



INTERNATIONAL CIVIL AVIATION ORGANISATION
AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG)
METEOROLOGY SUB-GROUP TENTH MEETING (MET/SG/10)
(Dakar, Senegal, 29 June – 01 July 2011)

Agenda Item 2: Review of APIRG Conclusions and Decisions

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.

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 MET/SG is invited to review progress so far made on the implementation of these decisions and conclusions and to note the actions taken so far. In reviewing Appendix A to this paper, the Sub-group may wish to formulate the following conclusion with regard to the implementation of Conclusion 10/31 of the APIRG/10 meeting:

Draft Conclusion 10/xx : Receiving WAFS Products and related OPMET information through SADIS

That, the following five States in the AFI region: Burundi, Eritrea, Sao Tome E Principe, Sierra Leone and Liberia which have not yet implemented SADIS, endeavor to address this deficiency in accordance with Conclusion 10/31 of the APIRG/10 meeting.

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 conclusion proposed for the Sub-group's consideration.
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Appendix A

STATUS OF IMPLEMENTATION OF APIRG CONCLUSIONS AND DECISIONS

Conc/Dec No.	Title of Conclusion/ Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Status/Action Taken
1) AFMAG Con. 1/6 APIRG Con. 8/43	AMBEX procedures	<p>that:</p> <p>a) States participating in the AMBEX scheme strictly follow AMBEX procedures as contained in the AMBEX handbook.</p> <p>b) the ICAO regional offices concerned, with a view to assisting states where major deficiencies are identified, conduct a second series of seminars on AMBEX procedures.</p> <p>c) ICAO regional offices monitor the operation and effectiveness of the AMBEX scheme through periodic TAF availability surveys.</p>	AMBEX procedures amended through AMBEX Handbook 7 th edition (APIRG/17 Con. 75, 76, 77 and 78). New procedures initiated by AFI RODBs and Secretariat	Secretariat	Completed
2) AFMAG Con. 3/2 APIRG Con.10/31	Reception of the SADIS	<p>that:</p> <p>a) AFI States, as a matter of urgency, make the required arrangements to acquire the necessary equipment for reception of the WAFS SADIS products at their met centre(s).</p> <p>b) the cost of provision of such service may be recovered through air navigation charges</p>	Acquire the necessary equipment for reception of WAFS through SADIS.	States	91% (40/44) of AFI States are provided with SADIS broadcast or FTP services (Sierra Leone, Sao Tome and Principe, Eritrea and Burundi are not using SADIS)

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3) AFMAG Con. 3/4 APIRG Con.10/33	Brazzaville TCC	That authorities at Brazzaville TCC be urged to take the required measures to improve TAF reception and exchange at their TCC, namely the establishment of reliable telecommunications links with Kinshasa and Luanda.	To take the required measures to improve TAF reception and exchange at their TCC.	Brazzaville TCC	Completed
4) MET/SG Con. 4/4 APIRG Con.12/34	Feedback on SIGWX charts to London WAFC	That states receiving SIGWX from WAFC LONDON provide feedback on a timely manner to the WAFC on their findings on the accuracy of the SIGWX test charts received.	Provision of feedback on SIGWX	Sates	Amended: Provision of feedback no more necessary (Amendment 74 to Annex 3)
5) MET/SG Con.4/10 APIRG Con. 12/40	Training in the preparation and issuance of volcanic ash advisories and SIGMETs	That, states concerned should conduct regular exercises in cooperation with their VAAC at their meteorological watch offices (MWOS) on the preparation and issuance of volcanic ash advisories and SIGMETs in order to keep their aeronautical meteorological forecasters current with the procedures.	Conduct regular exercises at meteorological watch offices (MWOs) on the preparation and issuance of volcanic ash advisories and SIGMETs	MWO Provider States	Continuous: yearly tests conducted since 2009
6) APIRG Con. 13/68	Better communications for volcano observatories	That states concerned make efforts to establish reliable communications links between their volcano observatories and meteorological watch offices (MWOS) and area control centres (ACCS).	Establish reliable communications links between volcano observatories and MWOs and area control centres (ACCS).	MWO Provider States	Continuous

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7) MET/SG Con. 6/2 APIRG Con. 14/32	Need for latest version of workstation software	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	acquire the latest version of workstation software	States	Completed: All States equipped with SADIS have acquired an appropriate version of workstation software
8). MET/SG Con. 6/8 APIRG Con. 14/37	Cost recovery of aeronautical meteorological services	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.	Recovering aeronautic meteorological service costs	States	Action on-going
9) APIRG Con. 14/38	Seminars on cost recovery of aeronautical meteorological services	that WMO in co-ordination with ICAO organize seminars on cost recovery of aeronautical meteorological services	organize seminars on cost recovery of aeronautical meteorological services	WMO/ Secretariat	Action on-going: 4 workshops organized by WMO in coordination with ICAO
10) MET/SG Con. 6/9 APIRG Con. 14/39	Autonomous entities and meteorological service for air navigation	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.	Take due account of the provision of meteorological service to air navigation when establishing a CAA	States	Action on going: At least 10States have Autonomous established MET Agencies
11) MET/SG Con. 6/10 APIRG Con. 14/40	Quality management	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.	Implement a quality management system to improve meteorological services	States	Action on going: APIRG Conclusion 16/59

