



International Civil Aviation Organization

**FIFTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL
HAZARDS TASK FORCE (MET/H TF/5)**

Seoul, Republic of Korea, 18 – 20 March 2015

Agenda Item 6: Future work programme

REVIEW MET/H TF TERMS OF REFERENCE AND WORK PROGRAMME

(Presented by the Secretariat)

SUMMARY

This paper presents the work programme of the MET/H TF, including terms of reference, for review by the meeting. Updates may be proposed, as determined necessary by the meeting, for further consideration and possible approval by the MET SG/19 meeting in August 2015.

1. INTRODUCTION

1.1 The ASIA/PAC Volcanic Ash / Tropical Cyclone Implementation Task Force (VA/TC I TF) was established in accordance with the outcomes of the thirteenth meeting of the ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG/13), held in Bangkok, Thailand, from 9 to 13 September 2002, in Decision 13/31 – ASIA/PAC Volcanic ash Task Force (VA TF), which adopted the terms of reference, composition and work programme for VA/TC I TF. Subsequently, in accordance with the fourteenth meeting of the Communication/Navigation/Surveillance and Meteorology Sub-group (CNS/MET SG/14) of APANPIRG, held in Jakarta, Indonesia from 19 to 22 July 2010, in its Decision 14/30, the VA/TC I TF was renamed the Meteorological Warnings and Advisories Implementation Task Force (METWARN/I TF). Finally, the METWARN/I TF was renamed the Meteorological Hazards Task Force (MET/H TF), in accordance with Decision 16/34 adopted by CNS/MET SG/16, held in Bangkok, Thailand, from 23 to 27 July 2012.

1.2 Under the current framework of APANPIRG contributory bodies, the MET/H TF reports to the MET SG which oversees the work programme and terms of reference of the MET/H TF.

2. DISCUSSION

2.1 The work programme and terms of reference of the MET/H TF were last updated at the MET/H TF/4 meeting in March 2014 and reviewed by the MET SG/18 meeting in August 2014. A copy of the MET/H TF work programme and terms of reference is provided in the **Attachment** to this paper including initial draft changes for 2015 for further review and updates by the meeting.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information in this paper; and
- b) Provide further updates to the work programme document as necessary.



ICAO APAC METEOROLOGICAL HAZARDS TASK FORCE (MET/H TF) WORKPLAN

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2.DESRIPTION	
Objective	Improve the quality of meteorological advisories and warnings and implement the International Airways Volcano Watch (IAVW) and International Tropical Cyclone Watch (ITCW) in support of the Global Air Navigation Plan framework and the aviation system block upgrade (ASBUs) methodology.
Benefits	<ul style="list-style-type: none"> • Improve in-flight safety by providing information on volcanic ash, tropical cyclone and other hazardous weather. • Improve pre-flight planning by optimizing flight routes with respect to volcanic ash, tropical cyclone and other hazardous weather phenomena.
Terms of Reference	<p>Under guidance from ICAO Secretariat:</p> <ul style="list-style-type: none"> • Maintain awareness of current and future requirements with respect to the issuance of meteorological advisories and warnings in support of the aviation system block upgrades (ASBUs); • Maintain awareness of the implementation of meteorological advisories and warnings within the ASIA/PAC Region and any deficiencies; • Continually seek ways to improve the operational effectiveness of the meteorological advisory and warning system; and • Provide advice to the MET Sub-group on the above issues.
Work Program	<p>The work to be addressed by the ASIA/PAC MET/H TF includes:</p> <ul style="list-style-type: none"> • Review procedures for the issuance of meteorological advisories and warnings in the region and propose actions for their improvement to related performance objectives; • In conjunction with ROBEX WG, investigate the deficiencies in the format and dissemination of meteorological advisories and warnings and propose remediation plans; • Respond to the needs of the States for guidance and/or training related to the implementation of meteorological advisories and warnings-and inform ROBEX WG of changes required to the SIGMET guide; • In conjunction with MET/R TF and in support of the ASBUs, provide meteorological input for operational planning for specific phenomenon including Volcanic Ash, Radioactive Cloud, Tropical Cyclone, Tsunami and Space Weather; • Follow the developments in the States related to the improvement of meteorological advisories and warnings and provide regional input on these matters to relevant ICAO and WMO groups and to gather user requirements from ANSPs, IATA, IFATCA and IFALPA; • Investigate options for removal of SIGMET deficiencies in APAC States; • Provide support for the APAC Volcanic Ash Exercises; • Report on its work to the MET Sub-group of APANPIRG; and • Maintain a link to the Regional ATM Contingency Plan Task Force (RACP/TF).

