

APPENDIX A: STATUS OF IMPLEMENTATION OF THE MET/SG WORK PROGRAMME

	Task	Source	Recent Progress Next milestone and its deadline	Status of Implementation
	<i><b>MET/SG specific Tasks</b></i>			
1	Establish and maintain detailed lists, State by State of the specific deficiencies of facilities for the provision of atmospheric measurements pertaining to surface wind, pressure, visibility/runway visual range, cloud base, temperature and dew point temperature considered critical for flight safety.	APIRG/13 Con. 13/96	<ul style="list-style-type: none"> <li>a) Visited less than 3 States over 48 AFI States per year during ROST missions to identify potential related deficiencies while at least one visit per State every 3 years in recommended</li> <li>b) State by state MET deficiencies have been established and included in APIRG/19 Report</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Continuous:</b> partially implemented</li> <li>b) <b>Continuous:</b> the list of MET deficiencies is updated during APIRG meetings</li> </ul>
2	Monitor the exchange of OPMET information through the AMBEX scheme in the AFI Region and between the AFI and ASIA/PACIFIC and EUR Regions	<ul style="list-style-type: none"> <li>-APIRG/8 Con. 8/43 c)</li> <li>-APIRG/17 Concl. 17/75</li> <li>-APIRG/17 Concl. 17/78</li> <li>- APIRG/18 Concl. 18/48</li> </ul>	<ul style="list-style-type: none"> <li>a) OPMET monitoring activities assigned to the MTF</li> <li>b) OPMET monitoring by AFI RODBs every quarter</li> <li>c) Next 4 simultaneous monitoring sessions in 2014</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Continuous:</b> implemented by the MTF</li> <li>b) <b>Continuous:</b> OPMET major monitoring by AFI RODBs in March, June, September and December each year</li> <li>c) <b>Continuous:</b> Implemented by AFI RODBs 4 times a year <i>(Related to MTF work programme)</i></li> </ul>
3	Plan for the introduction of efficient inter-regional OPMET exchanges in coordination with the CNS Sub-group as required	AFI/7	<ul style="list-style-type: none"> <li>a) A Core Team of experts established to fully review the AMBEX and report to MET/SG/12</li> </ul>	<ul style="list-style-type: none"> <li>a) A transition plan to digital OPMET environment <b>to be endorsed</b> by APIRG/20  <i>(Related to MTF work programme)</i></li> </ul>

4	Monitor the degree of implementation of very small aperture terminals (VSATs) for the reception of WAFS products	AFI/7 14/12 Rec.	a) A large number of AFI States have implemented SADIS2G VSATs with others using the SADIS FTP Service	a) <b>Continuous:</b> yearly monitoring through SADISOPSG meetings
5	Monitor the implementation of regional procedures for the issuance of volcanic ash and tropical cyclone advisories	AFI/7 Rec. 7/3 and 7/4	a) Yearly SIGMET Tests conducted with AFI VAAC, TCAC and SA GIB using regional AFI SIGMET Test procedures established in AFI SIGMET Guide  b) SIGMET Tests conducted in coordination with Toulouse VAAC, La Reunion TCAC and Pretoria GIBS.  c) SIGMET Tests conducted yearly:  d) Next test scheduled for Nov. 2015	a) <b>Continuous:</b> Three regional AFI SIGMET Test conducted for 2014 b) <b>Continuous:</b> completed for 2014 c) <b>Continuous:</b> completed for 2014 d) <b>To be endorsed</b> by APIRG/20
6	Review on a continuing basis the contents of Tables MET 1A and 1B and Tables MET 2A to ensure their validity in light of operational requirements and develop proposals to update them if necessary.	AFI/7	a) Tables MET 1A, 1B and 2A continuously reviewed  b) Tables MET 1A and 2A have been amended from SADISOPSG/19 proposals	a) <b>Continuous:</b> Tables MET 1A, 1B and 2A are continuously amended at the request of States or through SADISOPSG Meetings  b) <b>Continuous:</b> Tables MET 1A and 2A have been amended from SADISOPSG/19 proposals  <i>(Related to MTF work programme)</i>

