMYX SKZZMAMX MUHAYMYX MDSDYMIX SEZZMAMX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SLZZMAMX MGGBTYMYX MMMXYMYX SPZZMAMX MGGBTYMYX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| MARGARITA, NUEVA ESPARTA | SVMG | METAR/SPECI y/and TAF | TBPBYMYX SKZZMAMX SEZZMAMX TFFFYMYX TFFRYMYX TNCCYMYX MPZZMAMX TJSJYMYX SMZZMAMX TPPPYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX TNCAVAMYX MGGBTYMYX MMMXYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| MATURÍN, MONAGAS | SVMT | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| MERIDA, MERIDA | SVMD | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| PARAGUANA, JOSEFA CAMEJO, F | SVJC | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| PUERTO AYACUCHO, AMAZONAS | SVPA | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| SAN ANTONIO, TACHIRA | SVSA | METAR/SPECI y/and TAF | MPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| SAN FERNANDO DE APURE, APURE | SVSR | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| SAN JUAN DE LOS MORROS, GUARICO | SVJM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| SANTO DOMINGO, B.A.MAYOR BUENAVENTURA | SVSO | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| TUMEREMO, BOLIVAR | SVTM | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| VALENCIA, CARABOBO | SVVA | METAR/SPECI y/and TAF | TAPAYMYX TNCAVAMYX MYNNYMYX TBPBYMYX SLZZMAMX SKZZMAMX MUHAYMYX TDPPDYMIX MDSDYMIX SEZZMAMX TFFFYMYX TFFRYMYX SOZZMAMX TGPGYMYX SYZZMAMX MTPPYMYX MKJPYMYX TNCCYMYX MPZZMAMX TJSJYMYX TKPKYMYX TLPLYMYX SMZZMAMX TPPPYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMSAM |
| | | TAF | SAZZMAMX SCZZMAMX MGGBTYMYX MMMXYMYX SPZZMAMX SBBRZYX KWBCYMYX EGZZMSAM |
| VALLE DE LA PASCUA, GUARICO | SVVP | METAR/SPECI y/and TAF | SBBRZYX KWBCYMYX EGZZMSAM |
| VIRGIN ISLANDS (UNITED KINGDOM) | | | |
| ROADTOWN | TUPJ | METAR/SPECI y/and TAF | TJSJYMYX TKPKYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| VIRGIN GORDA i. | TUPW | METAR/SPECI y/and TAF | TJSJYMYX TISTYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| VIRGIN ISLANDS (UNITED STATES) | | | |
| CHARLOTTE AMALIE ST. THOMAS/ | TIST | METAR/SPECI y/and TAF | TJSJYMYX TKPKYMYX SBBRZYX KWBCYMYX EGZZMCAR |
| HENRY.E.ROHLSSEN | TISX | METAR/SPECI y/and TAF | TJSJYMYX SBBRZYX KWBCYMYX EGZZMCAR |

**FASID TABLE MET 1A - METEOROLOGICAL SERVICE REQUIRED AT AERODROMES****EXPLANATION OF THE TABLE****Column**

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

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

- 2 ICAO location indicator of the aerodrome

- 3 Designation of aerodrome:

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

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

- 5 ICAO location indicator of the responsible meteorological office

- 6 Requirement for trend forecasts

Y - Required

- 7 Requirement for aerodrome forecasts in TAF code

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

- 8 Availability of OPMET information

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



MET 1A - ANP/FASID Region - CARSAM

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



MET 1A - ANP/FASID Region - CARSAM

| Aerodrome where service is to be provided | | | Responsible MET Office | | | Forecasts to be provided | | Availability of OPMET |
|--|------------------------------|----------|--|------------------------------|---------|--------------------------|---|-----------------------|
| AeroName 1 | ICAO Location Indicator 2 | Use 3 | Name 4 | ICAO Location Indicator 5 | TR 6 | TAF 7 | 8 | |
| MARSH HARBOUR | MYAM | RS | NASSAU INTERNATIONAL | MYNN | | | | N |
| NASSAU INTERNATIONAL | MYNN | RS | NASSAU INTERNATIONAL | MYNN | | | | 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 | | | | |
| BELO HORIZONTE/TANCREDO NEVES,MG | SBCF | RS | RIO DE JANEIRO/GALEAO-ANTONIO CARLOS JOBIM, RJ | SBGL | | | | |
| BOA VISTA/BOA VISTA, RR | SBBV | RS | AMAZONICA/FIR | SBAZ | | | | |
| BRASILIA/PRES. JUSCELINO KUBITSCHEK, DF | SBBR | RS | BRASILIA/FIR | SBBS | | | | |
| CAMPINAS/VIRACOPOS,SP | SBKP | RS | SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP | SBGR | | | | |
| CAMPO GRANDE/CAMPO GRANDE, MS | SBCG | RS | PORTO ALEGRE/SALGADO FILHO, RS | SBPA | | | | |
| CORUMBA/CORUMBA, MS | SBCR | RS | PORTO ALEGRE/SALGADO FILHO, RS | SBPA | | | | |
| CRUZEIRO DO SUL/CRUZEIRO DO SUL, AC | SBCZ | RS | AMAZONICA/FIR | SBAZ | | | | |
| CUIABA/MARECHAL RONDON, MT | SBCY | RS | BRASILIA/FIR | SBBS | | | | |
| CURITIBA/AFONSO PENA, PR | SBCT | RS | PORTO ALEGRE/SALGADO FILHO, RS | SBPA | | | | |



MET 1A - ANP/FASID Region - CARSAM

| Aerodrome where service is to be provided | | | Responsible MET Office | | | Forecasts to be provided | | Availability of OPMET |
|--|------------------------------|----------|--|------------------------------|---------|--------------------------|---|-----------------------|
| AeroName 1 | ICAO Location Indicator 2 | Use 3 | Name 4 | ICAO Location Indicator 5 | TR 6 | TAF 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. LETSOME,TORTOLA VIRGIN GORDA,B.V.I | TUPJ | RS | SAN JUAN/LUIS MUÑOZ MARIN INTERNATIONAL, PR. | TJSJ | | T | P | |
| | TUPW | RS | SAN JUAN/LUIS MUÑOZ MARIN INTERNATIONAL, PR. | TJSJ | | | N | |
| Cayman Islands (United Kingdom) GERRARD SMITH INTL/CAYMAN BRAC OWEN ROBERTS INTL/GRAND CAYMAN | MWCB | RS | MIAMI INTERNATIONAL, FL | MWCR | | T | F | |
| | MWCR | RS | OWEN ROBERTS INTL/GRAND CAYMAN | MWCR | | T | P | |
| | | | | | | | | |



MET 1A - ANP/FASID Region - CARSAM

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



MET 1A - ANP/FASID Region - CARSAM

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



MET 1A - ANP/FASID Region - CARSAM

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



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| Aerodrome where service is to be provided | | | Responsible MET Office | | | Forecasts to be provided | | Availability of OPMET |
|---|------------------------------|----------------------|--|------------------------------|---------|--------------------------|------------------|-----------------------|
| AeroName 1 | ICAO Location Indicator 2 | Use 3 | Name 4 | ICAO Location Indicator 5 | TR 6 | TAF 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 | | 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 CURACAO/AEROPUERTO HATO ST. EUSTATIUS/F.D ROOSEVELT ST. MAARTEN/PRINCESS JULIANA | TNCB TNCC TNCE TNCM | RS RS RS RS | CURACAO/AEROPUERTO HATO CURACAO/AEROPUERTO HATO CURACAO/AEROPUERTO HATO SAN JUAN/LUIS MUÑOZ MARIN INTERNATIONAL, PR. | TNCC TNCC TNCC TJSJ | | T T T T | P F P F | |



MET 1A - ANP/FASID Region - CARSAM

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



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



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

| <i>Information</i> | <i>Distributor</i> | <i>Destination</i> | <i>Frequency</i> | <i>Communications means</i> |
|--|--|---|-----------------------------|---|
| 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 WAWS) | 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 WAWS) | 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 | | | | | | | | | | | | | |
|--|-----------------------------|----------------------------------|--|------------------------|-----------------------------|------------------------------------|------------------------|-----------------------------|----|---------|----|----|----|
| 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 | TFJ | | | | | | | | | | | | |
| 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 | MGT | | | | | | | | | | | | |
| 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 | Recibido/ Received | Eficiencia/ Efficiency % | Previsto/ Foreseen ² | Recibido/ 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 | |
| Brasilia | SBBR | | | | | | | | | | | | | |
| Campinas | SBKP | | | | | | | | | | | | | |
| Campo Grande | SBCG | | | | | | | | | | | | | |
| Corumba | SBCR | | | | | | | | | | | | | |
| Cruzeiro do Sul | SBCZ | | | | | | | | | | | | | |
| Cuiaba | SBCY | | | | | | | | | | | | | |
| Curitiba | SBCT | | | | | | | | | | | | | |
| Florianopolis | 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 |
| 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 | 1100/2300 | 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 | | |

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|------------------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | 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 |

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|----------------------------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|--|--|
| | | | 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 | | |

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|-------------------------------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | 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 |

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|-------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | 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 |

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|---------------------------------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | 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 |
| TPPP | 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 |

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|-------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | 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**Africa 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

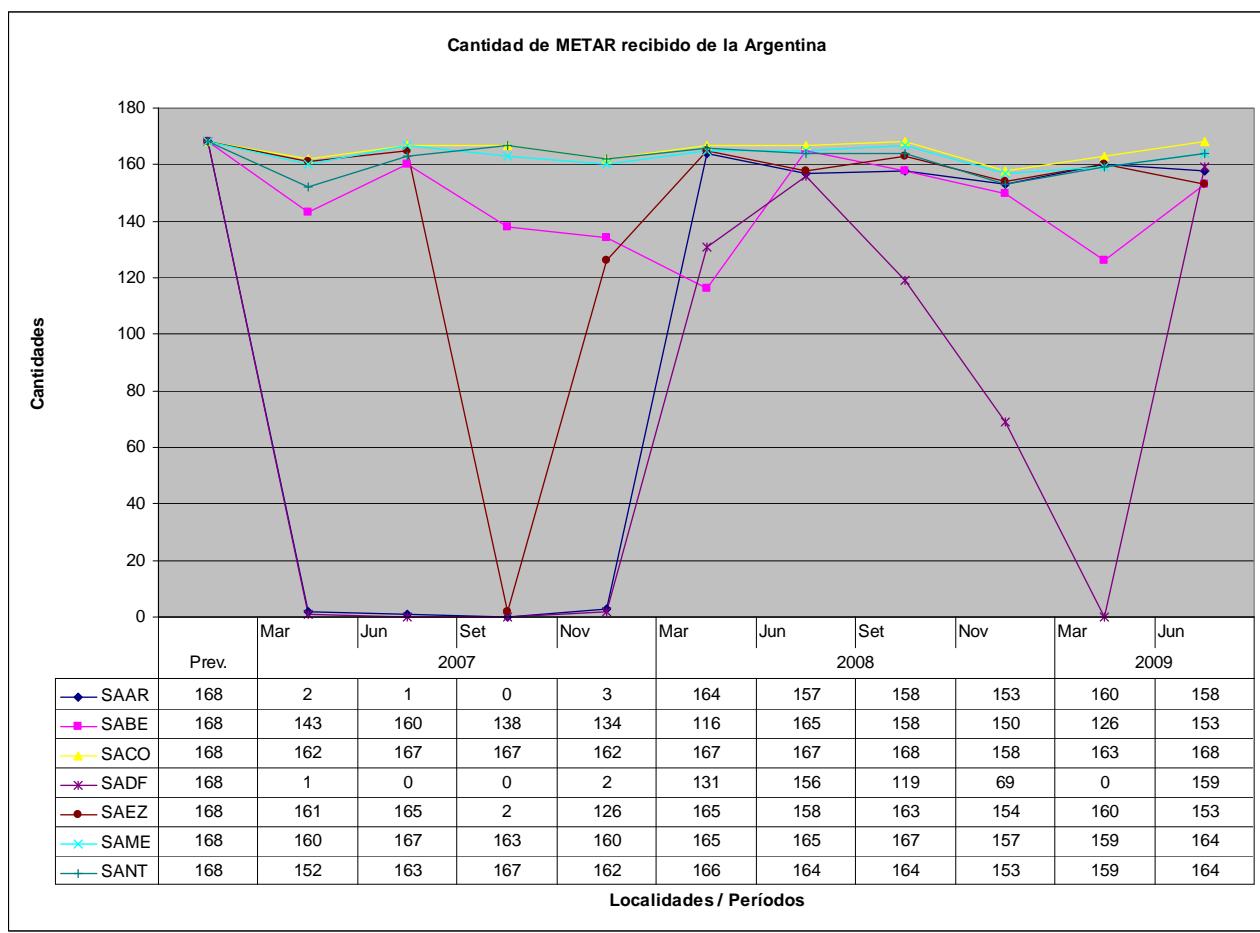
| | | | | | | | | | | | | |
|------|------|-----|---|---|---|---|-----|-----|---|-----|---|---|
| DIAP | H-24 | 168 | 1 | 3 | 8 | 0 | 154 | 168 | 0 | 166 | 0 | 0 |
|------|------|-----|---|---|---|---|-----|-----|---|-----|---|---|

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Appendix D to the Report on Agenda Item 5

5D - 9

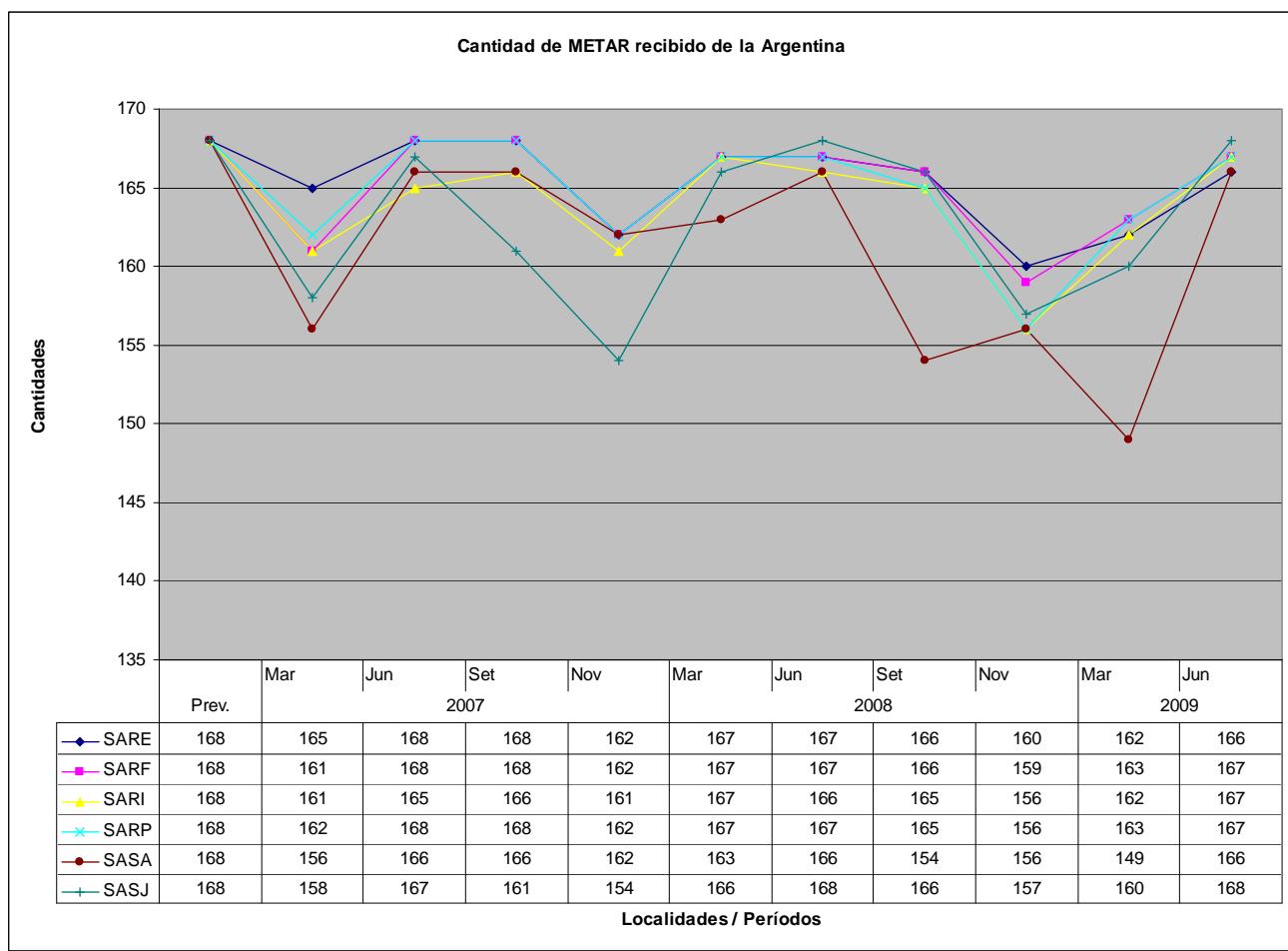
| Local | Horário de Func. | Prev. | 2007 | | | | 2008 | | | | 2009 | |
|---------------------------|------------------|-------|------|-----|-----|-----|------|-----|-----|-----|------|-----|
| | | | Mar | Jun | Set | Nov | Mar | Jun | Set | Nov | Mar | Jun |
| Ilha Ascención | | | | | | | | | | | | |
| 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 |

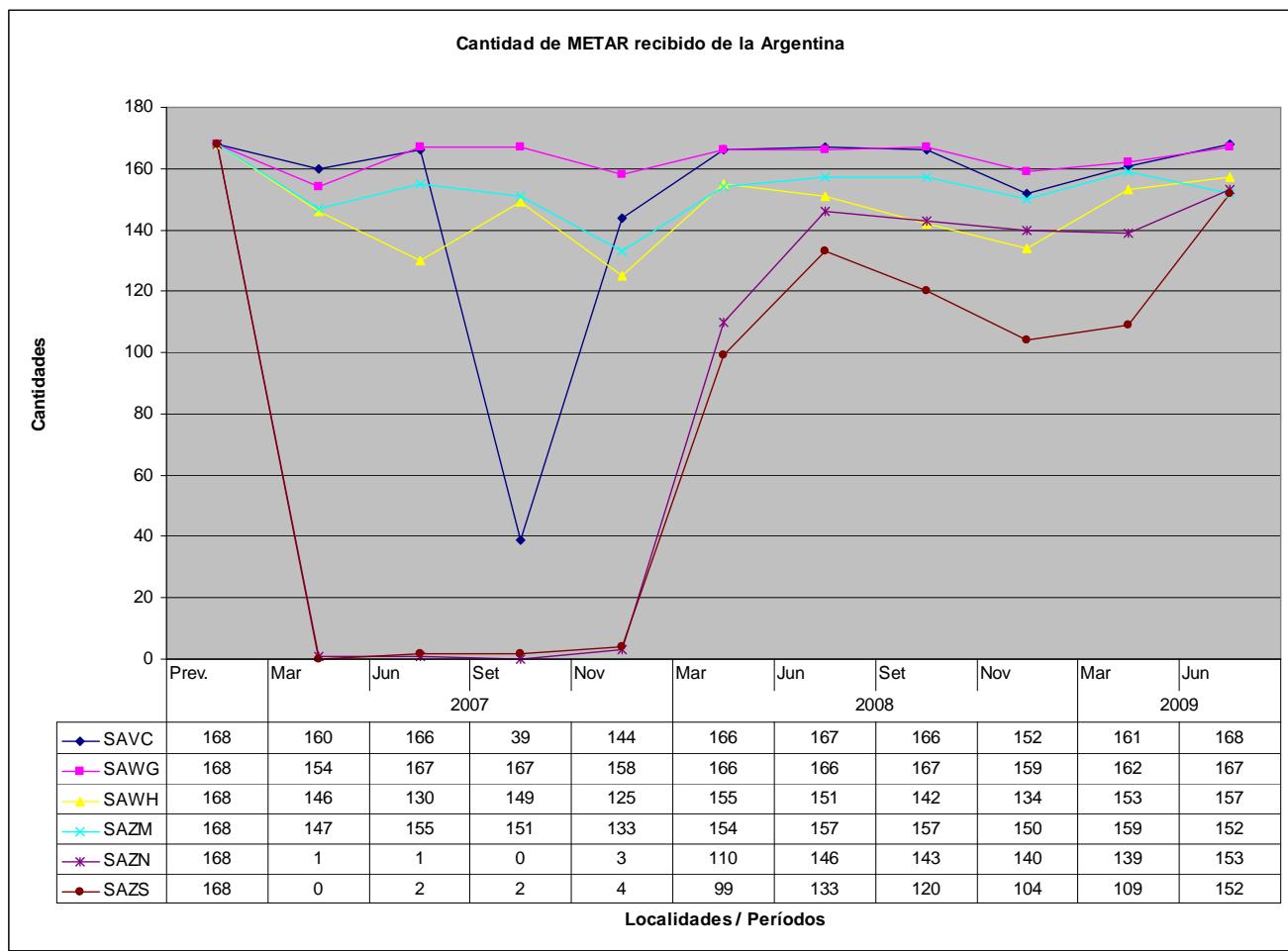
- Note:
- 1) Hours of operation were reported by ICAO.
 - 2) The hours of operation in italics were obtained in the AIP of the respective States.
 - 3) It not provides for the exchange of METAR during the period..



AERMETSG/10
Appendix E to the Report on Agenda Item 5

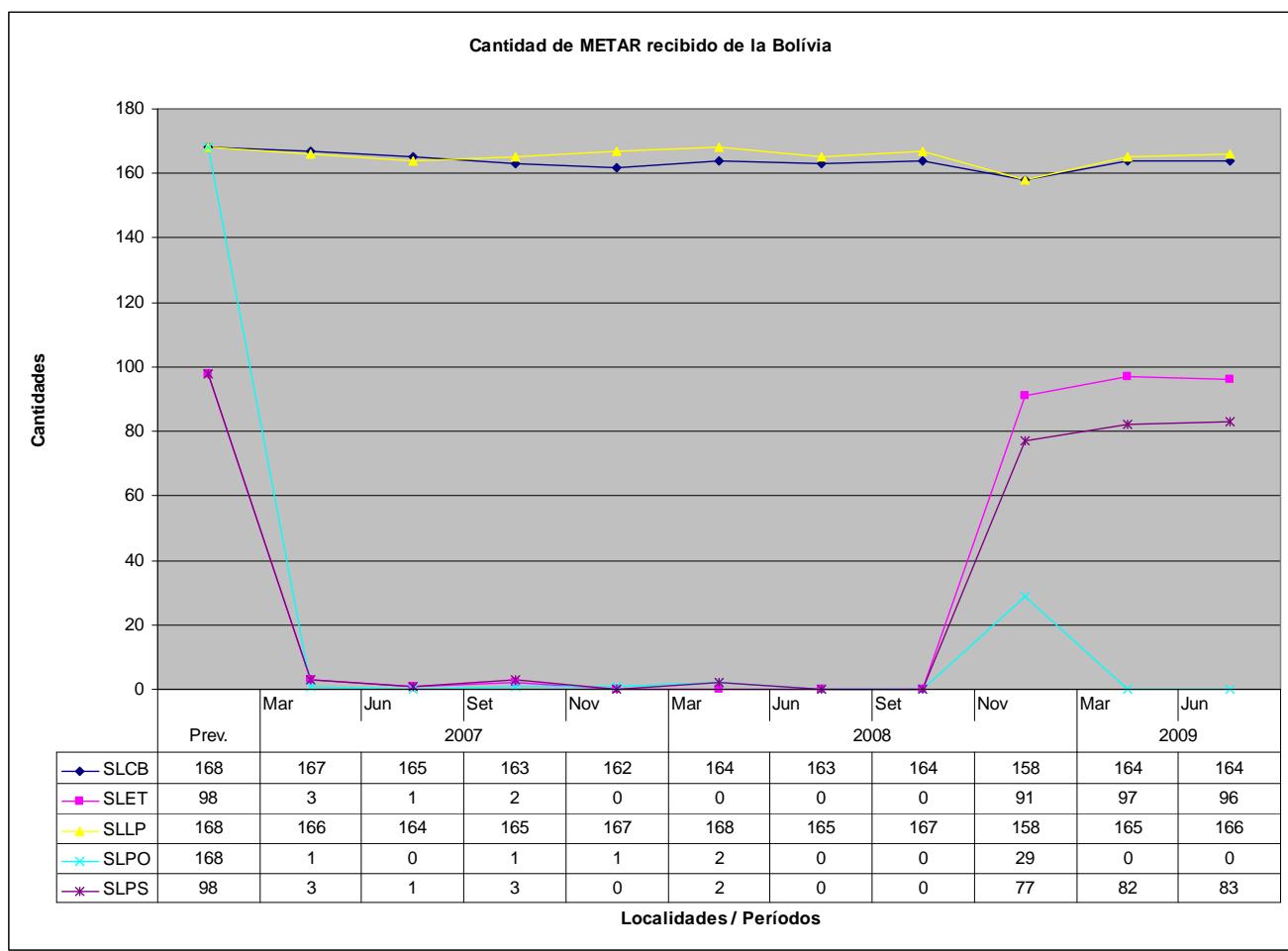
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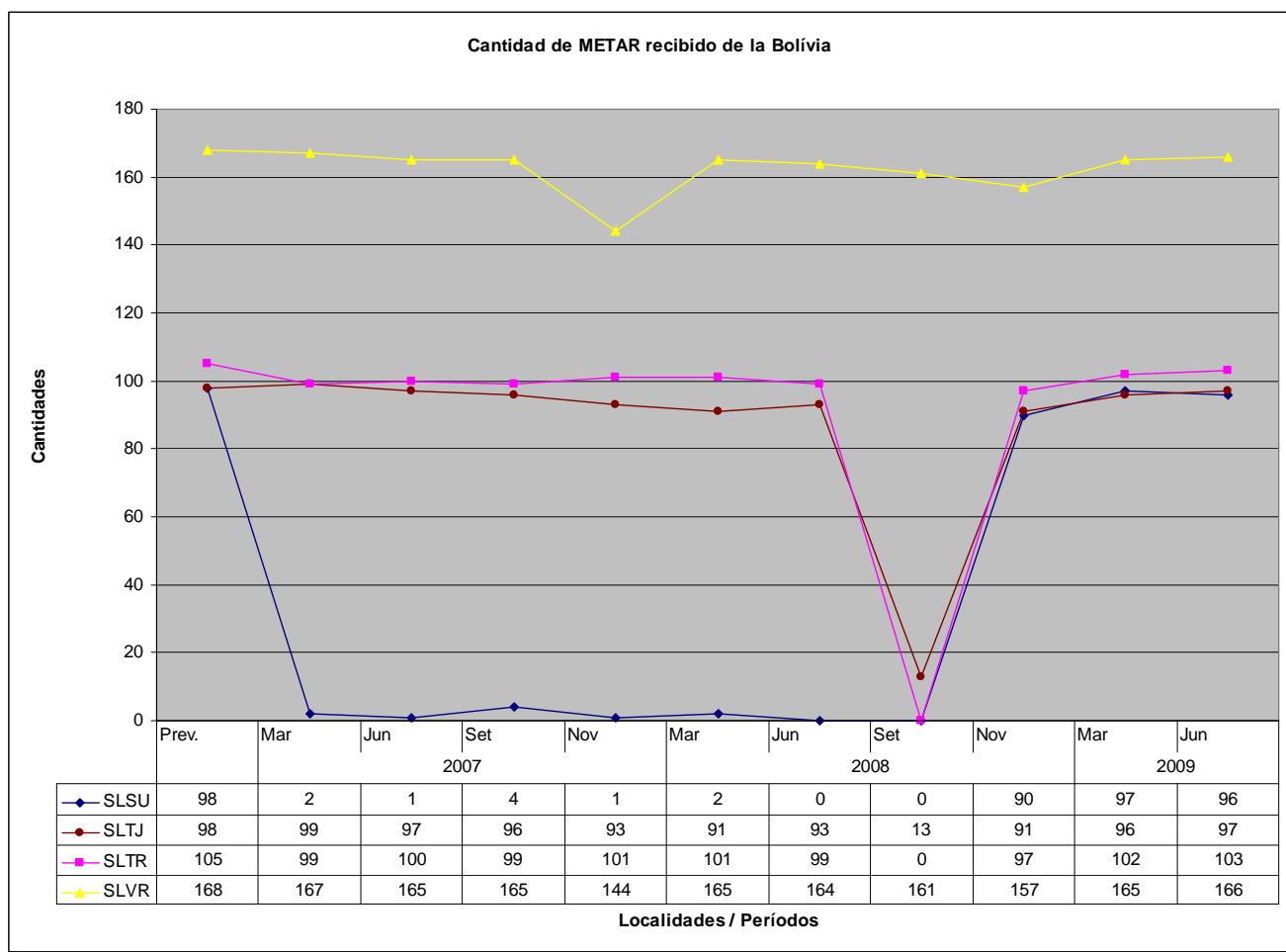


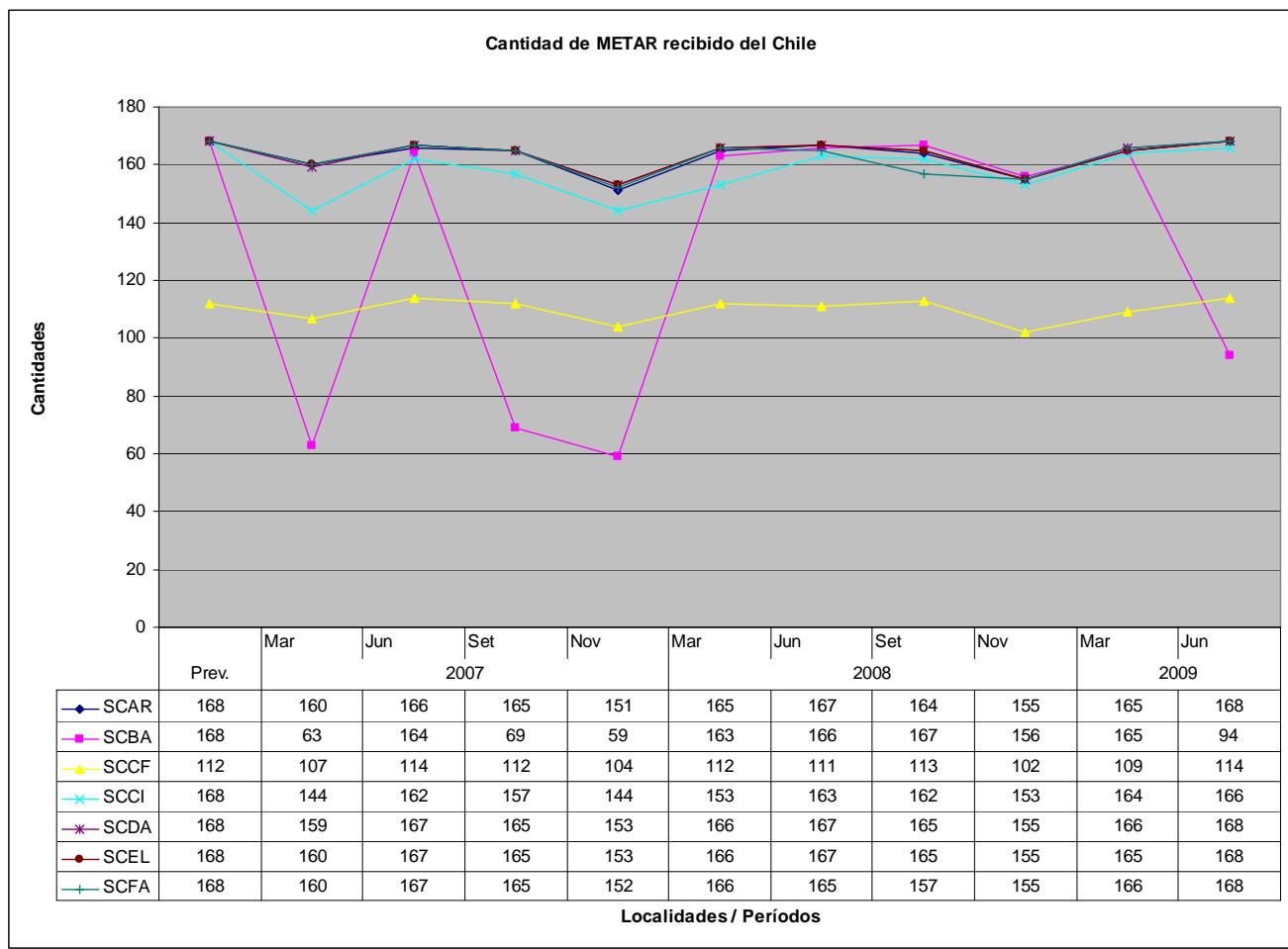


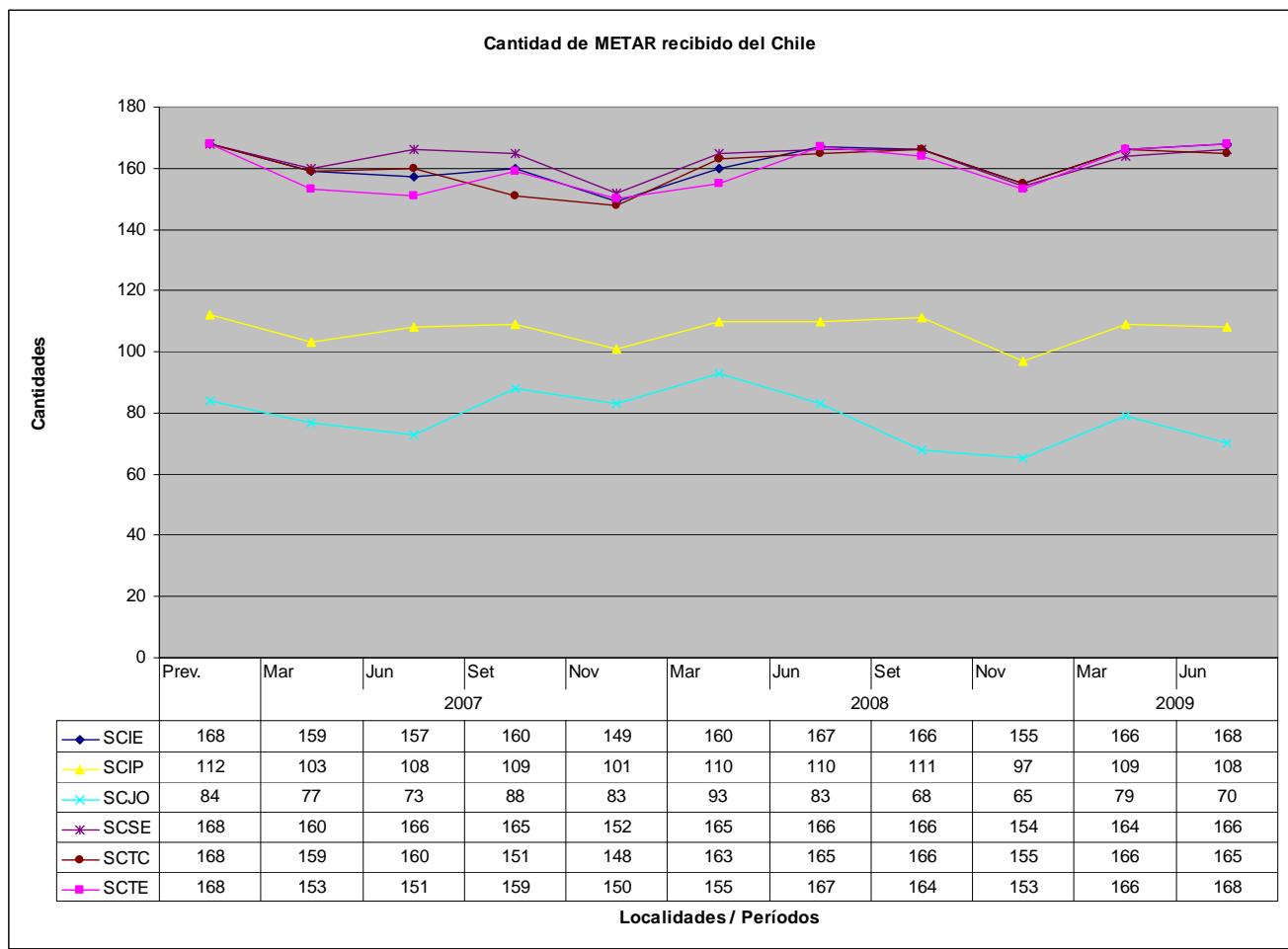
AERMETSG/10
Appendix E to the Report on Agenda Item 5

