



International Civil Aviation Organization

**SEVENTEENTH MEETING OF THE METEOROLOGY
SUB-GROUP (MET SG/17) OF APANPIRG**

Bangkok, Thailand, 13 – 16 May 2013

Agenda Item 7: Meteorological advisories, warnings and hazards

7.1) Review of MET/H TF/3 meeting

MET/H TASK FORCE WORKPLAN

(Presented by Michael Berechree, Chair of METH/TF)

SUMMARY

This paper presents the Meteorological Hazards Task Force work programme for the following year. It details the Terms of Reference and the activities to be undertaken by the group.

1. Introduction

1.1 The Third Meeting of the Asia and Pacific (APAC) Meteorological Hazards Task Force (MET/H TF/3) of the Meteorology Sub-group (MET SG) of the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG) was held in Bangkok, Thailand, from 13 to 15 March 2013. The meeting commenced with a conjoint session on 13 March 2013 with the Eleventh Meeting of the APAC Regional Operational Meteorological (OPMET) Bulletins Exchange Working Group (ROBEX WG/11) of the MET SG of APANPIRG.

1.2 MET/H TF was reformed from the Meteorological Advisories and Warnings Implementation Task Force (METWARN/I TF) following discussion that commenced at the group's previous meeting and was followed up at the subsequent 16th Meeting of the Communications, Navigation, Surveillance and Meteorology Sub-group (CNS/MET SG/16) of APANPIRG, held in Bangkok, Thailand, from 23 to 27 July 2012, in CNS/MET SG/16 Decision 16/34.

1.3 Mr. Michael Berechree presided over the meeting in the role as chairperson and indicated that he will not be available to chair the group at the next meeting. Mr. Pak-wai Chan was elected as chairperson of the MET/H/TF commencing at the next meeting and he assisted as co-chairperson of this meeting.

2. Discussion

2.1 The terms of reference (TOR), Work Programme and composition of the Task Force are provided in the **Appendix** to this paper.

2.2 The activities to be undertaken by the group include:

- 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.
- 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
- Review WC, WV & WS SIGMET test results and implement improvements.
- 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.
- Develop framework for contingency plans for specific phenomenon, including VA, radioactive cloud, TC and Tsunami, with consideration to global ICAO groups and WMO developments.

2.3 The attributes of the MET/H TF were last reviewed at the MET/H TF/3 meeting, in which a number of changes were made to the composition of the group:

- The outgoing member for Australia, Mr. Michael Berechree, will be replaced by Ms. Sue O'Rourke;
- The outgoing chair of MET/H/TF, Mr. Michael Berechree, will be replaced by co-chairs; and
- Mr. Pak-wai Chan was elected as one of the new co-chairs of the group.

The attributes of all MET related task forces have been standardized and can be accessed at http://www.bangkok.icao.int/apanpirg_sg.html. The standardized form contains activities to achieve milestones that may be updated by the relevant group.

3. Action by the Meeting

3.1 The meeting is invited to review and discuss the work programme of the MET/H TF contained in the Appendix to this paper.

APPENDIX

WORK PLAN
ICAO APANPIRG MET SG
METEOROLOGICAL HAZARDS TASK FORCE (MET/H TF)

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2.DESCRPTION	
Objective	Improve the quality of meteorological advisories and warnings and implement the International Airways Volcano Watch (IAVW) and International Tropical Cyclone Watch (ITCW).
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; • 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, provide meteorological input for contingency planning for specific phenomenon including Volcanic Ash, Radioactive Cloud, Tropical Cyclone and Tsunami; • 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; • 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	Co-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	2013-2016	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	2013-2016	MET/H TF and ROBEX WG	In progress	1,2

for possible assistance				
Task 3: Review WC, WV & WS SIGMET test results and implement improvements.	2013-2016	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.	2013	R/O, MET/H TF and ROBEX WG	In progress	1,3
Task 5: Develop framework for contingency plans for specific phenomenon, including VA, radioactive cloud, TC and Tsunami, with consideration to global ICAO groups and WMO developments.	2013	MET/H TF and MET/R TF	In progress	3

5. MILESTONES

Milestone	Accountability	Dates	Status
<i>Milestone 1: Report back to MET SG on regional performance and action plan</i>	<i>Chair</i>	<i>Annually</i>	
<i>Milestone 2: Review and further develop suitable educational Material</i>	<i>Chair</i>	<i>Annually</i>	
<i>Milestone 3: Develop framework for ASIA/PAC Regional (MET) Contingency Plans</i>	<i>ad-hoc group</i>	<i>Aug 2013</i>	
<i>Milestone 4: Review requirements from ASIA/PAC Regional (MET) for dissemination of Tsunami warnings</i>	<i>Chair & R/O</i>	<i>Apr 2013</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	Task Force	conjoint session with ROBEX WG	During meeting	
<i>Milestone 1: Report back to MET SG on regional</i>	Chair	-	<i>Annually</i>	

6. WORK PLAN				
Task / Milestone	Accountability	Predecessors	Date	Status
<i>performance and action plan</i>				
Activity 2: EDUCATIONAL MATERIAL				
Task 2.1: Review current SIGMET posters and education material (Future Annex 3 amendments)	Australia, Hong Kong, China and New Zealand in conjunction with METWSG or ICAO HQ	-	Following Annex 3 amendments Next meeting	
Task 2.2: Review the requirements for educational material in light of monitoring results	Task Force	-	Next meeting	
Task 2.3: Consider the requirement for seminars/workshops	Task Force	-	February 2013 Next meeting	
<i>Milestone 2: Review and further develop suitable educational material</i>	Chair		<i>July (annually)MET SG</i>	
Activity 3: REGIONAL CONTINGENCY PLANS				
Task 3.1: Report on the progress of IAVWOPSG to MET/H TF	Chair	-	Mar 2014	
Task 3.2: Considering existing VA procedures and plans in the ASIA/PAC, and in light of the issuance of the EUR/NAT, NAM/SAM contingency plans, consider the appropriateness of an ASIA/PAC contingency plan, and develop possible framework.	Task Force & ad-hoc group	-	Aug 2013	
Task 3.3 Consider existing contingency plan in APAC region (e.g., TC, radioactive cloud and Tsunami)	Task Force & ad-hoc group	-	Aug 2013	
<i>Milestone 3: Develop framework for ASIA/PAC Regional (MET) Contingency Plans</i>	<i>Rapporteur ad-hoc group</i>		<i>Aug 2013</i>	
Activity 4: TSUNAMI				
Task 4.1: Report on the progress of topic from METWSG/5 for regional applications	Chair	-	March 2014	

6. WORK PLAN				
Task / Milestone	Accountability	Predecessors	Date	Status
Task 4.2: Review outcomes from METWSG/5 in relation to the provision of Tsunami Warnings to aerodromes	Task Force	-	Mar 2014	
<i>Milestone 4: Review requirements from ASIA/PAC Regional (MET) for dissemination of Tsunami warnings</i>	<i>Chair</i>		<i>Mar 2014</i>	
