



International Civil Aviation Organization

**MIDANPIRG Meteorology Sub-Group
Third Meeting (MET SG/3)**

(Cairo, 19 to 21 December 2011)

Agenda Item 8: Future Work Programm

MET PERFORMANCE FRAMEWORK FORMS

(Presented by the Secretariat)

SUMMARY

This paper provides an opportunity to review the MET Performance Framework Forms.

1. INTRODUCTION

1.1 The Eleventh Meeting of the Middle East Air Navigation Planning and Implementation Regional Group (MIDANPIRG/11) adopted Conclusion 11/70 that is reproduced here within.

CONCLUSION 11/70 – REGIONAL PERFORMANCE FRAMEWORK

That,

- a) A regional performance framework be adopted on the basis of and alignment with the Global Air Navigation Plan, the Global ATM Operational Concept, and ICAO guidance material and planning tools. The performance framework should include the identification of regional performance objectives and completion of regional performance framework forms; and*
- b) ALLPIRG/5 Conclusion 5/2: Implementation of Global Plan Initiatives (GPIs, be incorporated into the terms of reference of the MIDANPIRG subsidiary bodies*

1.2 The adoption of MIDANPIRG Conclusion 11/70 supports the ICAO planning objective to achieve a performance based global air traffic management system (ATM) through the implementation of air navigation systems and procedures in a progressive, cost-effective and cooperative manner.

2. DISCUSSION

2.1 The meeting may consider the regional performance objectives in the MET field in **Appendix A** to this working paper that are based on the current regional work programme. Adaptation for the MID Region may be considered before forwarding to the MIDANPIRG/12 meeting for possible adoption.

MID Objective MET-1 – Implement International Airways Volcano Watch (IAVW), International Tropical Cyclone Watch (ITCW) and SIGMETs

MID Objective MET-2 – Implement WAFS and associated developments

MID Objective MET-3 – Develop regional MET requirements to support ATM

MID Objective MET-4 – Improve OPMET exchange efficiency

2.2 Given the above, the MID MET SG/3 meeting may consider the following Draft Conclusion for MIDANPIRG/12 consideration.

DRAFT CONCLUSION 3/XX – PERFORMANCE FRAMEWORK FORMS

That, the meeting adopt the Performance Framework Forms in **Attachment A** that are associated with the 4 MET objectives.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the Performance Framework Forms in **Appendix A**;
- b) provide updates if necessary; and
- c) consider adoption of the related Draft Conclusion.

APPENDIX A

MID REGION

PERFORMANCE FRAMEWORK FORM
(REGIONAL)

(amended 5 December 2011)

REGIONAL PERFORMANCE OBJECTIVE: <u>MID MET Objective 1</u>				
IMPLEMENT INTERNATIONAL AIRWAYS VOLCANO WATCH (IAVW), INTERNATIONAL TROPICAL CYCLONE WATCH (ITCW), AND IMPROVE THE QUALITY OF METEOROLOGICAL WARNINGS AND ADVISORIES				
Benefits				
Safety Efficiency	<ul style="list-style-type: none"> • Improve in-flight safety by providing information on volcanic ash, tropical cyclone and other hazardous weather by way of meteorological advisories and warnings • Improve pre-flight planning by optimizing flight routes with respect to volcanic ash, tropical cyclone and other hazardous weather phenomena by way of meteorological advisories and warnings 			
Strategy				
Short term (2012-2013)/Medium term (2014 - 2016)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
MET	<ul style="list-style-type: none"> • Monitor and provide assistance in the regional implementation of meteorological warnings and advisories that include volcanic ash (VA) and tropical cyclone (TC) advisories and meteorological warnings and advisories based on current and future requirements 	2012 - 2016	MET SG	In progress
	<ul style="list-style-type: none"> • Track and investigate deficiencies in the format and dissemination of meteorological advisories and warnings and propose remediation plans and provide information to ICAO and WMO groups for possible assistance 	2012 - 2016	BMG	In progress
	<ul style="list-style-type: none"> • Conduct periodic tests for SIGMET on VA, TC, and phenomena other than VA and TC in view of assessing improvements in their implementation 	2012 – 2016	MET SG & BMG	In progress
	<ul style="list-style-type: none"> • Provide guidance and/or training related to the implementation of meteorological advisories and warnings, including the Regional SIGMET Guide as they relate to the Annex 3 amendment cycle 	2012 - 2016	MET SG	In progress

	<ul style="list-style-type: none"> • Develop contingency plan for volcanic ash with reference to developments made by the IVATF and WMO scientific steering committee 	2012 - 2012	MET SG Ad-hoc	To begin
Linkage to GPIs	GPI/19 – Meteorological Systems			
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>Manual on Low-level Wind Shear (Doc 9817)</i> • <i>MID Regional SIGMET Guide</i> 			

