



**INTERNATIONAL CIVIL AVIATION ORGANISATION**  
**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG)**  
**METEOROLOGY SUB-GROUP TENTH MEETING (MET/SG/11)**  
*(Nairobi, Kenya, 8 – 10 July 2013)*

**Agenda Item 2: Review of APIRG Conclusions and Decisions related to MET**

**STATUS OF IMPLEMENTATION OF APIRG CONCLUSIONS AND DECISIONS**  
*(Presented by the Secretariat)*

**SUMMARY**

This paper presents the Conclusions and Decisions from MET/SG Meetings with information on action taken and status of implementation by APIRG.

Ref:

APIRG/18 meeting report

**1. INTRODUCTION**

1.1 Past MET/SG meetings formulated a number of Conclusions and Decisions for appropriate actions by APIRG. Subsequently, various actions were taken by the Air Navigation Commission, the ICAO Council and the Regional Offices.

1.2 **Appendix A** provides the list of decisions and conclusions of the MET/SG and action taken.

**2. DISCUSSION**

2.1 The Secretariat has reviewed the list of valid decisions and conclusions as shown in **Appendix A**.

2.2 The Sub-group may recall that Decision 18/01 of the APIRG/18 meeting called for review and update of APIRG Conclusions and Decisions as their number have become cumbersome to manage effectively and requires a strategy to be developed for their streamlining. In this regard, the Group agreed that the Sub-Groups including MET/SG should review all APIRG Conclusions and Decisions related to MET since APIRG/13 meeting, with the objective of identifying Conclusions and Decisions with the following characteristics:

- a) Those which have been implemented or become obsolete due to developments;
- b) Those which have matured to be included in the work programme of APIRG and its subsidiary bodies as well as the Terms of Reference or Handbook of the Group;
- c) Those which are adequately covered by other specific provisions of ICAO including SARPs, Assembly Resolutions and Regional requirements, to be deleted or reformulated to complement such other ICAO provisions; and
- d) Those which have since become redundant.

2.3 In addition, the Fourth meeting of the AFI OPMET Management Task Force (MTF/4)

reviewed the previous OPMET related APIRG Conclusions and Decisions, and called for Decision 4/02 to be submitted to the MET/SG/11 Meeting for further review. The Conclusions and Decisions reviewed by MTF/4 have been integrated to **Appendix A** to this paper for further review by the MET/SG. In reviewing Appendix A, it has been found that:

- ✓ 27 Conclusions/Decisions have been implemented or now obsolete; and
- ✓ 7 Conclusions/Decisions may be combined as three main Conclusions/Decisions.

2.4 A total of 34 out of 52 Conclusions/Decisions to be deleted. In this regard, the meeting may wish to formulate the following Decision:

**Draft Decision 11/xx: Review of Previous MET Related APIRG Conclusions and Decisions**

**That, the list of Decisions and Conclusions in Appendix A to this report, is adopted as the reviewed MET related APIRG Decisions and Conclusions.**

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) Note the information in this paper,
- b) Review Appendix A and,
- c) decide on the above decision proposed for the Sub-group's consideration.

## Appendix A

## STATUS OF IMPLEMENTATION OF MET APIRG CONCLUSIONS AND DECISIONS

Cons/ Decs No. Strategic Objectives*	Title of Cons/Decs	Text of Cons/Decs	Deliverables/ Intended Outcome	Status of implementation.	Characteristics: Implemented/Obsolete/Mature/Covered in SARPS or RANP/Redundant
1) APIRG Con. 13/68	Better communications for volcano observatories	<b>That states concerned make efforts to establish reliable communications links between their volcano observatories and meteorological watch offices (MWOS) and area control centres (ACCS).</b>	Improved communications links between volcano observatories and meteorological watch offices (MWOs) and area control centres	Continuous: State letters forwarded to States with active volcanoes	Continuous Not to be deleted
2) MET/SG Con. 6/2 APIRG Con. 14/32	Need for latest version of workstation software	<b>That States in the AFI region be encouraged to acquire the latest version of workstation software from their respective workstation suppliers for the use of GRIB and BUFR codes</b>	Availability of improved WAFS products	Continuous: State letters forwarded to States	Implemented all States equipped with SADIS have obtained an appropriate version of workstation software To be deleted
3). MET/SG Con. 6/8 APIRG Con. 14/37	Cost recovery of aeronautical meteorological services	<b>That, when establishing a cost recovery system for aeronautical meteorological services, States in the AFI region use relevant ICAO and WMO documents and cooperate with airports, air navigation services and other aeronautical partners, including users.</b>	Improved MET cost recovery mechanism	Continuous: State letters forwarded to States	Continuous Not to be deleted
4) APIRG Con. 14/38	Seminars on cost recovery of aeronautical meteorological	<b>that WMO in co-ordination with ICAO organize seminars on cost recovery of aeronautical meteorological services</b>	Improved MET cost recovery mechanism	Continuous: State letters forwarded to States	<ul style="list-style-type: none"> <li>• Continuous: 4 workshops organized by WMO in coordination with ICAO</li> <li>• To be combined with 14/37</li> </ul>

