



International Civil Aviation Organization

**FOURTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE
AND METEOROLOGY SUB-GROUP OF
APANPIRG (CNS/MET SG/14)**



Jakarta, Indonesia, 19 – 22 July 2010

Agenda Item 16: Review regional performance framework objective and forms:

2) MET related performance framework forms

REVIEW PERFORMANCE FRAMEWORK FORMS (MET RELATED)

(Presented by the Secretariat)

SUMMARY

This paper presents the Asia/Pacific regional performance framework forms in the MET field for review by the meeting.

This paper relates to:

Strategic Objectives:

- A. Safety – Enhance global civil aviation safety
- D. Efficiency – Enhance the efficiency of aviation operations

Global Plan Initiatives:

GPI/19 – Meteorological Systems

1. Introduction

1.1 The Twentieth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/20) adopted Conclusion 20/2 that is reproduced here within.

Conclusion 20/2 – Asia Pacific Regional Performance Objectives

That, the Asia Pacific Regional Performance Objectives and associated Performance Framework Forms (PFFs) as contained in Appendix A to APANPIRG/20 Report on Agenda Item 3.0 be adopted.

The adoption of APANPIRG/20 Conclusion 20/2 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 will recall that the following regional performance objectives in the MET field based on the current regional work programme was included in Appendix A to APANPIRG/20.

APAC Objective 12 – Implement International Airways Volcano Watch (IAVW), International Tropical Cyclone Watch (ITCW) and SIGMETs

APAC Objective 13 – Implement WAFS and associated developments

APAC Objective 14 – Develop regional MET requirements to support ATM

APAC Objective 15 – Improve OPMET exchange efficiency

2.2 The **Attachment** to this paper contains the performance framework forms associated with these regional performance objectives to be reviewed by the meeting and updated if necessary.

3. Action required by the Meeting

3.1 The meeting is invited to:

- a) review the performance framework forms in the **Attachment**; and
- b) provide updates if necessary.

CNS/MET SG/14 – WP/21 - Attachment

(MET section extracted from APANPIRG/20
Appendix A to the Report on Agenda Item 3.0)

ASIA/PACIFIC REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 11 September 2009)

REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 12</u>				
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 			
<i>Strategy</i>				
Short term/Medium term (2011 - 2015)				
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 	2009 - 2015	VA/TC/I TF	In progress
	<ul style="list-style-type: none"> • Conduct periodic tests for SIGMET on volcanic ash and tropical cyclones in view of assessing improvements in their implementation 	2009 – 2015	VA/TC/I TF & OPMET/M TF	In progress
	<ul style="list-style-type: none"> • Conduct periodic tests for SIGMET for hazardous weather phenomena other than volcanic ash and tropical cyclone in view of assessing improvements in their implementation 	2009 – 2015	RODB & OPMET/M TF	In progress
	<ul style="list-style-type: none"> • Update the Regional SIGMET Guide to keep it consistent with Annex 3 	2010, 2013	VA/TC/I TF & OPMET/M TF & RO	In progress
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>Asia/Pacific Regional SIGMET Guide</i> 			

CNS/MET SG/14 – WP/21 - Attachment

(MET section extracted from APANPIRG/20
Appendix A to the Report on Agenda Item 3.0)

ASIA/PACIFIC REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 11 September 2009)

REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 13</u>				
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 			
<i>Strategy</i> Short term/Medium term (2011 - 2015)				
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 cumulonimbus forecasts 	2009-2011	WAFS/I TF	In progress
	<ul style="list-style-type: none"> Facilitate in organizing regional training of new gridded products for turbulence, icing and cumulonimbus forecasts 	2010-2011	WMO & ICAO	In progress
	<ul style="list-style-type: none"> Monitor the migration to ISCS G3 	2012	WAFS/I TF	In progress
Linkage to GPIs	GPI/19 – Meteorological Systems			
References	<ul style="list-style-type: none"> <i>Annex 3</i> http://www.icao.int/anb/wafsopsg/ http://www.icao.int/anb/sadisopsg/ <i>Asia/Pac WAFS Implementation Plan and Procedures</i> 			

CNS/MET SG/14 – WP/21 – Attachment

(MET section extracted from APANPIRG/20
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ASIA/PACIFIC REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 11 September 2009)

REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 14</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/Medium term (2011 - 2015)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
MET	<ul style="list-style-type: none"> Conduct MET ATM meeting in 2009 to determine actions needed to obtain regional MET requirements to support ATM 	2009	MET ATM	In progress
	<ul style="list-style-type: none"> Conduct survey on regional ATM requirements for MET information 	2009 - 2011	MET ATM	To commence after MET ATM meeting
	<ul style="list-style-type: none"> Conduct MET seminar in 2010 to further develop list of possible regional MET requirements to support ATM 	2010	MET ATM	future
	<ul style="list-style-type: none"> Facilitate implementation of new terminal forecast (under development by WMO) 	2010-2016	MET ATM	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> 			

CNS/MET SG/14 – WP/21 - Attachment

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ASIA/PACIFIC REGION

**PERFORMANCE FRAMEWORK FORM
(REGIONAL)**

(amended 11 September 2009)

REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 15</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) 			
<i>Strategy</i>				
Short term/Medium term (2011 - 2015)				
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) 	2009 - 2015	OPMET/M TF	In progress
	<ul style="list-style-type: none"> • Improve the inter-regional OPMET exchange 	2009 - 2015	OPMET/M TF	In progress
	<ul style="list-style-type: none"> • Improve the availability of OPMET data in the Pacific 	2009 - 2015	OPMET/M TF & TCB & PASO & States	In progress
	<ul style="list-style-type: none"> • Review and update regional ROBEX tables and guidance material 	2009 - 2015	OPMET/M TF & RO	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> 	<i>TBD</i>	<i>OPMET/M TF & RO</i>	<i>TBD</i>
Linkage to GPIs	GPI/19 – Meteorological Systems (Note: if sufficient assessment information is available at the OPMET/M TF/7 meeting, use as baseline and provide a target level of improvement in the first 3 bullets)			
References	<ul style="list-style-type: none"> • <i>SADIS User Guide</i> • <i>ROBEX Handbook</i> • <i>Asia/Pacific OPMET Data Banks Interface Control Document</i> 			