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12) APIRG Con. 14/41	Study of training available for aeronautical meteorological personnel in the afi region	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.	Carry out a study of training available for aeronautical meteorological personnel in the AFI region.	Secretariat	A survey completed in WACAF States in 2009
13) APIRG Con. 14/42	Seminars on ATS/MET/PILOT coordination	that ICAO, in co-ordination with WMO, organize seminars on ATS/MET/PILOT co-ordination for the afi region.	Organize seminars on ATS/MET/PILOT co-ordination for the afi region.	Secretariat/ WMO	Action on going: 2 seminars completed in 2010 (ESAF/WACAF)
14) APIRG Con. 15/81	training for the use of GRIB and BUFR codes	That the united kingdom, in coordination 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.	Provide training for the use of GRIB and BUFR codes to AFI States	UK, WMO and Secretariat	Action cancelled due to lack of funding.
15) APIRG Con. 15/82	Procurement of the necessary SADIS 2G hardware	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,	Procure the necessary SADIS 2G hardware	States	Completed: all Sates equipped with SADIS VSAT Station have updated to SADIS 2G hardware.
16) APIRG Con.16/48	Response by States to ICAO afi regional offices state letters	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.	Respond promptly to ICAO AFI regional offices state letters	States	On going: responses have been slightly improved
17) APIRG Con. 16/49	Training seminar on the use of icing, turbulence and convective clouds forecasts in grib2 code form	That the WAFC 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	Provide training seminars on the use of icing, turbulence and convective clouds forecasts in GRIB 2 code form	UK, WMO, Secretariat	Differed for 2011 or 2012 due to delayed in developing icing, turbulence and convective clouds forecasts in GRIB code form

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18) APIRG Con. 16/51	SADIS FTP accounts	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	Provide a SADIS FTP access accounts	SADIS Provider State	Action on-going. several States have applied and accorded access account by the SADIS Provider State
19) APIRG Con. 16/59	Support to States implement quality management systems (QMS)	<p>that: WMO in coordination with ICAO continue to assist states in implementing QMS in the form of:</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>	Provide support to States for the implementation of QMS	WMO, ICAO	Completed: WMO provided 2 seminars and ICAO provided 2 course sessions
20) APIRG Dec. 16/64	Coordination between WMO regional association 1 (Africa) and APRIG on aeronautical meteorology	That, the chairperson of the meteorology sub-group liaise with the WMO Rapporteur for aeronautical meteorology programme for regional association1(Africa) on matters of common interest when required.	Coordination between WMO regional Association 1 (Africa) and APRIG on aeronautical meteorology	ICAO/ WMO	Completed: coordination started and on continuous manner
21) APIRG Con16/58	Legal framework for aeronautical meteorological services	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.	Put in place a national legal framework for aeronautical meteorological services which include cost recovery arrangements.	States	Action on going: A number of States have established autonomous agencies but still have difficulties in establishing cost recovery arrangements

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22) SP RAN(2008) Rec. 6/15	Foster the implementation of SIGMET and QMS in the afi region	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 item 6	Foster the implementation of SIGMET and QMS in the AFI region	APIRG	On going: 2 SIGMET workshops and 2 QMS trainings in 2010. Further actions by APIRG/17 Concl. 17/81 and 17/82
23) SP RAN(2008) Rec. 6/16	Technical and financial support for the implementation of quality management systems in the AFI region	that ICAO identify potential sources of technical and financial support for states for the implementation of quality management systems(QMS) in meteorology	Identify potential sources of technical and financial support for States for the implementation of QMS in meteorology	ICAO/ ACIP	Not implemented: further actions recommended by Concl. 17/102 of APIRG/17
24) 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	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.	Foster the implementation of terminal area warnings and forecasts, provision of world area forecast system (WAFS) forecasts and optimization of OPMET data exchanges	APIRG	Start implementation during State missions
25) APIRG/17 Concl. 17/72	SADIS strategic assessment tables	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.	Adopt and forward the AFI SADIS strategic assessment tables to the SADISOPSG for planning the future SADIS bandwidth requirements.	Secretariat	Completed