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	services				
5) MET/SG Con. 6/9 APIRG Con. 14/39	Autonomous entities and meteorological service for air navigation	<b>That States in the AFI region when considering the establishment of autonomous entities to manage their air navigation services, take due account of the provision of meteorological service to air navigation.</b>	MET information provided to air navigation	Implemented by all States even if not fully	<ul style="list-style-type: none"> <li>Implemented by all AFI States;</li> <li>Standards 2.1.3 and 2.1.4 of ICAO Annex 3 covers the issue already</li> <li>To be deleted</li> </ul>
6) MET/SG Con. 6/10 APIRG Con. 14/40	Quality management	<b>That States in the AFI region give priority to implementation of a quality management system (ISO 9000 series of standards) in order to improve meteorological service for international air navigation.</b>	QMS for MET established and implemented	QMS for MET has been established in 13 AFI States and 8 certified among the 13	<ul style="list-style-type: none"> <li>Continuous:</li> <li>To be combined with APIRG/16 Conclusion 16/59</li> </ul>
7) APIRG Con. 14/41	Study of training available for aeronautical meteorological personnel in the afi region	<b>that as a follow-up action on recommendation 10/26 of Lim AFI (com/met/RAC) 1988 and recommendation 14/17 of AFI/7, 1997, regional offices Dakar and Nairobi carry out the study of training available for aeronautical meteorological personnel in the AFI region.</b>	List of MET Training Schools established	Completed in 2009	To be deleted
8) APIRG Con. 14/42	Seminars on ATS/MET/PILOT coordination	<b>that ICAO, in co-ordination with WMO, organize seminars on ATS/MET/PILOT co-ordination for the AFI region.</b>	Improved Coordination between ATM and MET	<ul style="list-style-type: none"> <li>4 seminars organized</li> <li>Coordination replaced by ATM/MET Task meeting</li> </ul>	<ul style="list-style-type: none"> <li>ATM/MET Task Force established to replace continuous coordination</li> <li>To be deleted</li> </ul>
9) APIRG Con. 15/81	training for the	<b>That the united kingdom, in coordination</b>	AFI States trained on	No training provided	<ul style="list-style-type: none"> <li>Action cancelled due to lack</li> </ul>

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	use of GRIB and BUFR codes	<b>with ICAO and WMO, be invited to consider providing training for the use of GRIB and BUFR codes to those AFI States which have not benefited from previous training seminars.</b>	GRIB/BUFR codes		of funding. • To be deleted
10) APIRG Con. 15/82	Procurement of the necessary SADIS 2G hardware	<b>That SADIS users in the AFI region be invited to procure the necessary SADIS 2G hardware well ahead of the termination of the 1G service on 31 December 2008,</b>	Improved reception of WAFS products	All AFI Sates equipped with SADIS VSAT Station have updated to SADIS 2G hardware.	• Completed: all Sates equipped with SADIS VSAT Station have updated to SADIS 2G hardware. • To be deleted
11) APIRG Con.16/48	Response by States to ICAO AFI regional offices state letters	<b>That States respond promptly to ICAO AFI regional offices State letters that solicit information on the status of implementation of the relevant decisions of the MET/SG and the MET-related conclusions and decisions of APIRG.</b>	Improved exchange of information between ICAO and AFI States	Responses have been slightly improved	• Continuous • Not to be deleted
12) APIRG Con. 16/49	Training seminar on the use of icing, turbulence and convective clouds forecasts in grib2 code form	<b>That the WAFS London provider State be invited, in coordination with ICAO and WMO to provide training seminars on the use of icing, turbulence and convective clouds forecasts in GRIB code form to states</b>	AFI States forecasters trained in using icing, turbulence and convective clouds forecasts in GRIB code form	• Differed for 2013 due to delay in developing icing, turbulence and convective clouds forecasts in GRIB code form, and • Became obsolete due to placement of training course on the website	• Obsolete • To be replaced by a Conclusion of APIRG/19 on web based training on icing, turbulence and convective clouds forecasts in GRIB code form • To be replaced
13) APIRG Con. 16/51	SADIS FTP accounts	<b>that approved SADIS users in the AFI region who have Internet capabilities and do not have an active SADIS FTP account write to the SADIS provider State to have an access account</b>	Improved reception of SADIS information through Internet	Several States have applied and accorded access account by the SADIS Provider State	Implemented To be deleted