5E - 4



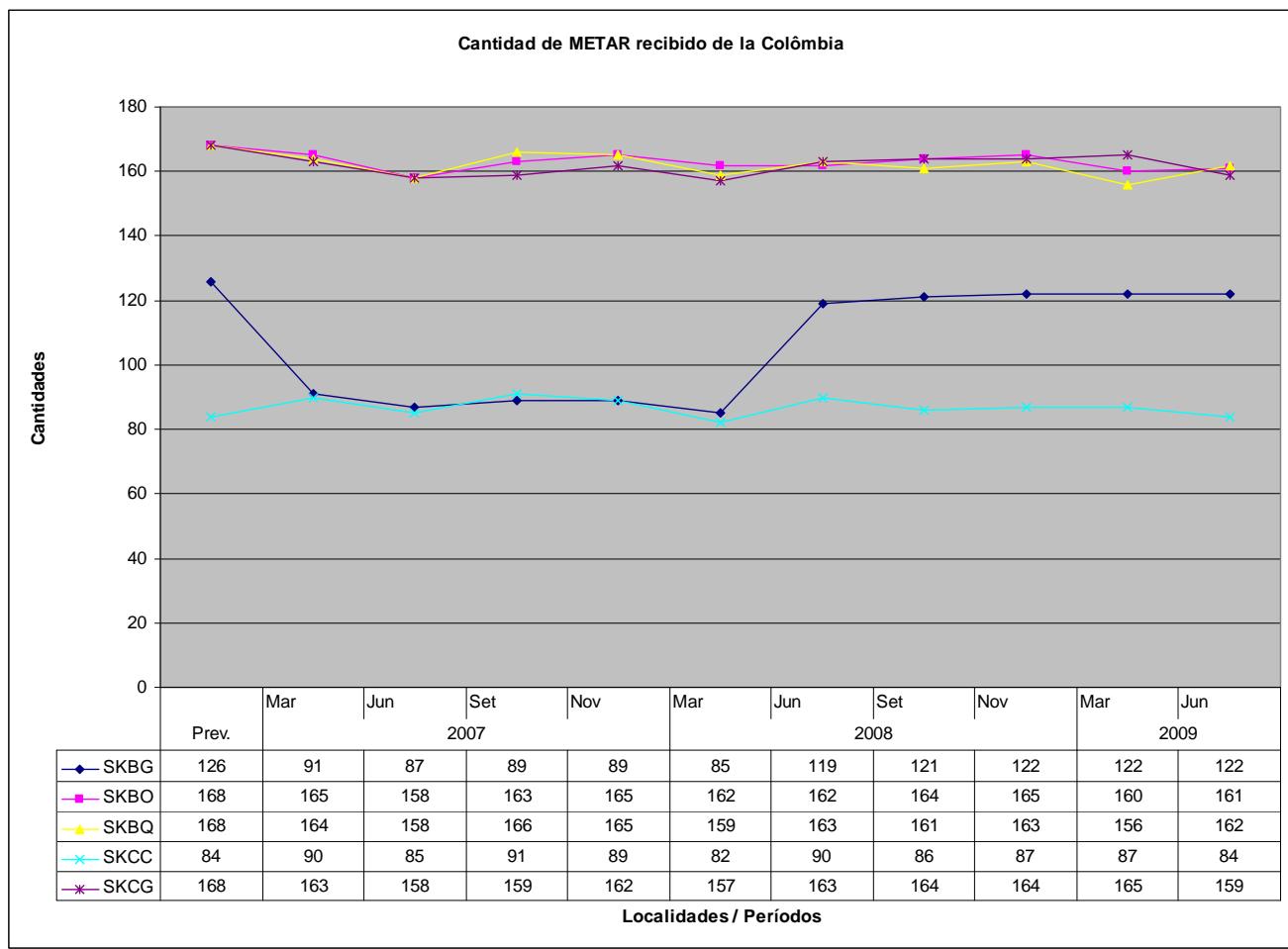


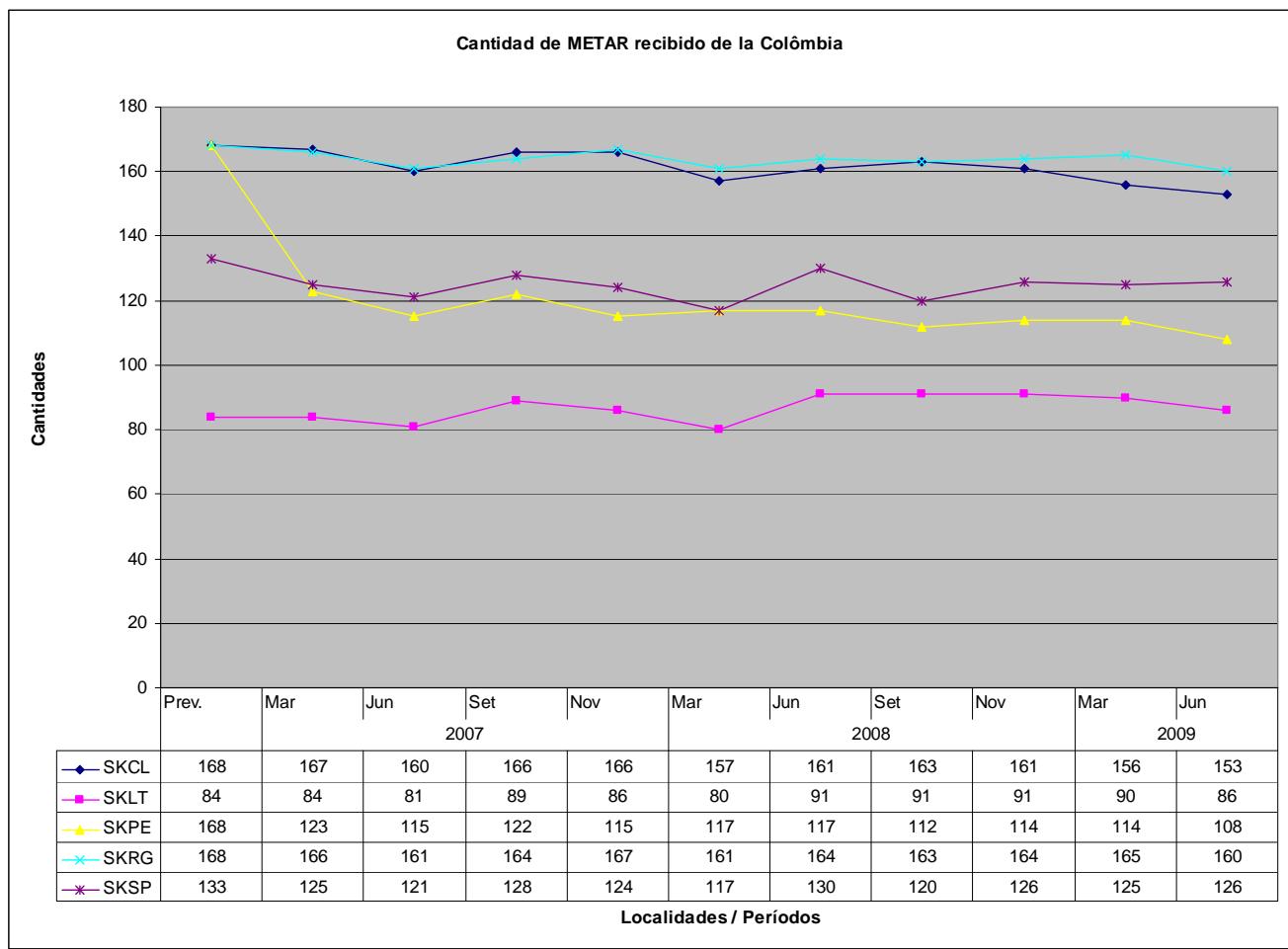




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Appendix E to the Report on Agenda Item 5

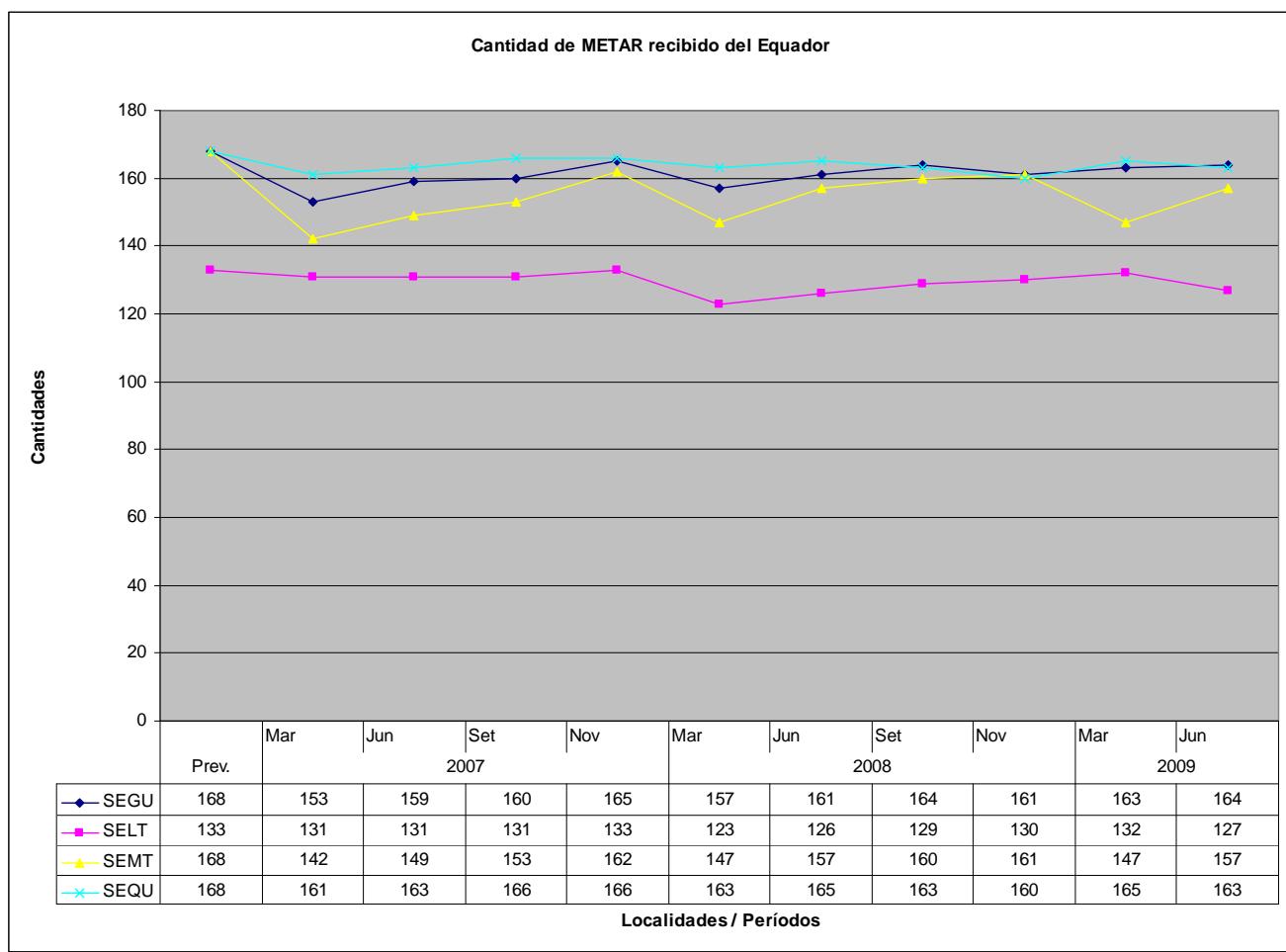
5E - 8

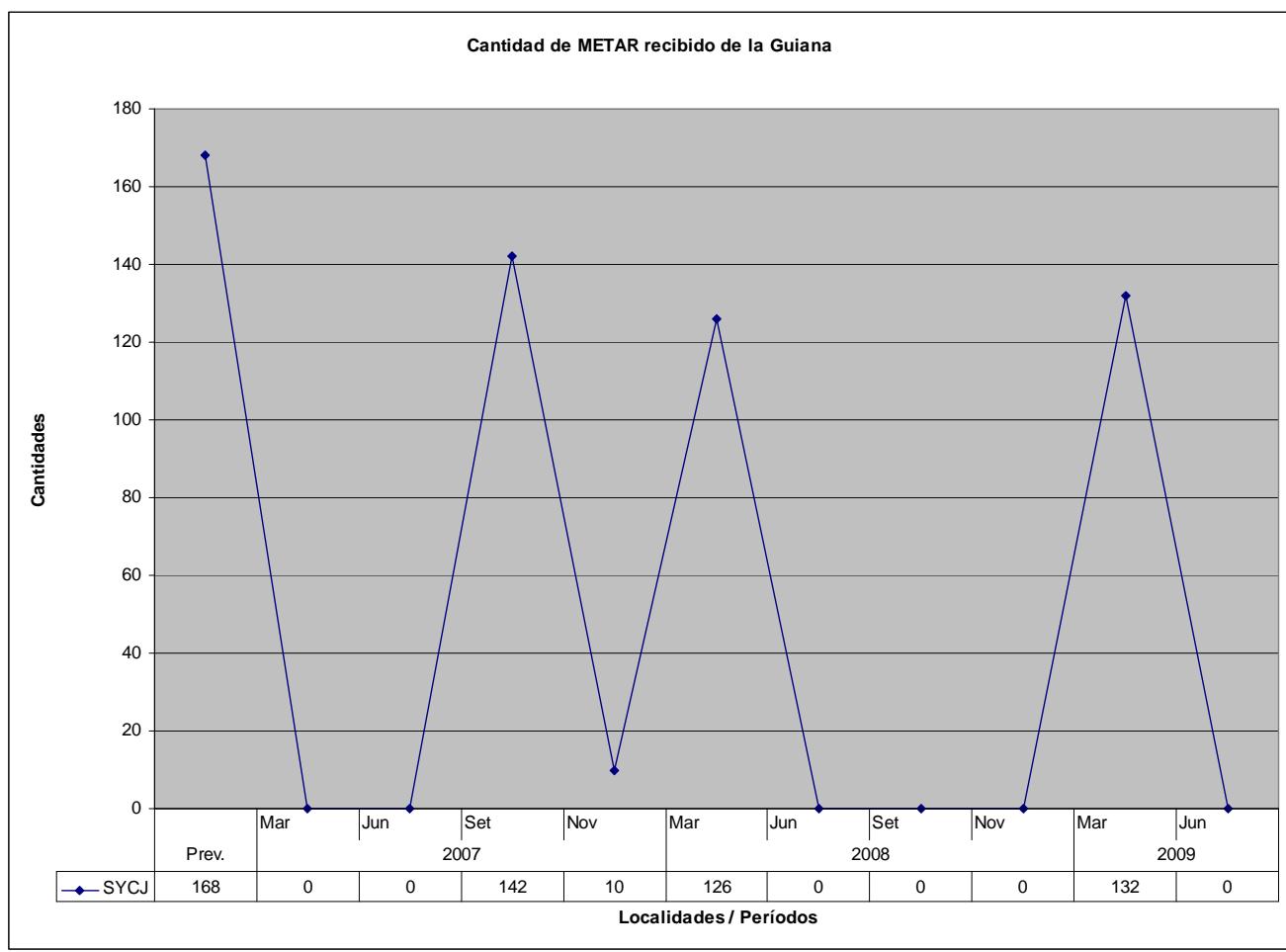




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Appendix E to the Report on Agenda Item 5

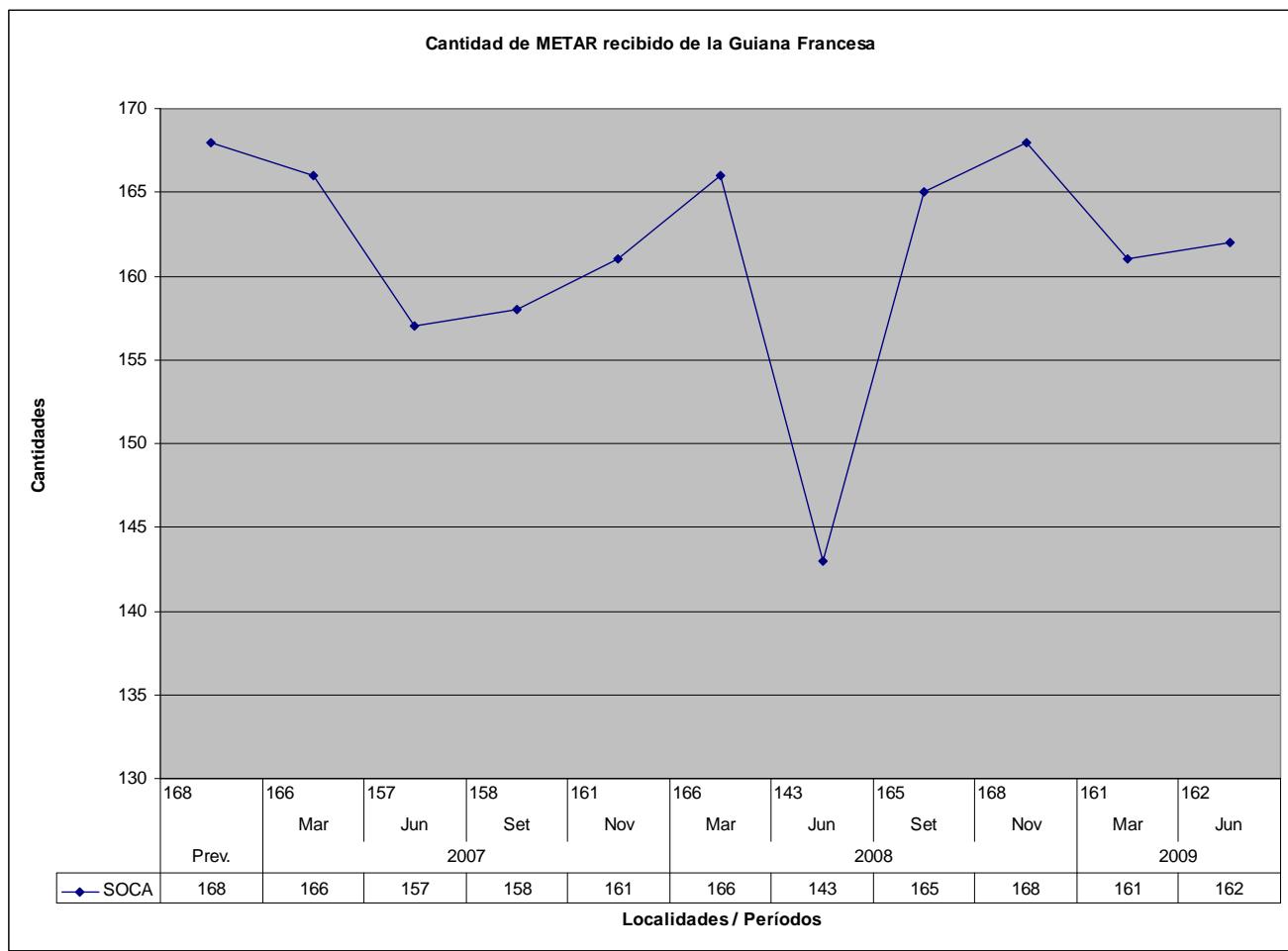
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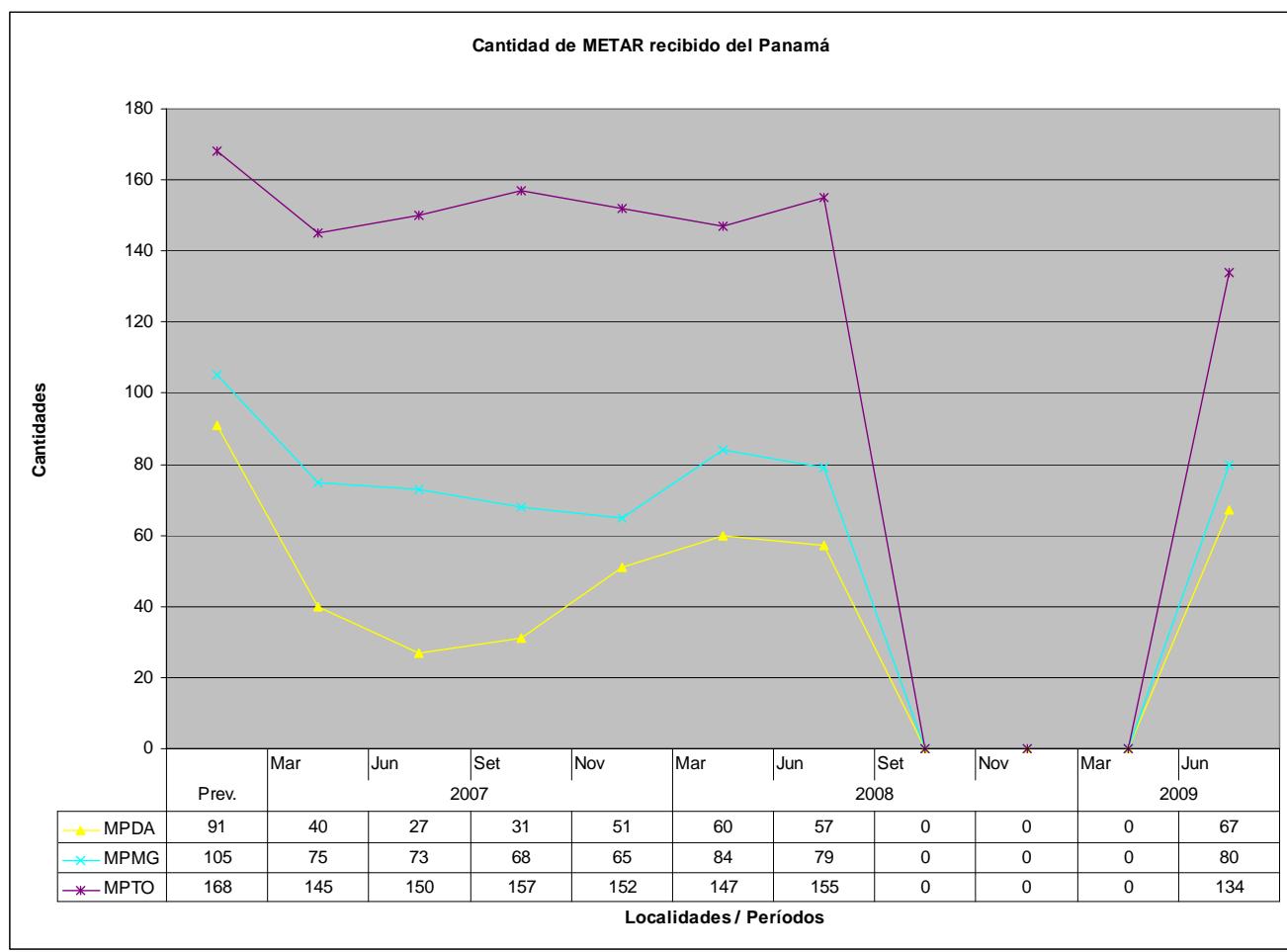




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Appendix E to the Report on Agenda Item 5

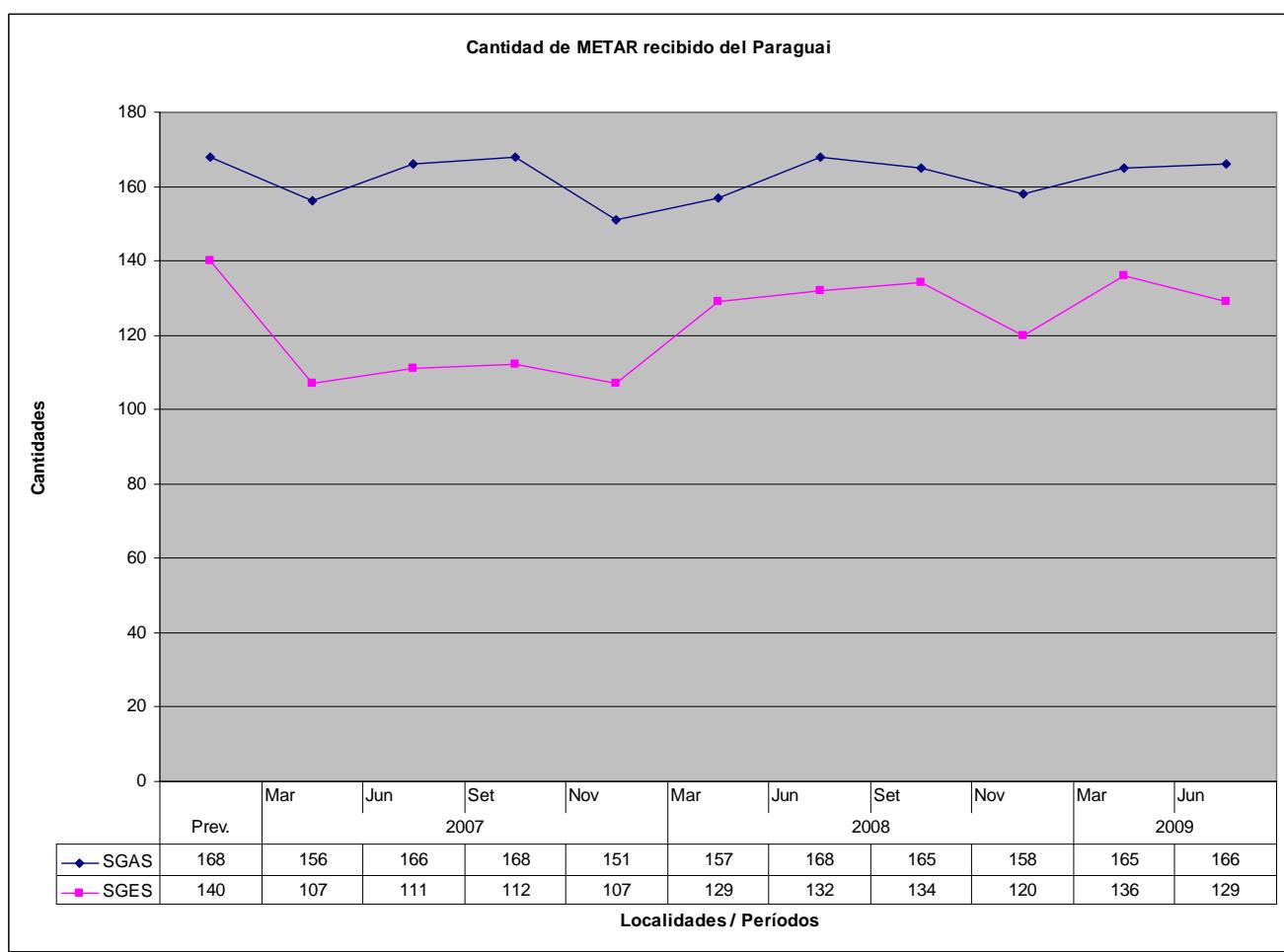
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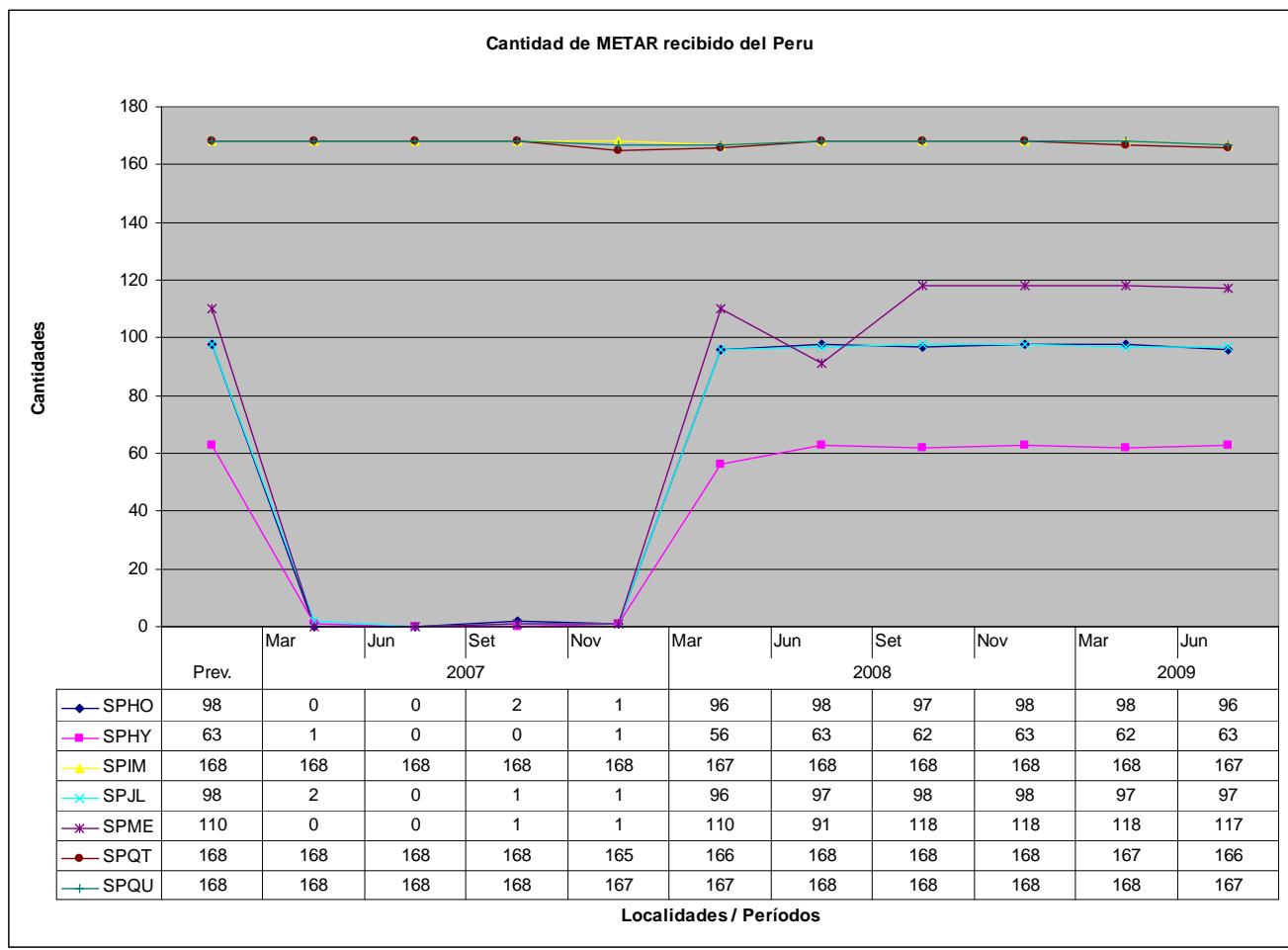




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Appendix E to the Report on Agenda Item 5

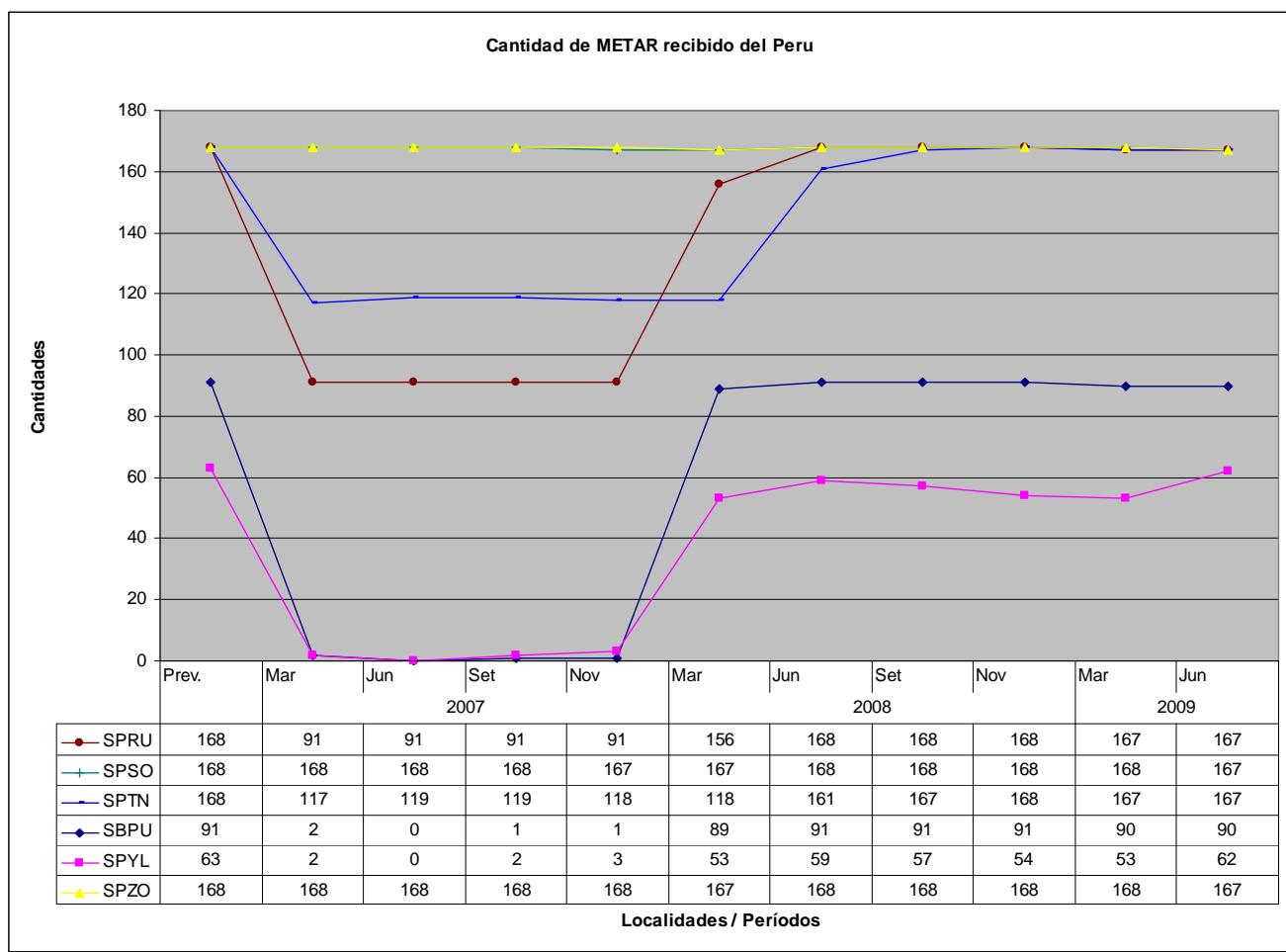
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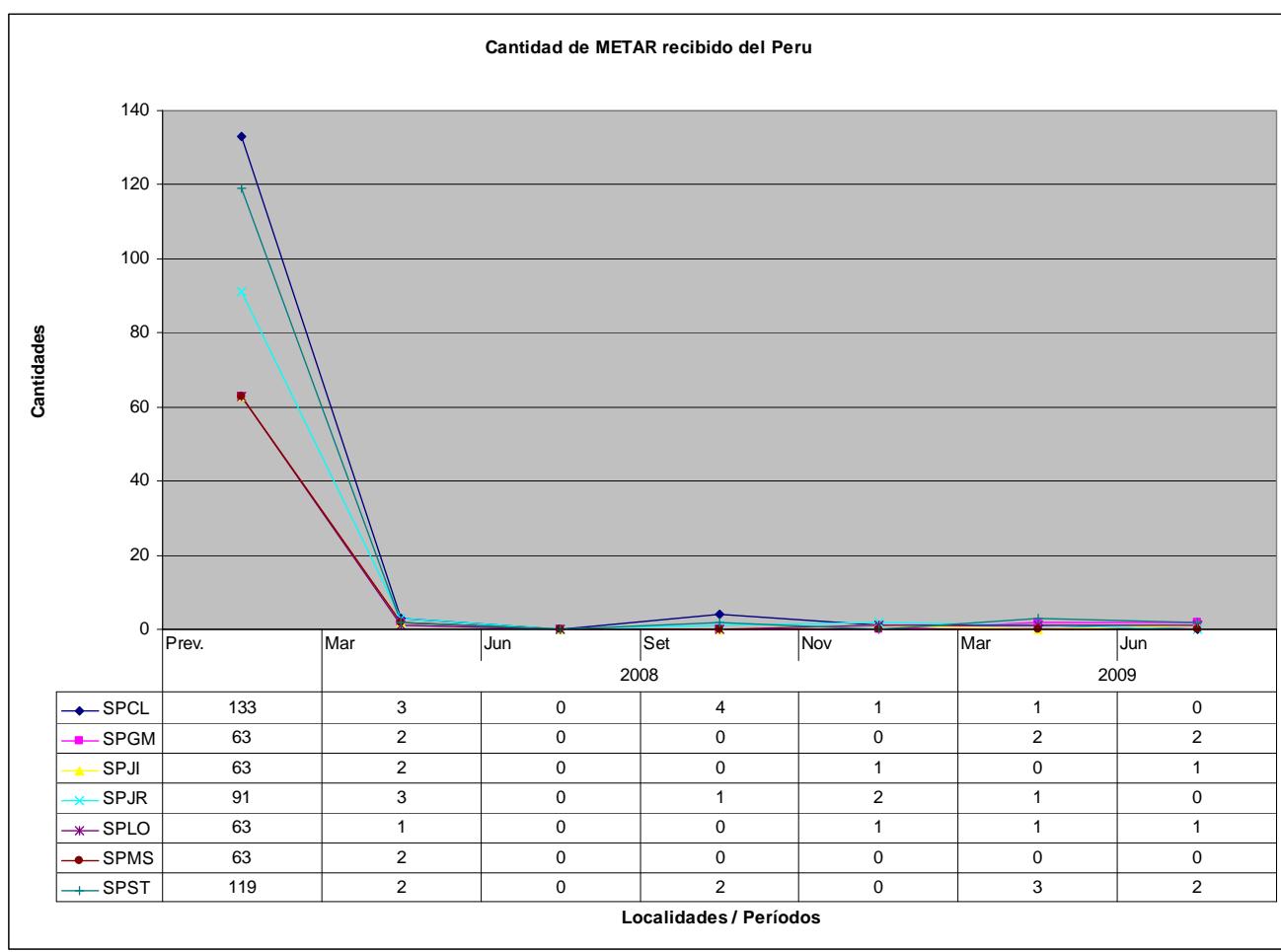




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Appendix E to the Report on Agenda Item 5

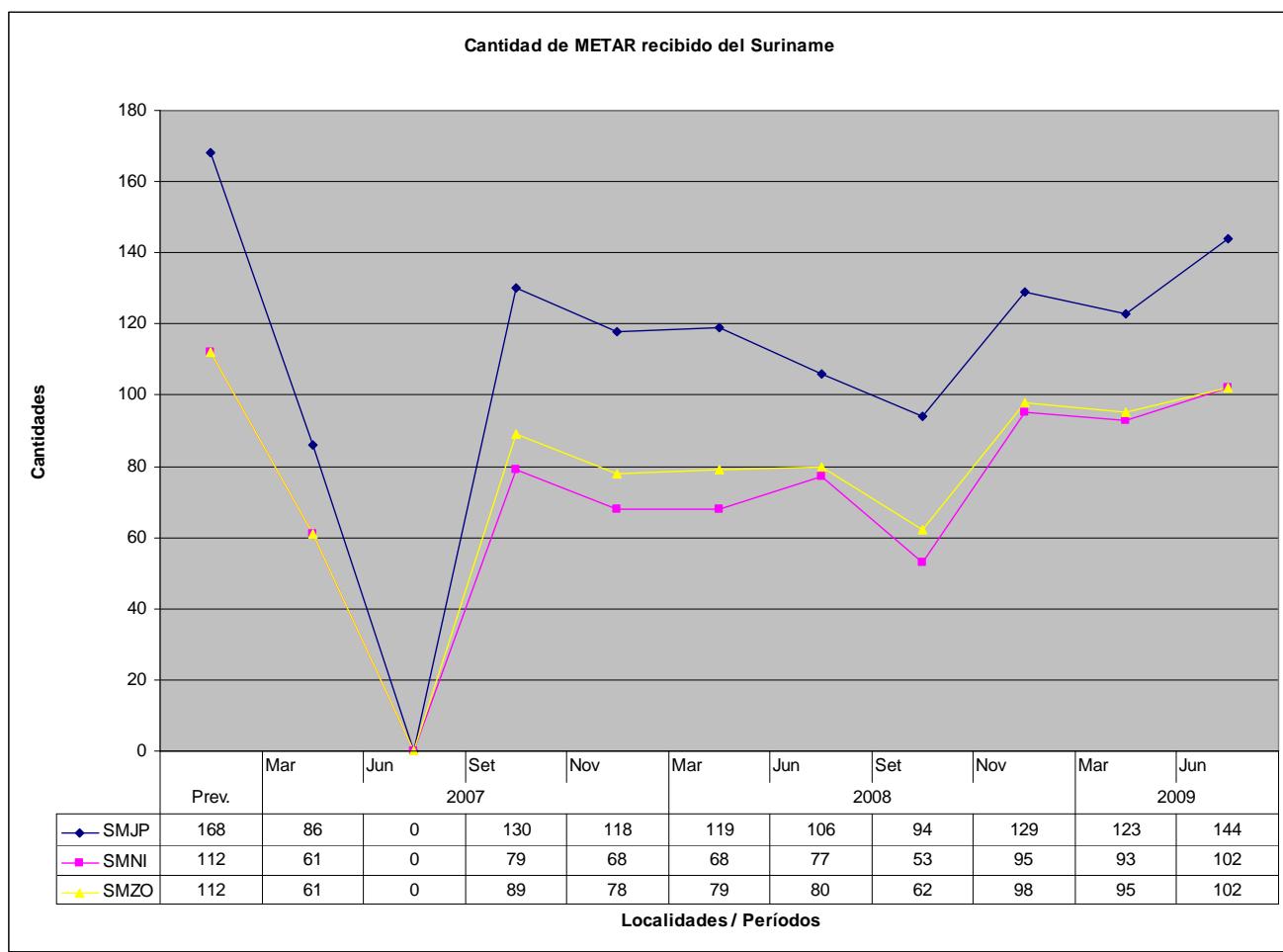
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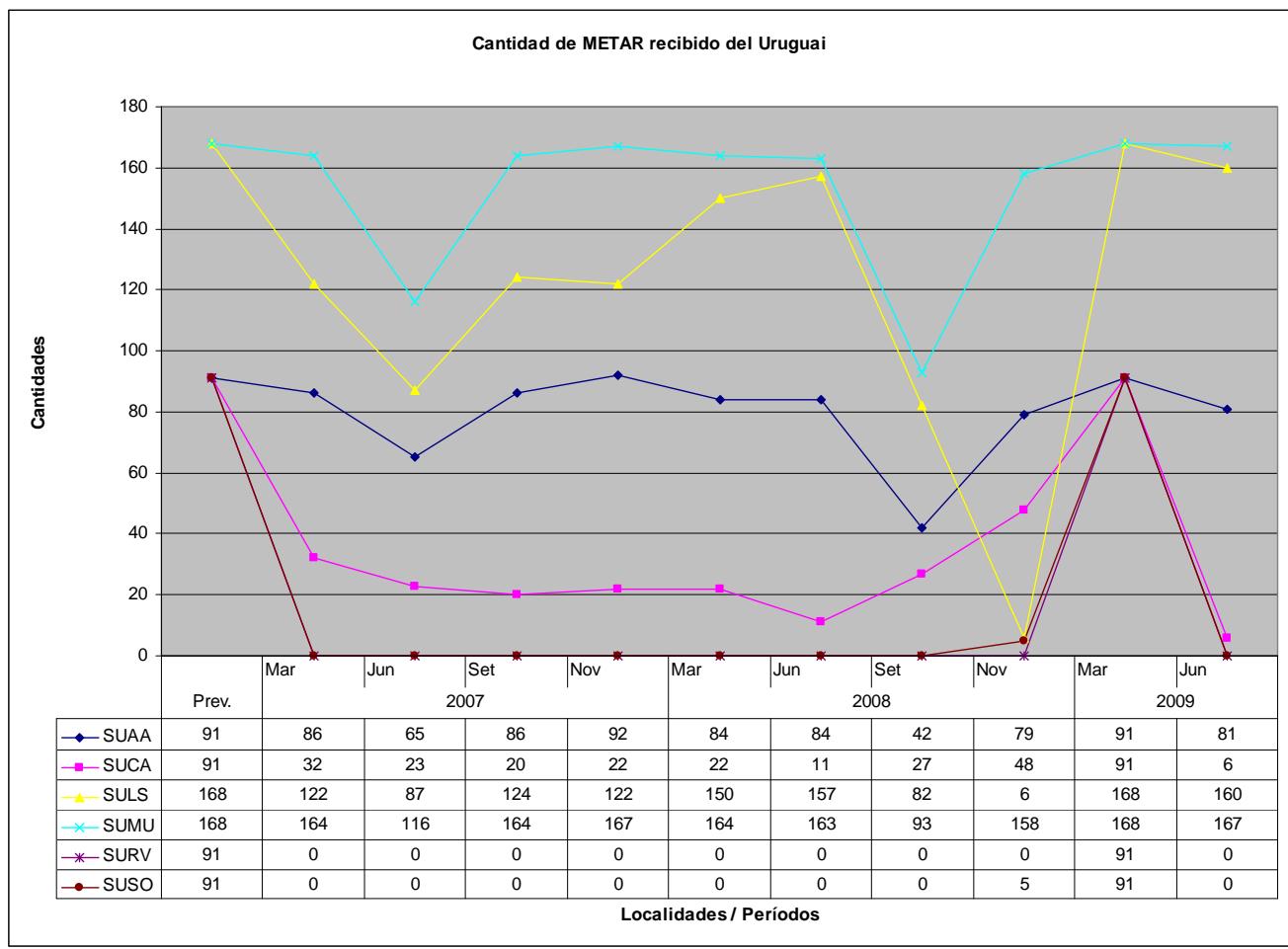