MID REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 5 December 2011)

REGIONAL PERFORMANCE OBJECTIVE: <u>MID MET Objective 2</u>				
IMPLEMENT WAFS AND ASSOCIATED DEVELOPMENTS				
Benefits				
Safety Efficiency	<ul style="list-style-type: none"> Improve the regional implementation of weather forecasts (including upper winds and upper-air temperatures, direction, speed and height of maximum winds and tropopause heights, as well as turbulence, icing, cumulonimbus) used by airlines and ATM needed to optimize flight routes which will provide an increase in efficiency and reduced carbon emissions 			
Strategy				
Short term (2012-2013)/Medium term (2014 - 2016)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
MET	<ul style="list-style-type: none"> Assist the regional implementation of new gridded products for turbulence, icing and CB forecasts 	2012 - 2016	MET SG	In progress
	<ul style="list-style-type: none"> Facilitate in organizing regional training of new gridded products for turbulence, icing and cumulonimbus forecasts 	2012 - 2016	ICAO & WMO	In progress
	<ul style="list-style-type: none"> Monitor the implementation of WIFS for backup purposes to SADIS noting the planned cessation of ISCS-G2 broadcast in June 2012 	2012 -2016	MET SG	In progress
	<ul style="list-style-type: none"> Monitor the implementation of Secure SADIS FTP service 	2012 - 2016	MET SG	In progress
	<ul style="list-style-type: none"> Monitor the implementation status of WAFS within the MID Regions, and report to MET SG 	2012 -2016	MET SG	To begin
	<ul style="list-style-type: none"> Report WAFS training needs of MID States to MET SG 	2012 - 2016	MET SG	To begin
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	<ul style="list-style-type: none"> Annex 3 http://www.icao.int/anb/wafsopsg/ http://www.icao.int/anb/sadisopsg/ Asia/Pac WAFS Implementation Plan and Procedures 			

MID REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 5 December 2011)

REGIONAL PERFORMANCE OBJECTIVE: <u>MID MET Objective 3</u>				
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 			
<i>Strategy</i>				
Short term (2012-2013)/Medium term (2014 - 2016)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
MET	<ul style="list-style-type: none"> Conduct MET seminar in coordination with WMO in 2013 or 2014 depending on regional and global developments related to MET requirements to support ATM 	2013-2014	MET SG	planning
	<ul style="list-style-type: none"> Assess aviation meteorological services, systems and architecture in the region and how they can integrate weather information into decision support tools 	2012-2016	MET SG	In progress
	<ul style="list-style-type: none"> Investigate sub-regional exchange of MET information (e.g. weather radar data) and associated agreements that facilitate ATM operations particularly over busy routes that overlap different FIRs 	2012 - 2016	MET SG	In progress
	<ul style="list-style-type: none"> Facilitate implementation of Meteorological Services for the Terminal Area (under development by WMO) 	2014-2016	MET SG	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> 			

MID REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 5 December 2011)

REGIONAL PERFORMANCE OBJECTIVE: <u>MID Objective 4</u>				
IMPROVE OPMET EXCHANGE EFFICIENCY				
Benefits				
Safety Efficiency	<ul style="list-style-type: none"> • Increase OPMET availability and reliability needed for flight planning (efficiency) and in-flight re-planning (safety) 			
Strategy				
Short term (2012-2013)/Medium term (2014 - 2016)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
MET	<ul style="list-style-type: none"> • Improve the availability of OPMET data at the Regional OPMET Data Banks (RODB) 	2012 - 2016	BMG	In progress
	<ul style="list-style-type: none"> • Improve the inter-regional OPMET exchange 	2012 - 2016	BMG	In progress
	<ul style="list-style-type: none"> • Consider development of and maintenance of regional ROBEX tables and guidance material 	2012 - 2016	BMG	In progress
	<ul style="list-style-type: none"> • Facilitate and provide guidance to the implementation new/modified standards before applicability date and carry out post implementation review to ensure that standardized procedures are followed 	2012 - 2016	BMG	In progress
	<ul style="list-style-type: none"> • Conduct periodic quality checks and OPMET monitoring to improve the quality and timeliness of OPMET in the MID Region 	2012 - 2016	BMG in coordination with EUR DMG	In progress
	<ul style="list-style-type: none"> • <i>Facilitate and monitor the migration to AIM and new MET codes (e.g. XML) for METAR/SPECI, TAF and SIGMET</i> 	TBD	BMG & MET SG & RO	TBD
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	<ul style="list-style-type: none"> • <i>SADIS User Guide</i> • <i>Asia/Pacific ROBEX Handbook</i> • <i>Asia/Pacific OPMET Data Banks Interface Control Document</i> 			