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14) APIRG Con16/58	Legal framework for aeronautical meteorological services	<b>That States in implementing cost recovery for aeronautical meteorological services in accordance with APIRG conclusions 14/37 and 14/38 put in place a national legal framework for aeronautical meteorological services which include cost recovery arrangements.</b>	Cost recovery mechanism established on the basis of national legal framework for MET services	A number of States have established autonomous agencies but still have difficulties in establishing cost recovery arrangements	<ul style="list-style-type: none"> <li>• To be deleted</li> <li>• Combined with 14/37 and 14/38</li> </ul>
15) APIRG Con. 16/59	Support to States implement quality management systems (QMS)	<p><b>that: WMO in coordination with ICAO continue to assist states in implementing QMS in the form of:</b></p> <p>a) seminars on QMS for the chief executives of meteorological authorities (CEOs) as a priority and request them (CEOs) to report on status of implementation on QMS in their services on a regular basis;</p> <p>b) support for more detailed training for personnel who would act as a core group in the region (training of trainers);</p> <p>c) attachments of staff from the region to states that have already adopted QMS through VCP or otherwise; and</p> <p>d) financial resources for engaging consultancy services during the initial stages of implementation.</p>	QMS for MET implemented in all AFI States	QMS for MET has been established in 13 AFI States and 8 certified among the 13	<ul style="list-style-type: none"> <li>• Continuous:</li> <li>• To be combined with APIRG/14 Conclusion 14/40</li> <li>• Not to be deleted</li> </ul>
16) APIRG Dec. 16/64	Coordination between WMO regional association 1	<b>That, the chairperson of the meteorology sub-group liaise with the WMO Rapporteur for aeronautical meteorology programme for</b>	Improved coordination between WMO regional Association 1 (Africa) and	The continuous coordination started	<ul style="list-style-type: none"> <li>• To be deleted</li> </ul>

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	(Africa) and APRIG on aeronautical meteorology	<b>regional association1 (Africa) on matters of common interest when required.</b>	APRIG on aeronautical meteorology Sub-group		
17) APIRG/17 Concl. 17/72	SADIS strategic assessment tables	<b>That, the AFI SADIS strategic assessment tables, as given in Appendix 3.5A to this report be adopted and forwarded to the SADISOPSG for planning the future SADIS bandwidth requirements.</b>	Future SADIS bandwidth requirements planned	Became obsolete	<ul style="list-style-type: none"> <li>• Completed</li> <li>• To be deleted</li> </ul>
18) APIRG/17 Concl. 17/73:	Alternative SADIS 2G hardware	<b>That, States review available new options for the SADIS 2G systems in order to benefit from such options by contacting vendors directly.</b>	States benefited from such options by contacting vendors.	Completed by the majority of States	<ul style="list-style-type: none"> <li>• To be deleted</li> </ul>
19) APIRG/17 Concl. 17/74:	SADIS workstations evaluations	<b>That, States ensure that their current workstations fulfill the software requirements outlined on the WAFSOPSG website and take corrective action, as necessary, with their workstation providers.</b>	Current workstations fulfill the software requirements	Completed by the majority of States	<ul style="list-style-type: none"> <li>• To be deleted</li> </ul>
20) APIRG/17 Concl. 17/75	OPMET exchange requirements and inter- regional OPMET gateway (IROG) functions	<b>That:</b> <b>a) The OPMET data type, OPMET bulletins and types of OPMET exchange at Appendix 3.5C, be implemented by Dakar and Pretoria Regional OPMET data</b>	a) Related AMBEX procedures implemented; b) Improved availability of OPMET at AFI aerodromes	<ul style="list-style-type: none"> <li>• OPMET data type, OPMET bulletins and types of OPMET exchange implemented by Dakar and Pretoria RODBs,</li> </ul>	<ul style="list-style-type: none"> <li>• To be deleted</li> </ul>