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26) APIRG/17 Concl. 17/73:	Alternative SADIS 2G hardware	That, States review available new options for the SADIS 2G systems in order to benefit from such options by contacting vendors directly.	review available new options for the SADIS 2G systems in order to benefit from such options by contacting vendors directly.	States	Completed by the majority of States
27) APIRG/17 Concl. 17/74:	SADIS workstations evaluations	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.	ensure that their current workstations fulfill the software requirements	States	Completed by the majority of States
28) APIRG/17 Concl. 17/75	OPMET exchange requirements and inter-regional OPMET gateway (IROG) functions	That: 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 banks (RODBs), AMBEX bulletin compiling centres (BCCs) and National OPMET Centres (NOCs) as the OPMET requirements in the AFI Region; and 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.	Implement AFI OPMET exchange requirements and inter-regional gateway functions	NOC, BCC and RODB Provider Sates	Action on going: Implementation of the new AMBEX Scheme started since APIRG/17 meeting

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29) 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.	include the information related to the requirements of OPMET data from AOP Aerodromes in AFI FASID MET Table 1A	Secretariat	Completed
30) 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.	Implement OPMET exchange monitoring and management procedures at BCCS and RODBs	BCC and RODB Provider States	On going (see implementation reports from RODB Provider States)
31) APIRG/17 Concl. 17/78	Interface control document (ICD) for afi OPMET database access procedures	That: a) 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) The ICD be published by the ICAO Regional Office(s).	Implement AFI Interface control document (ICD) for afi OPMET database access procedures	States	On going: AFI data catalogue on development by the MTF
32) APIRG/17 Dec.. 17/79	Future work programme and composition of the task force	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.	Update the work programme and the composition of the AFI OPMET Management Task Force	APIRG	Completed
33) APIRG/17 Dec.. 17/80	Frequency of meetings of the afi OPMET MTF	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. <i>Note: Provision of SIGMET, Tropical Cyclones and Volcanic Ash Advisories for the AFI Region</i>	Establish the frequency of meetings of the afi OPMET MTF	APIRG	Completed

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34) APIRG/17 Concl. 17/81	Improving the dissemination of SIGMET	<p>That:</p> <p>a) 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</p> <p>b) Upon receipt of a VAA Message, the MWOs in the AFI Region act promptly to issue a corresponding SIGMET within ten (10) minutes.</p>	Improve the dissemination of SIGMETs	Dakar ROBD and MWOs	<p>Dakar ROBD updated with regard to automatic filing</p> <p>Most MWOs issue SIGMETs within ten (10) minutes</p>
35) APIRG/17 Concl. 17/82	Measures to improve the issuance and dissemination of SIGMET	<p>That:</p> <p>a) The ICAO Regional Offices of Dakar and Nairobi evaluate the provision of SIGMET information in all AFI MWOs through the ROBD and State missions;</p> <p>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;</p> <p>c) 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;</p> <p>d) The ICAO Regional Offices of Dakar and Nairobi update the AFI SIGMET guide for additional details of VA and TC test procedures; and</p> <p>e) The MWOs provider States endeavor to address the identified deficiencies in the issuance and dissemination of SIGMET.</p>	Take the required measures to improve the issuance and dissemination of SIGMET	<p>a) ICAO Regional Offices (ROs)</p> <p>b) ICAO ROs</p> <p>c) WMO/ ICAO</p> <p>d) ICAO ROs</p> <p>e) MWO Provider States</p>	<p>a) On going</p> <p>b) As necessary</p> <p>c) To be scheduled</p> <p>d) Completed</p> <p>e) MWO Provider States</p>

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36) APIRG/17 Concl. 17/83	Improving availability of non-regular OPMET information	That, AFI States be invited to organize coordination meetings between ATM, MET and Pilots on regular basis, to improve the availability of non-regular OPMET information in the AFI Region.	Improve availability of non-regular OPMET information	States	Ongoing: As necessary
37) APIRG/17 Dec. 17/84	Decision 17/84: establishment of core team of experts for the global ATM global operational concepts	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). <i>Note 1: The team of experts will consist of specialists in ATM, CNS and MET.</i>	Establish of core team of experts for the global ATM global operational concepts	APIRG	Completed
38) APIRG/17 Dec. 17/85	Future work programme of the MET/SG	That, the work programme of the MET/SG be updated as shown in Appendix 3.5L to this report.	Update the MET/SG future work programme	APIRG	Completed
39) APIRG/17 Concl. 17/102	Training of meteorological offices personnel for the implementation of quality management system (QMS) and issuance of SIGMETs under ACIP.	That, the following programmes be accorded high priority in ACIP; a) Selected aeronautical MET personnel be trained as trainers in Quality Management System (QMS); and b) Meteorological Watch Offices (MWOs) personnel be provided with additional training in the preparation and issuance of SIGMETs. <i>Note: Report on Tactical Action Group (TAG) Activities</i>	Train meteorological offices personnel for the implementation of quality management system (QMS) and issuance of SIGMETs under ACIP.	ACIP	Deferred for 2012