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Appendix E to the Report on Agenda Item 5

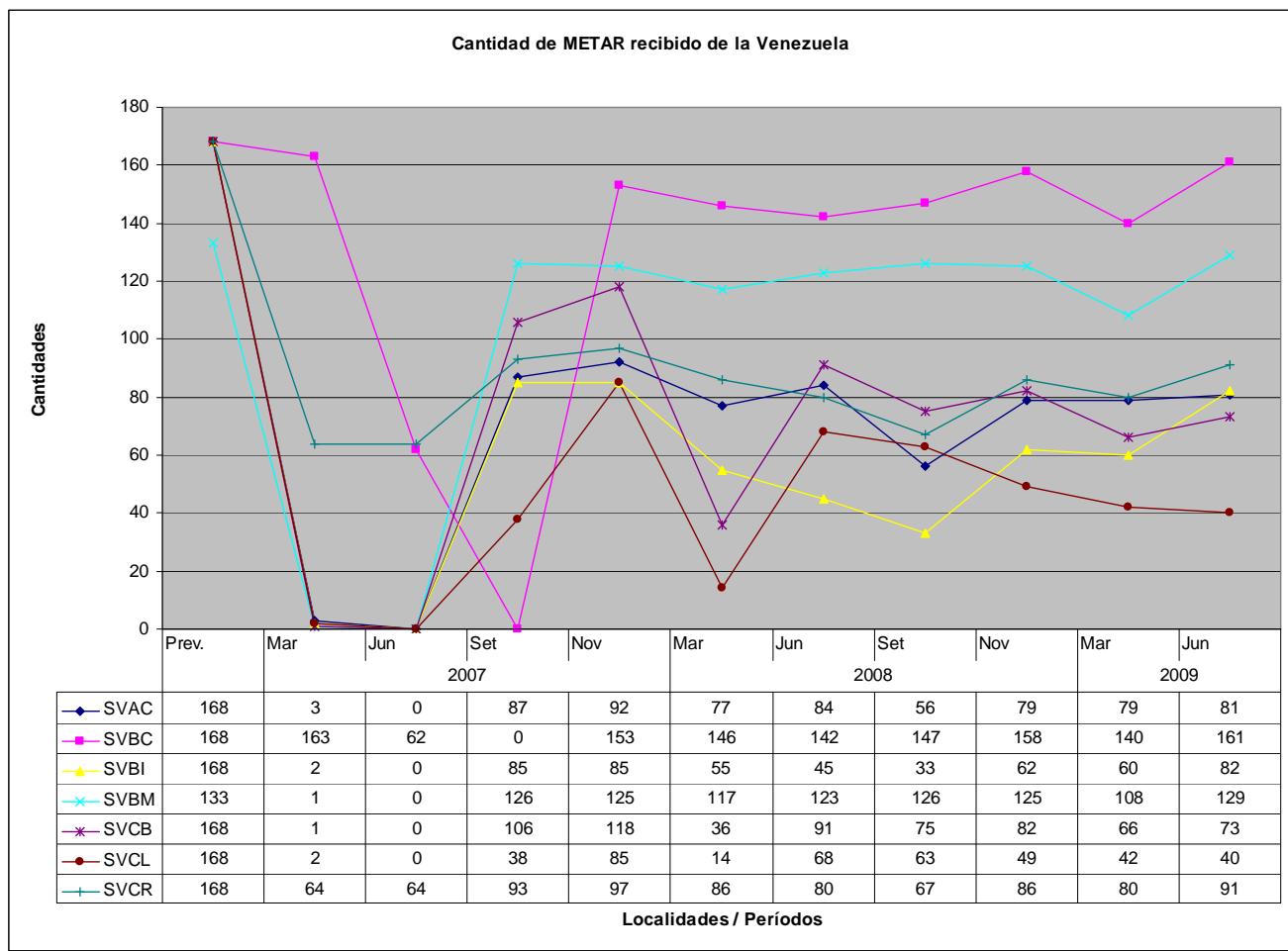
5E - 18

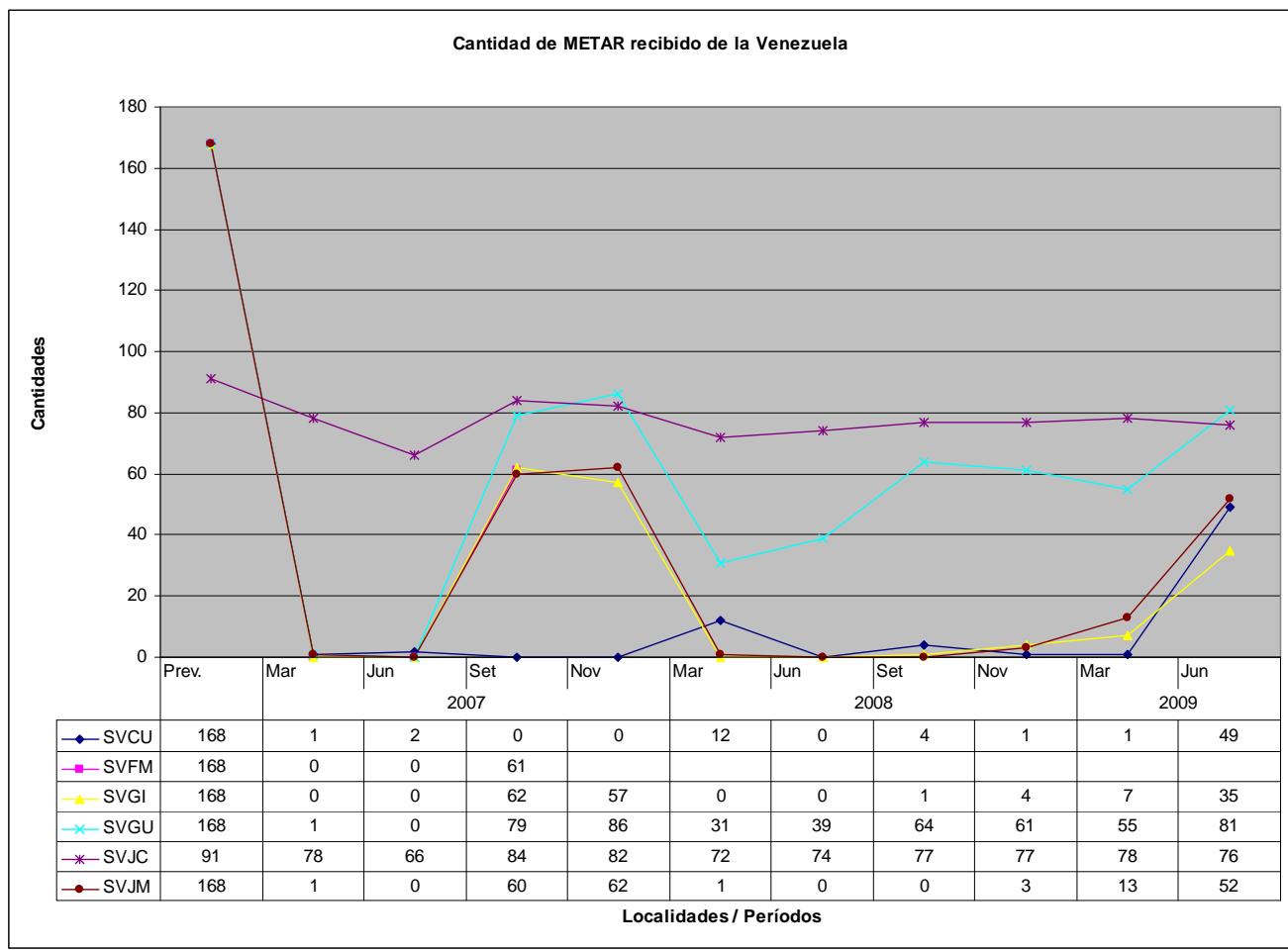




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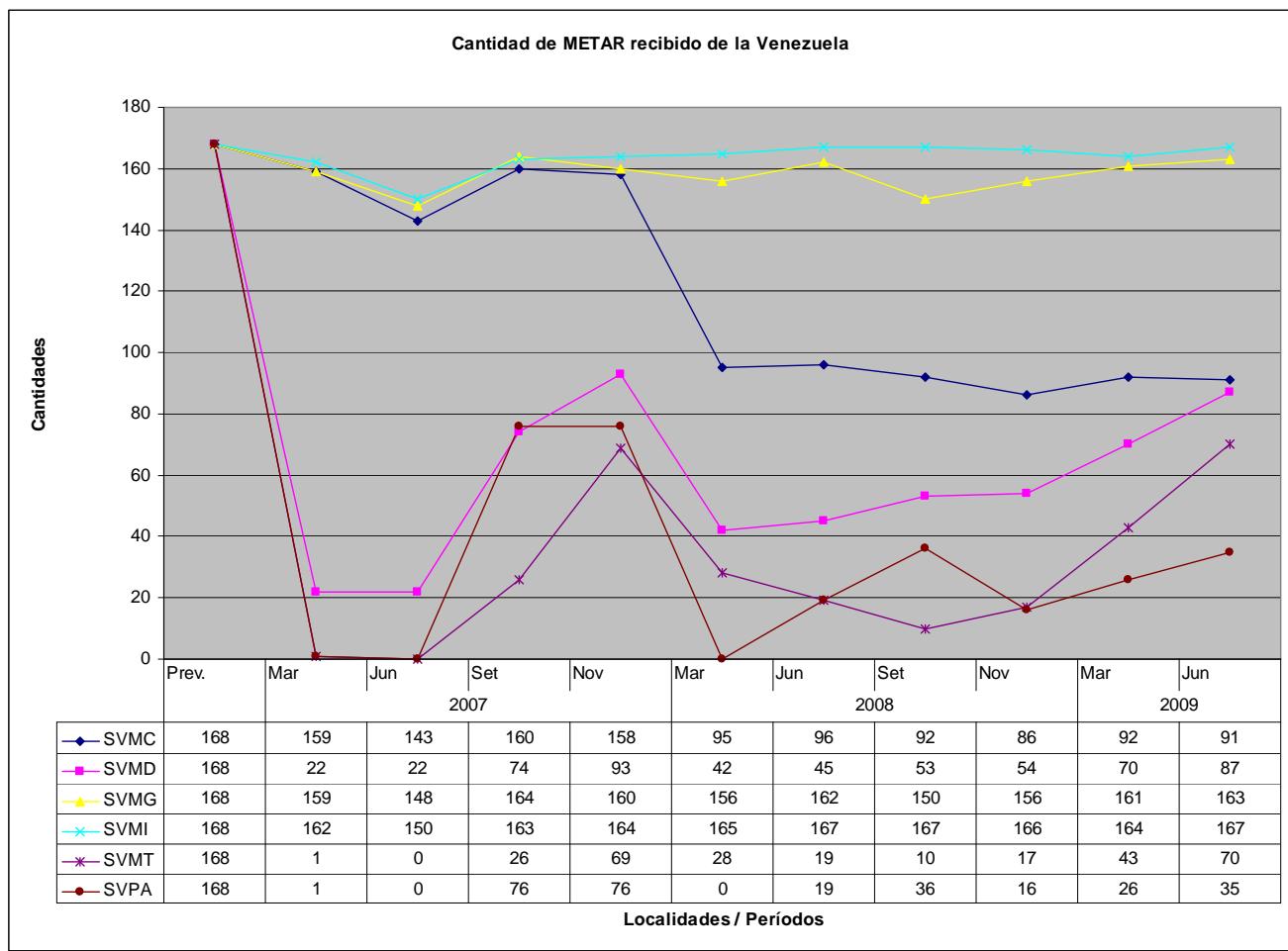
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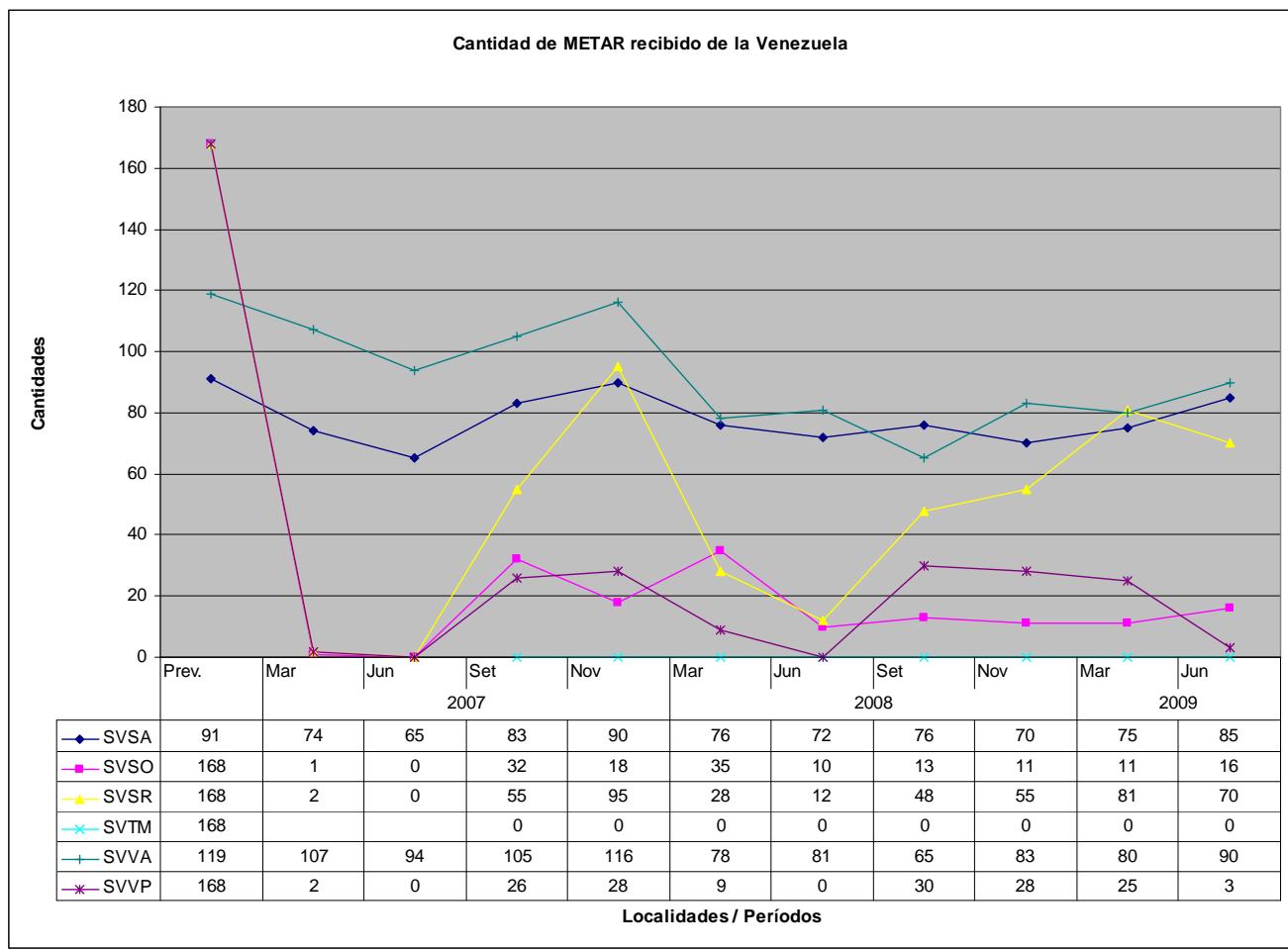




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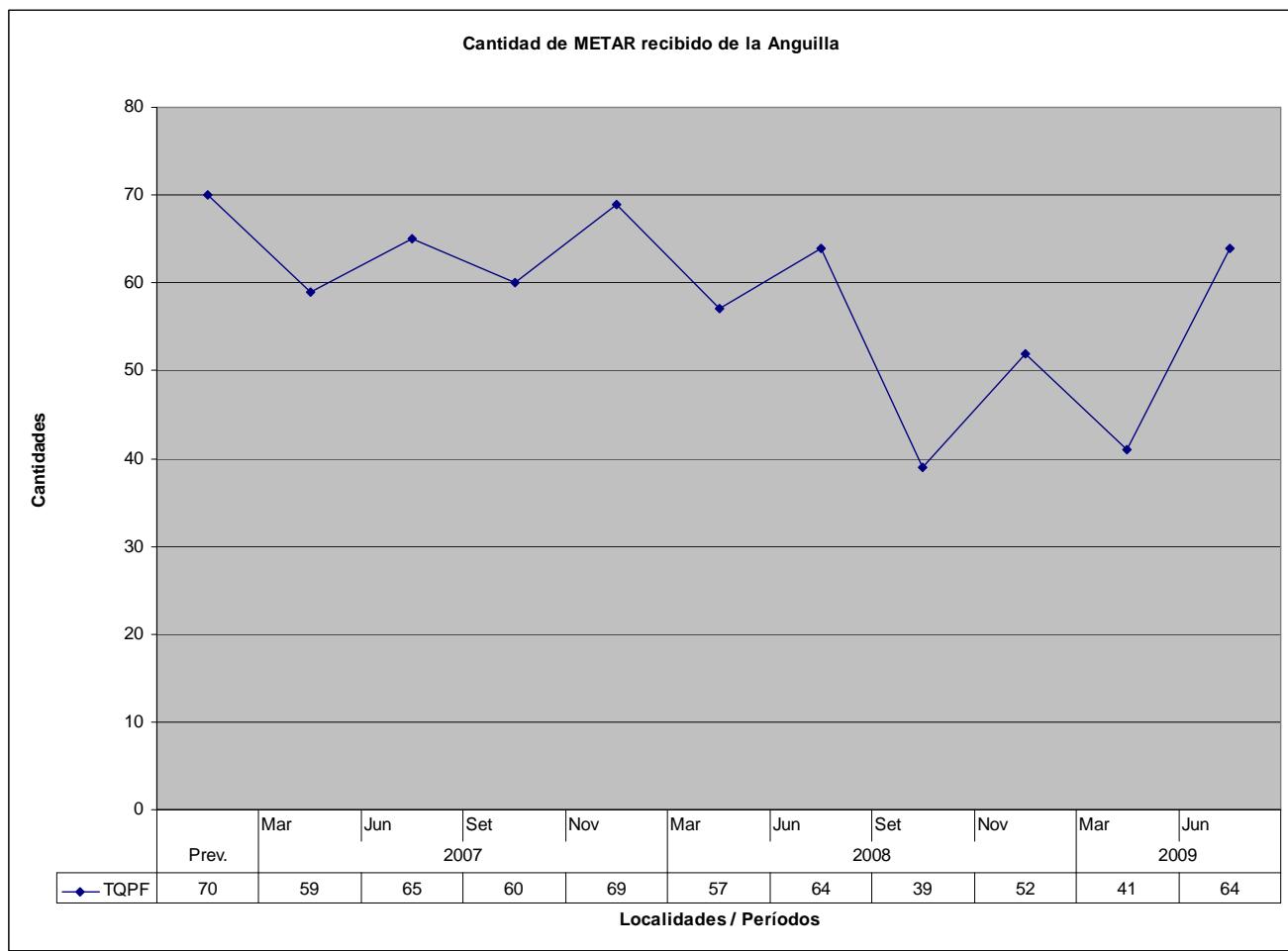
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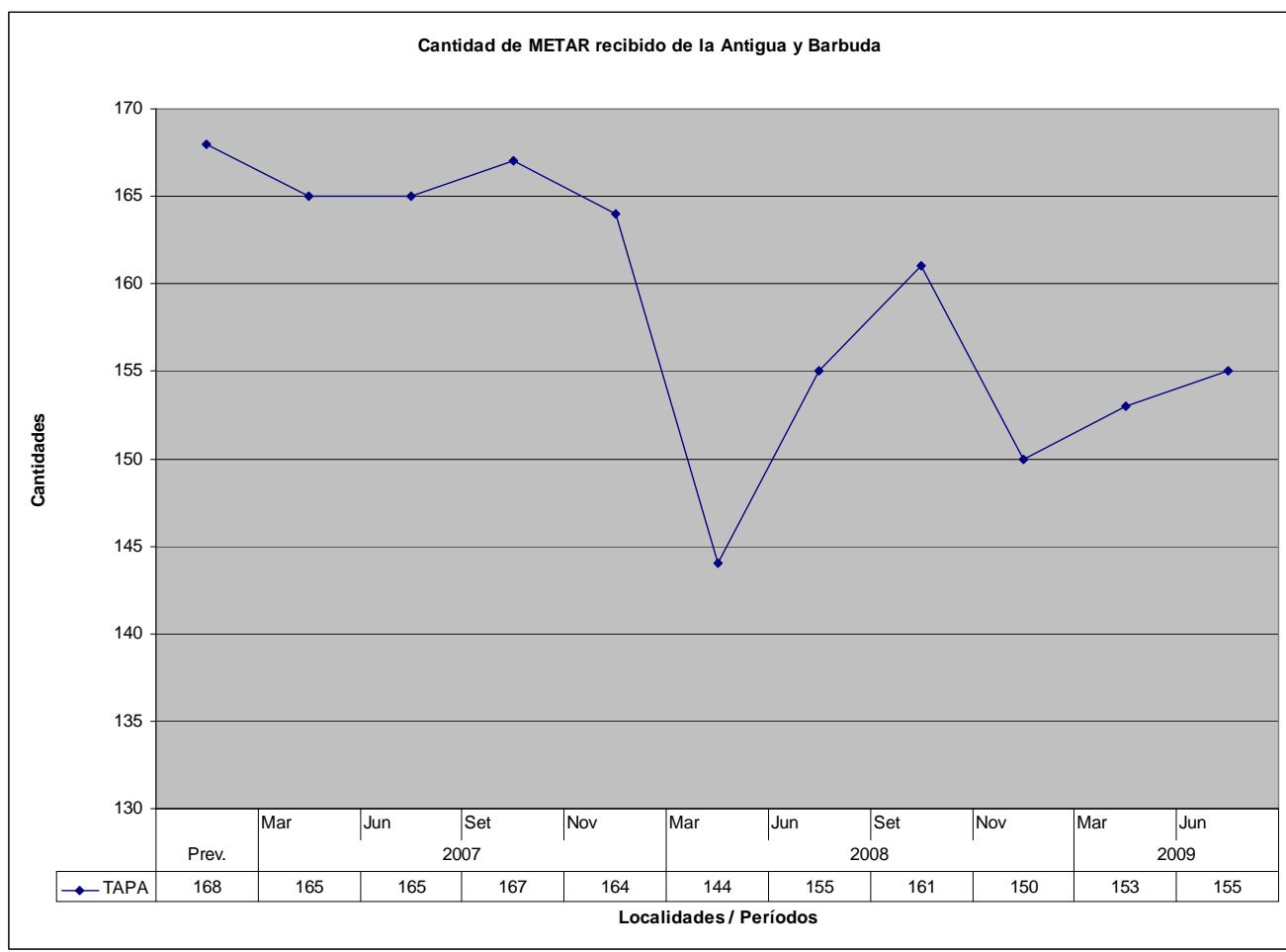




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Appendix E to the Report on Agenda Item 5

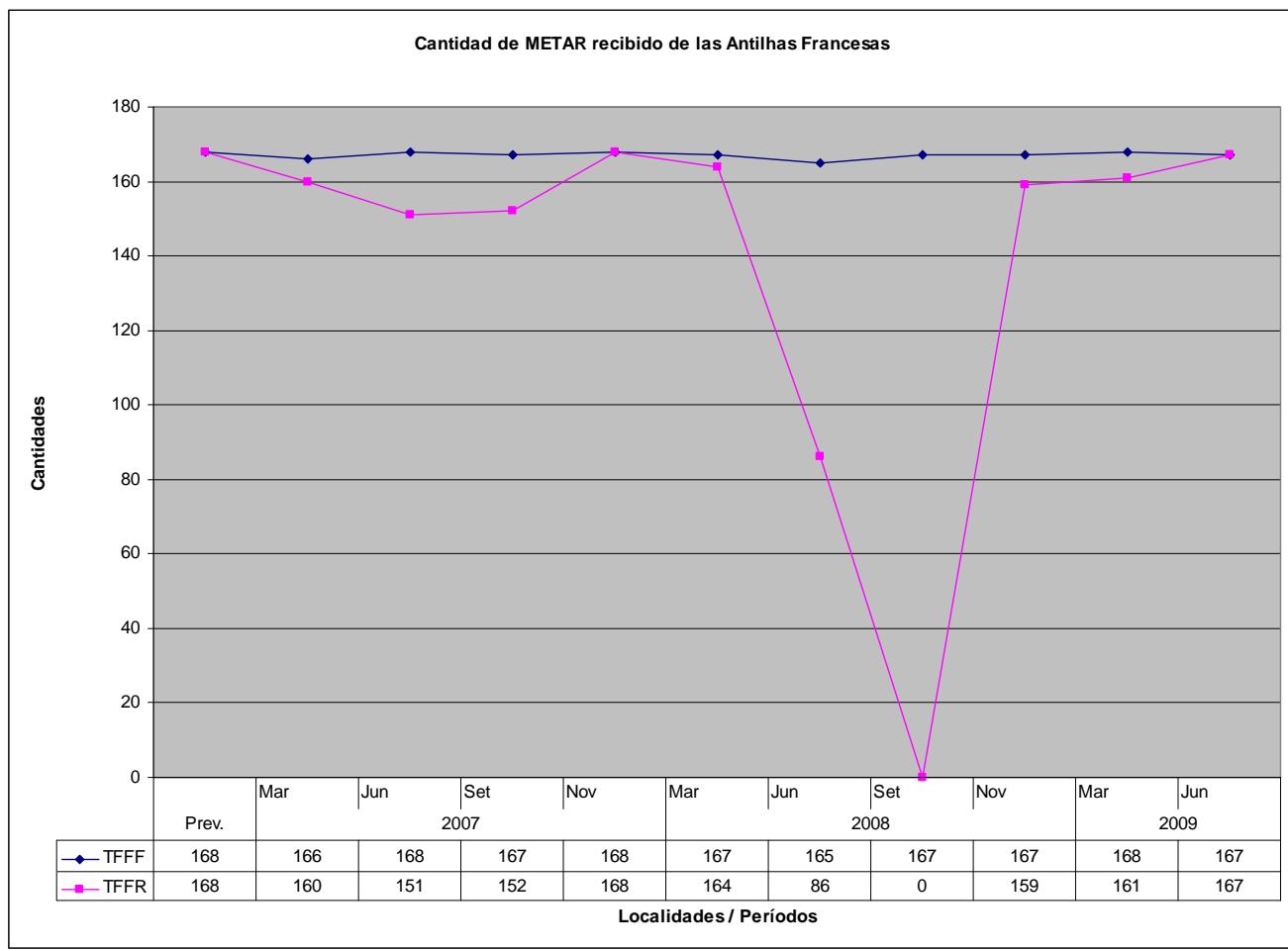
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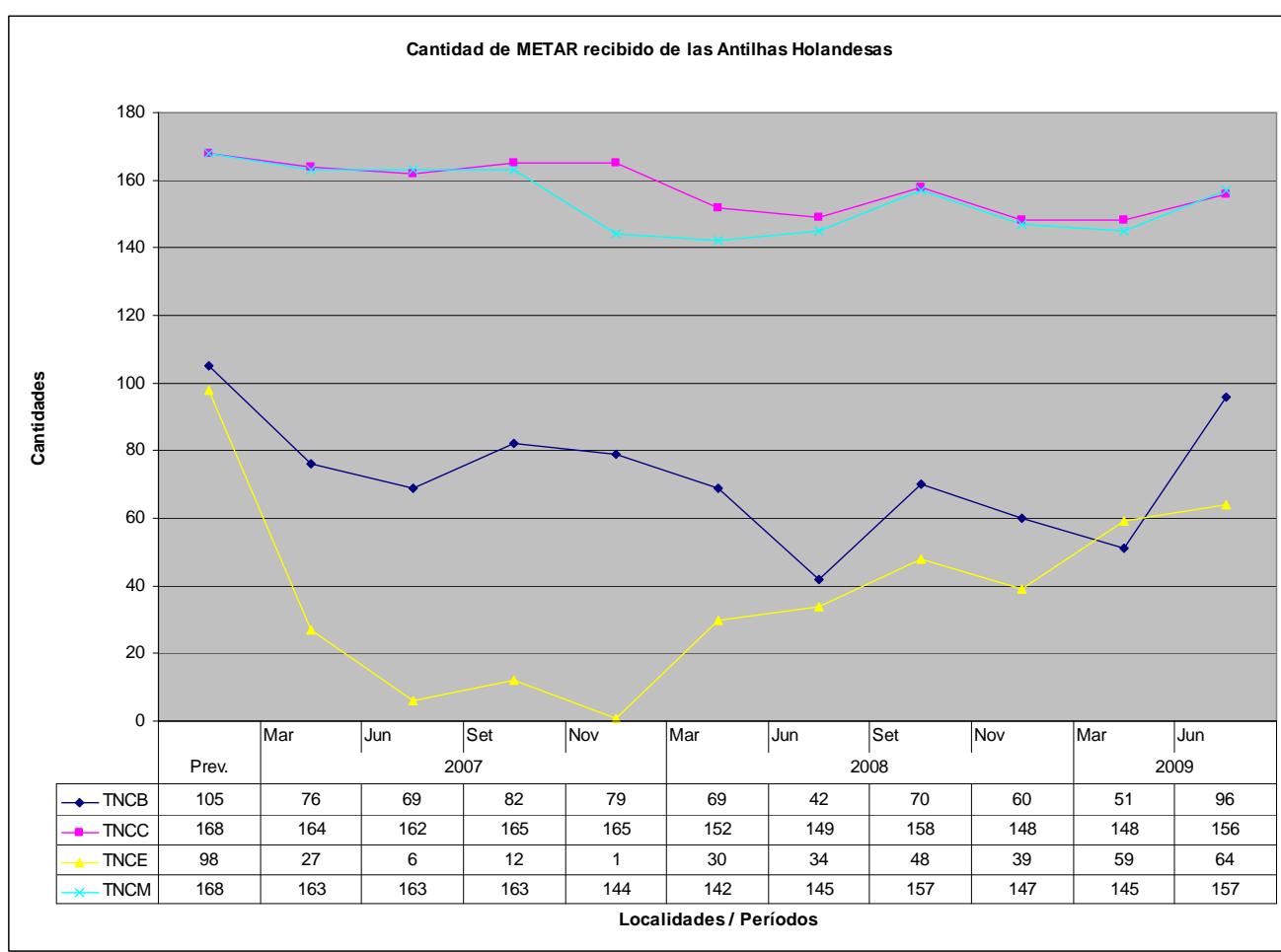




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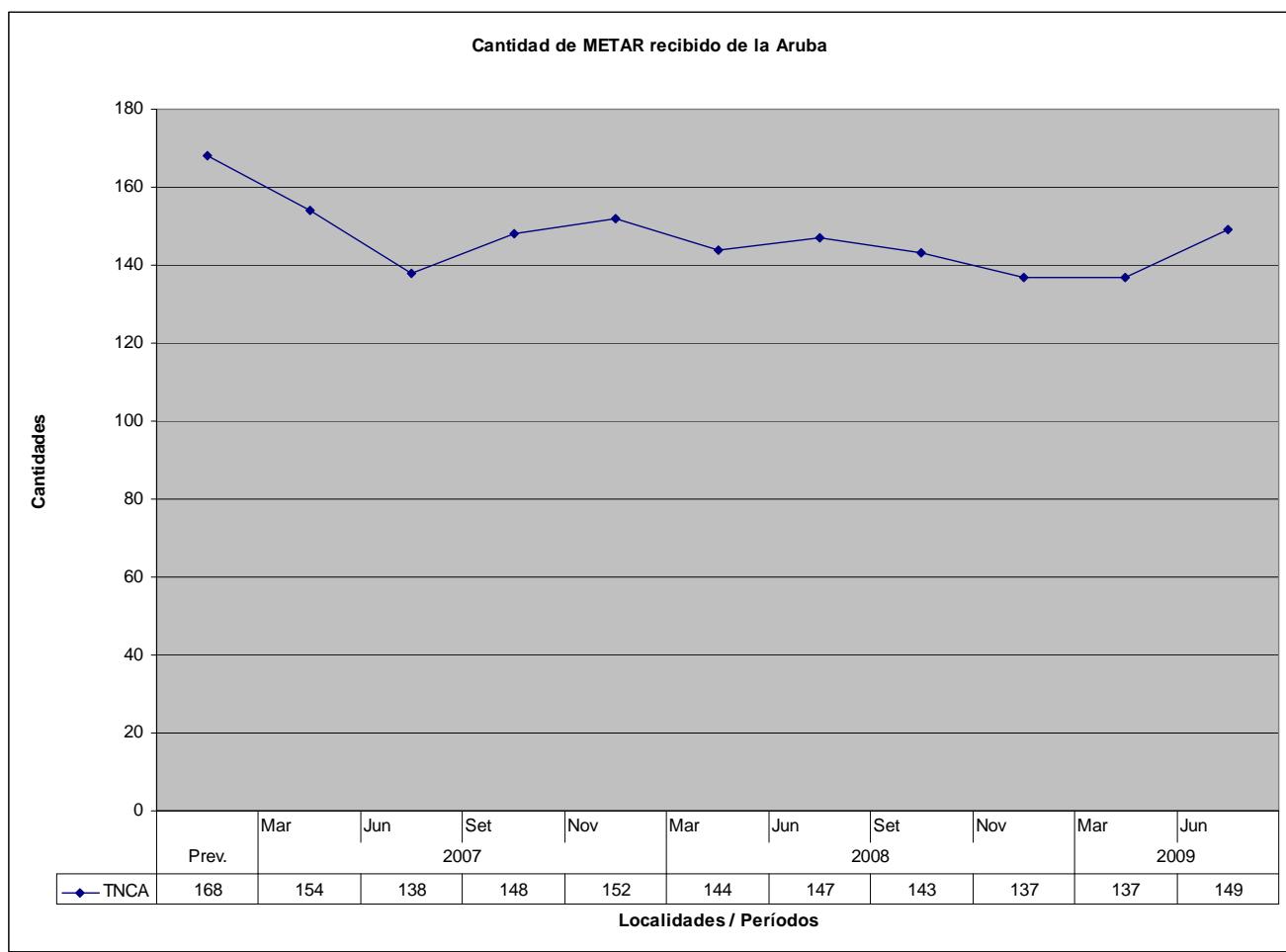
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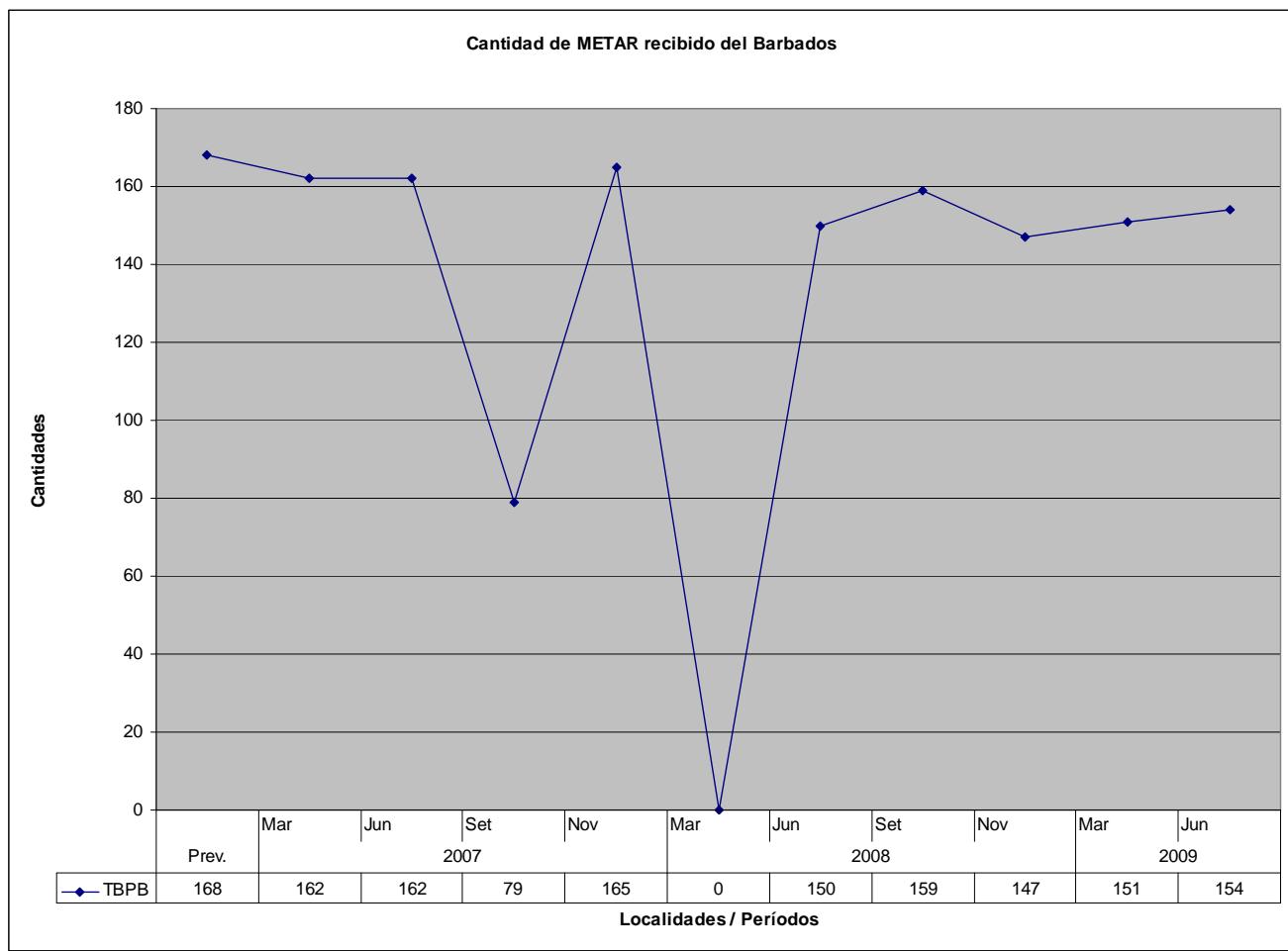