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		<p>banks (RODBs), AMBEX bulletin compiling centres (BCCs) and National OPMET Centres (NOCs) as the OPMET requirements in the AFI Region; and</p> <p>b) The IROG functions and the requirements for the exchange of OPMET between the AFI Region and adjacent Regions in Appendices 3.5D and 3.5E to this report be implemented by Dakar and Pretoria RODBs as the requirements for the interregional OPMET exchange in the AFI Region.</p>		<ul style="list-style-type: none"> <li>The above requirements are being implemented by AFI BCCs and NOCs.</li> </ul>	
21) APIRG/17 Concl. 17/76	Revision of OPMET data requirements	That, information related to the requirements of OPMET data from AOP Aerodromes as given in Appendix 3.5F to this report be included in the AFI FASID MET Table 1A after the normal amendment of the FASID Table.	<ul style="list-style-type: none"> <li>Updated AFI FASID MET Table 1A</li> <li>New OPMET requirements included in AFI FASID</li> </ul>	Action completed	<ul style="list-style-type: none"> <li>Implemented</li> <li>To be deleted</li> </ul>
22) APIRG/17 Concl. 17/77	OPMET exchange monitoring and management procedures at BCCS and RODBs	That, the OPMET management and monitoring procedures given in appendices 3.5I and 3.5J to this report be implemented by the RODBS and the BCCS as the requirements for OPMET exchange monitoring and management procedures in the AFI region.	<p>a) Related AMBEX procedures implemented;</p> <p>b) OPMET exchange monitoring and management procedures Implemented at BCCs and RODBs</p> <p>c) Improved availability of OPMET at AFI aerodromes</p>	<p>a) procedures implemented</p> <p>b) Procedures Assessed by the next MTF/4 meeting</p>	<ul style="list-style-type: none"> <li>To be deleted</li> <li>Combined with Conclusion 17/75</li> </ul>

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23) APIRG/17 Concl. 17/78	Interface control document (ICD) for AFI OPMET database access procedures	<p><b>That:</b></p> <p>a) <b>The procedures given in Appendix 3.5I to this report be implemented as the Regional Interface Control Document (ICD) access procedures for AFI OPMET database; and</b></p> <p>b) <b>The ICD be published by the ICAO Regional Office(s).</b></p>	<p>a) The AFI Interface control document (ICD) for AFI OPMET database access procedures, fully implemented</p> <p>b) Related AMBEX procedures implemented;</p> <p>c) Improved availability of OPMET at AFI aerodromes</p>	<p>a) Required procedures implemented</p> <p>b) Procedures assessed by the next MTF/4 meeting</p>	<ul style="list-style-type: none"> <li>• Completed</li> <li>• To be deleted</li> </ul>
24) APIRG/17 Dec. 17/79	Future work programme and composition of the task force	<p><b>That, the work programme and the composition of the AFI OPMET Management Task Force (MTF) be updated as shown in Appendix 3.5L to this report.</b></p>	The work programme and the composition of the AFI OPMET Management Task Force updated	Work programme and the composition updated	Completed To be deleted
25) APIRG/17 Dec. 17/80	Frequency of meetings of the AFI OPMET MTF	<p><b>That, the Task Force meets once a year to plan and assess progress on its work programme. The yearly meetings will be held alternatively between RODBs Dakar and Pretoria.</b></p>	the frequency of meetings of the AFI OPMET MTF established	Completed	Completed To be deleted
26) APIRG/17 Concl. 17/81	Improving the dissemination of SIGMET	<p><b>That:</b></p> <p>a) <b>Dakar ROBD provider State and ASECNA take the required measures to file automatically the SIGMET test results using the appropriate procedures in the SIGMET guide; and</b></p> <p>b) <b>Upon receipt of a VAA Message, the</b></p>	<ul style="list-style-type: none"> <li>• Improved dissemination of SIGMETs</li> <li>• Improved availability of SIGMET at aerodromes and for en-route users</li> </ul>	<ul style="list-style-type: none"> <li>• AFI RODB updated with regard to automatic filing</li> <li>• The yearly AFI SIGMET tests results indicates that most</li> </ul>	Completed To be deleted

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		<b>MWOs in the AFI Region act promptly to issue a corresponding SIGMET within ten (10) minutes.</b>		MWOs issue SIGMETs within ten (10) minutes	
27) APIRG/17 Concl. 17/82	Measures to improve the issuance and dissemination of SIGMET	<p><b>That:</b></p> <p>a) <b>The ICAO Regional Offices of Dakar and Nairobi evaluate the provision of SIGMET information in all AFI MWOs through the RODB and State missions;</b></p> <p>b) <b>ICAO Regional Offices encourage States to establish arrangements between adjacent MWOs for the provision of SIGMET information in MWOs where telecommunications or organizational issues are still inadequate;</b></p> <p>c) <b>WMO in coordination with ICAO, be invited to provide additional training in the issuance of VA and TC SIGMETs to some MWOs not able to issue the required SIGMETs;</b></p> <p>d) <b>The ICAO Regional Offices of Dakar and Nairobi update the AFI SIGMET guide for additional details of VA and TC test procedures; and</b></p> <p>e) <b>The MWOs provider States endeavor to address the identified deficiencies in the issuance and dissemination of SIGMET.</b></p>	<ul style="list-style-type: none"> <li>• Issuance and dissemination of SIGMET improved</li> <li>• Improved availability of SIGMET at aerodromes and for en-route users</li> </ul>	<p>a) Evaluation of SIGMET provision through AFI SIGMET Tests</p> <p>b) One MWO (Robertsfield) is yet to fully comply with the requirements of the SIGMET preparation and dissemination</p> <p>c) Additional SIGMET training conducted in 2012</p> <p>d) AFI SIGMET Guide to be updated and placed at AFI website</p> <p>e) State letter sent to concerned MWO Provider States to endeavor to address the identified deficiencies</p>	<p>a) Implemented every year since 2008</p> <p>b) Not yet implemented</p> <p>c) Completed</p> <p>d) Not yet implemented</p> <p>e) Not yet implemented</p>
28)	Improving availability of	<b>That, AFI States be invited to organize coordination meetings between ATM, MET</b>	<ul style="list-style-type: none"> <li>• Improved availability of</li> </ul>	States have been	<ul style="list-style-type: none"> <li>• A new ATM/MET Task</li> </ul>