7	Review the meteorological procedures in the introductory text to Part VI of Meteorology of the Basic AFI Regional Plan/FASID, as well as Meteorological related issues in other sections of the Plan and relevant regional supplementary Meteorology procedures (SUPPs) in the Doc 7030, in the light of procedures employed in other regions and develop amendment proposals as appropriate, coordinating where necessary with other APIRG Sub-Groups.	APIRG/12	a) The MET section of the AFI Regional Air Navigation Plan (R-ANP) will be amended in accordance with the new e-ANP template under review by ICAO.	a) The MET related AFI eANP is <b>to be endorsed</b> by APIRG/20.
8	Monitor developments in the CNS/ATM Systems with regard to meteorological requirements in the AFI Region and in coordination with AFI ATM Sub-Group.	APIRG/14 14/43	<p>a) APIRG established the ATM/MET Task Force.</p> <p>b) The ATM/MET TF amended the AFI contingency plan on volcanic ash (VACP) during its first meeting in Nairobi.</p>	<p>a) <b>Implemented:</b> ATM/MET/TF established to monitor developments in the CNS/ATM Systems in MET.</p> <p>b) <b>Continuous:</b> AFI VACP to be amended as necessary.</p> <p><i>(Related to ATM/MET/TF work programme)</i></p>
9	Monitor the implementation in the AFI region of quality assurance/performance relating to the MET field	APIRG/14 14/40	<p>a) Ten training seminars on QMS in 2008-2012</p> <p>b) 13 out of 54 States established QMS in December 2012 et 5/13 certified</p>	<p>a) <b>On need basis:</b> most States need to certify QMS</p> <p>b) <b>Continuous:</b> Training in cost recovery for MET needed</p>
10	Monitor training and qualification of aeronautical MET personnel	APIRG/15 15/94	a) Training and qualification monitored in 15 States during 2009-2010	<p><b>Implemented:</b> for 15 States</p> <p><b>Continuous:</b> Necessary monitoring every 5 years</p>
11	Monitor communications means between AFI volcano observatories and the aviation community	APIRG/13 13/68	VONA (volcano observatory notice for aviation) tests to be conducted from 2014 during AFI VACP (volcanic ash contingency plan) exercises.	<p><b>Not implemented yet</b></p> <p><i>(Related to ATM/MET/TF work programme)</i></p>

12	Monitor cost recovery system for aeronautical meteorological services to make sure relevant ICAO and WMO documents are used and MET service providers cooperate with airports, air navigation services and other aeronautical partners, including users, when establishing a cost recovery system	APIRG/13 Con. 14/37	<ul style="list-style-type: none"> <li>a) A survey planned to be conducted in 2014</li> <li>b) 4 workshops on cost recovery for aeronautical meteorological services conducted before 2007 and 2 planned for 2014</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Not yet implemented:</b> planned for 2015</li> <li>b) <b>Continuous:</b> to be implemented on request</li> </ul>
13	Monitor SADIS workstations in AFI States to make sure they fulfill the software requirements outlined on the WAFSOPSG website	APIRG/17 Concl 17/74	A survey planned to be conducted in 2014	<ul style="list-style-type: none"> <li>• <b>Not yet implemented:</b> planned for 2015</li> <li>• <b>Continuous:</b> survey to be undertaken every 3 years</li> </ul>
14	Monitor the implementation of terminal area warnings and forecasts, provision of WAFS forecasts and optimization of OPMET data exchanges and training for aeronautical meteorological staff	SP RAN(2008) Rec. 6/17	A survey planned to be conducted in 2014	<ul style="list-style-type: none"> <li>• <b>Not yet implemented:</b> planned for 2015</li> <li>• <b>Continuous:</b> survey to be undertaken every 3 years</li> </ul>
<b>Tasks assigned to MTF</b>				•
15	Examine the existing and any new requirements for OPMET exchange in AFI and adjacent regions and assess the feasibility of satisfying these requirements, taking into account the availability of the data;	APIRG/16 Décision. 16/54	<ul style="list-style-type: none"> <li>a) Finalize specific amendments of the AMBEX Handbook by APIRG/20</li> <li>b) Develop back up procedures for the AFI RODBs (2014)</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>To be endorsed</b> by APIRG/20</li> <li>b) <b>Completed:</b> Back up procedures of the RODBs developed (APIRG/19/43).</li> </ul>
16	Keep under review the AMBEX scheme and other OPMET exchange schemes and prepare proposal for updating the optimizing of the schemes;	APIRG/16 Décision. 16/54	<ul style="list-style-type: none"> <li>a) the AMBEX scheme reviewed by a Core Team which will report to next MTF meeting</li> <li>b) Continuous review of the AMBEX scheme</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Completed:</b> Review endorsed by MET/SG/12</li> <li>b) <b>Continuous basis</b></li> </ul>

17	Review and update the procedures for interregional OPMET exchange and ensure the availability of the required AFI OPMET data for the AFS satellite broadcast (SADIS);	APIRG/16 Décision. 16/54	<ul style="list-style-type: none"> <li>a) The related Chapter of the AMBEX Handbook reviewed ( July 2013)</li> <li>b) SADISOPSG/18 Concl. Reviewed</li> <li>c) Continuous review of the procedures</li> <li>d) SADISOPSG/19 Concl. Review (2014): yearly</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Completed:</b> Implemented by MTF/5</li> <li>b) <b>Completed:</b> Implemented by MTF/5</li> <li>c) <b>Continuous basis</b></li> <li>d) <b>Continuous basis</b></li> </ul>
18	Keep under review and provide timely amendments of the regional guidance materials on the OPMET exchange; to ensure that guidance material covers procedures for the exchange of all required OPMET data types: SA, SP, FT, WS, WC, WV, FK, FV, UA;	APIRG/16 Décision. 16/54	<ul style="list-style-type: none"> <li>a) The related Chapter of the AMBEX Handbook reviewed and updated (Sept. 2010)</li> <li>b) These chapters will be reviewed by the Core Team</li> <li>c) Continuous review</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Completed:</b> Implemented by MTF/5</li> <li>b) <b>Completed:</b> implemented by MET/SG/12</li> <li>c) <b>Continuous basis</b></li> </ul>
19	Conduct trials and develop procedures for monitoring and management of the OPMET exchange; to foster implementation of quality management of OPMET data by the AMBEX centres and the RODBs; and	APIRG/16 Décision. 16/54	<ul style="list-style-type: none"> <li>a) procedures for monitoring and management of the OPMET exchange reviewed (Sept 2010)</li> <li>b) SIGMET Tests conducted yearly (since Nov./2008 to Nov. 2012)</li> <li>c) Three SIGMET Tests planned for November 2013</li> <li>d) A joined OPMET monitoring by the RODBs every three months: end of March, June, September and October</li> <li>e) Assessment of the RODBs during yearly meeting.</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Completed:</b> Implemented by MTF/2</li> <li>b) <b>Completed:</b> Implemented in 2008/2012</li> <li>c) <b>Completed:</b> SIGMET Tests conducted November 2013</li> <li>d) <b>Not implemented yet:</b> procedures for implementation endorsed by APIRG/18</li> <li>e) <b>Continuous basis</b></li> </ul>