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Appendix E to the Report on Agenda Item 5

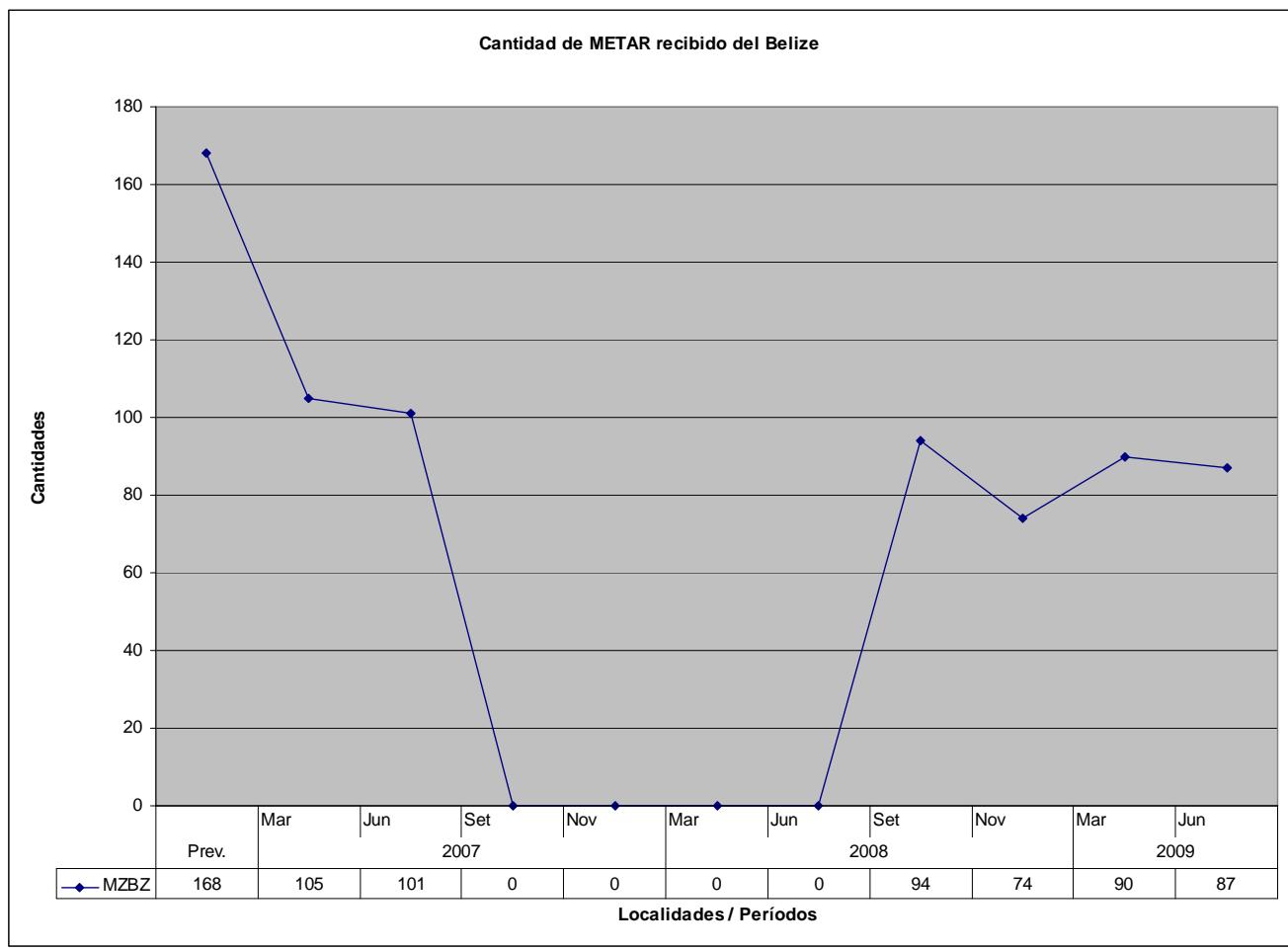
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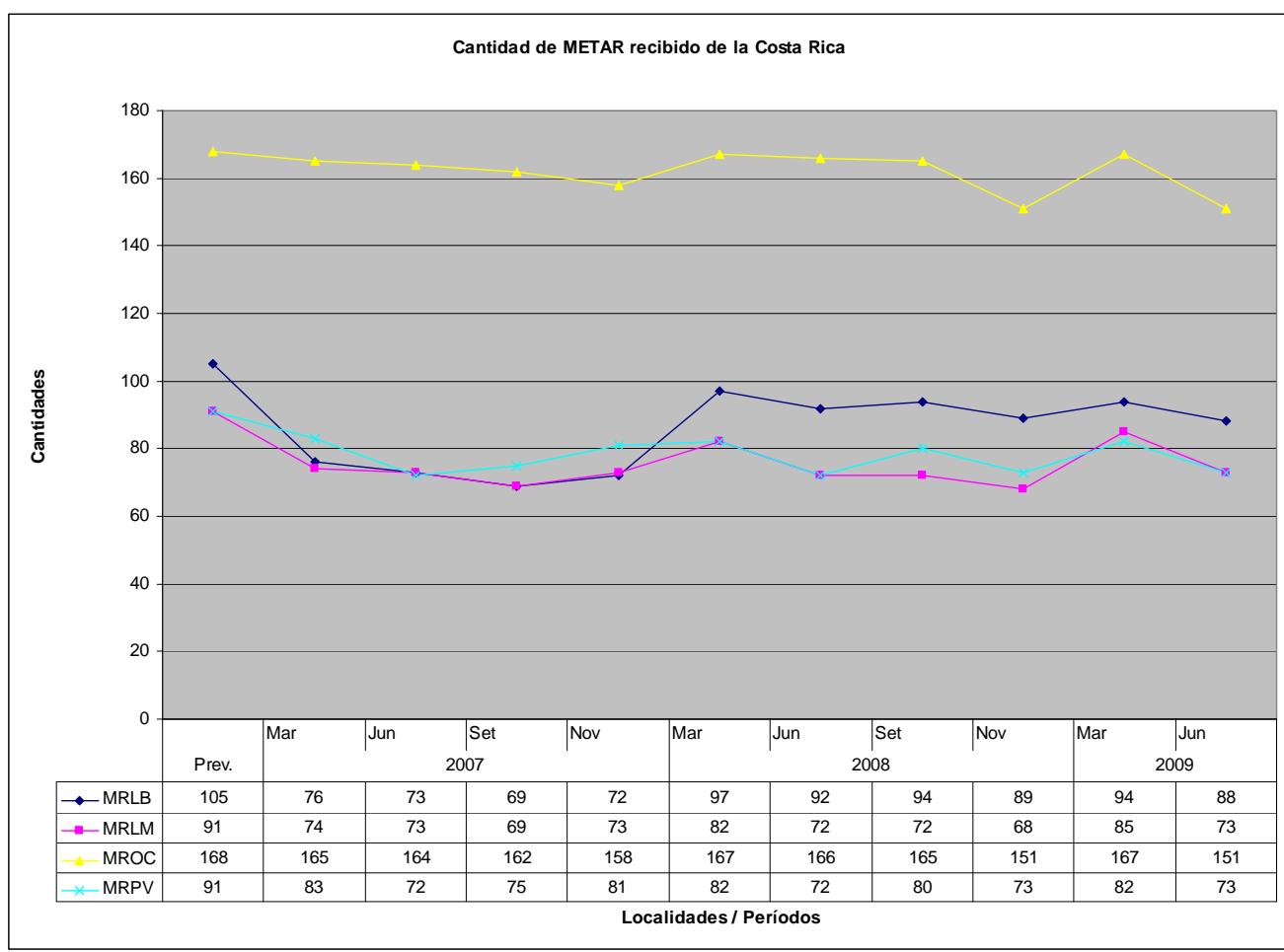




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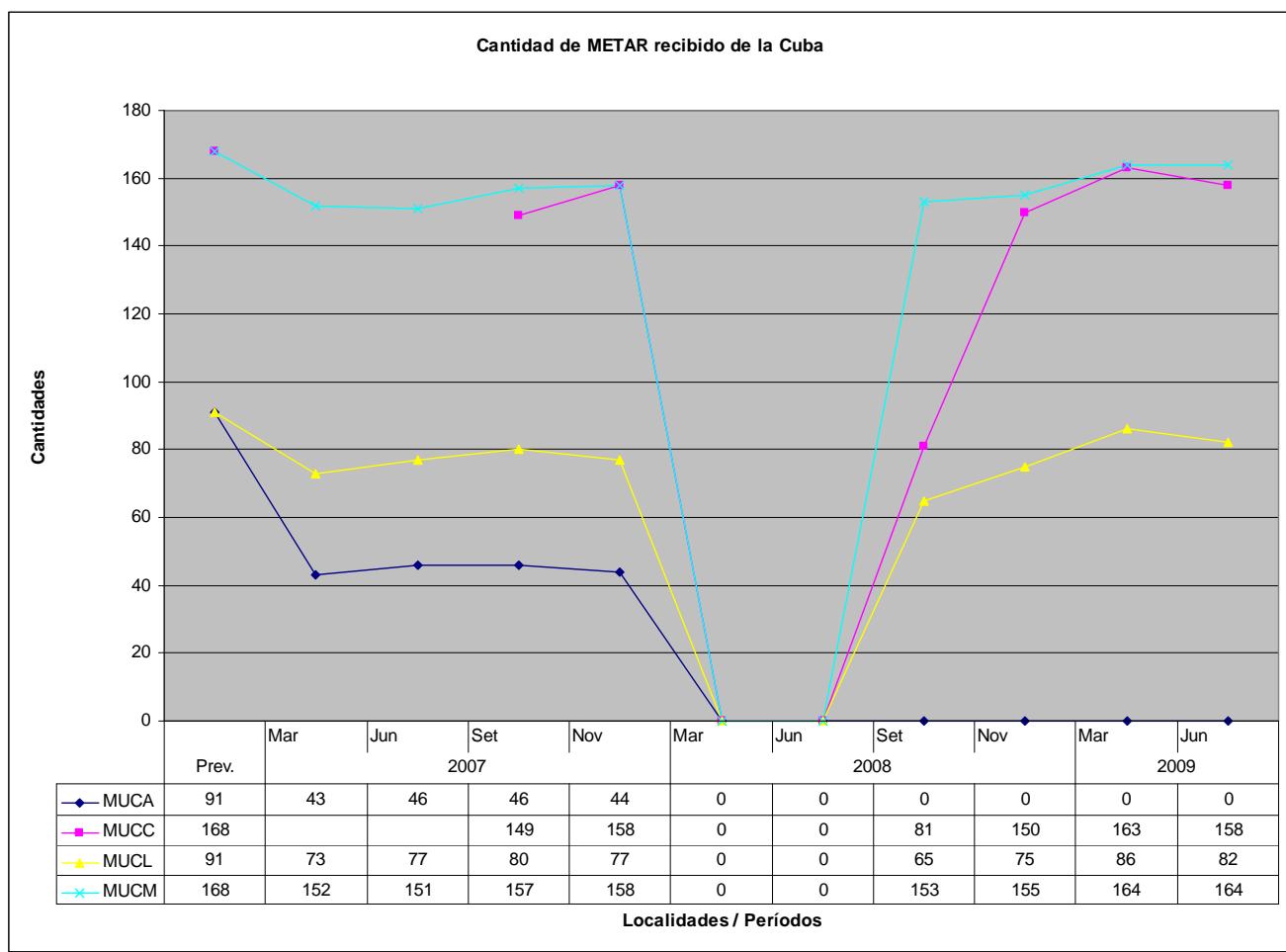
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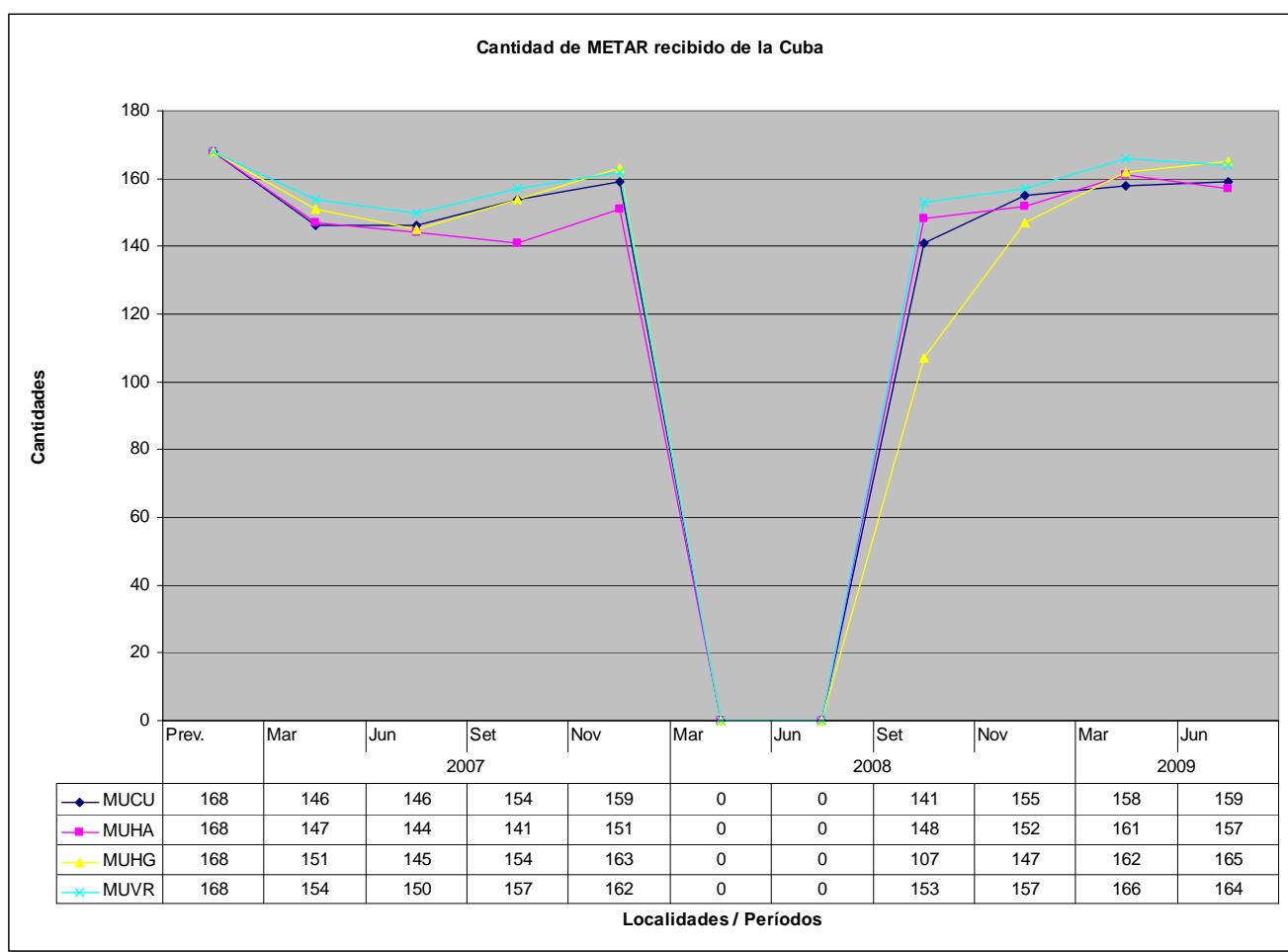




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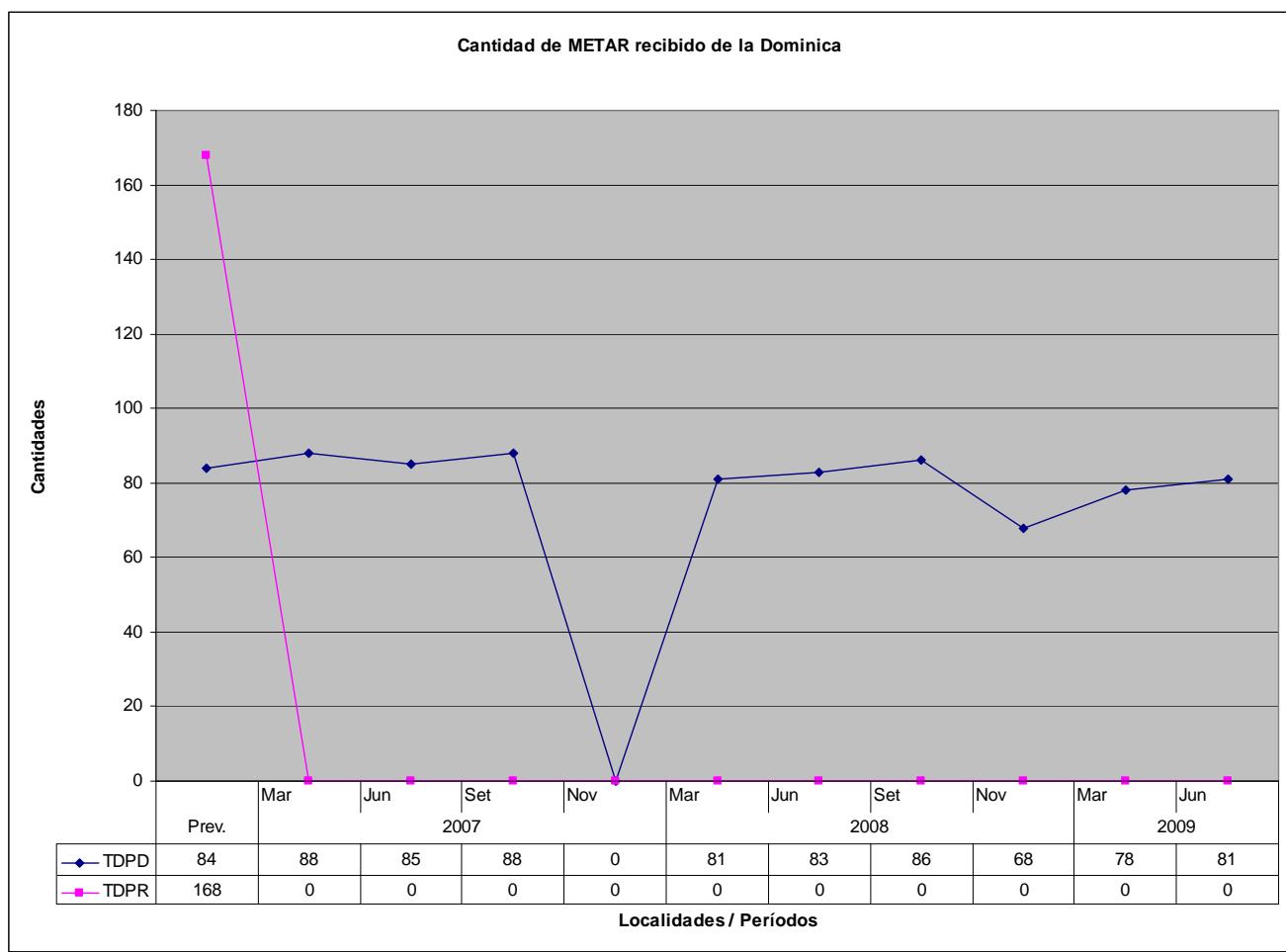
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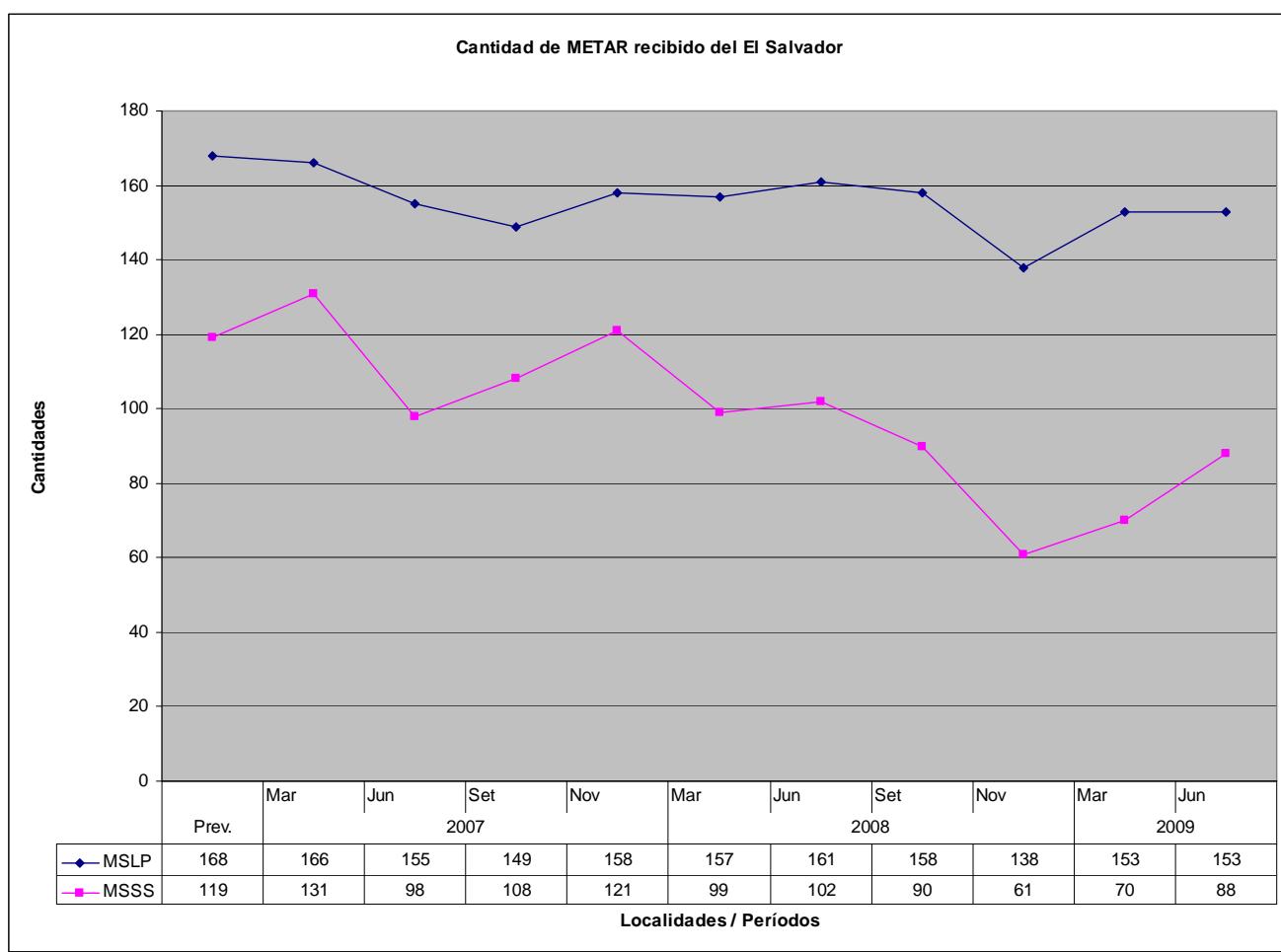




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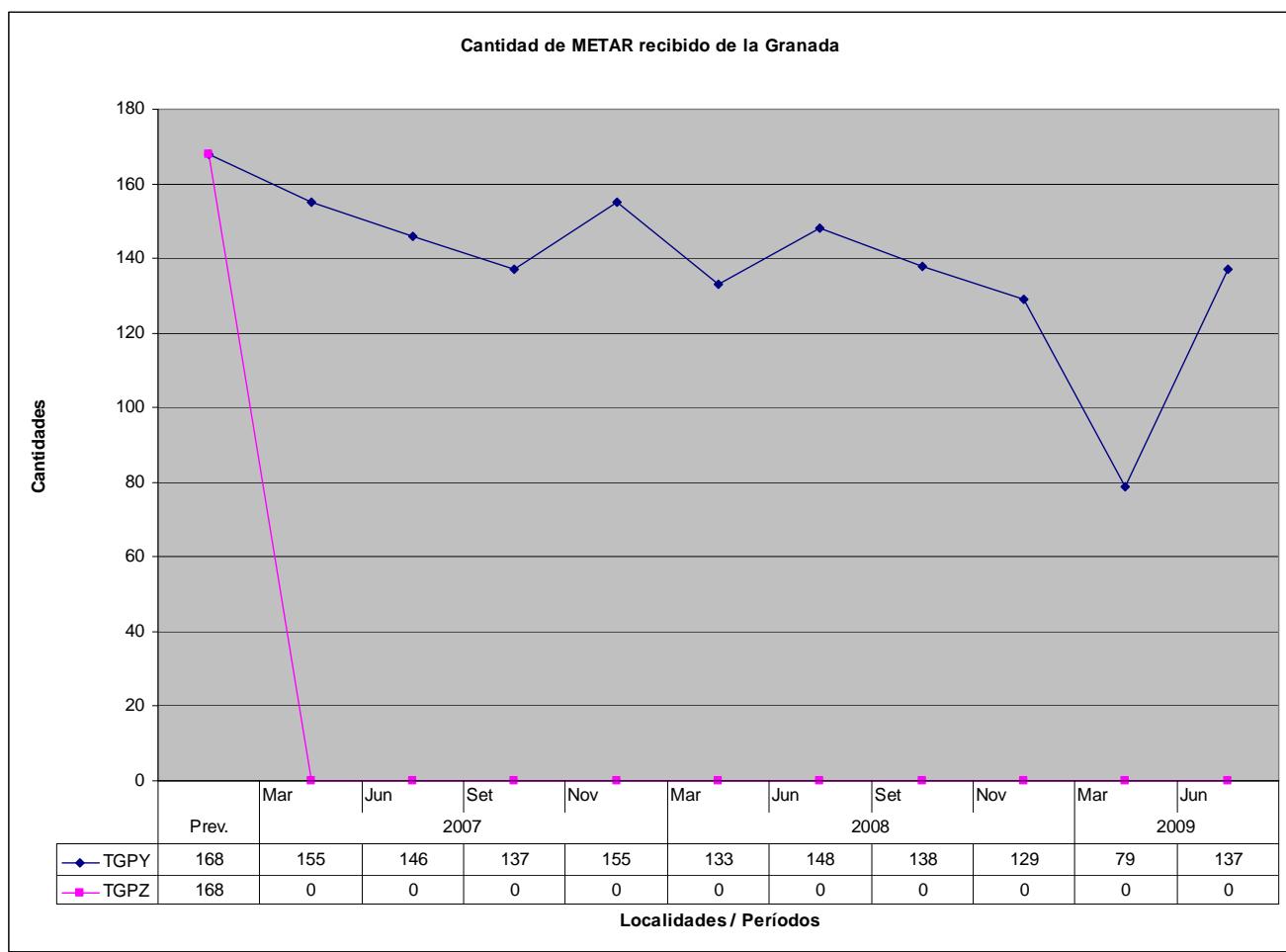
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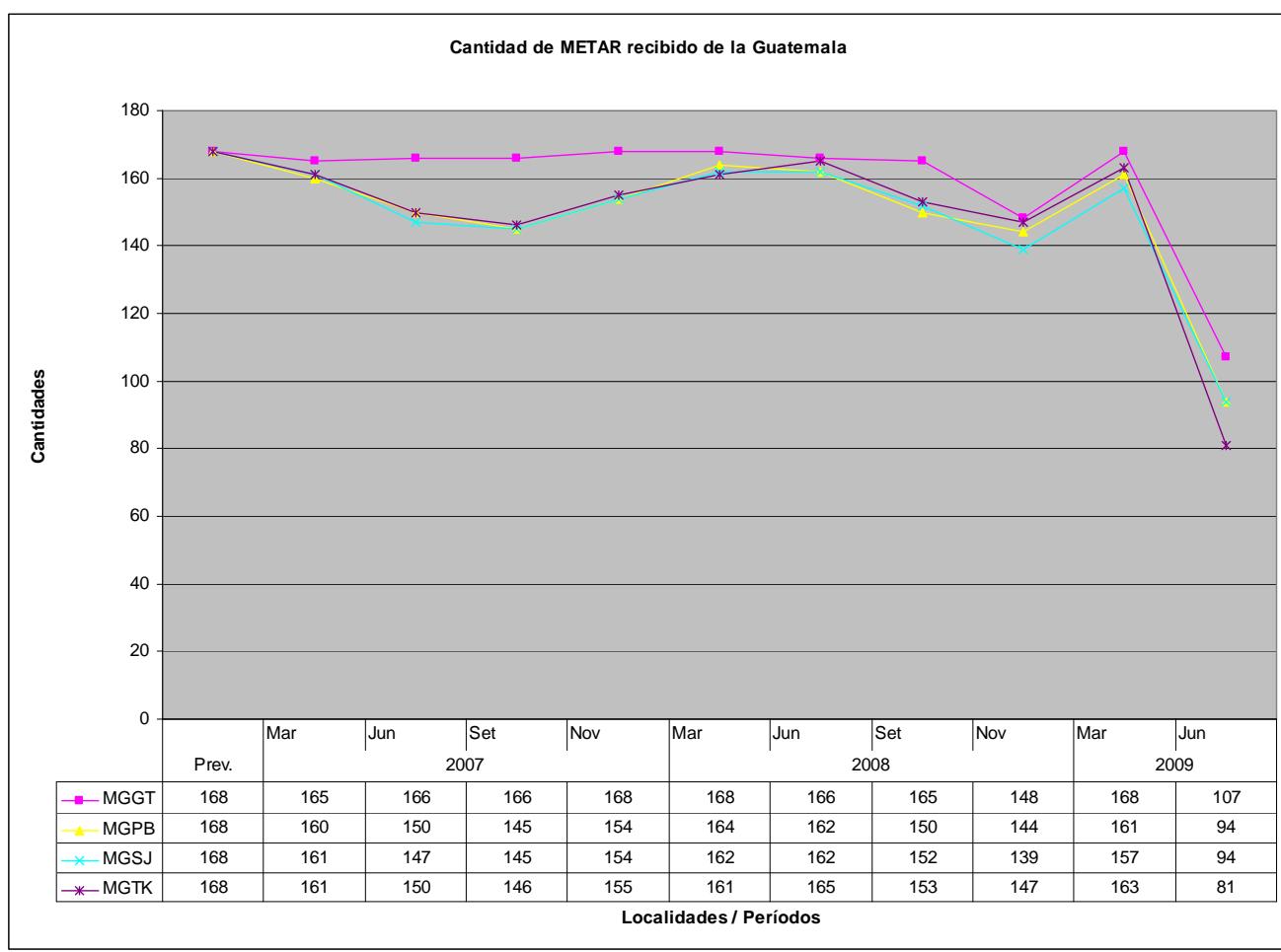




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Appendix E to the Report on Agenda Item 5

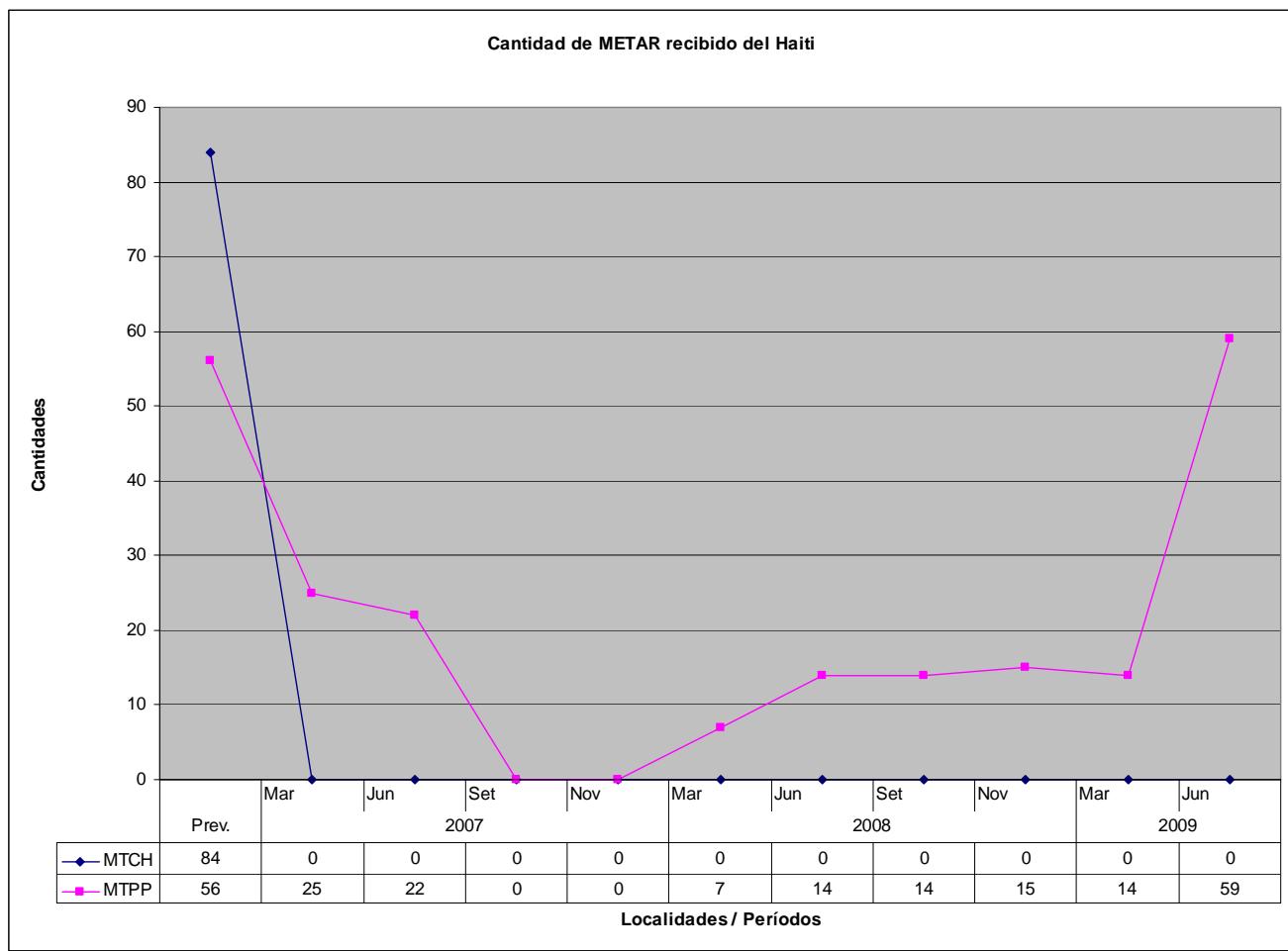
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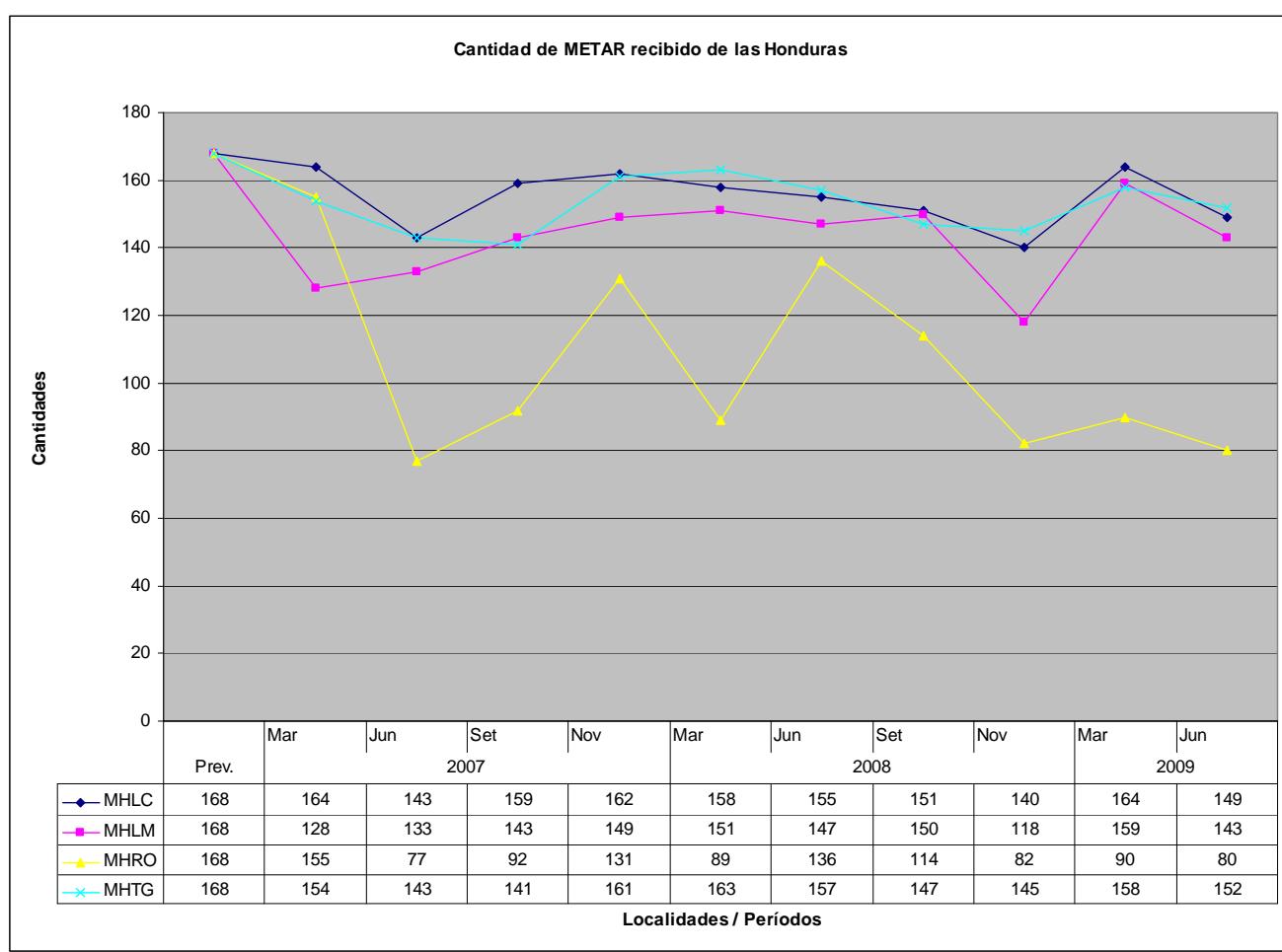