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APIRG/17 Concl. 17/83	non-regular OPMET information	<b>and Pilots on regular basis, to improve the availability of non-regular OPMET information in the AFI Region.</b>	non-regular OPMET information <ul style="list-style-type: none"><li>Improved coordination between ATM, MET and Pilots</li></ul>	encouraged to organize such meetings as necessary	Force has been established; <ul style="list-style-type: none"><li>To be deleted</li></ul>
29) APIRG/17 Dec. 17/84	Decision 17/84: establishment of core team of experts for the global ATM global operational concepts	<b>That, a core team of experts be established consisting of members from ASECNA, Kenya, Morocco, South Africa and the United Kingdom to collect and study information on the impact of the global Air Traffic Management operational concept on the provision of Aeronautical Meteorological Services at a Regional level (AFI Region).</b>  <i>Note 1: The team of experts will consist of specialists in ATM, CNS and MET.</i>	A core team of experts for the global ATM operational concepts established	Completed Upgraded to ATM/MET Task Force	<ul style="list-style-type: none"><li>Completed;</li><li>To be deleted</li></ul>
30) APIRG/17 Dec. 17/85	Future work programme of the MET/SG	<b>That, the work programme of the MET/SG be updated as shown in Appendix 3.5L to this report.</b>	The MET/SG future work programme updated	Completed	<ul style="list-style-type: none"><li>Completed;</li><li>To be deleted</li></ul>
31) APIRG/17 Concl. 17/102	Training of meteorological offices personnel for the implementation of quality management system (QMS) and issuance of SIGMETs under	<b>That, the following programmes be accorded high priority in ACIP;</b>  <b>a) Selected aeronautical MET personnel be trained as trainers in Quality Management System (QMS); and</b>  <b>b) Meteorological Watch Offices (MWOs) personnel be provided with additional training in the preparation and issuance of SIGMETs.</b>	Meteorological offices personnel trained for the implementation of quality management system (QMS) and issuance of SIGMETs under ACIP.	Not implemented for lack of funds	Not implemented Not to be deleted

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	ACIP.	<i>Note: Report on Tactical Action Group (TAG) Activities</i>			
32) Conclusion 18/39	Receiving WAFS Products and Related OPMET Information Through SADIS	<b>That, the following five States in the AFI region: Burundi, Eritrea, Liberia, Sao Tome and Principe and Sierra Leone which have not yet implemented SADIS, endeavor to address this deficiency in accordance with Conclusion 10/31 of the APIRG/10 meeting as a matter of urgency.</b>	Deficiency in accordance with Conclusion 10/31 of the APIRG/10 meeting removed by Burundi, Eritrea, Liberia, Sao Tome and Principe and Sierra Leone	Not yet implemented	<ul style="list-style-type: none"> <li>• Not implemented</li> <li>• Not to be deleted</li> </ul>
33) Conclusion 18/40	Implementation of the WAFS In The AFI Region	<b>That SADIS Users/States in the AFI Region:</b> a) <b>who have not already implemented Secure SADIS FTP, arrange to obtain Secure SADIS FTP log on credentials from the SADIS Provider State;</b> b) <b>take action to obtain GRIB2 compatible visualization software from their workstation suppliers;</b> c) <b>monitor developments for future requirements of a SADIS satellite broadcast beyond 2015 and respond in a timely fashion to any future surveys/questionnaires on this subject in order to ensure their views are noted;</b> d) <b>apply for WAFS Internet File Service (WIFS) account(s) through the ISCS/WIFS Provider State for use as backup/contingency;</b> e) <b>review the published workstation evaluation reports in order to assess which systems best meet their needs; and</b>	a) Secure SADIS FTP log on credentials obtained from SADIS Provider State b) GRIB2 compatible visualization software obtained from supplier c) future requirements of a SADIS satellite broadcast beyond 2015, monitored d) WIFS account obtained for use in case of backup/ contingency e) workstation evaluation reports in order to assess which systems best meet States' needs, reviewed	Most AFI States implemented a) to f)	<ul style="list-style-type: none"> <li>• Implemented by most AFI States</li> <li>• To be deleted</li> </ul>