20	Prepare regional plan for the transition to XML coded OPMET information in coordination with the relevant APRIG contributing bodies.	APIRG/16 Decision. 16/54	<ul style="list-style-type: none"> <li>a) Final decision on future OPMET XML coded format awaited from MET Div (2014)</li> <li>b) AFI Regional Plan to be prepared after the adoption by the MET Div Meeting )</li> </ul>	<ul style="list-style-type: none"> <li>a) <b>Completed:</b> Development of transition Plan prepared by MET/SG/12</li> <li>b) <b>To be endorsed</b> by APIRG/20</li> </ul>
<b>Tasks assigned to ATM/MET/TF</b>				•
21	<p>Review and update the AFI Volcanic Ash Contingency Plan (VACP) by:</p> <ul style="list-style-type: none"> <li>a) Regularly updating the VACP through new requirements from the IAVWOPSG</li> <li>b) Conducting annual VACP exercises or AFI ATM/MET Volcanic Ash Exercises (VAEX/AFI);</li> <li>c) Reporting on annual VAEX/AFI to the MET/SG meetings.</li> </ul>	APIRG/19 Décision. 19/20	<ul style="list-style-type: none"> <li>c) update the VACP through new requirements from the IAVWOPSG</li> <li>d) Conduct AFI ATM/MET Volcanic Ash Exercises (VAEX/AFI) in 2014;</li> <li>e) Report on 2014 VAEX/AFI to the MET/SG/12 meeting</li> </ul>	<ul style="list-style-type: none"> <li>c) <b>Continuous basis:</b> Not implemented due to APIRG new organization structure (VACP awareness seminar not held yet)</li> <li>d) <b>Continuous annual basis:</b> Not implemented due to APIRG new organization structure (VACP awareness seminar not held)</li> <li>e) <b>Continuous annual basis:</b> b) note implemented</li> </ul>
22	<p>Develop sub-regional exchange of MET information to facilitate ATM operations by:</p> <ul style="list-style-type: none"> <li>a) Encouraging States develop agreements on the exchange of MET information that provides benefits to ATM operations on sub-regional level;</li> <li>b) Encouraging States report developments to MET/ATM TF and MET/SG meetings;</li> <li>c) Developing sub-regional exchange of MET information to facilitate ATM operations in busy routes.</li> </ul>	APIRG/19 Décision. 19/20	<ul style="list-style-type: none"> <li>c) Encourage States develop agreements on the exchange of MET information that provides benefits to ATM operations on sub-regional level</li> <li>d) Encourage States report developments to MET/ATM TF and MET/SG meetings</li> <li>e) Develop sub-regional exchange of MET information to facilitate ATM operations in busy routes</li> </ul>	<ul style="list-style-type: none"> <li>c) <b>Not started:</b> Not implemented due to APIRG new organization structure</li> <li>d) <b>Not started:</b> Not implemented due to APIRG new organization structure</li> <li>e) <b>Continuous basis:</b> AFI Meteorological Bulletins Exchange (AMBEX) scheme developed and operational. Capabilities of handling OPMET information in digital format to be developed</li> </ul>

23	<p>Reinforce ways and means of improving ATM/MET coordination by:</p> <p>a) improving coordination between MET, ATS, AIM, etc.. through the manual on coordination (Doc 9377); and</p> <p>b) Consulting/coordinating with users as an integral part of a well-established QMS for MET.</p>	APIRG/19 Décision. 19/20	<p>a) Conduct and follow-up ATM/MET/Pilot coordination meetings every three years;</p> <p>b) Assist States in certifying QMS for MET in all International airports.</p>	<p>e) <b><u>Continuous basis:</u></b> an ATS/MET/Pilot coordination meeting held in 2013 for ESAF States and 2014 for WACAF States</p> <p>f) <b><u>Continuous basis:</u></b> QMS/MET implemented but not yet certified in most States.</p>
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