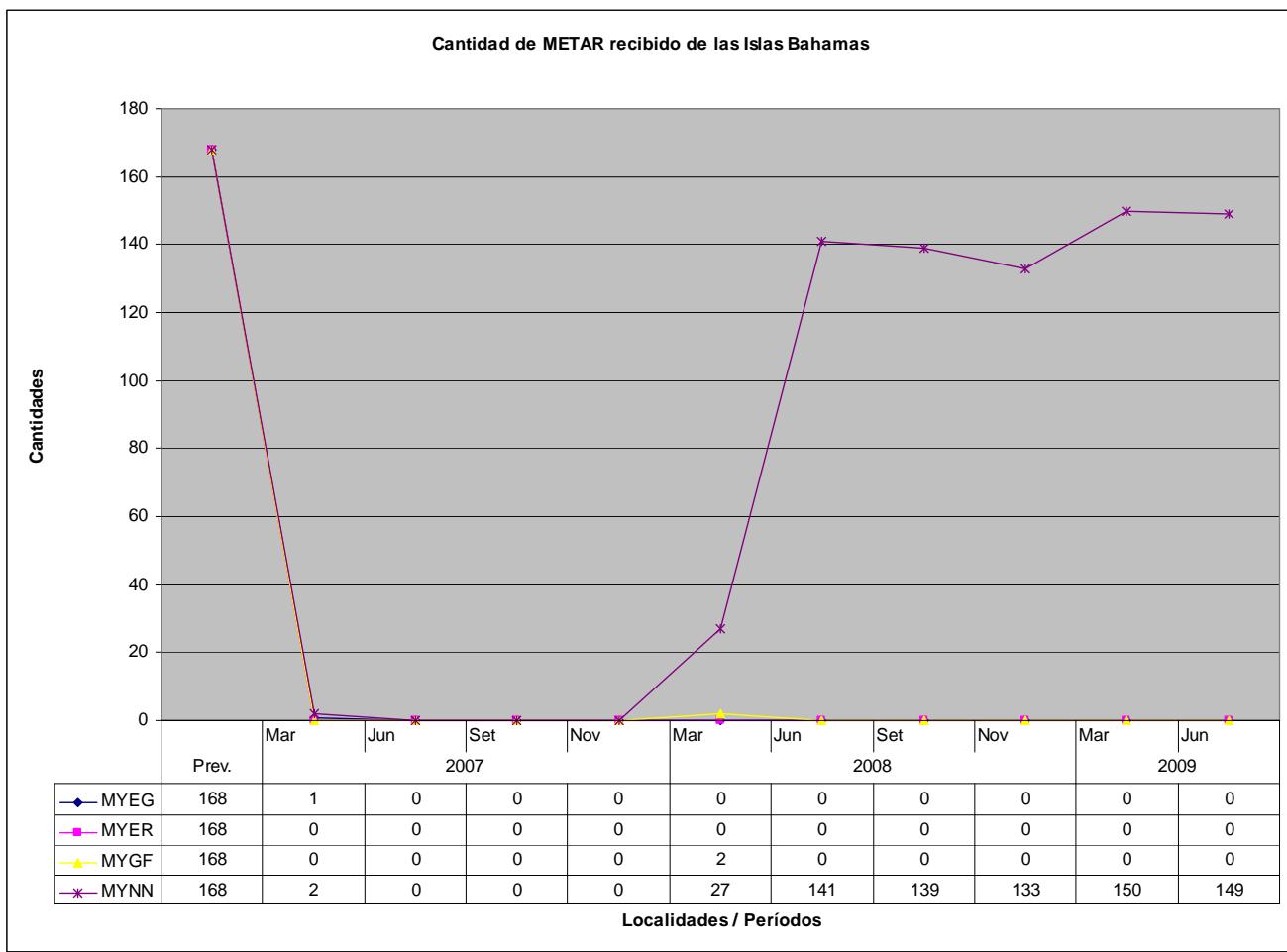


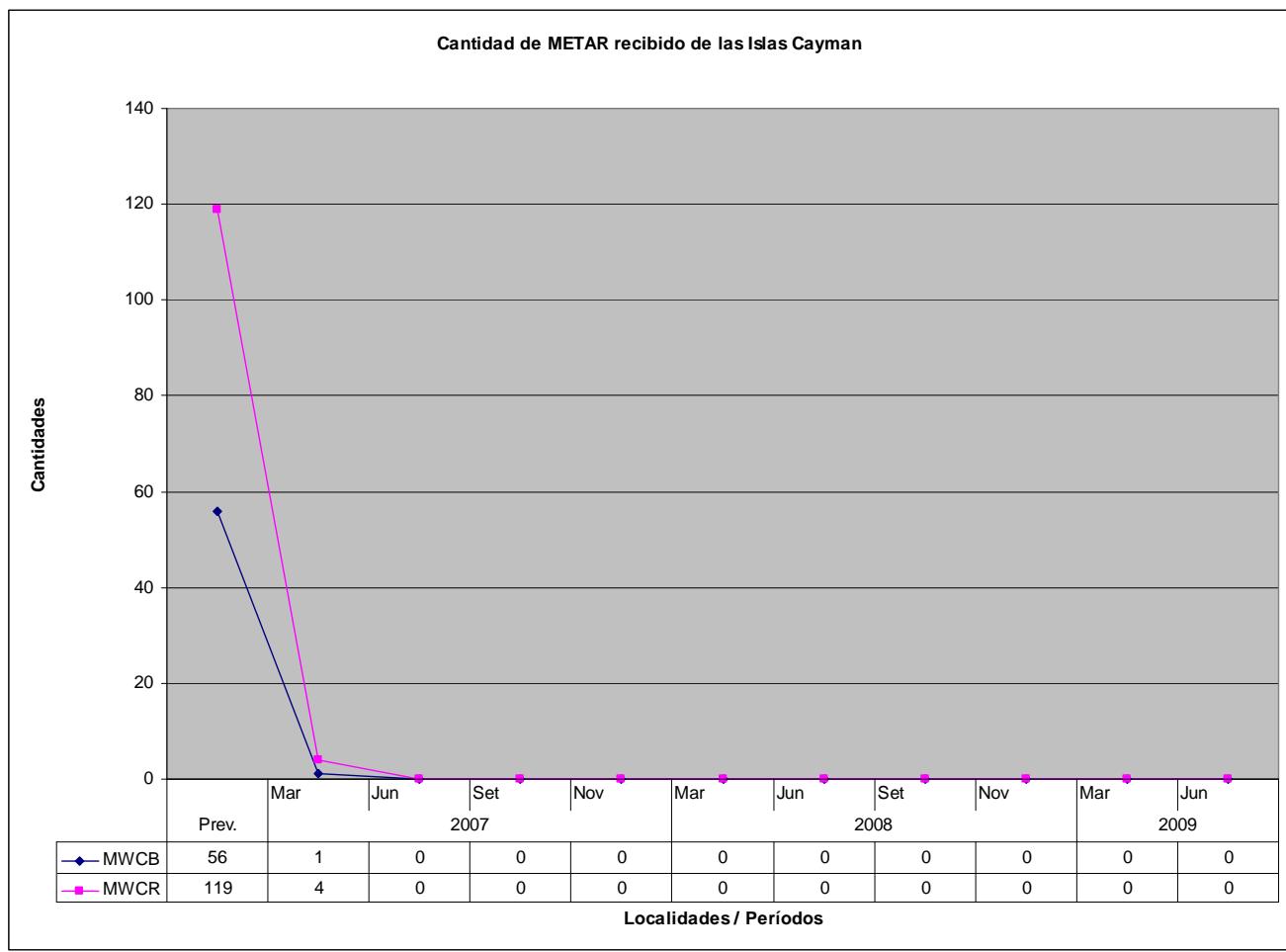
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5E - 38



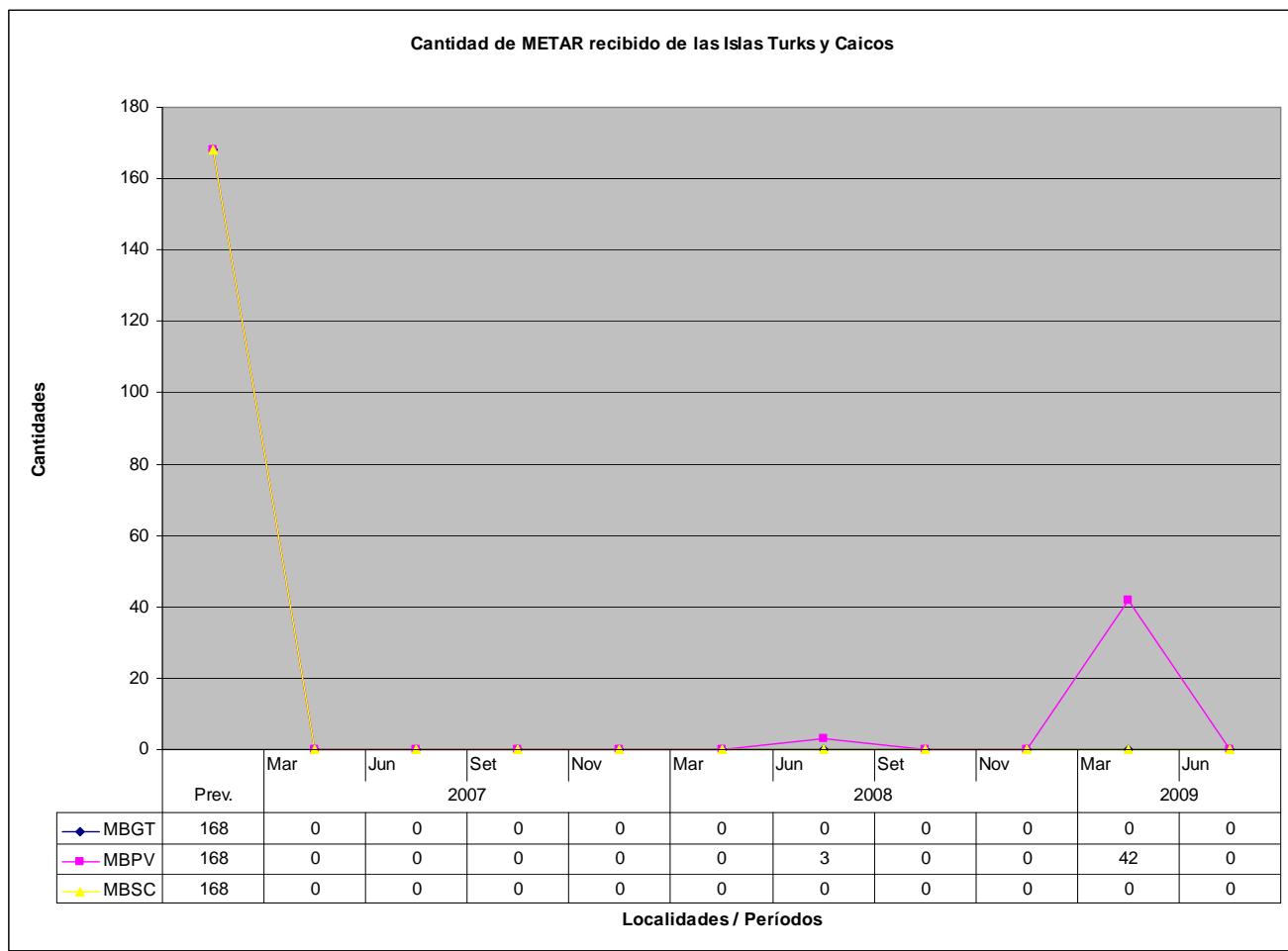


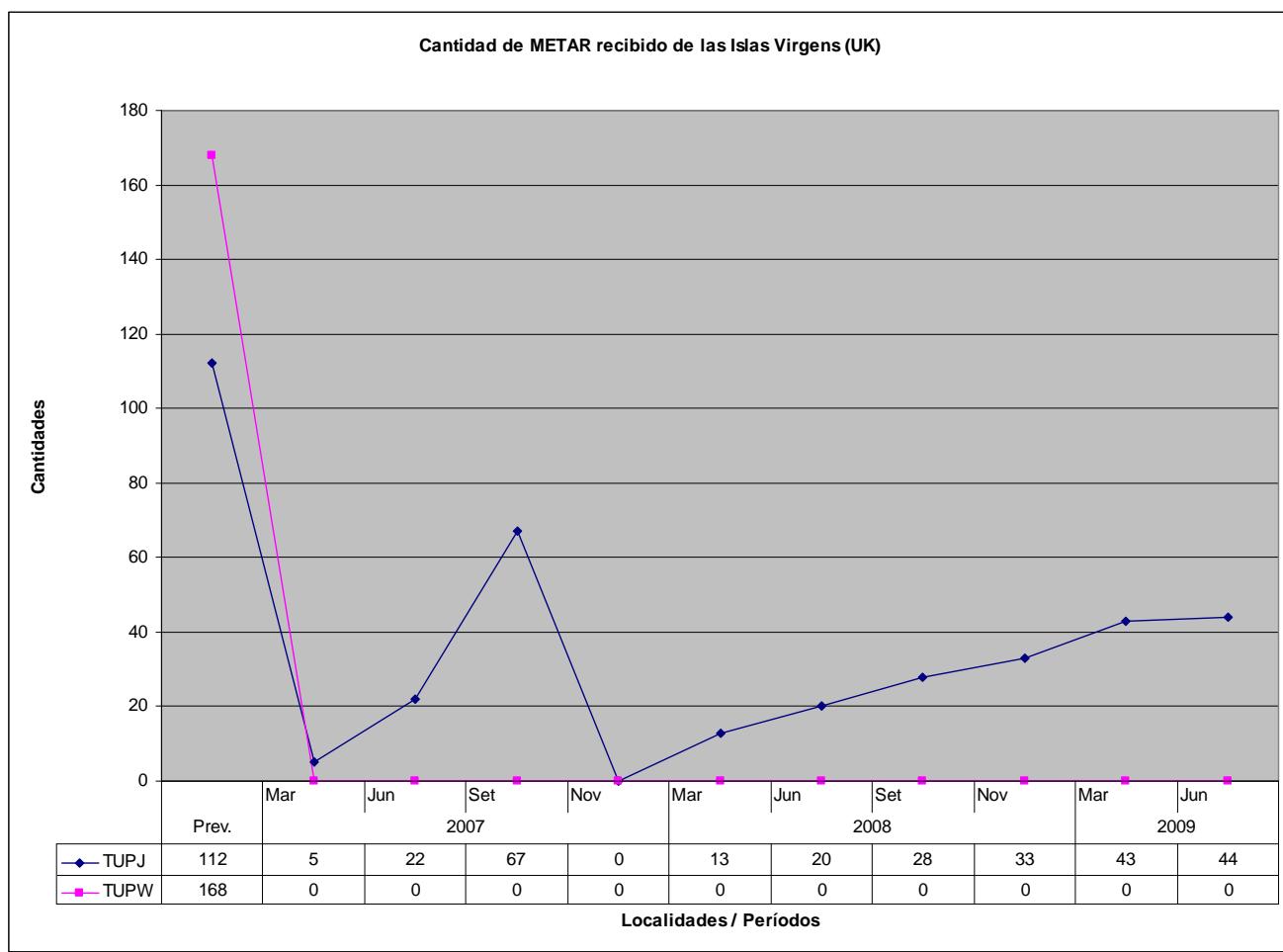




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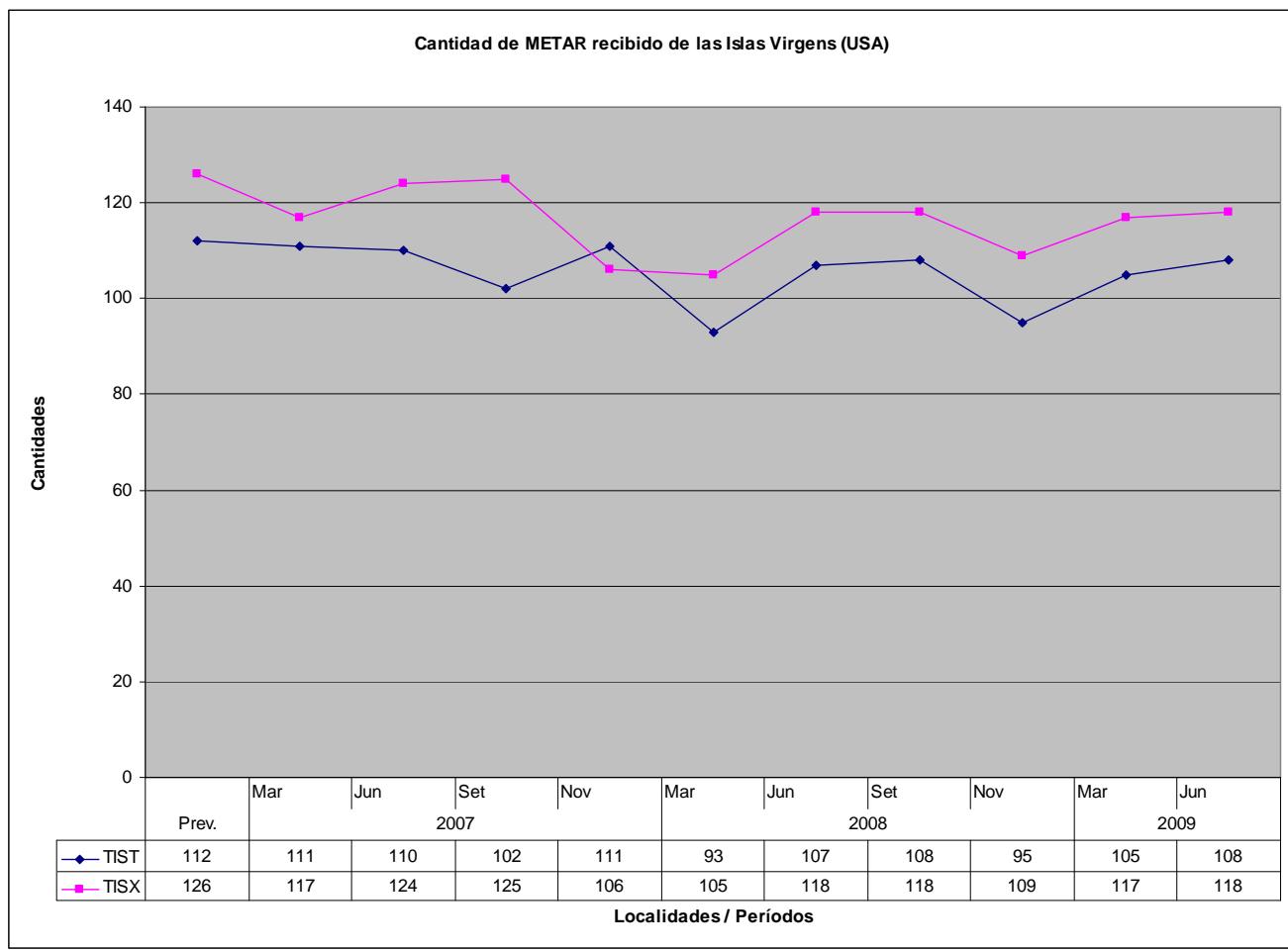
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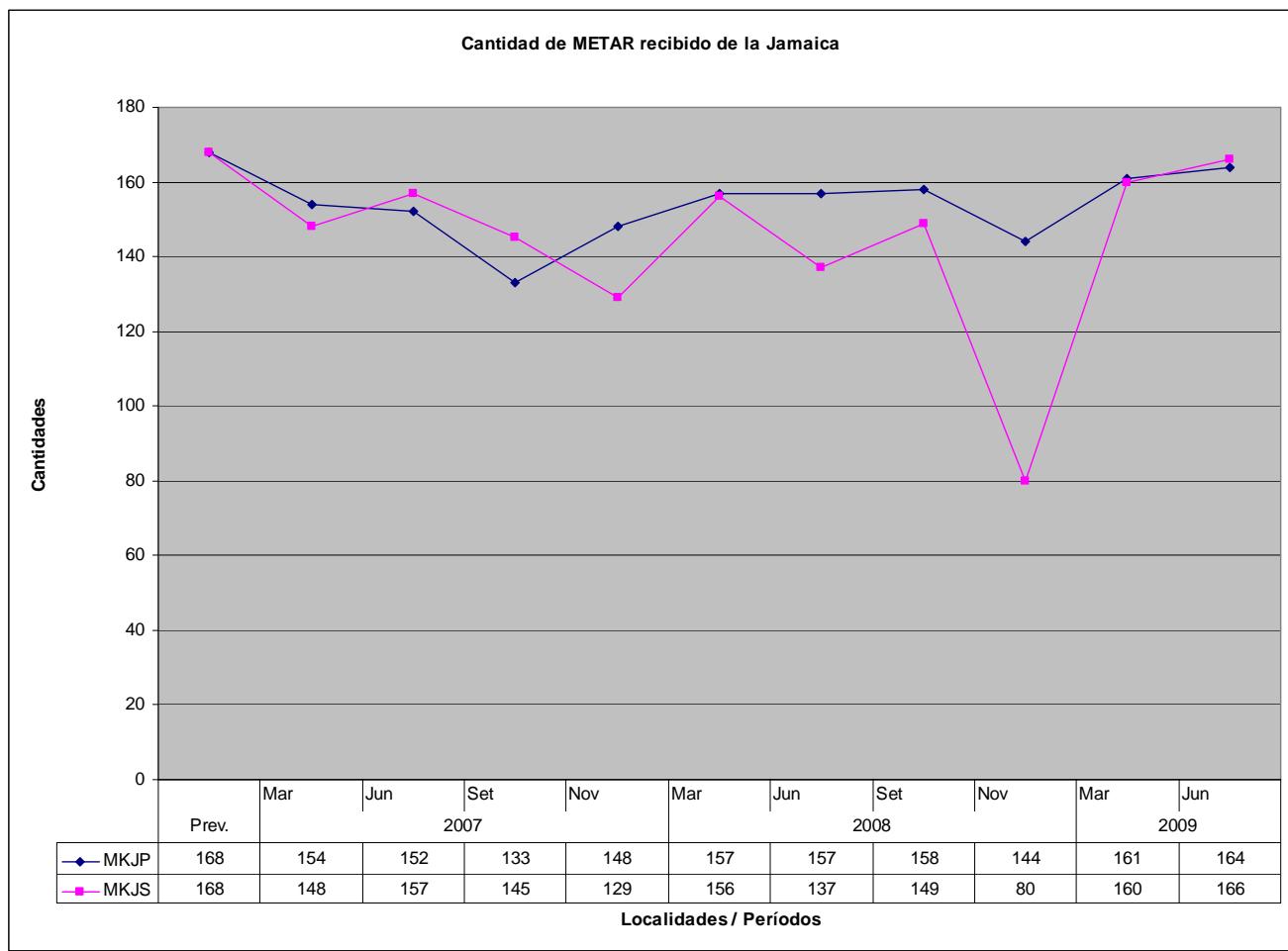




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Appendix E to the Report on Agenda Item 5

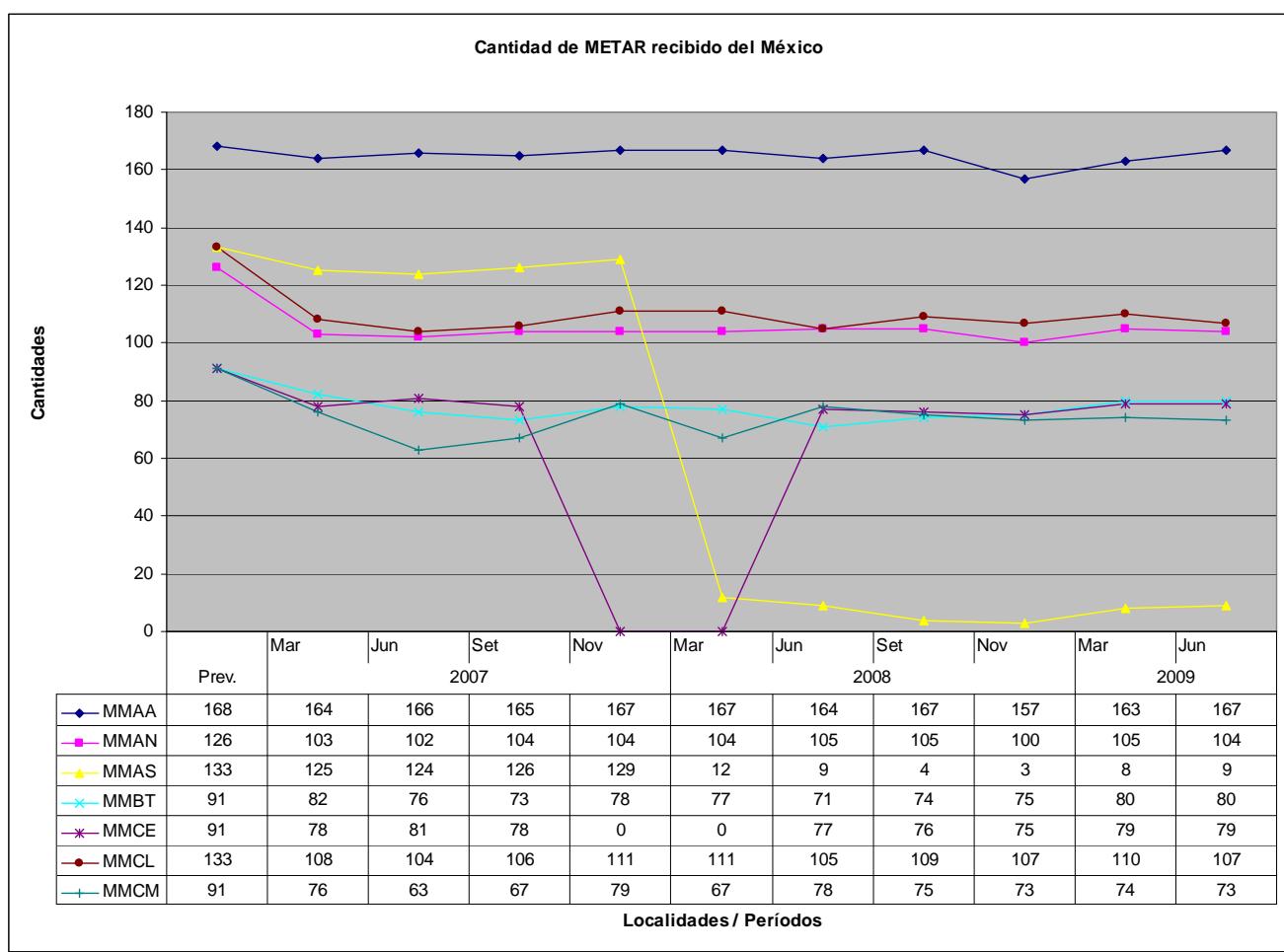
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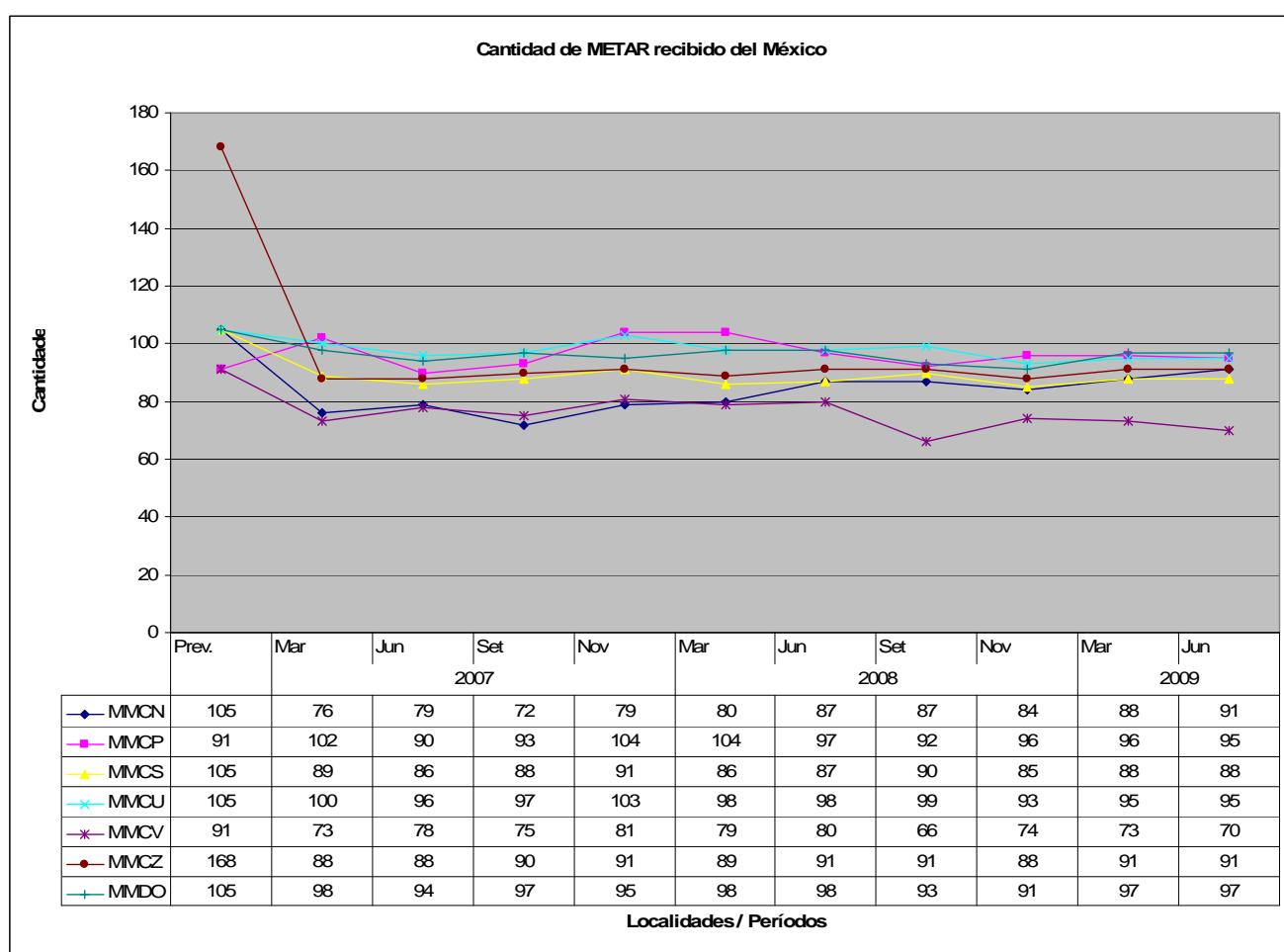




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Appendix E to the Report on Agenda Item 5

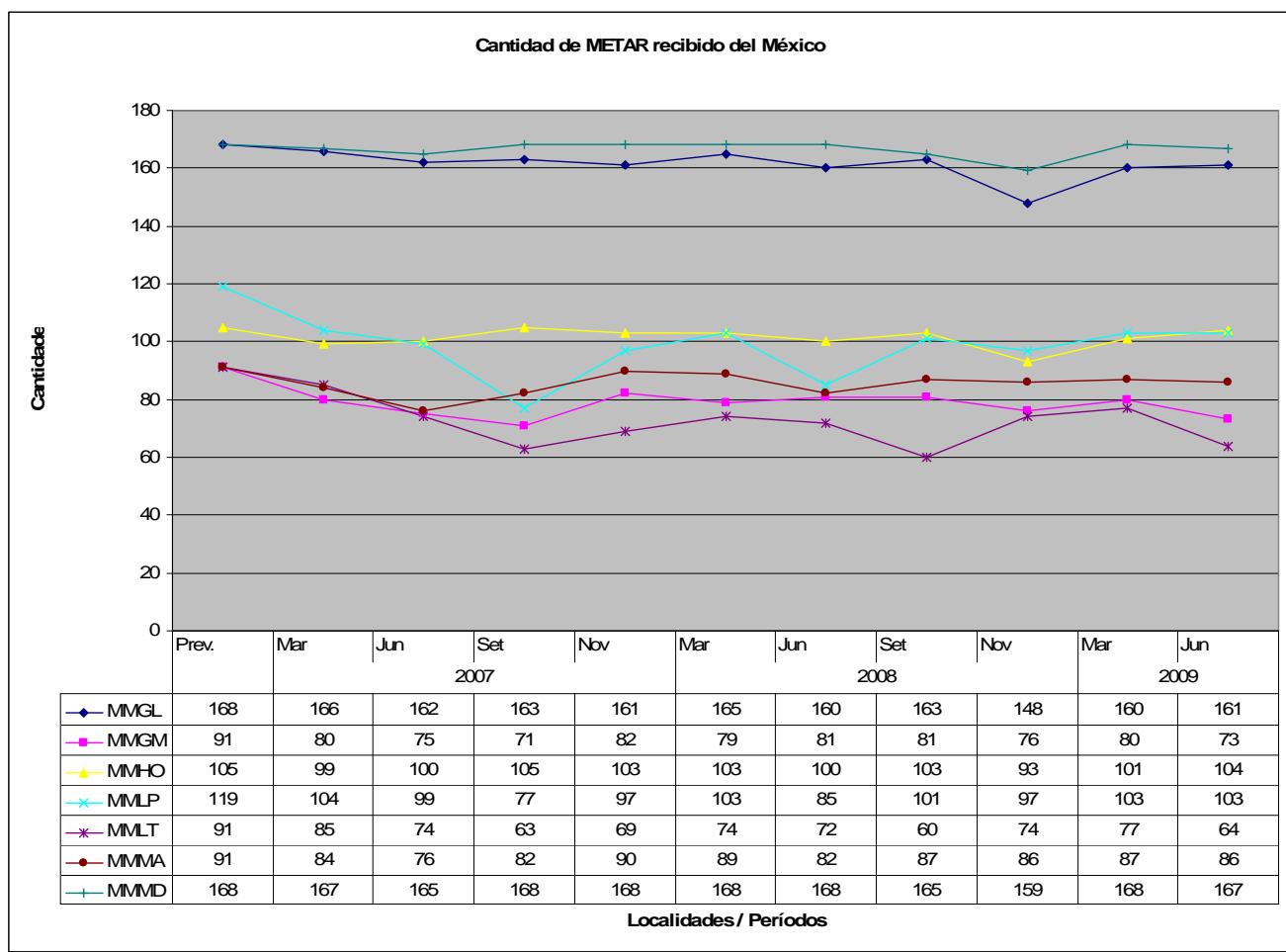
5E - 46

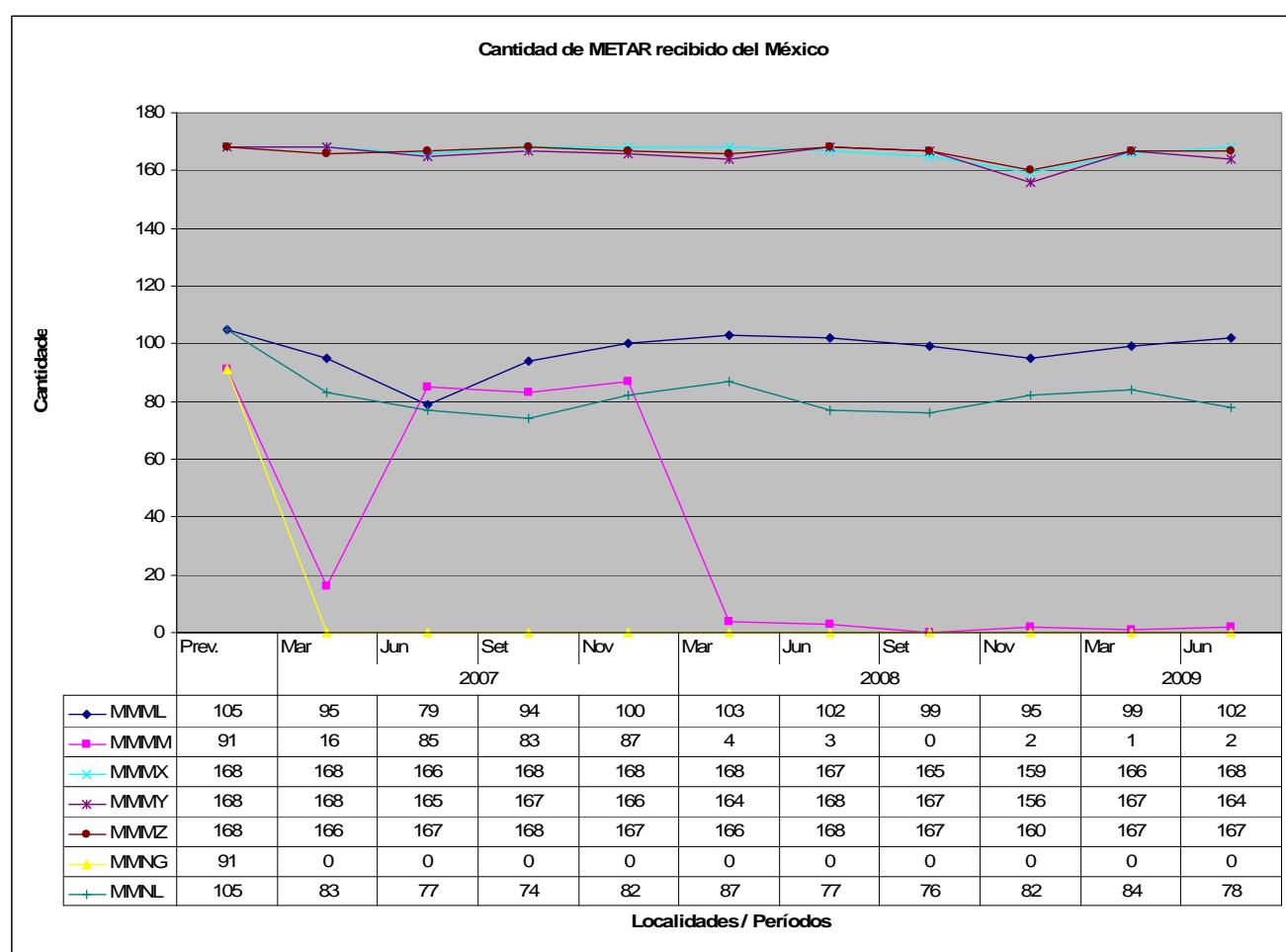




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Appendix E to the Report on Agenda Item 5