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		<b>f) make all efforts to migrate to Secure SADIS FTP before 30 November 2012 or risk losing access to the Internet-based provision of SADIS</b>	f) All AFI States have migrated to <b>Secure SADIS FTP</b>		
34) Conclusion 18/41 C	Implementation of AMBEX Handbook Procedures	<b>That, Dakar and Pretoria RODB Provider States:</b> <b>a) implement an automatic OPMET data monitoring scheme using procedures in Chapter 12 and Appendix F of the AMBEX Handbook on quarterly basis (March 31, June 30, August, 31 and December 31 of each year);</b> <b>b)perform regular 24 hour simultaneous monitoring starting at 0000 UTC on the first Wednesday of every month; and</b> <b>c) distribute the monitoring statistics to the Chairman of the OPMET Management and the Secretariat with effect from July 2012.</b>	a) Related AMBEX procedures implemented; b) Improved OPMET monitoring c) Improved availability of OPMET at AFI aerodromes	Not yet implemented	Implementation awaited  Not to be deleted
35) Decision 18/42 C	Development of Back Up Procedures for The AFI RODBs	<b>That, a Core Team of experts consisting of Members from Kenya, Madagascar, Senegal, South Africa and ASECNA be established to develop back up procedures for the AFI RODBs.</b>	a) Related AMBEX procedures implemented; b) Improved availability of OPMET at AFI aerodromes	A Core team of Experts still working on the issue	Not yet developed  Not to be deleted
36) Conclusion 18/43 C	Implementation of an AFTN Circuit between Dakar and	<b>That Dakar and Pretoria RODBs Provider States,</b> <b>a) investigate the best possible way to</b>	a) Improved OPMET monitoring	Not yet implemented by RODBs	Not yet developed

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	Pretoria RODBs to Support Back-Up Contingency Capabilities	<p><b>implement a backup circuit between the two RODBs for the implementation of the backup procedures between the RODBs, in time for the MTF/4 meeting September 2012 and</b></p> <p><b>b) implement reliable telecommunications facilities to support back-up procedures for the AFI RODBs.</b></p>	b) Improved availability of OPMET at AFI aerodromes		Not to be deleted
37) Decision 18/44 C	Amendment to the AMBEX Handbook	<p><b>That,</b></p> <p><b>a) <u>Appendices A and B</u> to the AMBEX Handbook be updated by the MET/SG Secretariat to reflect AFTN addresses for the IROGs Bangkok, Jeddah and Rio de Janeiro; and</b></p> <p><b>b) the amended AMBEX Handbook given in <u>Appendix 3.6A</u> to this report, be:</b></p> <ul style="list-style-type: none"> <li>✓ endorsed as the AMBEX Handbook Seventh Edition, Amendment 2; and</li> <li>✓ published by the MET/SG Secretariat by July 2012.</li> </ul>	<p>a) Improved OPMET monitoring</p> <p>b) Improved availability of OPMET at AFI aerodromes</p>	<ul style="list-style-type: none"> <li>• Amendment planned to be completed in 2015;</li> </ul>	<ul style="list-style-type: none"> <li>• Not to be deleted</li> </ul>
38) Conclusion 18/45 C	SIGMET Monitoring and OPMET Routing Tables	<p><b>That,</b></p> <p><b>a) the two AFI RODB Provider States be invited to monitor the reception of SIGMET information during the regular (twice yearly) EUR Region SIGMET tests and report;</b></p> <p><b>b) the two AFI IROGs and ROC Toulouse</b></p>	<p>a) Improved OPMET monitoring including SIGMET</p> <p>b) Improved availability of OPMET at AFI</p>	<ul style="list-style-type: none"> <li>• Amendment planned to be completed in 2014;</li> </ul>	Not to be deleted