3. COMMUNICATION STRATEGIES				
Description	Target Audience	Delivery Method	Frequency/ Date	Responsibility
Work Plan	Task Force Members	Document via email and posted on ICAO Bangkok website	As required but reviewed at least quarterly	Chair
General correspondence	Task Force Members	Email	As required	Task Force Members
Task Force Meeting	Task Team Members	Meeting in conjunction with ROBEX WG	Yearly in March	Chair
Status& Milestone Reports	ICAO Secretariat and Task Team Members	Report via email	Quarterly	Chair

Task Force Report	MET/H TF and ROBEX WG	Working Paper	Yearly	Chair
Task Force Report	MET SG	Working Paper	Yearly	Secretariat

4. PERFORMANCE FRAMEWORK FORM (PFF)				
Tasks	Time Frame	Responsibility	Status	Milestone
Task 1: Monitor and provide assistance to 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	2014-2019	MET/H TF	In progress	1
Task 2: 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	2014-2018	MET/H TF and ROBEX WG	In progress	1,2
Task 3: Review WC, WV & WS SIGMET test results and implement improvements.	2014-2018	MET/H TF	In progress	1
Task 4: Provide guidance and/or training related to the implementation of meteorological advisories and warnings, including input to the Regional SIGMET Guide as they relate to the Annex 3 amendment cycle.	2014, 2016	R/O, MET/H TF and ROBEX WG	In progress	1,3
Task 5: Provide input into regional-operational plans as required for specific phenomenon, including VA, radioactive cloud, TC, Tsunami and Space Weather, with consideration to global ICAO groups and WMO developments.	2014-2018	MET/H TF and MET/R TF	In progress	3
Task 6: Investigate, and implement as appropriate, options to assist States in resolving SIGMET deficiencies.	2014-2016	MET/H TF		

5. MILESTONES			
Milestone	Accountability	Dates	Status
<i>Milestone 1: Report on SIGMET test results and regional performance-MET SG</i>	<i>Chair</i>	<i>Annually</i>	
<i>Milestone 2: Guidance and educational material available</i>	<i>Chair</i>	<i>Mar 2015</i>	
<i>Milestone 3: MET input provided for ASIA/PAC Regional ATM Contingency Plans</i>	<i>ad-hoc group</i>	<i>Next meeting</i>	
<i>Milestone 4: Reduction in SIGMET deficiencies.</i>	<i>States</i>	<i>2015</i>	

6. WORK PLAN				
Task / Milestone	Accountability	Predecessors	Date	Status
Activity 1: SIGMET TESTS				
Task 1.1: Review SIGMET tests (conjoint session with ROBEX WG)	Chair	-	Annually	
Task 1.2: Develop action plan to fix identified deficiencies	Chair in conjunction with the Task Force	conjoint session with ROBEX WG	During meeting	
Task 1.3 Report back to MET SG on regional performance and action plan	Chair		Annually	
<i>Milestone 1: Report on SIGMET test results and regional performance to MET SG</i>	Chair	-	<i>Annually</i>	
Activity 2: GUIDANCE AND EDUCATIONAL MATERIAL				
Task 2.1: a) Review current SIGMET poster information b) Publish information in pamphlet form c) Review with future Annex 3 amendments	Australia, Hong Kong, China and New Zealand (Rapporteur) in conjunction with ICAO HQ and WMO	-	a) Sep 2014 b) Dec 2014 c) following Annex 3 amendments	
Task 2.2: Review radioactive cloud survey results and develop guidance for inclusion in the SIGMET Guide	China (Rapporteur), Hong Kong, China, Japan	-	Next meeting	
Task 2.3: Review tsunami survey results and develop guidance in line with proposal for Amendment 77 to Annex 3	Japan (rapporteur), Indonesia		Next meeting	
Task 2.4: Propose amendments to the SIGMET Guide template to ICAO HQ in co-ordination with EUR R/O	Australia (rapporteur), Hong Kong, China, Japan, New Zealand		Nov 2014	
Task 2.5: Consider the requirement for seminars/workshops	Task Force		Next meeting	
<i>Milestone 2: Guidance and educational material available</i>	Chair		<i>Next Meeting</i>	
Activity 3: REGIONAL CONTINGENCY PLANS				
Task 3.1: Get a list of requirements from RACP/TF	Secretariat	-	TBD	
Task 3.2: Provide information on hazardous meteorological phenomena to ATM group for inclusion in the ATM contingency plan, if required	ad-hoc group	-	Next meeting	
<i>Milestone 3: MET input provided for ASIA/PAC Regional ATM Contingency Plans</i>	<i>ad-hoc group</i>	<i>3.1-3.2</i>	<i>Next meeting</i>	
Activity 4 – SIGMET Deficiencies				
Task 4.1: Investigation options to eliminate SIGMET deficiencies.	ad hoc group New Zealand (rapporteur), Australia,		Oct 2014	

6. WORK PLAN				
Task / Milestone	Accountability	Predecessors	Date	Status
	New Zealand, China, Japan, Indonesia			
Task 4.2: Assist the ICAO Secretariat in the facilitation of discussion of viable options with relevant States.	ad hoc group	4.1	2015	
Task 4.3: Monitor the implementation of the solution/s to remove deficiencies.	ad hoc group	4.2	Ongoing	
Task 4.4: Monitor global development on the establishment of a regional advisory system for hazardous weather.	ad hoc group		Ongoing	
Task 4.5: Report progress to MET SG	Ad hoc group rapporteur	4.3	May 2015	
<i>Milestone 4: Reduction in SIGMET deficiencies.</i>	<i>States</i>		<i>2015</i>	