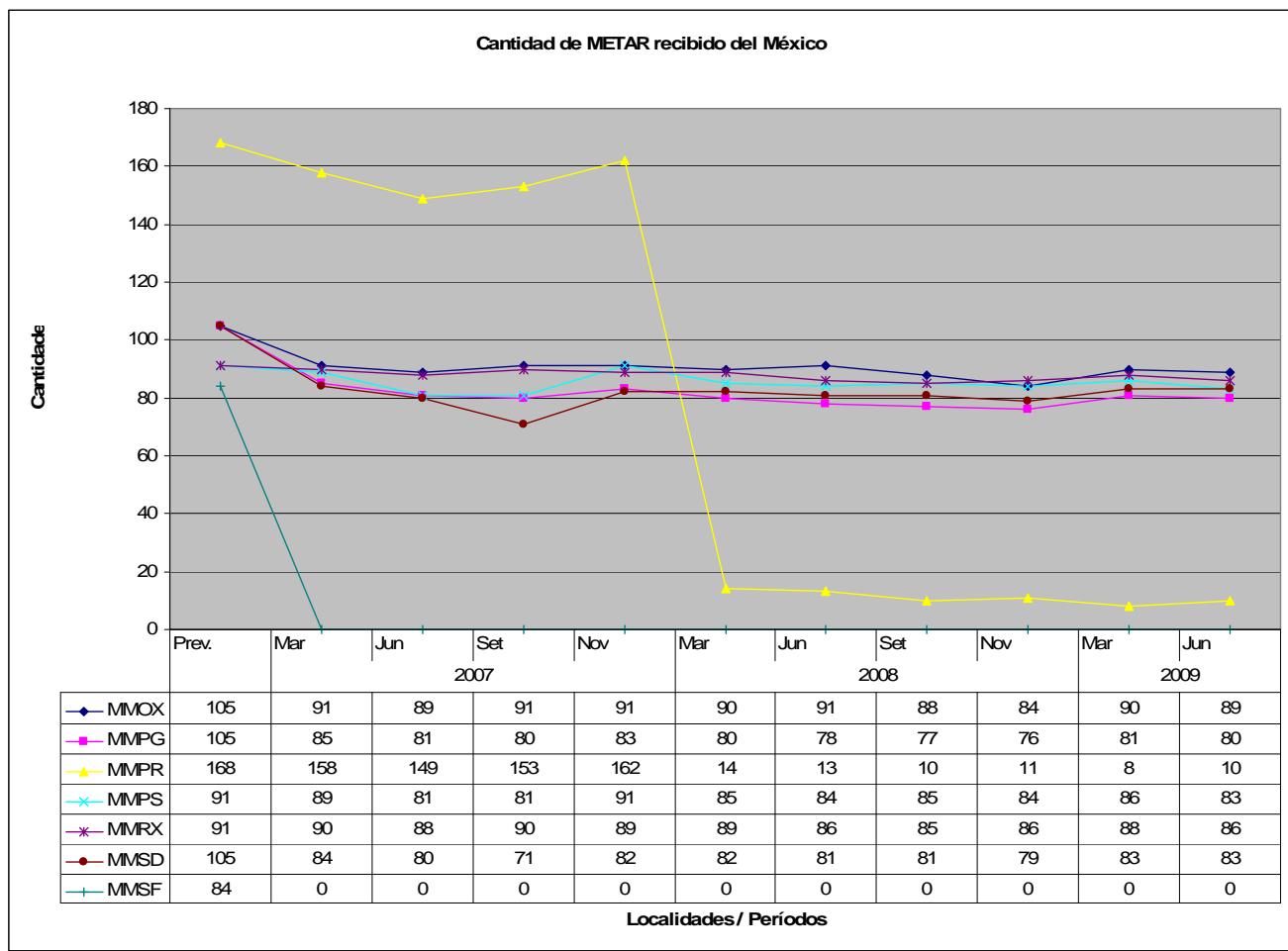
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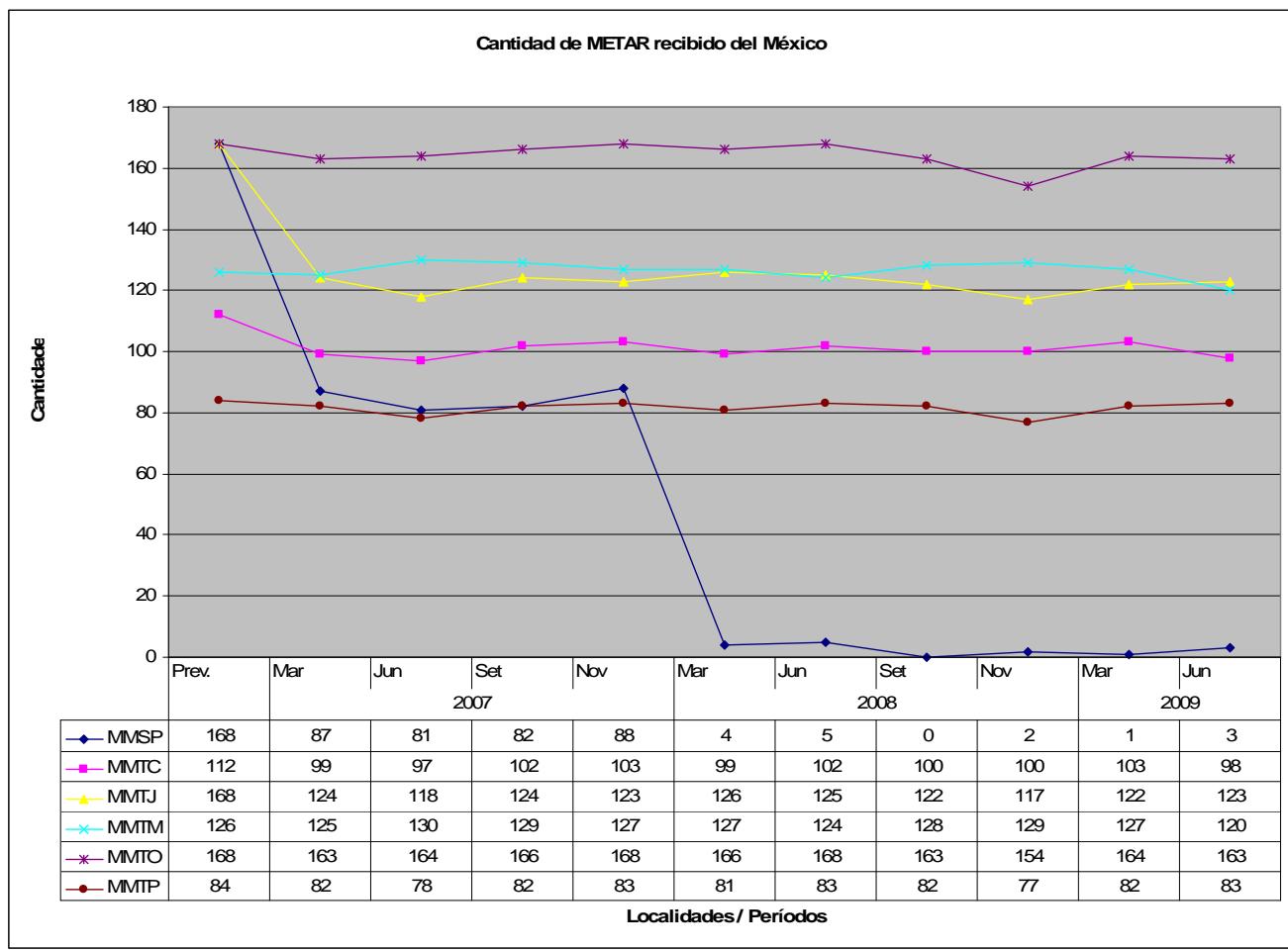




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Appendix E to the Report on Agenda Item 5

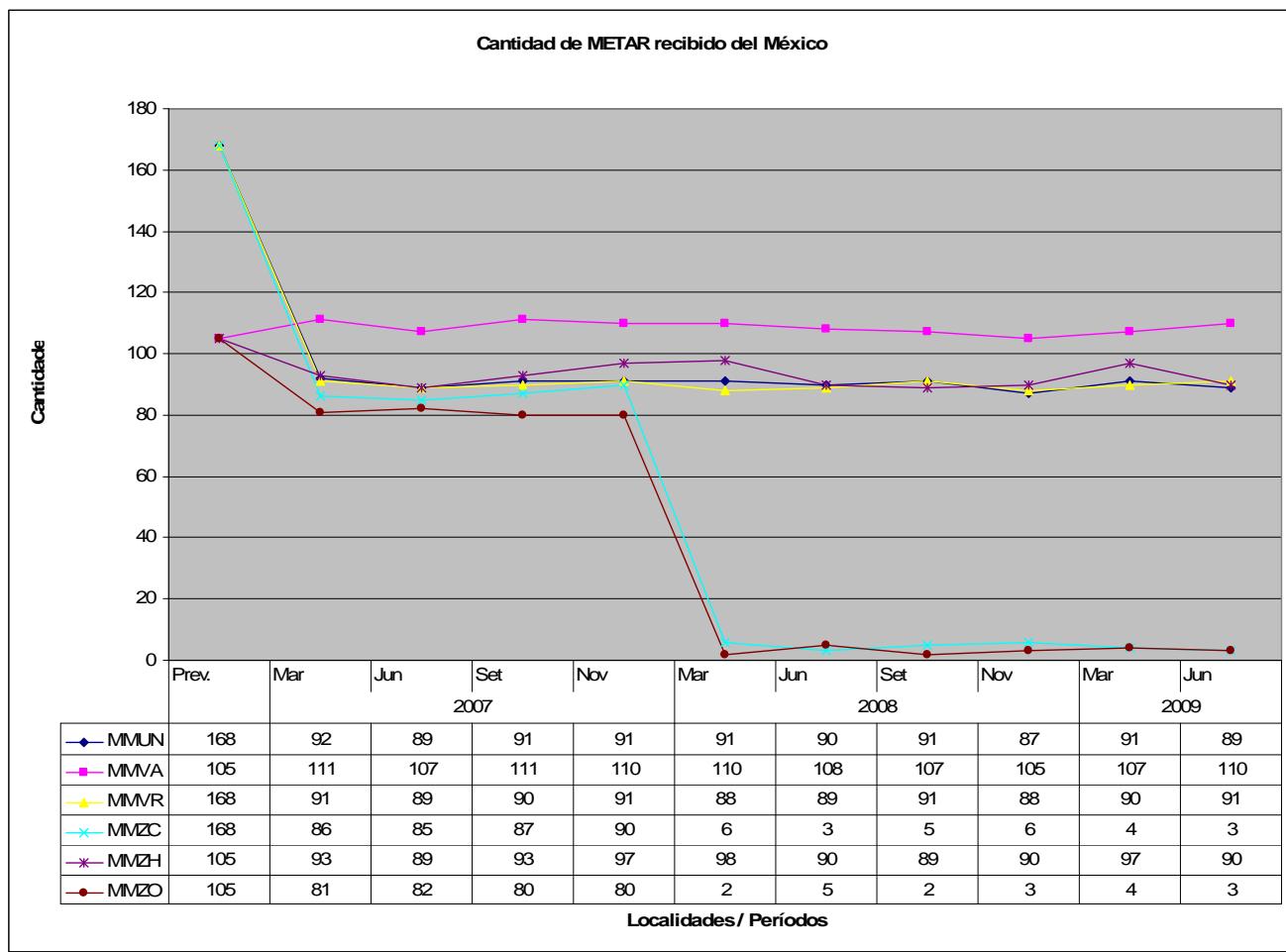
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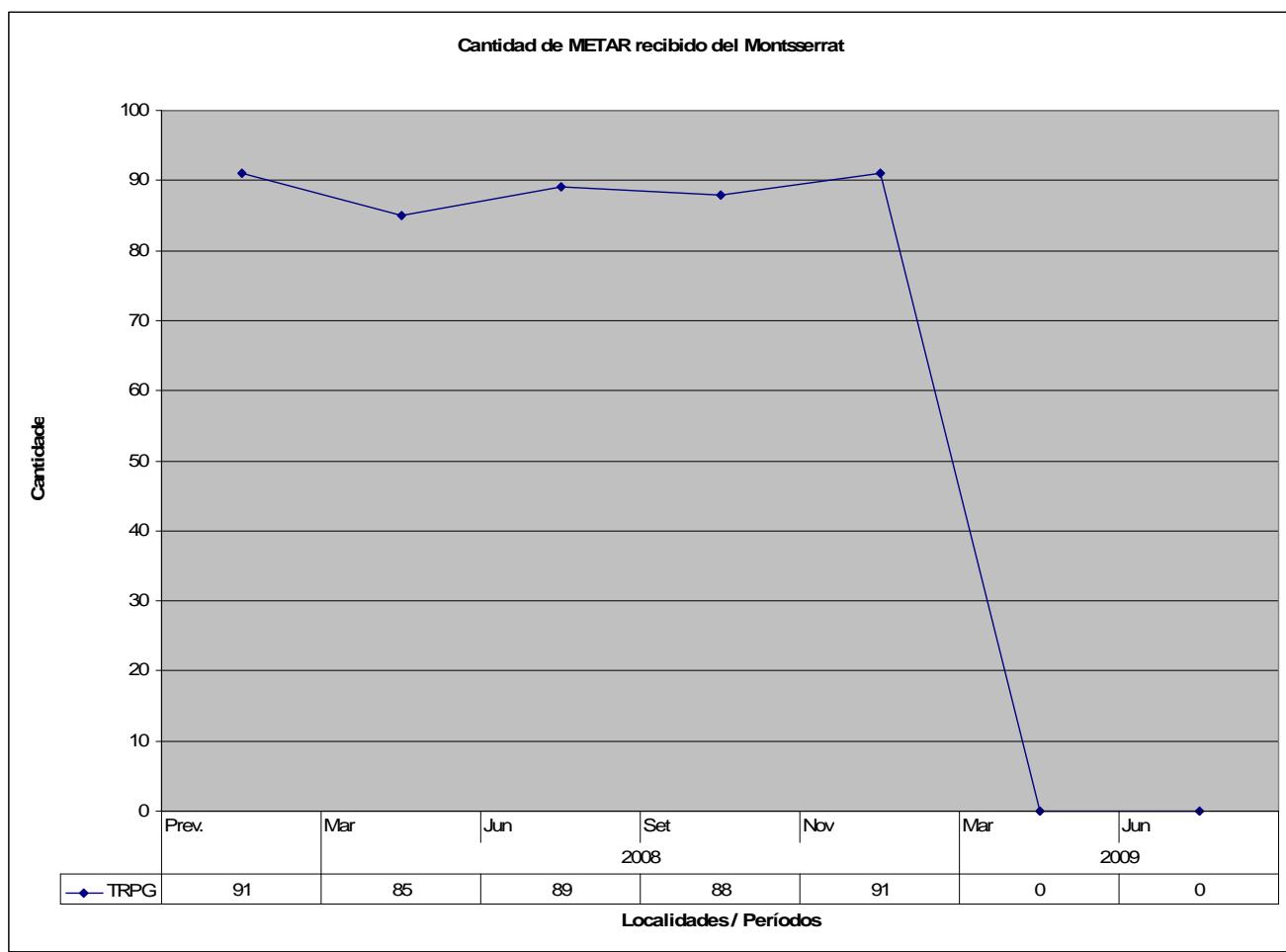




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Appendix E to the Report on Agenda Item 5

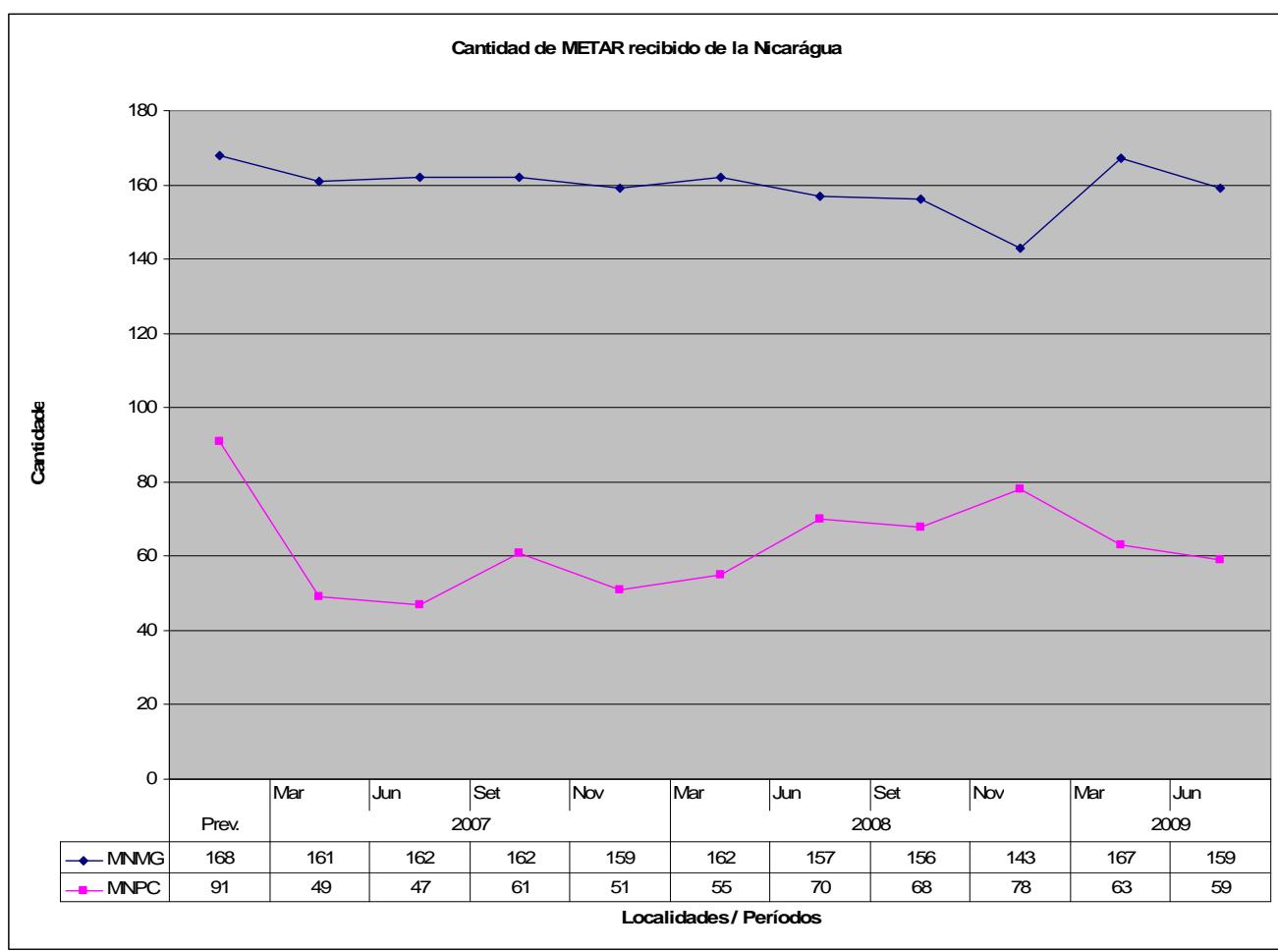
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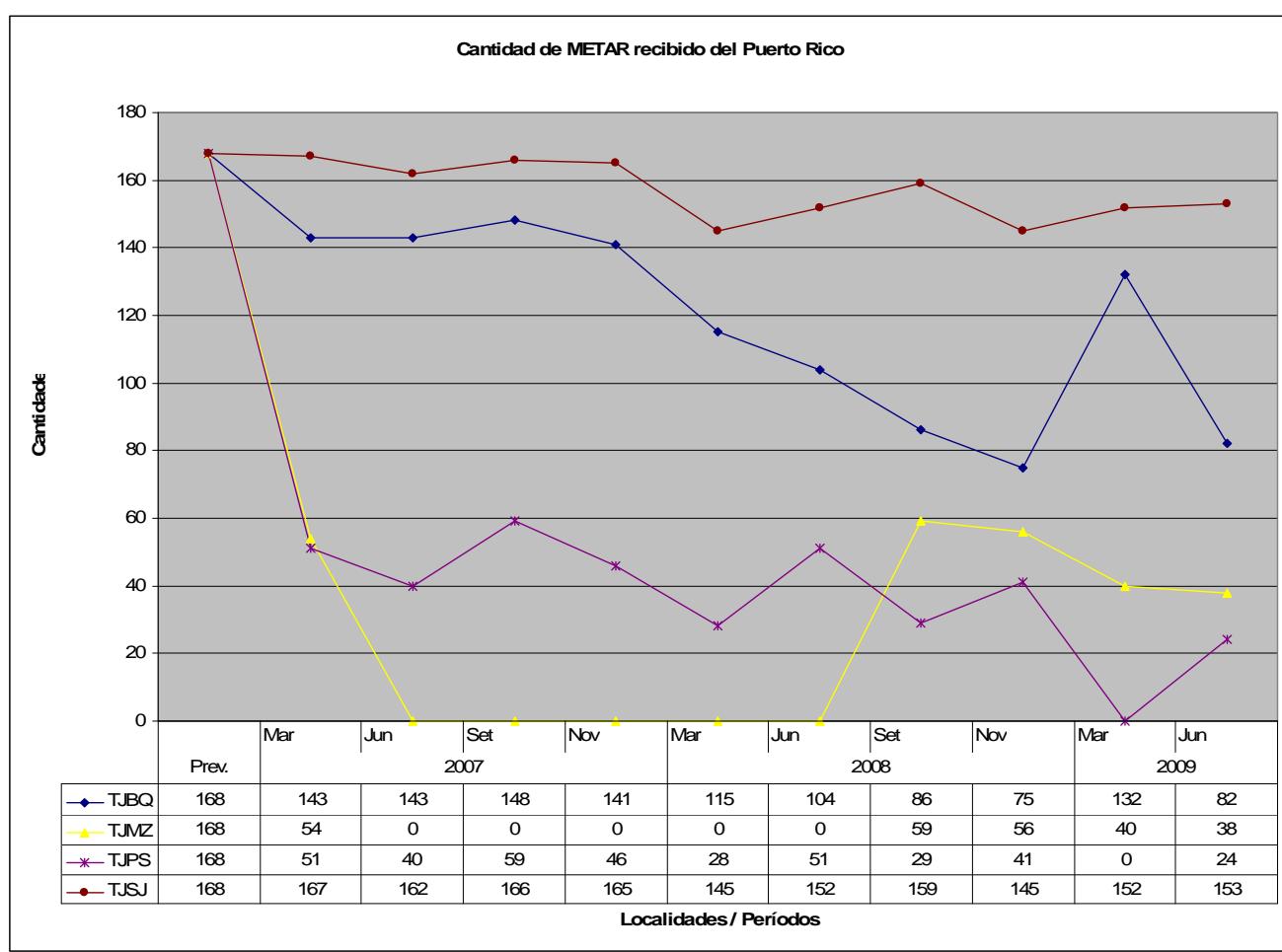




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Appendix E to the Report on Agenda Item 5

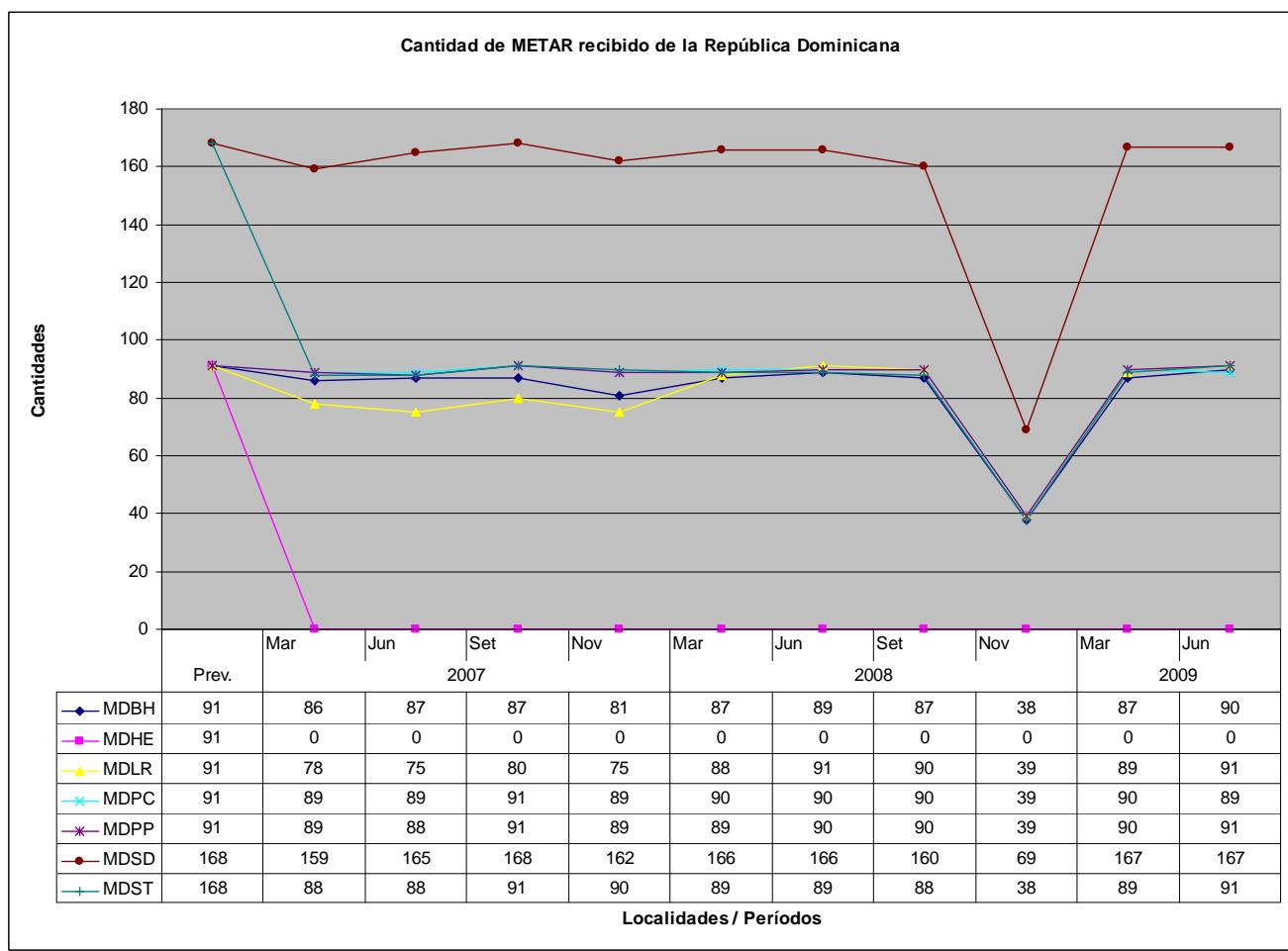
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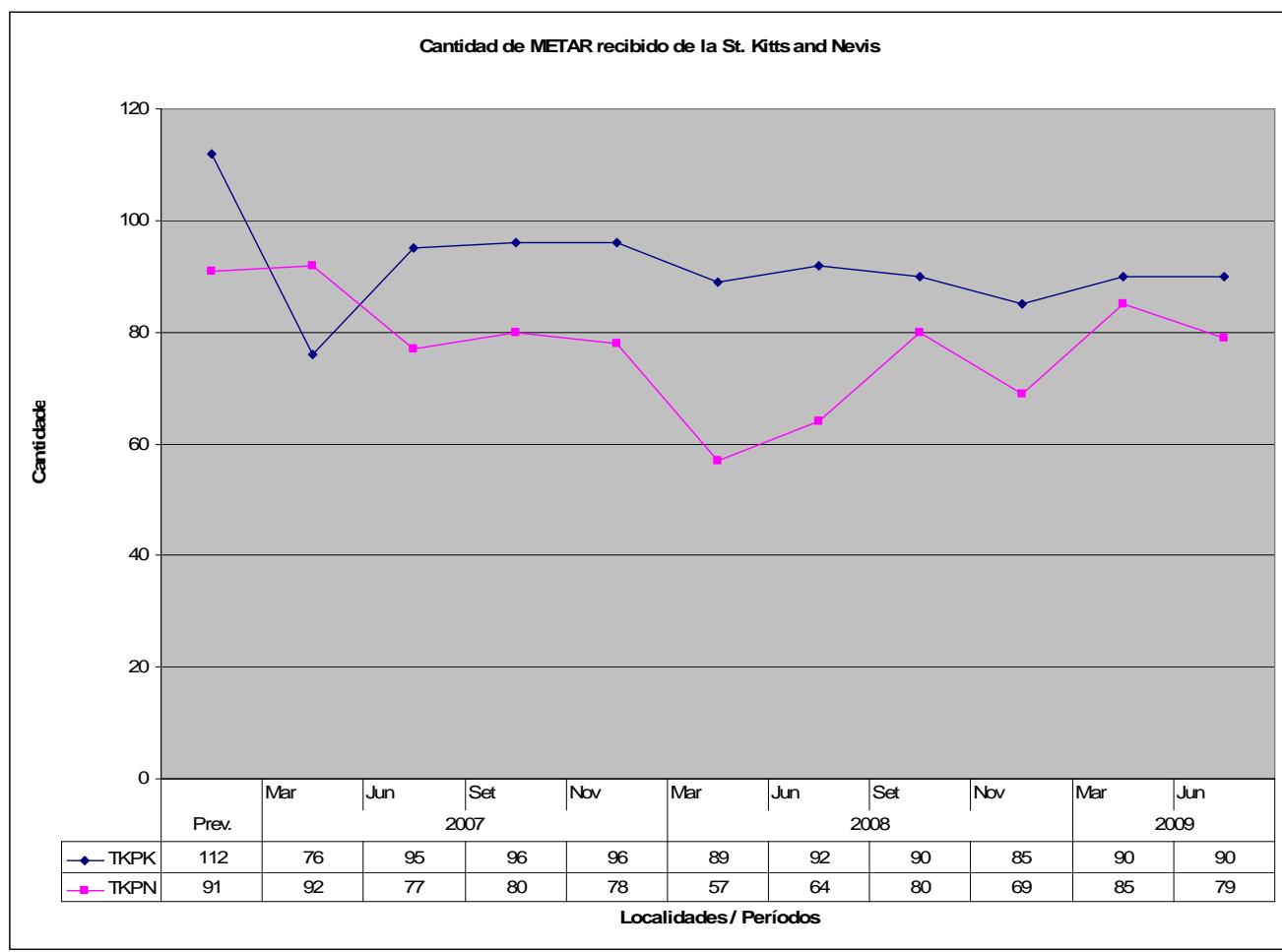


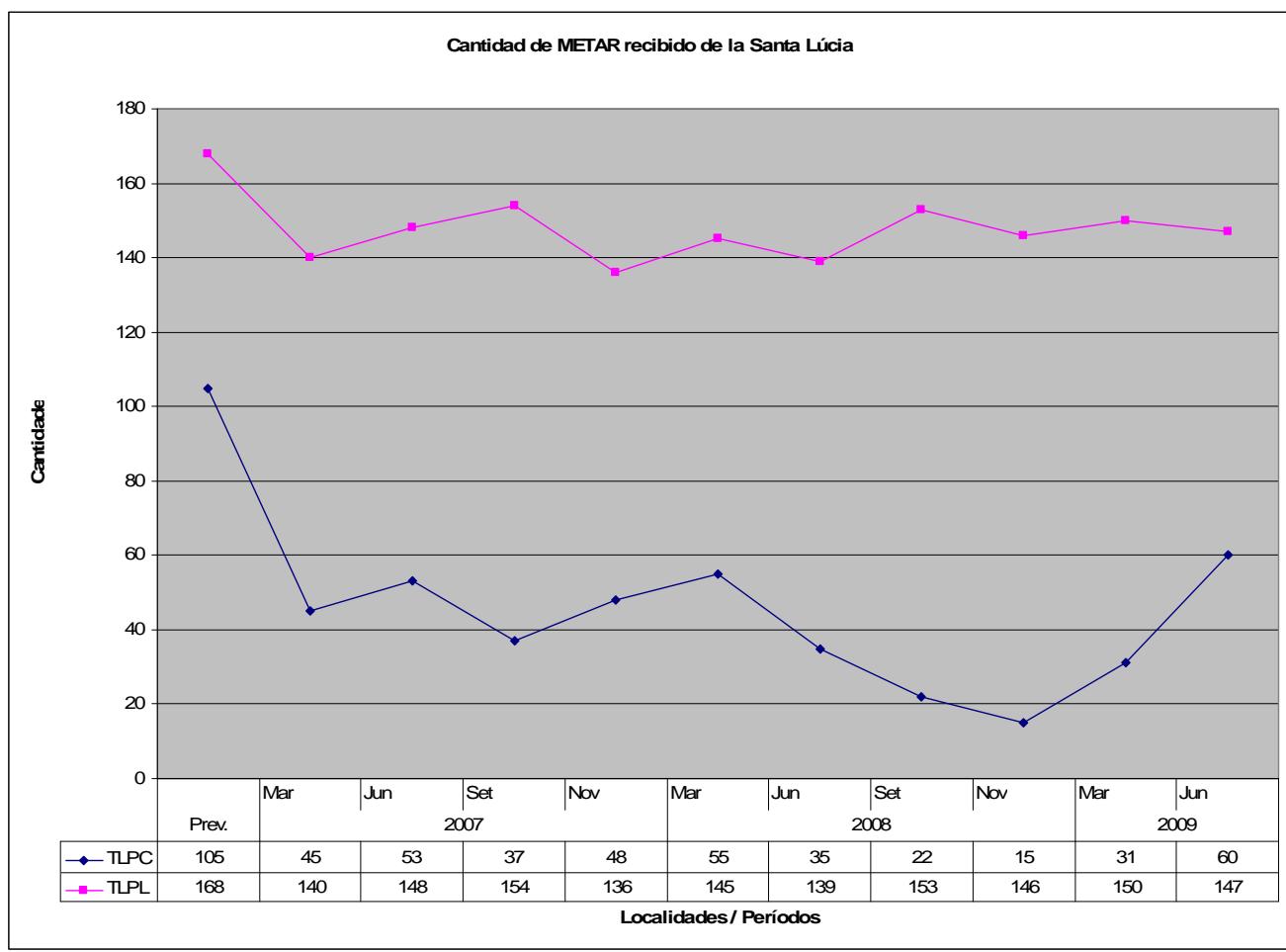


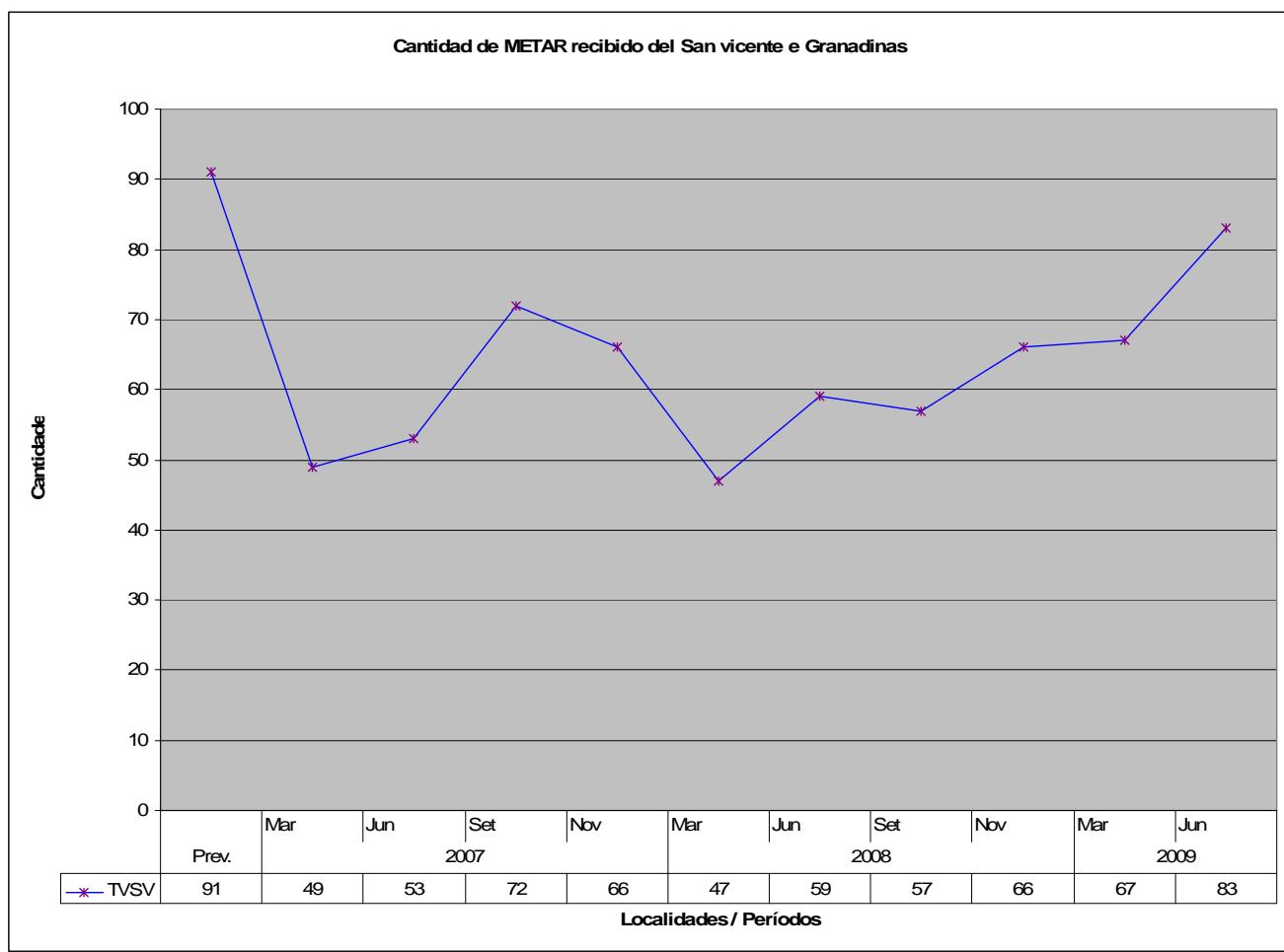
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5E - 56