Cons/ Decs No. Strategic Objectives*	Title of Cons/Decs	Text of Cons/Decs	Deliverables/ Intended Outcome	Status of implementation.	Characteristics: Implemented/Obsolete/Matur e/Covered in SARPS or RANP/Redundant
		exchange their routing tables and verify the coherency of these tables; and c) the AFI IROGs be invited to review their current routing tables, the status of OPMET reception, and update the routing tables as necessary.	aerodromes		
39) Conclusion 18/46 C	Implementation of AFI OPMET data catalogue	<b>That, the OPMET data catalogue given in <u>Appendix 3.6B</u> to this report, be expeditiously finalized and implemented by States in the AFI Region.</b>	a) Improved OPMET monitoring b) Improved availability of OPMET at AFI aerodromes	To be finalized by 2015	<ul style="list-style-type: none"> <li>Not to be deleted</li> </ul>
40) Decision 18/47 C	Amendment to the AFI Regional SIGMET Guide	<b>That, the amendment to the SIGMET Guide given in <u>Appendix 3.6C</u> to this report, is approved as the AFI Regional SIGMET Guide Ninth Edition, Amendment 2.</b>	<ul style="list-style-type: none"> <li>SIGMET Guide amended to include appropriate changes</li> </ul>	<ul style="list-style-type: none"> <li>To be completed by 2014</li> </ul>	<ul style="list-style-type: none"> <li>Not to be deleted</li> </ul>
41) Conclusion 18/48 C	Measures To Improve The Issuance of SIGMET in the AFI Region	<b>That, the ICAO Dakar and Nairobi Regional offices sensitize meteorological authorities in the AFI Region on the importance of continuous monitoring, by meteorological watch offices (MWOs), of hazardous meteorological conditions that would warrant the issuance of SIGMET information in their respective areas of responsibility.</b>	<ul style="list-style-type: none"> <li>Meteorological authorities aware of continuous monitoring of hazardous meteorological conditions for aviation</li> </ul>	<ul style="list-style-type: none"> <li>Continuous activity</li> </ul>	<ul style="list-style-type: none"> <li>Not to be deleted</li> </ul> <p>To be combined with Dec. 18/47</p>
42) Conclusion 18/49 C	Revision of OPMETOPMET Data Requirements	<b>That:</b> a) <b>information related to the requirements of OPMET data from non-AOP aerodromes as given at Appendix 3.6D to</b>	<ul style="list-style-type: none"> <li>Updated AFI FASID MET Table 1A</li> <li>New OPMET</li> </ul>	Action completed	<ul style="list-style-type: none"> <li>Completed</li> <li>To be deleted</li> </ul>

Cons/ Decs No. Strategic Objectives*	Title of Cons/Decs	Text of Cons/Decs	Deliverables/ Intended Outcome	Status of implementation.	Characteristics: Implemented/Obsolete/Matur e/Covered in SARPS or RANP/Redundant
		<p><b>this report, be submitted by ICAO Dakar and Nairobi Regional offices to the concerned States for approval, before amending the AFI FASID MET Table 2A and Annex 1 to the SADIS User Guide (SUG); and</b></p> <p><b>b) the non-AOP aerodromes as listed in Appendix 3.6E to this report, be deleted from AFI FASID MET Table 2A.</b></p>	requirements included in AFI FASID		
43) Conclusion 18/50 C	Improvement of OPMET Availability from AFI States Aerodromes	<b>That, efforts be made by the concerned States to improve the availability at Dakar RODB, of the required OPMET information from Accra, Conakry, Freetown, Kano, Kinshasa, Lagos and Luanda.</b>	<ul style="list-style-type: none"> <li>Improved availability of OPMET from the concerned aerodromes</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>Improved OPMET availability from Accra, Kano, Kinshasa and Lagos. But Conakry, Freetown, Luanda and now Monrovia still a challenge</li> </ul>	<ul style="list-style-type: none"> <li>To be reformulated for Conakry, Freetown, Luanda and Monrovia</li> <li>Not to be deleted</li> </ul>
44) Decision 18/51 C	Preparation of AFI XML Transition Plan	<b>That, the preparation of the AFI XML Transition Plan be deferred until the adoption of Amendment 76 to Annex 3 (July 2013) at the earliest.</b>	postponed	<ul style="list-style-type: none"> <li>Postponed till 2014</li> </ul>	<ul style="list-style-type: none"> <li>To be deleted</li> <li>New Decision will be formulated after the MET Div (2014)</li> </ul>
45) Conclusion 18/52 C	Issuance and Dissemination of SIGMET	<p><b>That:</b></p> <p><b>a) ICAO Regional offices should make concerted efforts to assist States address shortcomings and difficulties identified;</b></p> <p><b>b) the MWO Provider States listed in Appendix 3.6F take the required measures to remove operational shortcomings in SIGMET provision; and</b></p>	<ul style="list-style-type: none"> <li>Issuance and dissemination of SIGMET improved</li> <li>Improved availability of SIGMET at aerodromes and for en-route users</li> </ul>	<ul style="list-style-type: none"> <li>Kinshasa MWO has started issuing SIGMET from 13 September 2012 but Robertsfield MWO is not yet established</li> </ul>	<ul style="list-style-type: none"> <li>To be combined with Conclusions 17/81, 17/82, 18/45, 18/48 and 18/57</li> </ul>

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		c) <b>Roberts field and Kinshasa FIRs MWOs consider bilateral arrangements with adjacent MWOs (i.e. Dakar and Brazzaville MWOs respectively) for the provision of SIGMET information on behalf of the States concerned.</b>			
46) Conclusion 18/53	Awareness Seminars on the AFI Air Traffic Management Volcanic Ash Contingency Plan	<p><b>That ICAO Dakar and Nairobi Regional Offices through the ATM/MET Task Force, conduct regional awareness seminars on the AFI ATM Volcanic Ash Contingency Plan in view of:</b></p> <p>a) <b>Making all aviation stockholders in the AFI region aware of ATM VACP;</b>  b) <b>Supporting its implementation; and</b>  c) <b>Proposing further improvements to the plan.</b></p> <p><i>Note: It is suggested that seminars be convened in 2013 and conducted in both English and French.</i></p>	Regional awareness seminars on the AFI ATM Volcanic Ash Contingency Plan, conducted	Seminars postponed for 1 <sup>st</sup> quarter 2014	<ul style="list-style-type: none"> <li>• Not to be deleted</li> </ul>
47) Conclusion 18/54	Alternative Funding Sources for the Establishment and Implementation of QMS for the Provision of Aeronautical	<p><b>That ICAO and WMO investigate as a matter of urgency other possible sources of funding besides cost recovery to assist States willing to enter into a twinning or bilateral arrangements in order to fast-track the implementation of QMS for the provision of aeronautical meteorological (MET) service and aeronautical information management (AIM) .</b></p>	QMS for MET and AIM implemented	Not implemented	<ul style="list-style-type: none"> <li>• Not to be deleted</li> <li>• May be combined with Conclusions 16/59, 17/102 and SP RAN 6/16</li> </ul>

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	Meteorological Service and Aeronautical Information Management (AIM)				
48) Conclusion 18/55	States Participation in the Cooperative Programme for Operational Meteorology (COMET) Through Safe Skies For Africa (SSFA) Programme	<b>That States requiring aeronautical meteorology training material from SSFA in collaboration with COMET to contact the ICAO Regional Offices as appropriate.</b>	States' MET forecasters trained using SSFA COMET tools	Not yet implemented	<ul style="list-style-type: none"> <li>Continuing</li> <li>Not to be deleted</li> </ul>
49) Decision 18/56	Future Work Programme of the MET SUB- GROUP	<b>That the work programme of the MET/SG be updated as shown in Appendix 3.6I.</b>	MET/SG work programme updated	Implemented	Implemented To be deleted
<b>SPECIAL AFI REGION AIR NAVIGATION MEETING IN 2008 (SP AFI RAN/08)</b>					
50) SP RAN(2008) Rec. 6/15	Foster the implementation of SIGMET and QMS in the AFI region	<b>that APIRG adopt the met performance objective: foster the implementation of SIGMET and quality management system(QMS) in the AFI region as contained in the performance framework form at appendix f to the report on agenda</b>	<ul style="list-style-type: none"> <li>Provision of enhanced safety related MET information to International Civil Aviation</li> </ul>	2 SIGMET and 2 QMS workshops in 2010.	Further actions proposed by APIRG/17 Concl. 17/81 and 17/82 <ul style="list-style-type: none"> <li>Not to be deleted</li> </ul>

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		<b>item 6</b>			
51) SP RAN(2008) Rec. 6/16	Technical and financial support for the implementation of quality management systems in the AFI region	<b>that ICAO identify potential sources of technical and financial support for States for the implementation of quality management systems(QMS) in meteorology</b>	Technical and financial support obtained for States for the implementation of QMS for MET	Not implemented	<ul style="list-style-type: none"> <li>• Further actions recommended by Concl. 17/102 of APIRG/17</li> <li>• Not to be deleted</li> </ul>
52) SP RAN(2008) Rec. 6/17	Implementation of terminal area warnings and forecasts, provision of WAFS forecasts and optimization of OPMET data exchanges and training for aeronautical meteorological staff	<b>That APIRG adopt the Performance Objective: Foster the implementation of terminal area warnings and forecasts, provision of world area forecast system (WAFS) forecasts and optimization of OPMET data exchanges as contained in Appendix G to the report on Agenda Item 6.</b>	<ul style="list-style-type: none"> <li>• Terminal area warnings and forecasts, provision of WAFS forecasts implemented</li> <li>• Optimization of OPMET data exchanges</li> <li>• Aeronautical meteorological staff trained</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of Terminal area warnings and forecasts encouraged during State mission</li> <li>• Provision of WAFS forecasts implemented through SADIS</li> <li>• Difficulties in training MET staff for lack of resources</li> </ul> <p>None</p>	<ul style="list-style-type: none"> <li>• Continuous</li> <li>• Not to be deleted</li> </ul>