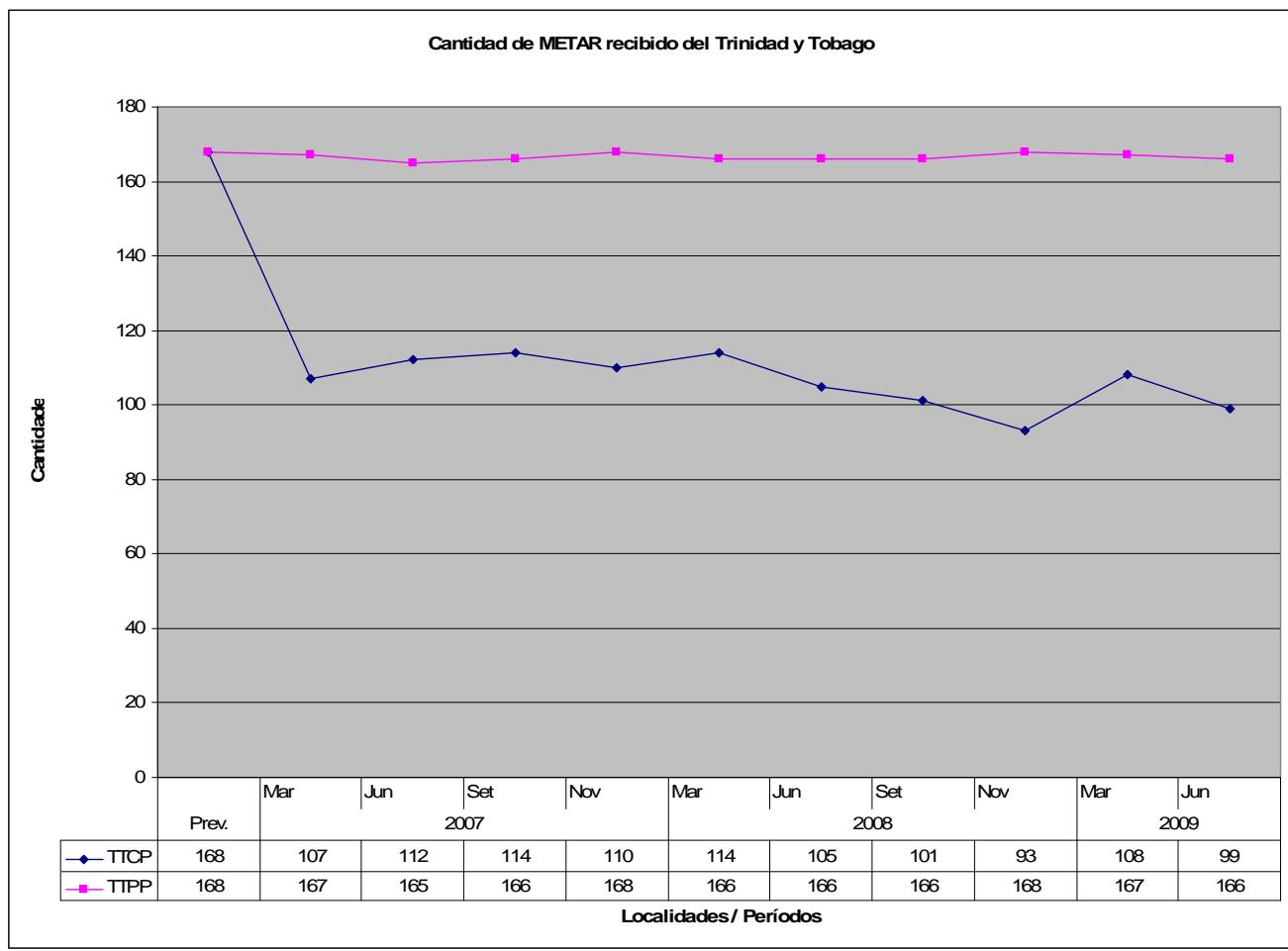


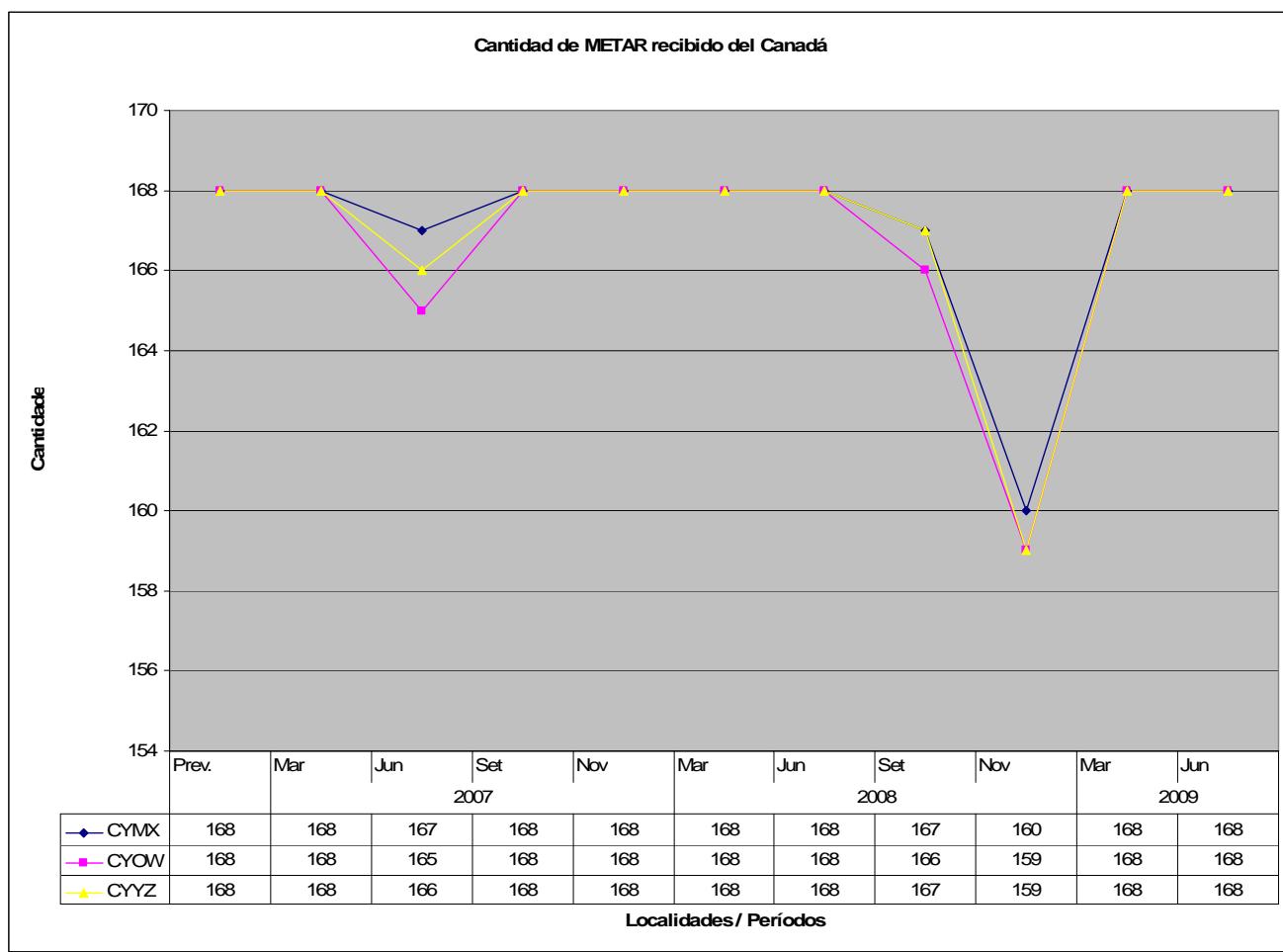


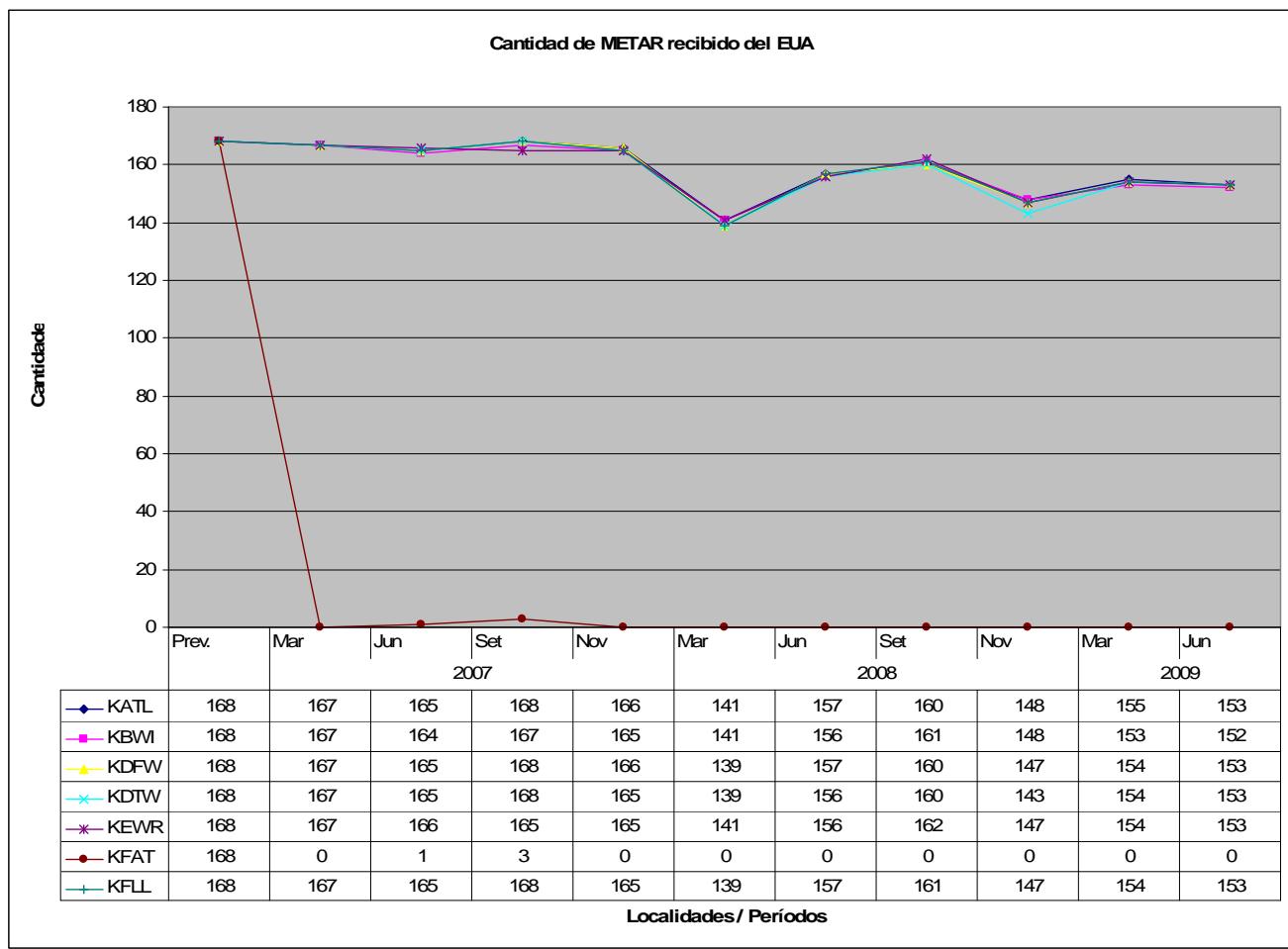


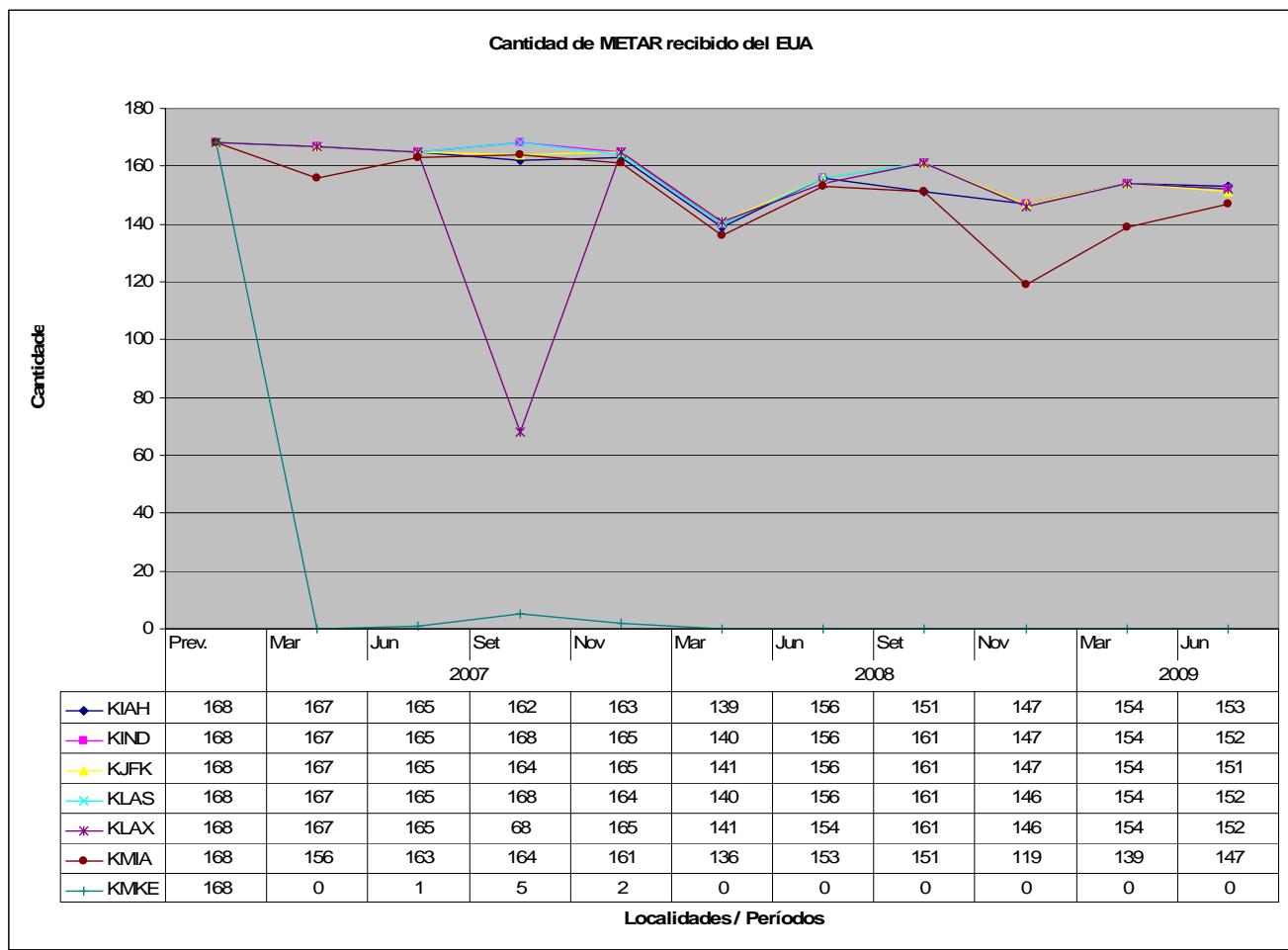
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5E - 60



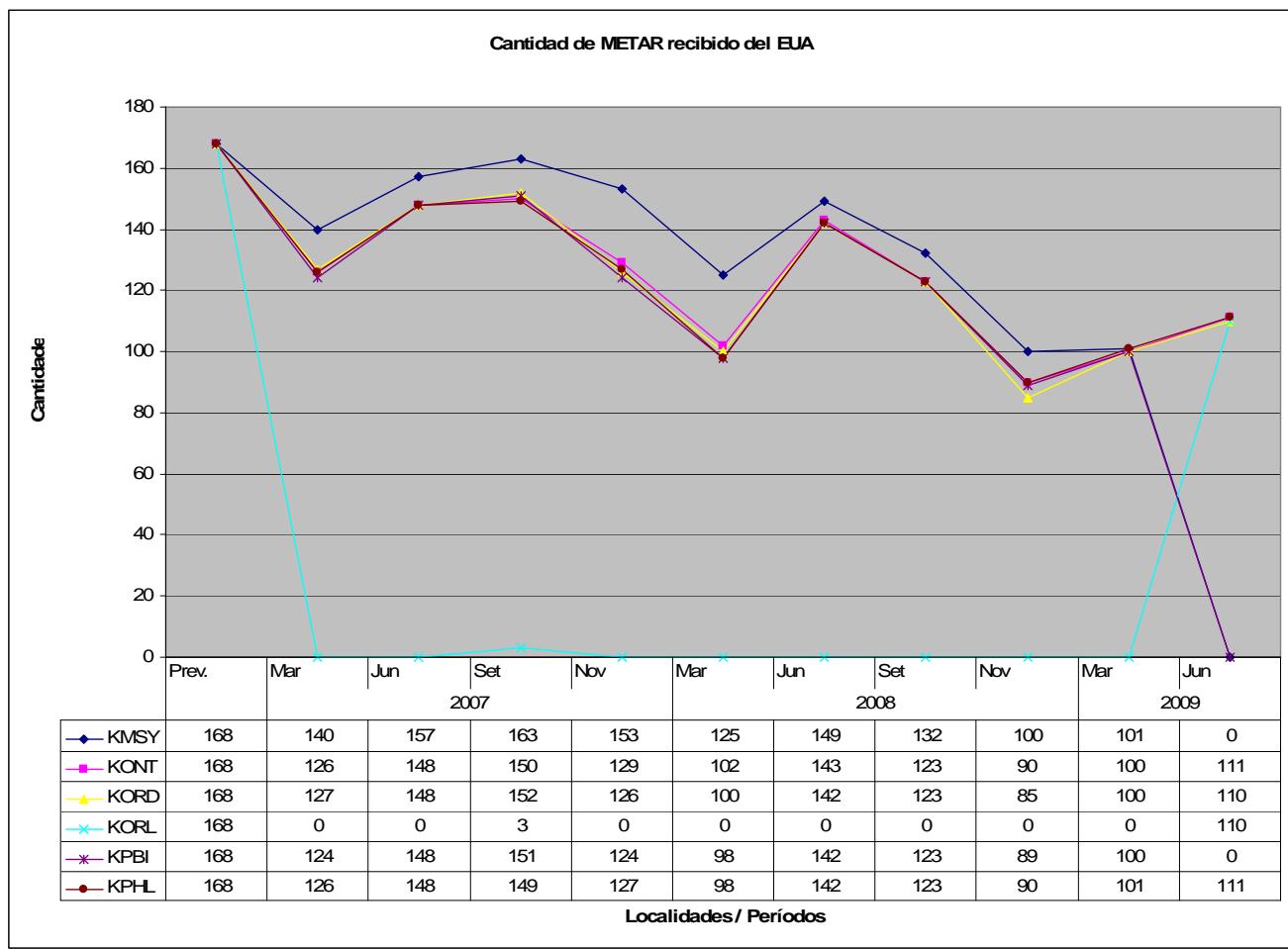


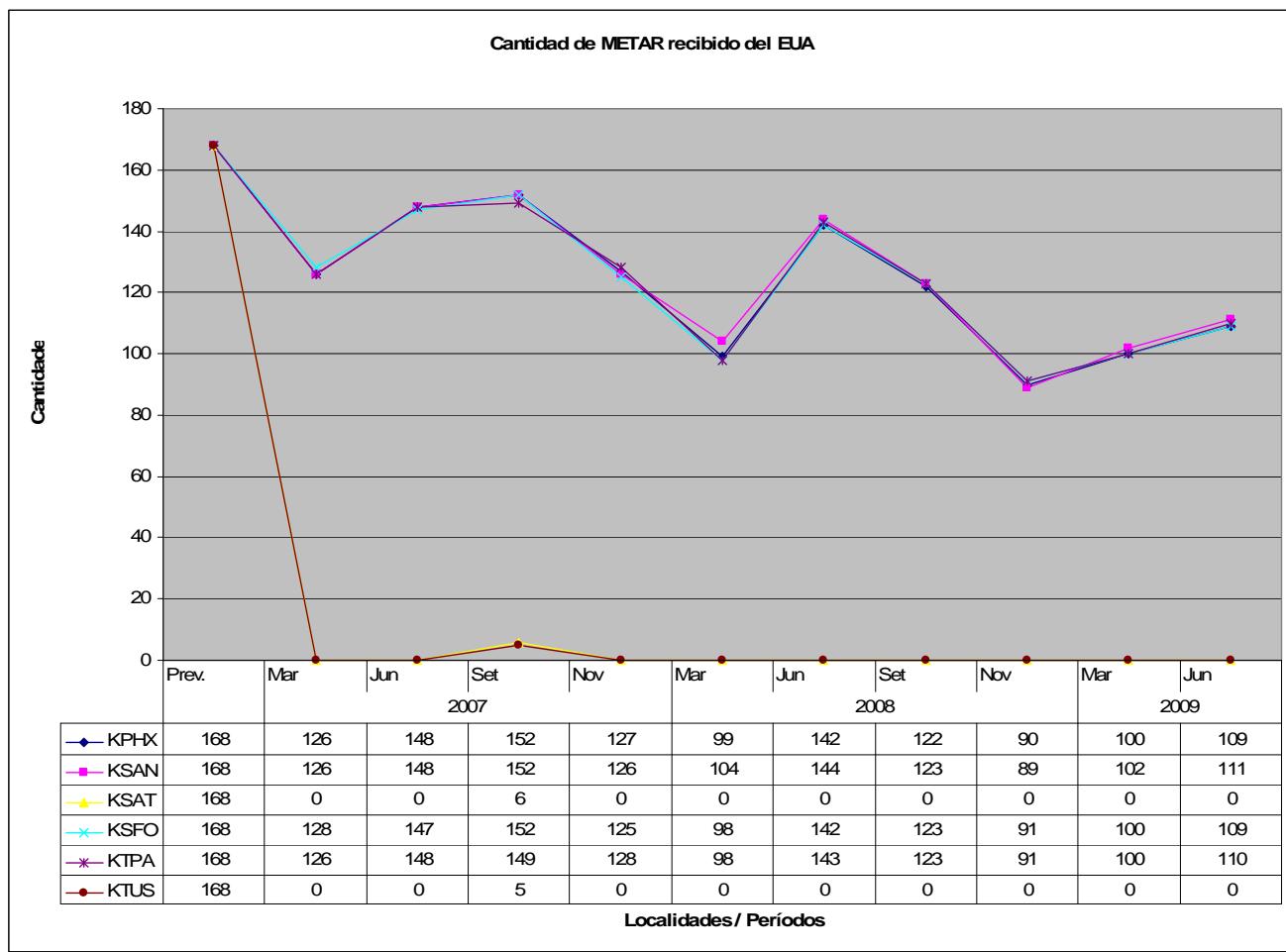




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Appendix E to the Report on Agenda Item 5

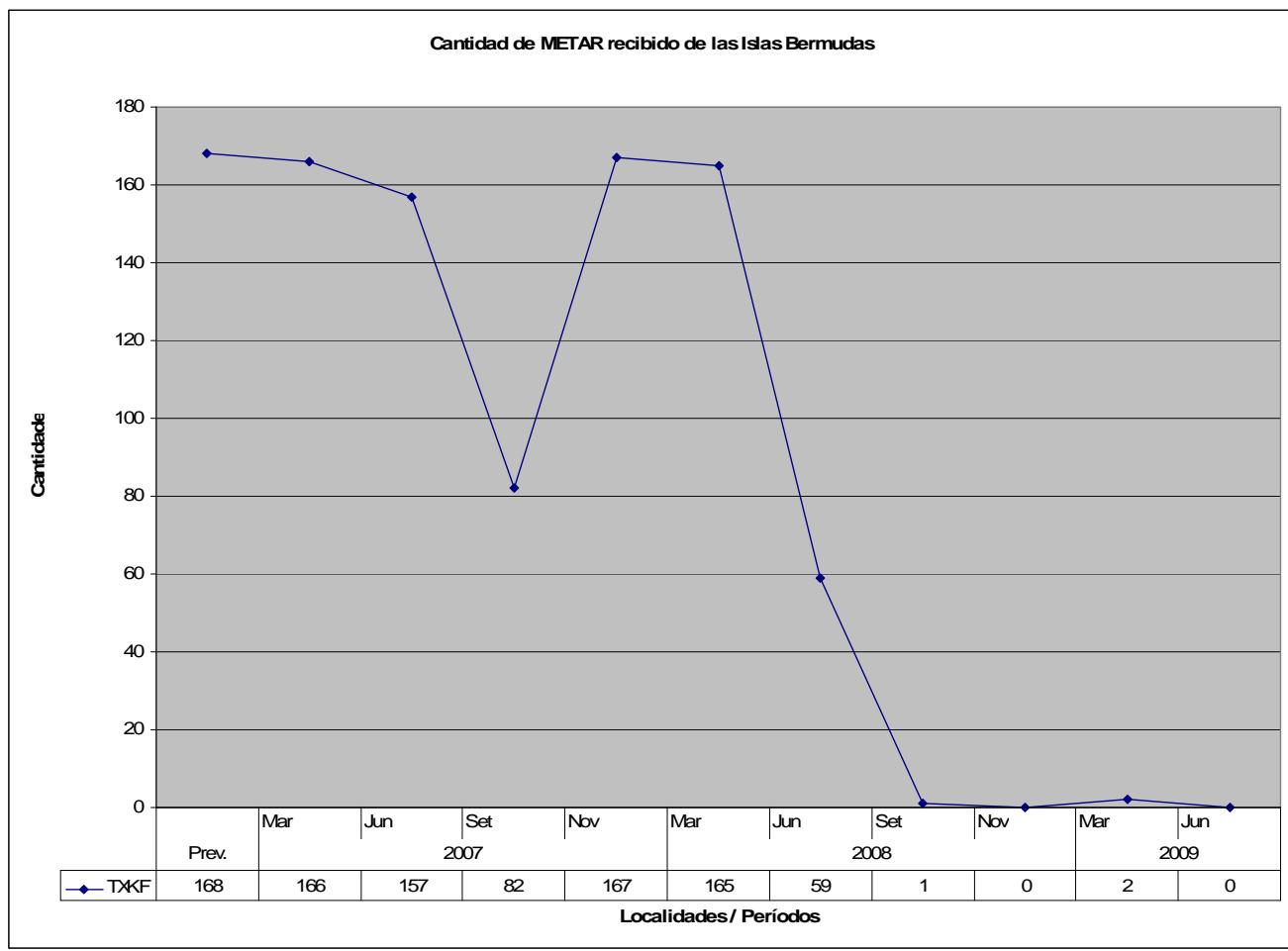
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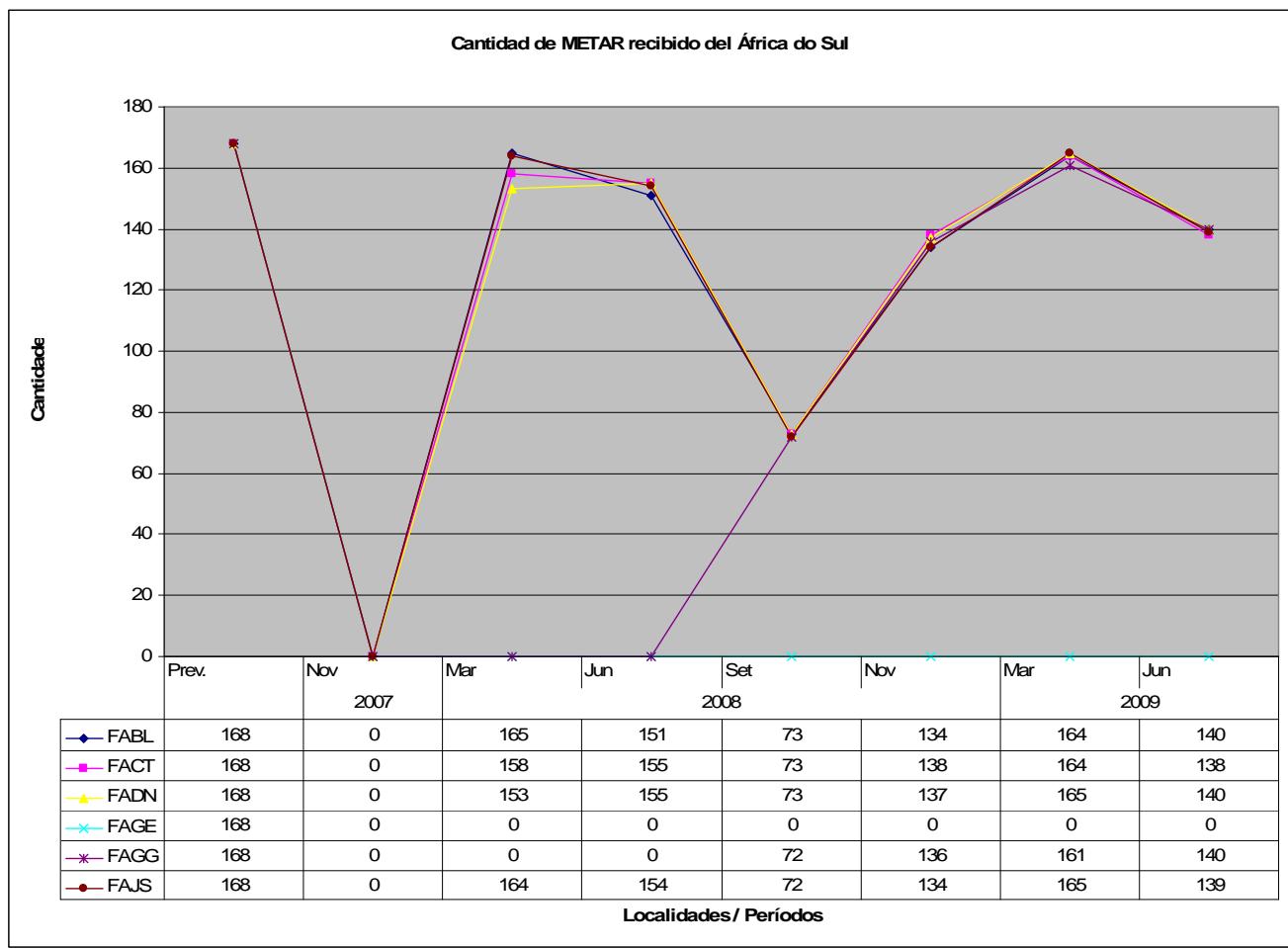




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Appendix E to the Report on Agenda Item 5

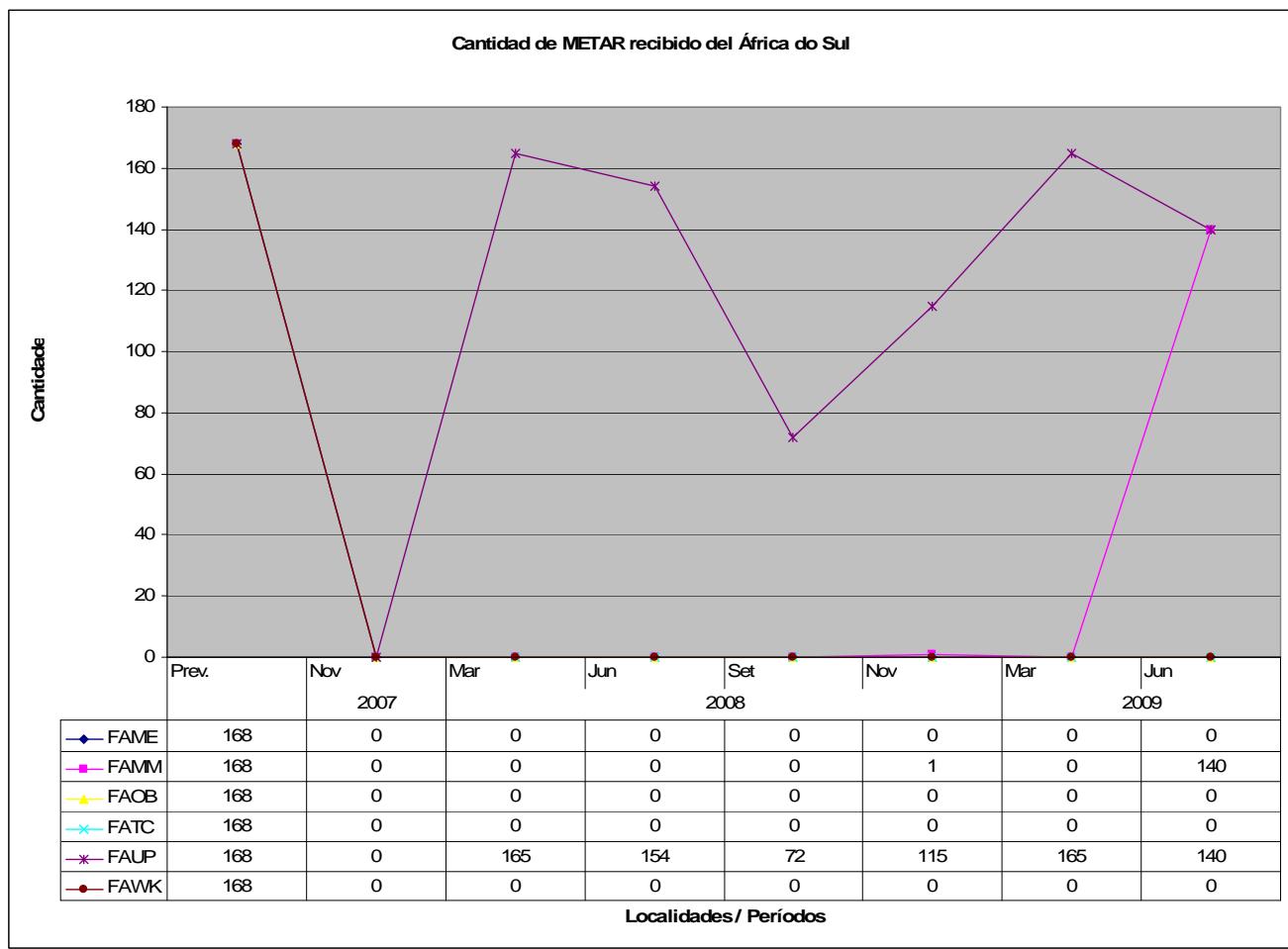
5E - 66

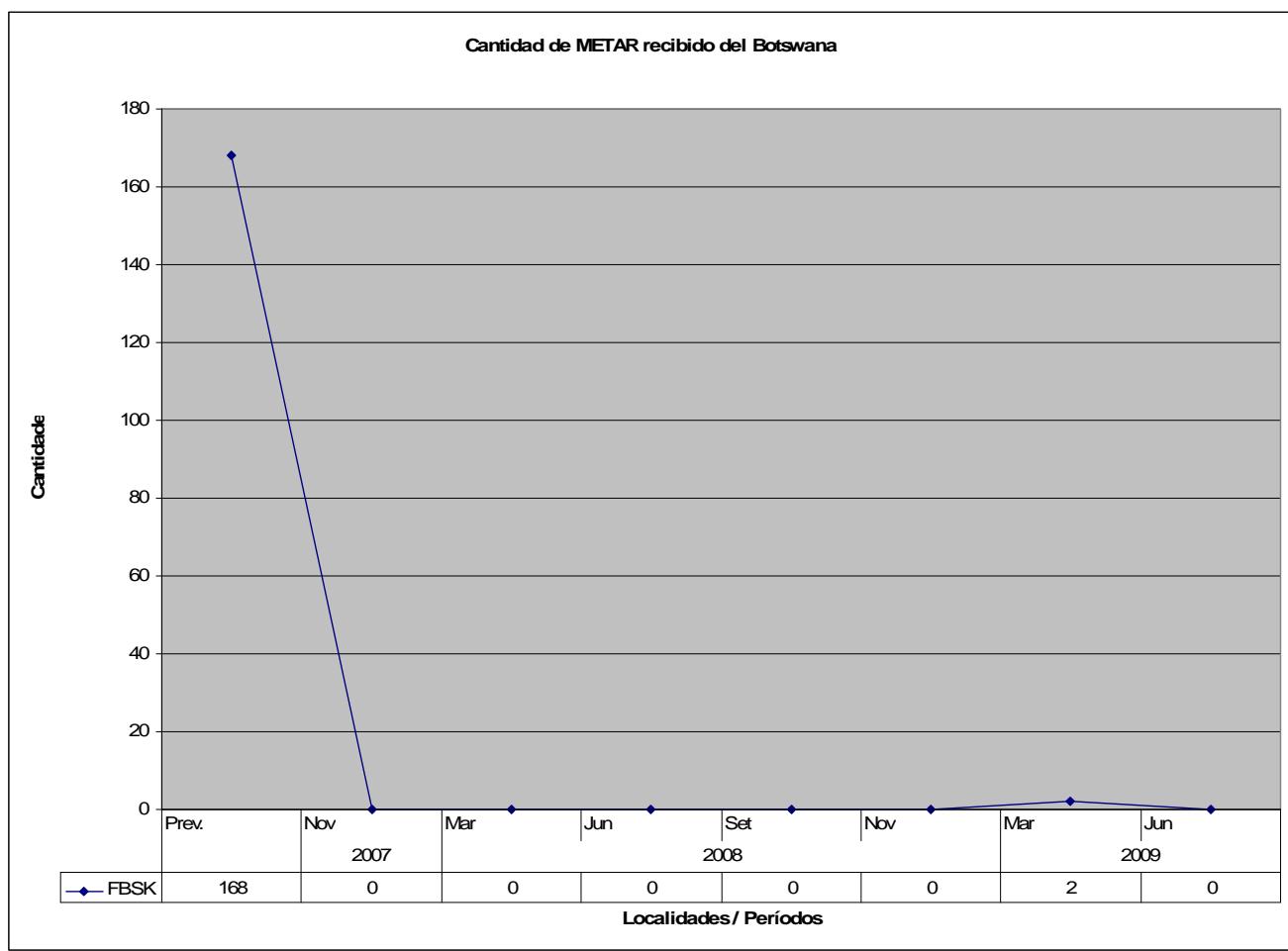




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Appendix E to the Report on Agenda Item 5

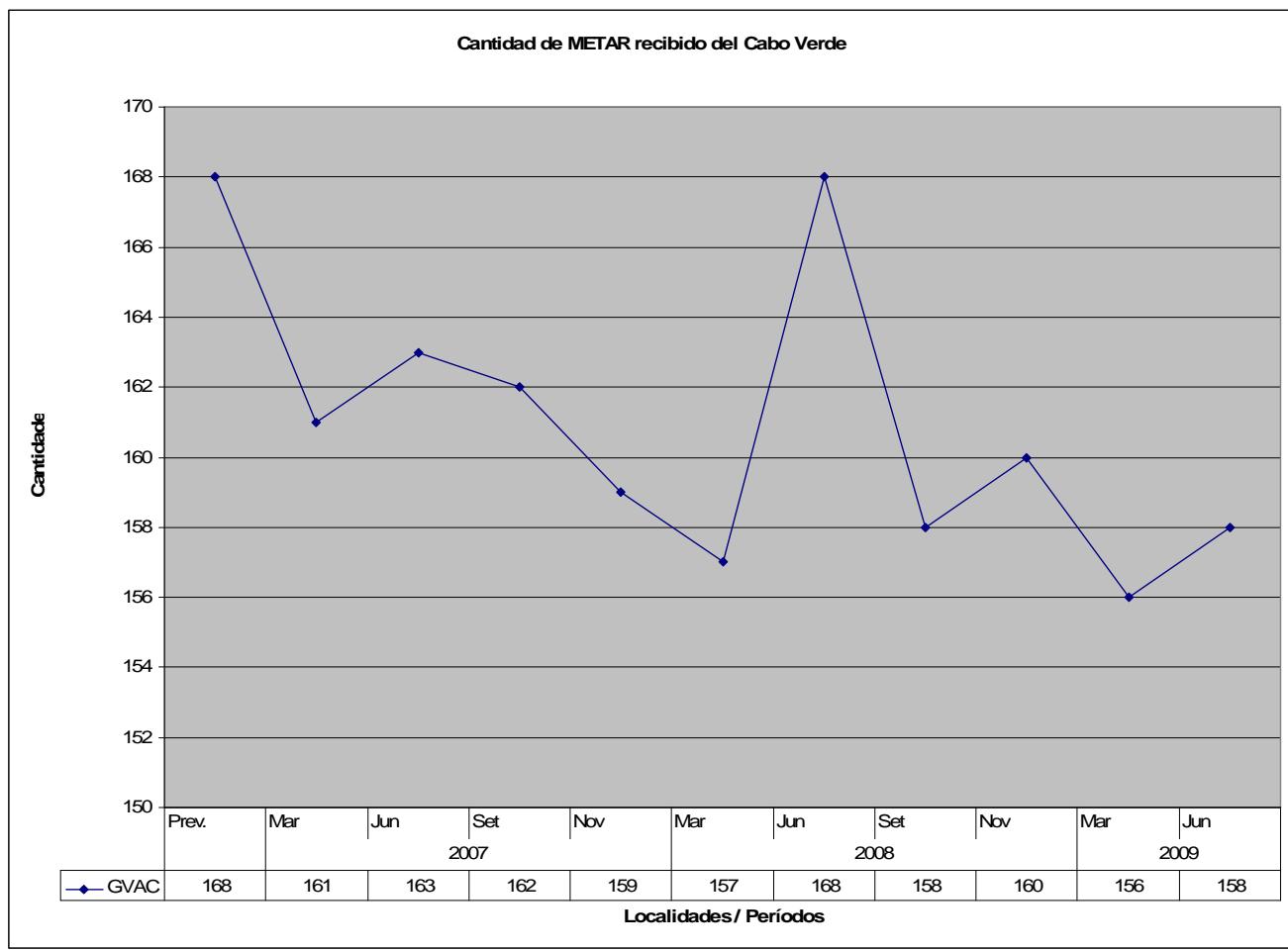
5E - 68

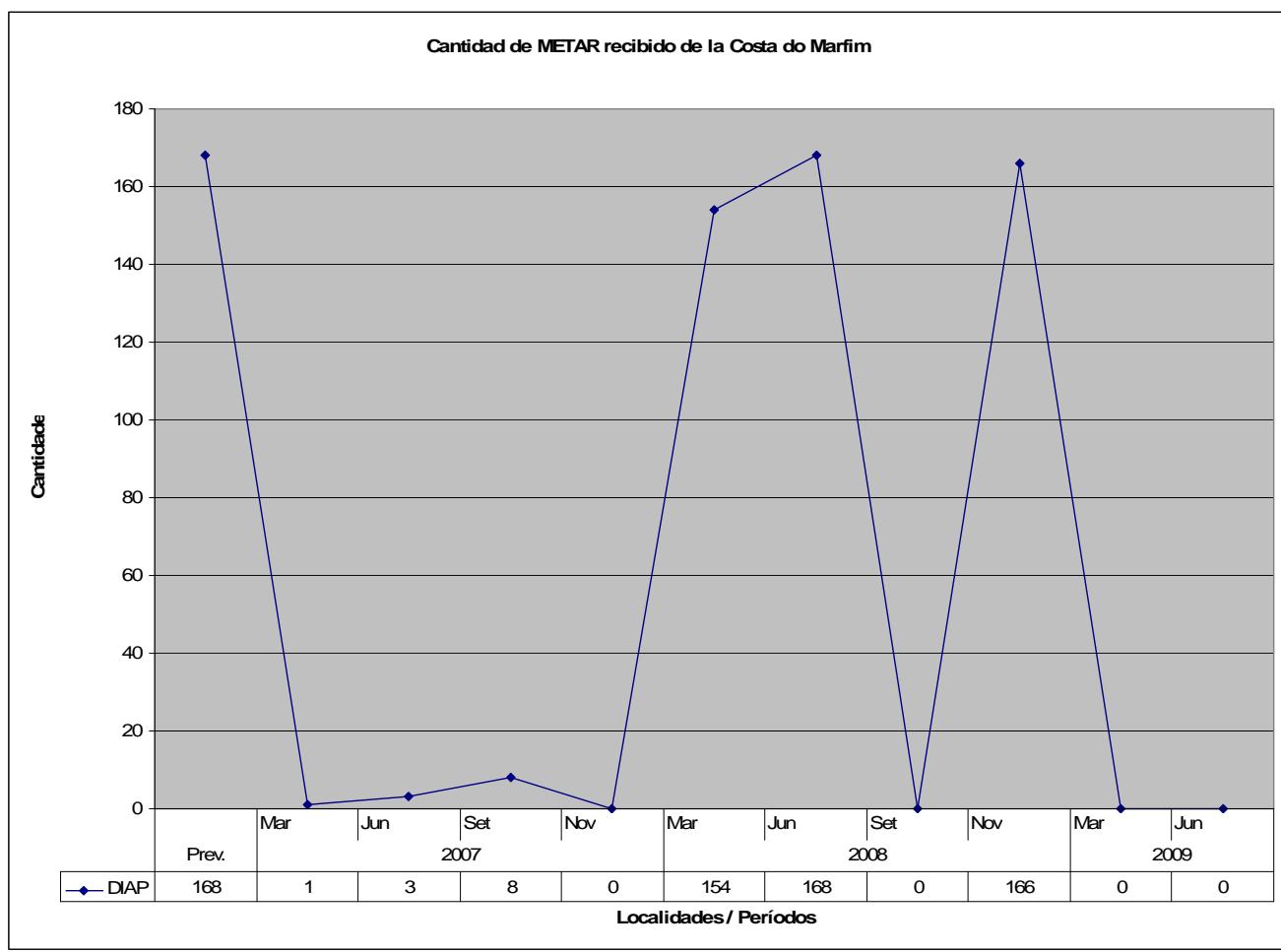




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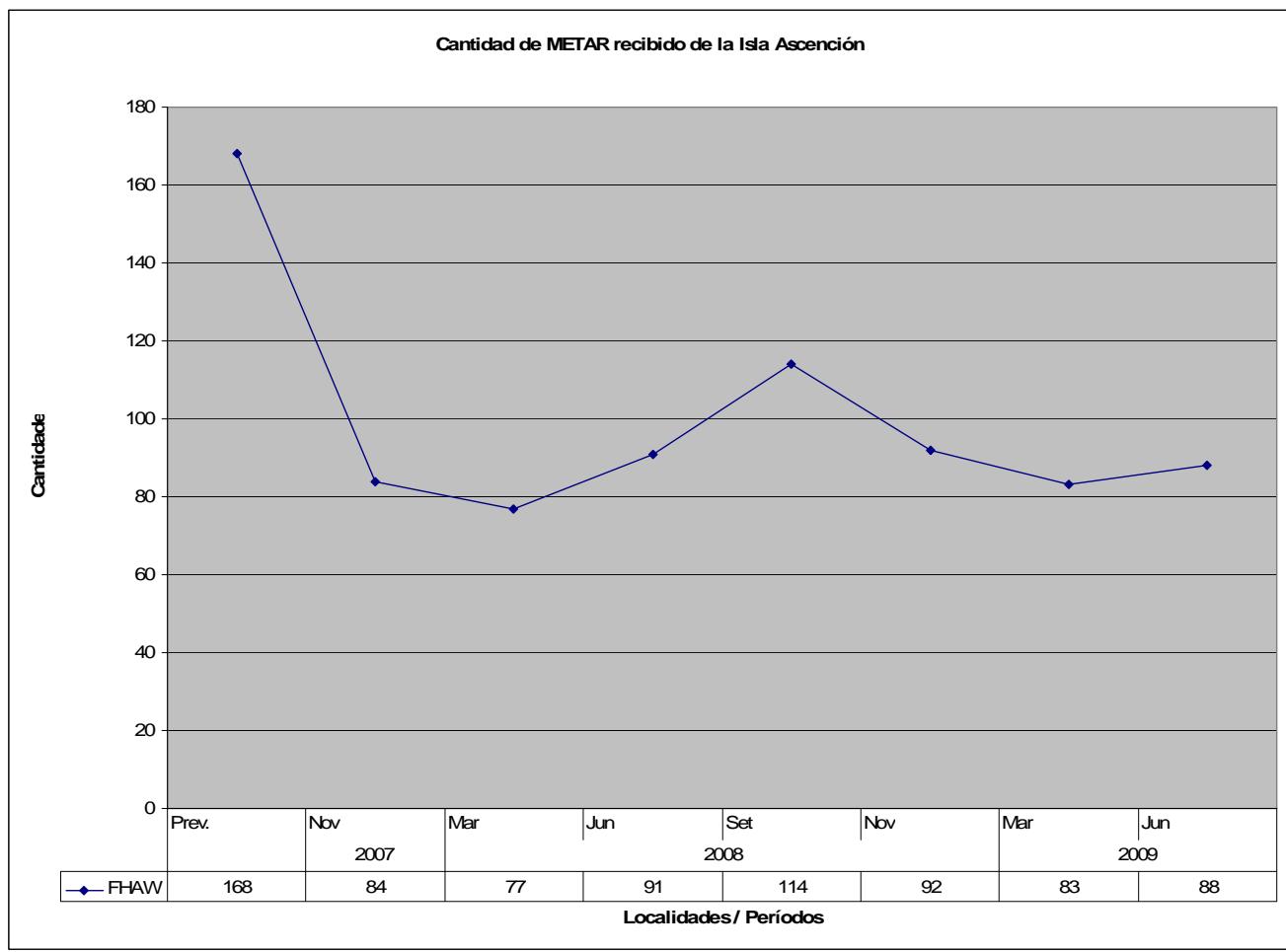
5E - 70

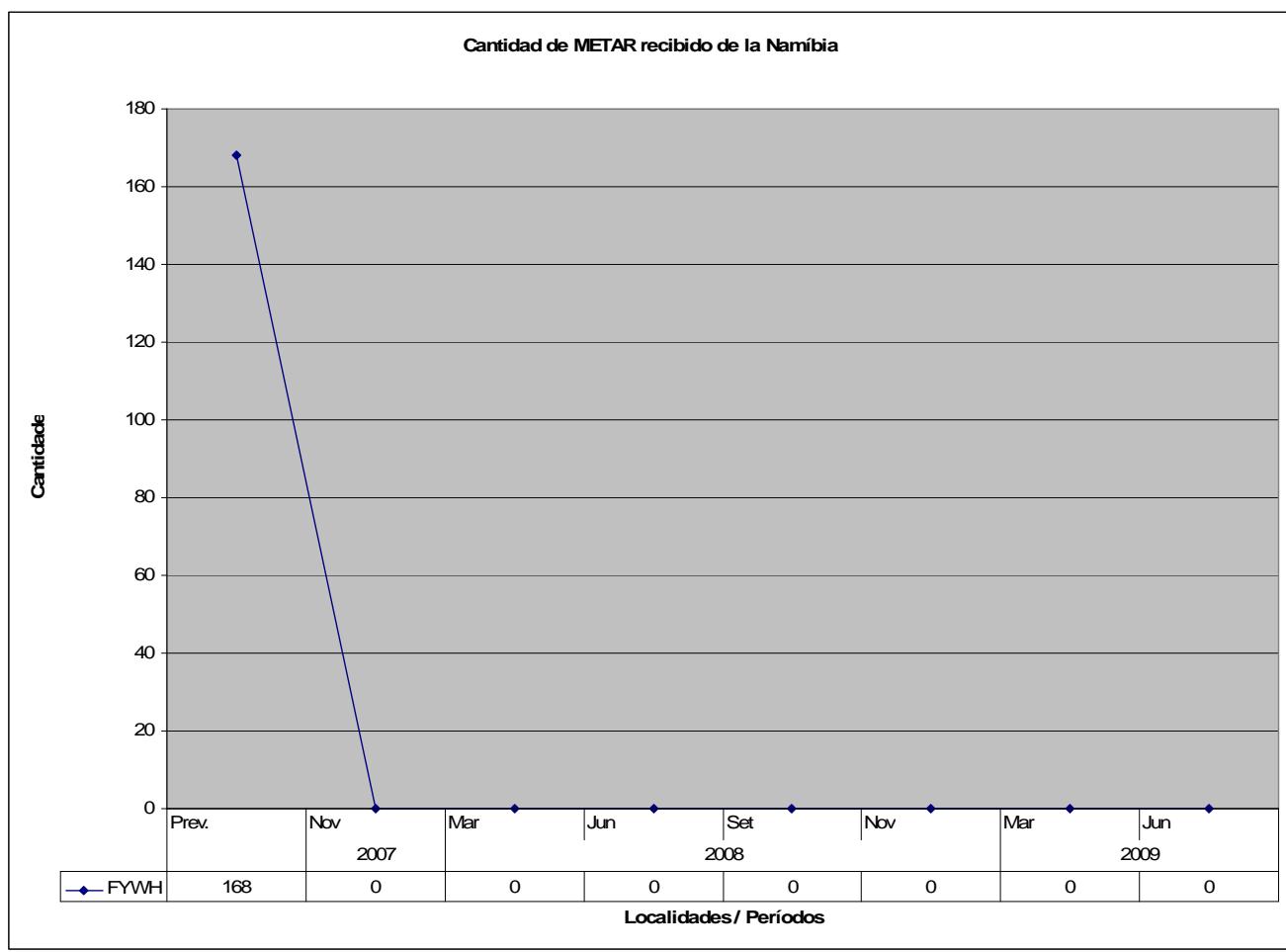


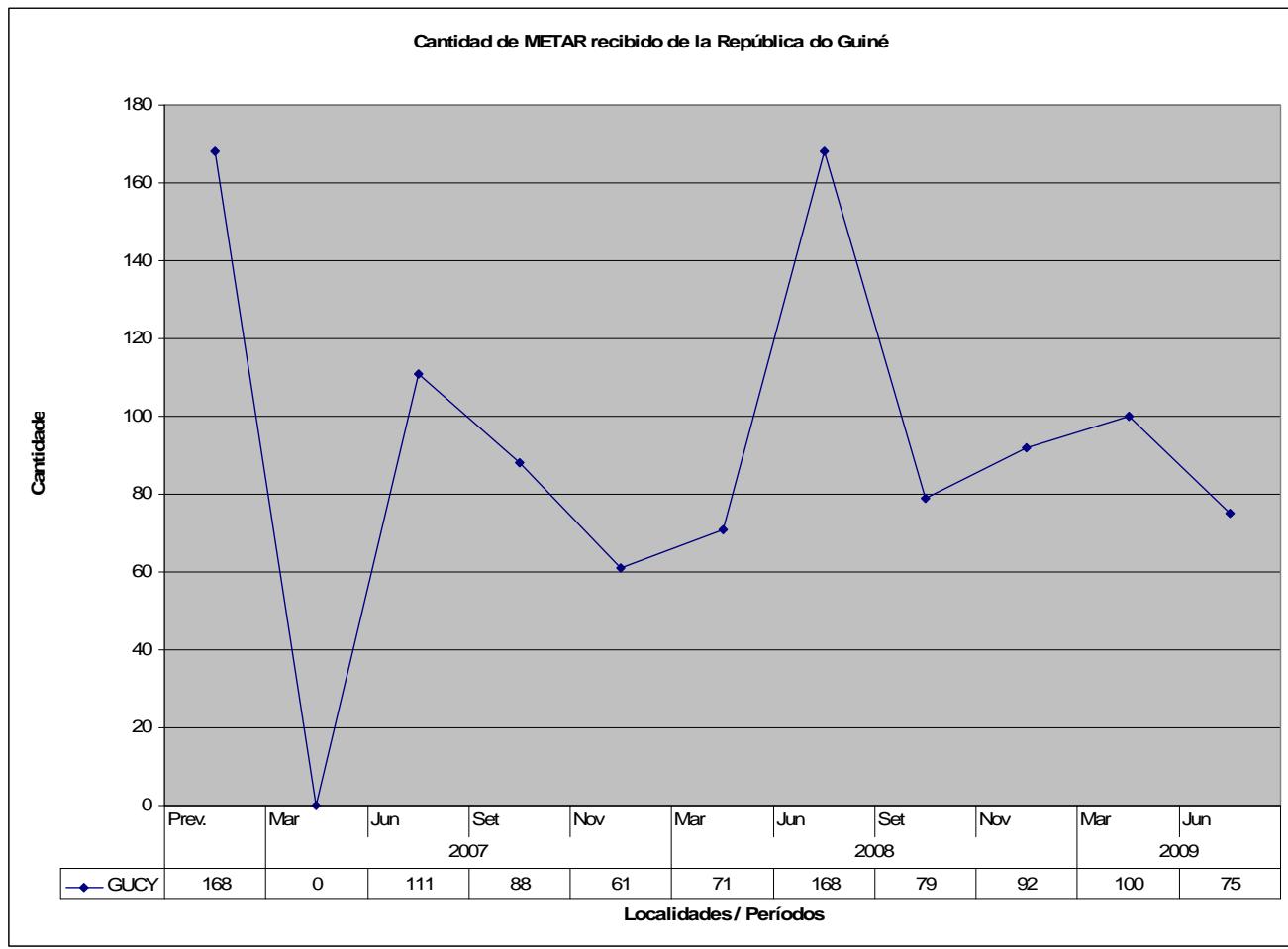


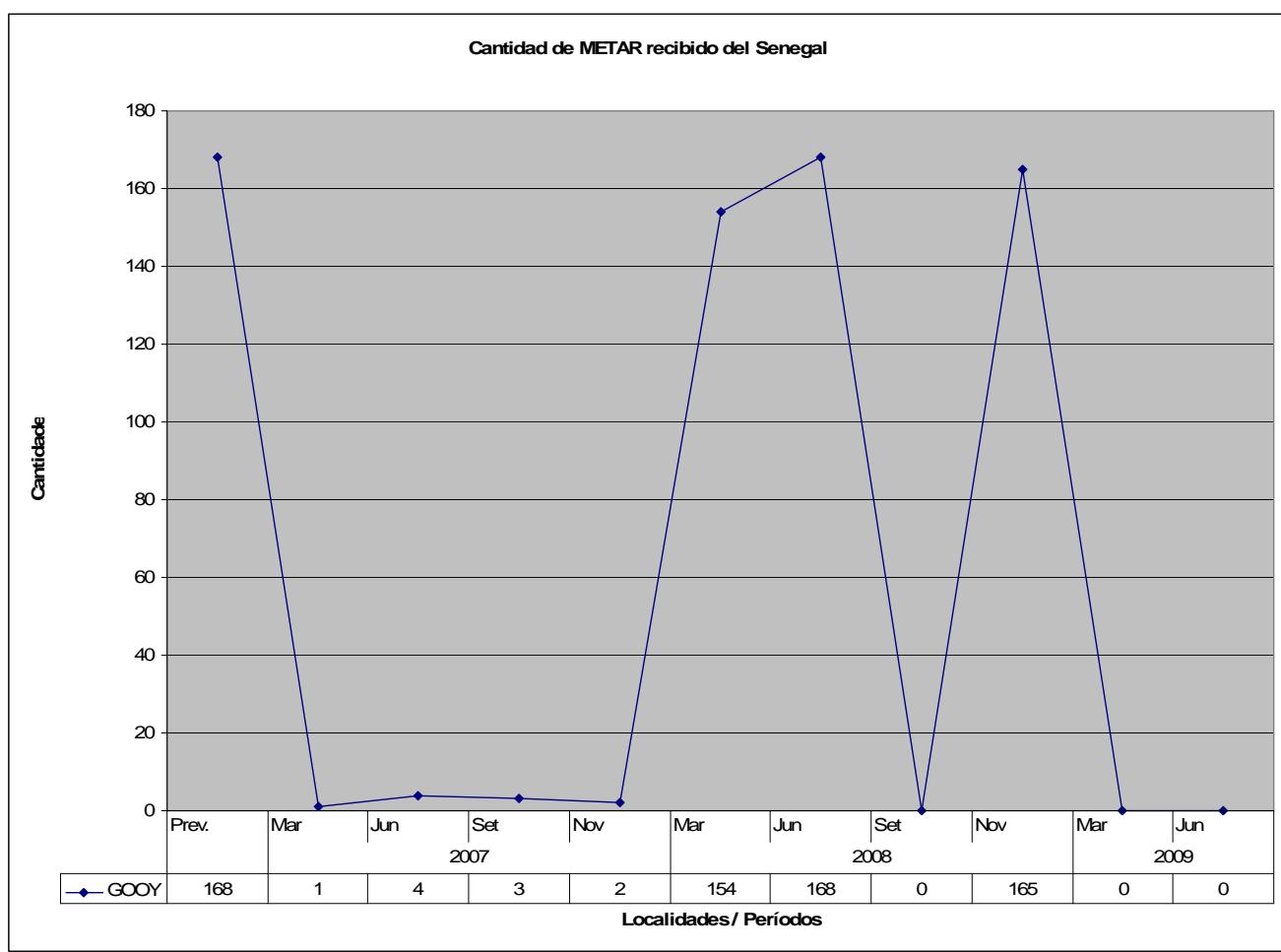
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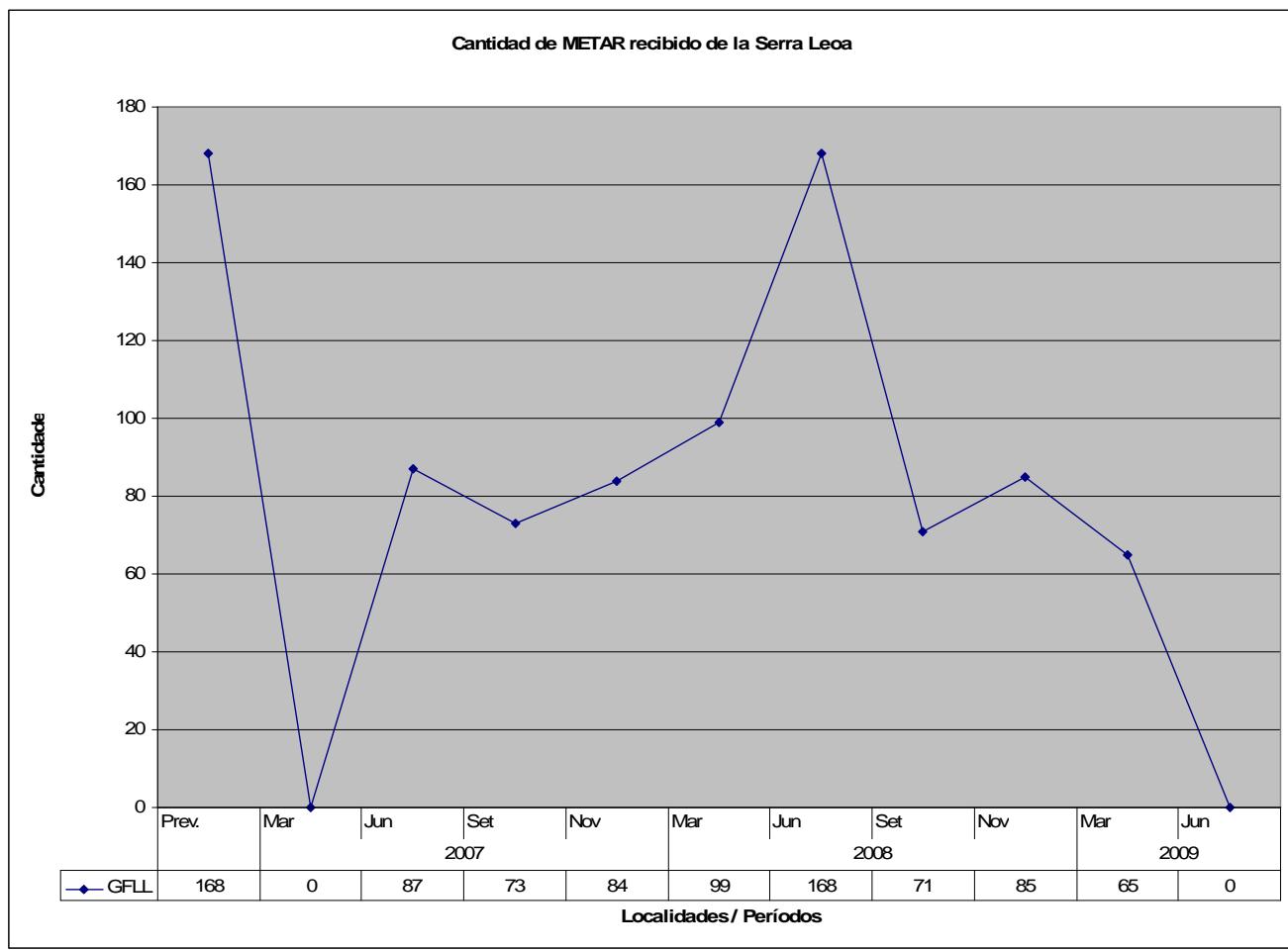
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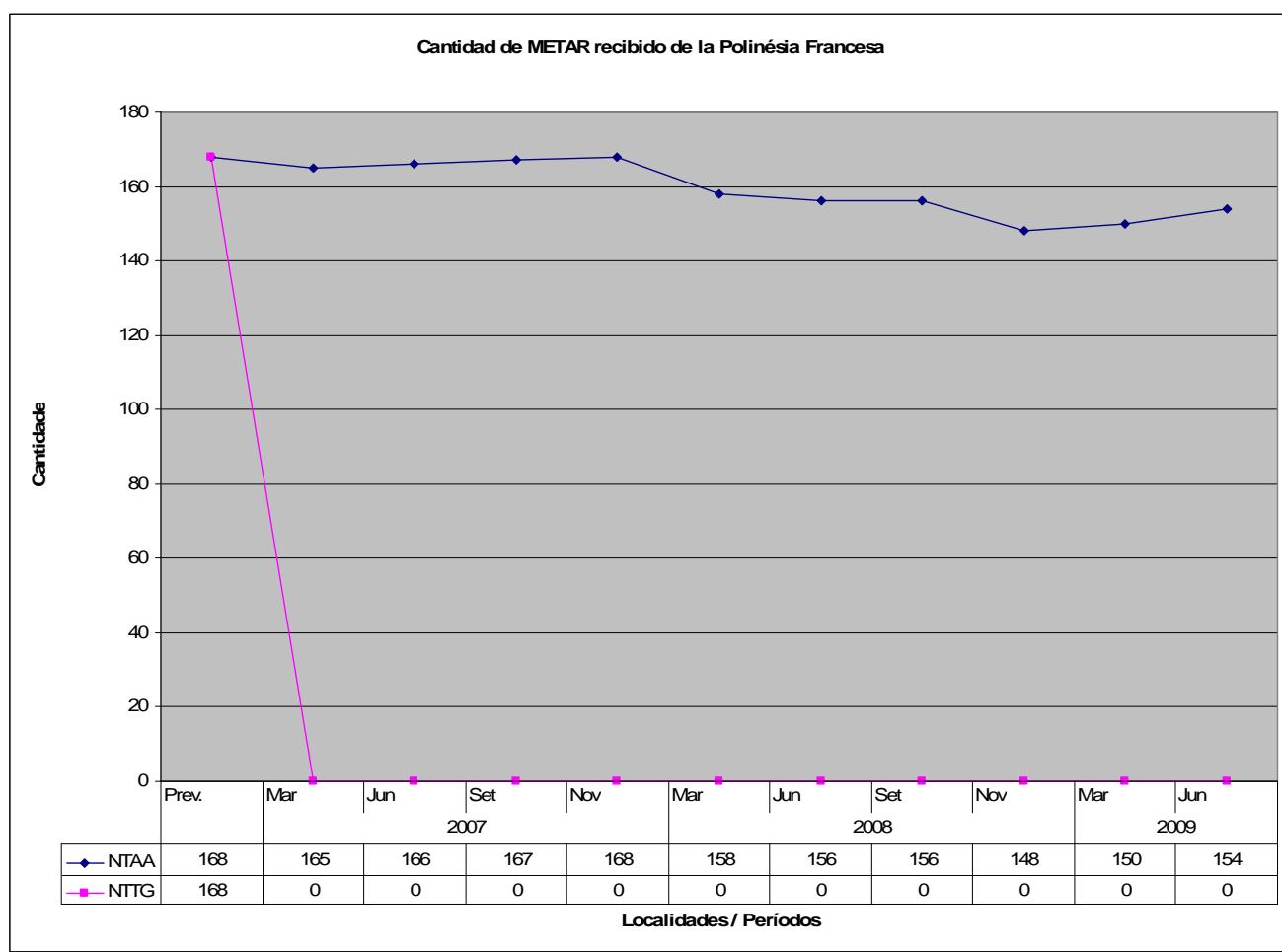


Table with the availability of TAF in Banco de Brasilia OPMET

| 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 | |

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| 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 |

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| 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 |

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| 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 |

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| 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 |
| Nicaragua | | | | | | | | | | | |
| 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 |
| TPPP | 28 | 27 | 28 | 27 | 26 | 24 | 23 | 27 | 27 | 25 | 24 |

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| 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 | 27 | 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 |

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| 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 |
| Botswana | | | | | | | | | | | |
| 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 |

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| 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 |

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| 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 |
| LEVVC | 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 |
| Hungria | | | | | | | | | | | |
| LHBP | 28 | 28 | 28 | 28 | 27 | 28 | 28 | 28 | 22 | 26 | 28 |

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| 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 |

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| 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](http://www.lima.icao.int/e-documents/CAR/SAM/Air%20Navigation%20Plan).

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

| 1 | 2 | 3 | 4 | 5 | 6 |
|------------------------|--|--|---|--|---|
| Venezuela ¹ | ACARIGUA, PORTUGUESA B.A. GENERALÍSIMO FRANCISCO DE MIRANDA, CARACAS, MIRANDA BARINAS, BARINAS BARQUISIMETO, LARA CALABOZO, GUARICO CIUDAD BOLIVAR, BOLIVAR CORO, FALCON CUMANA, SUCRE GUANARE, PORTUGUESA GUIRA, SUCRE MATURIN, MONAGAS MERIDA, MERIDA PUERTO AYACUCHO, AMAZONAS SAN FERNANDO DE APURE, APURE SAN JUAN DE MORROS, GUARICO SANTO DOMINGO, B. A. MAYOR BUENAVENTURA VIVAS, TACHIRA TUMEREMO, BOLIVAR VALLE DE LA PASCUA, GUARICO | SVAC SVFM SVBI SVBM SVCL SVCB SVCR SVCU SVGU SVGI SVMT SVMD SVPA SVSR SVJM SVSO SVTM SVVP | ¥ ¥ ¥ Y ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ ¥ | ‡ ‡ ‡ T ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ ‡ | F F F FP F F F F F F F F F F F F F F F F |
| | | | | | |

¹ Only two non-AOP aerodromes remain.

AMENDMET TO ANP BASIC, PART VI – MET

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8. Aerodrome forecasts should be issued as TAF normally at intervals of 6 hours, with the period of validity beginning at one of the main synoptic hours (00, 06, 12, 18 UTC). The period of validity should be of 24 and 30 hours duration, to meet the requirements indicated in FASID Table MET 1A. The filing time of the forecasts should be approximately two hours before the start of the period of validity.

[GREPECAS Conclusion 12/65]

...

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 | | TX | F |
| SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP | SBGR | RS | SAO PAULO/GUARULHOS, GOVERNADOR ANDRE FRANCO MONTORO, SP | SBGR | | TX | F |
| Ecuador | | | | | | | |
| LATACUNGA | SELT | RN&AS | <u>GUADUAL QUITO</u> | SE <u>EDQU</u> | | T | P |
| Panama | | | | | | | |
| PANAMA/MARCOS A GELABERT | MPMG | RN&AS | PANAMA/TOCUMEN | MPTO | <u>Y</u> | T | P |
| PANAMA/TOCUMEN | MPTO | RS | PANAMA/TOCUMEN | MPTO | <u>Y</u> | T | F |
| Peru | | | | | | | |
| AREQUIPA/RODRIGUEZ BALLON | SPQU | AS | <u>LIMA CALLAO JORGE CHAVEZ AREQUIPA/RODRIGUEZ BALLON</u> | SP <u>IMQU</u> | Y | T | F |
| CUSCO/VELAZCO ASTETE | SPZO | RS | <u>LIMA CALLAO JORGE CHAVEZ CUSCO/VELAZCO ASTETE</u> | SP <u>IMZO</u> | Y | T | F |
| IQUITOS/CORONEL FAP | SPQT | RS | <u>LIMA CALLAO JORGE CHAVEZ IQUITOS/CORONEL FAP</u> | SP <u>IMQT</u> | 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 | TX TX | F F |
| Bolivia | <i>COBIJA</i> | SLCO | Y | | |
| Peru | <i>YURIMAGUA/MOISÉS BENZANQUEN RENGIFO</i> | 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 WAWS 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. WAWS 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 WAWS 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 WAWS (as experimental products), the WAWS 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.

WAWS 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. WAWS 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 WAWS for Regional and Global ATM

7.17 The WAWS 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 WAWS 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 WAWS 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)

| REGIONAL PERFORMANCE OBJECTIVES /NATIONAL PERFORMANCE OBJECTIVES — OPTIMIZE THE ATS ROUTE STRUCTURE IN EN-ROUTE AIRSPACE | | | | |
|---|---|---------------------|----------------|--------|
| Benefits | | | | |
| Environment | | | | |
| <ul style="list-style-type: none"> • 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. | | | | |
| Strategy | | | | |
| <p style="text-align: center;">Short term (2010)</p> <p style="text-align: center;">Medium term (2011 - 20015)</p> | | | | |
| ATM OC COMPONENTS | TASKS | TIMEFRAME START-END | RESPONSIBILITY | STATUS |
| AOM | <p style="text-align: center;"><i>En-route airspace</i></p> <ul style="list-style-type: none"> • analyze the en-route ATS route structure and implement all identifiable improvements; • implement all remaining regional requirements (e.g. RNP 10 routes); and • finalize implementation of WGS-84 • monitor implementation progress • 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; • monitor implementation progress | 2005-2008 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| linkage to GPIs | 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. | | | |

| REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 1 Implement International Airways Volcano Watch (IAVW), International Tropical Cyclone Watch (ITCW) and SIGMETs | | | | |
|---|---|-------------|---------------------------------------|-------------|
| Benefits | | | | |
| Safety Efficiency <ul style="list-style-type: none"> • 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 <i>Short term/Medium term (2011 - 2015)</i> | | | | |
| ATM OC COMPONENTS | TASKS | TIME FRAME | RESPONSIBILITY | STATUS |
| MET | <ul style="list-style-type: none"> • Monitor and provide assistance in the regional implementation of volcanic ash and tropical cyclone advisories and SIGMET • Conduct periodic tests for SIGMET on volcanic ash and tropical cyclones in view of assessing improvements in their implementation • Develop and keep up-to-date a regional guidance in Spanish to explain the contents of Doc 9766, <i>Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List</i>. | 2009 - 2015 | RO/MET LIMA & RO/MET MEXICO | In progress |
| | <ul style="list-style-type: none"> • Conduct controls on the issuance of SIGMET WS, WV and WC in view of assessing improvements in their implementation | 2009 - 2015 | RO/MET LIMA, RO/MET MEXICO & AERMETSG | In progress |
| | <ul style="list-style-type: none"> • 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 |
| | <ul style="list-style-type: none"> • 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 |
| | <ul style="list-style-type: none"> • 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 |
| | GPI/19 – Meteorological Systems | | | |
| Linkage to GPIs | | | | |
| References | <ul style="list-style-type: none"> ▪ <i>Annex 3</i> ▪ <i>Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Doc 9691)</i> ▪ <i>Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List (Doc 9766)</i> ▪ <i>CAR/SAM Regional SIGMET Guide</i> | | | |

| REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 2 Implement WAFS and associated developments | | | | |
|---|---|-----------------------|--|---------------|
| Benefits | | | | |
| Safety Efficiency | <ul style="list-style-type: none"> 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 <i>Short term/Medium term (2011 - 2015)</i> | | | | |
| ATM OC COMPONENTS | TASKS | TIME FRAME | RESPONSIBILITY | STATUS |
| MET | <ul style="list-style-type: none"> Assist in the regional implementation of the new turbulence, icing and cumulonimbus forecasts Coordinate the organization of regional training of the new turbulence, icing and cumulonimbus forecasts Monitor the migration to ISCS G3 and to WIFS implementation. | 2009 - 2013 | RO/MET LIMA, RO/MET MEXICO & AERMETSG | In progress |
| | | 2011 | ICAO, WMO & Washington WAFC | In progress |
| | | 2010 - 2012 | WAFS/I TF | In progress |
| Linkage to GPIs | GPI/19 – Meteorological Systems | | | |
| References | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> • Improve efficiency of ATM and airlines by providing tailored regional MET products needed to optimize flight routes in all weather conditions | | | |
| Strategy <i>Short term/Medium term (2011 - 2015)</i> | | | | |
| ATM OC COMPONENTS | TASKS | TIME FRAME | RESPONSIBILITY | STATUS |
| MET | <ul style="list-style-type: none"> • 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 |
| | <ul style="list-style-type: none"> • Based on the last edition of Doc 9750 - <i>Global Air Navigation Plan for CNS/ATM</i>, develop the MET chapter of the <i>CAR/SAM Regional Plan for the implementation of CNS/ATM systems</i>, Document I. | 2011 | MET/ATM/OP TF | Future |
| | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • <i>Manual on co-ordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services (Doc 9377)</i> | | | |

| REGIONAL PERFORMANCE OBJECTIVE: CAR/SAM MET 4 Improve the efficiency of OPMET exchange | | | | |
|---|---|-----------------------------|---|----------------------|
| Benefits | | | | |
| Safety Efficiency | <ul style="list-style-type: none"> • 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 <i>Short term/Medium term (2010 - 2015)</i> | | | | |
| ATM OC COMPONENTS | TASKS | TIME FRAME | RESPONSIBILITY | STATUS |
| MET | <ul style="list-style-type: none"> • 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. • 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. | Annually 2010 - 2015 | RO/MET LIMA & RO/MET MEXICO and States and Territories of the CAR/SAM Regions RO/MET LIMA & RO/MET MEXICO | Future Future |
| Linkage to GPIs | GPI/19 – Meteorological Systems | | | |
| References | <ul style="list-style-type: none"> • <i>GREPECAS Conclusion 15/14</i> | | | |

| 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 <i>Short term/Medium term (2011 - 2015)</i> | | | | |
| ATM OC COMPONENTS | TASKS | TIME FRAME | RESPONSIBILITY | STATUS |
| MET | <ul style="list-style-type: none"> 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 <i>Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation</i> (Doc 9873), as well as the documentary system for the provision of aeronautical meteorological service. | 2010 | RO/MET LIMA & QMS MET EXPERT | In progress |
| | <ul style="list-style-type: none"> Develop of documentary system for the referred guide. | 2010 | RO/MET LIMA & QMS MET EXPERT | In progress |
| | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | jbouriquot@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 |
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| 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 | |

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, pressure, 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 | | | | |

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 | |

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 | |

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 have 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 aircrafts. 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 | | |

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 | |

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 | Grenada | 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) | 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 | Grenada | Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2) | 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 | Grenada | Relay of air-reports by ATS units (Annex 3, Part I, Chapter 5, standard 5.8) | 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 | Grenada | Exchange of OPMET information (ANP Basic CAR/SAM para. 35 to 39) | 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 | |

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, pressure, 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 including maintenance training. | A | | | | |

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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 |
| 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 | |

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 | Honduras | 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) | 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 | Honduras | Notify the RVR for CAT I operations (Annex 3, Part I, Chapter 4, Recommendation 4. 6.3.2) | 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 | Honduras | Establishment of a meteorological watch office (MWO) (Annex 3, App. 3, Estándar 3.4.1 and Table MET 2B of CAR/SAM FASID). | 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 | Honduras | Aeronautical weather information (Annex 3, Chap. 8, Standard 8.1.1) | No aerodrome weather tables are being prepared, nor aerodrome weather summaries. | SEP/ 2005 | | B | | DGCA | |
| MET 83 | CAR | Honduras | Flight documentation (Annex 3, Chap 9, Standard 9.3.4) | No flight documentation is being prepared. | SEP/ 2005 | | A | | DGCA | The MET office is equipped with a WAWS workstation but requires communication facilities to provide flight documentation to distant users. |
| MET 84 | CAR | Honduras | Communications (Annex 3, Chap. 11, Standards 11.1.1, 11.1.2, 11.1.4) | 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 | Honduras / ATS Units | Exchange of special airreports (Annex 3, Chap. 5, Standard 5.9) | 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 | |

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 | | |

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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 | | |

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/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/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 | | |

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 | |

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 |

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 Tobago 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 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. | 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 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 | 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 climatological 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 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 | 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 quantity of personnel to provide MET service. | NOV/ 2006 | 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 | | 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 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 | 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, Changinola, 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 Aeronautica Authority of AAC has already planned the installation of sensors and meteorological equipment at the aerodromes of Bocas del Toro, Changinola and David, in order to correct this deficiency as soon as possible. | | |

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 meteorolgical 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 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 | | 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 coordination 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 offices. | Not all MET personnel complies with the requirements related to qualifications and training of WMO Publication No. 49. | 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 | | 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 | | SERMETAVI A | | | |

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 (WAWS)
- 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 WAFFS 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 meeting 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 WAWS, IAVW and tropical cyclones warning system.
- e) Monitor the implementation of a Quality Management System.

AERMETSG/10
Appendix B to the Report on Agenda Item 10

10B - 2

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, <i>Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List.</i> | Prepare the Guide | Secretariat (RO, Lima) | Valid | Improvements in IAVW implementation and update ANP CAR/SAM, Part VI – MET concerning IAVW | October 2010 |

*¹Draft Conclusions of the AERMETSG/10 Meeting.

AERMETSG/10
Appendix B to the Report on Agenda Item 10

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| 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, <i>Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation.</i> | 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 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 States | FEB 2010 |

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Appendix C to the Report on Agenda Item 10

10C - 2

| 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 WAFC 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 (<i>Rapporteur</i>) |
| 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 |

AERMETSG/10
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10D - 2

| 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 |

AERMETSG/10
Appendix E to the Report on Agenda Item 10

10E - 2

| 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 Manual on | | 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 |

AERMETSG/10
Appendix F to the Report on Agenda Item 10

10F - 2

| 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. (<i>Rapporteur</i>) |
| 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.