



International Civil Aviation Organization

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

Bangkok, Thailand, 13 – 16 May 2013

Agenda Item 10: MET support to ATM

10.2) MET/R TF/3 meeting and MET/ATM Seminar 2013

MET/R TF/3 MEETING AND MET/ATM SEMINAR 2013

(Presented by the Secretariat)

SUMMARY

This paper presents a discussion on convening a Third Meeting of the Meteorological Requirements Task Force (MET/R TF/3) in conjunction with a Meteorology/Air Traffic Management (MET/ATM) Seminar in 2013.

1. Introduction

1.1 In accordance with Decision 16/34 of the Sixteenth Meeting of the Communications, Navigation, Surveillance and Meteorology Sub-group (CNS/MET SG/16) held in Bangkok, Thailand, from 23 to 27 July 2012, the Meteorological Requirements Task Force (MET/R TF) was reformed from the Meteorology/Air Traffic Management Task Force (MET/ATM TF). The attributes of the reformed MET/R TF were carried over from the former MET/ATM TF.

2. Discussion

2.1 The meeting is reminded that the MET/R TF has not met since the Decision 16/34 was adopted by CNS/MET SG/16 in 2012 and, prior to that, the last time the group met was at the Second Meeting of the MET/ATM TF (MET/ATM TF/2), which was held in conjunction with the MET/ATM Seminar in Fukuoka, Japan, from 24 to 28 January 2011. Note that the First Meeting of the MET/ATM TF (MET/ATM TF/1) was held in Bangkok, Thailand, from 2 to 4 December 2009.

2.2 The meeting may also recall that MET/ATM TF/2 (January 2011) decided the next MET/ATM TF meeting (i.e., MET/R TF/3) could address implementation issues related to Amendment 76 to Annex 3 and could be held in conjunction with another forum. The time frame of 12-24 months was suggested, but later suggestions included allowing more time for States to develop issues of significance to present at the next event.

2.3 With consideration to the timing of the next MET/ATM event in the Asia/Pacific Region, CNS/MET SG/16 agreed the MET/R TF/3 could be held in conjunction with a MET/ATM Seminar and proposed the week from 1 to 5 April 2013, in Bangkok, Thailand. However subsequent conflicts arose with other related meetings, which eventually made the first half of the 2013 meeting year unviable for the proposed MET/ATM event.

2.4 The meeting will note that, given more than 27 months have now lapsed since the MET/ATM TF/2 and Seminar, it would be desirable to convene the MET/R TF/3 in conjunction with a MET/ATM Seminar during this 2013 meeting year.

2.5 The Regional Office, Bangkok, is able to host the event; and the week of 26 to 30 August 2013 is suggested for further consideration by the group, as this would allow States time for necessary preparations, it would avoid conflicts with other related meetings and facilitate attendance by participants travelling to Bangkok for the Eighth Meeting of the World Area Forecast System Operations Group (WAFSOPSG/8) from 2 to 5 September 2013.

2.6 On the other hand, the meeting may also wish to consider the opportunity for positive exposure of a State's developments in MET/ATM collaboration, which would be attributable, if the next MET/ATM event was decided to be hosted by a State.

2.7 The meeting will note the attributes of the MET/R TF, including the composition, description, communication strategies, performance framework, milestones and work plan, are provided in the **Appendix** to this paper. The meeting will also recall that when the MET/R TF was reformed in CNS/MET SG/16, emphasis was placed on the requirement (for the MET/R TF) to facilitate the integration of meteorological information into decision support tools for ATM and flight operations and to establish detailed user requirements concerning optimal volcanic ash information to support ATM and flight operations.

3. Action by the Meeting

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) decide on the timing and venue for the MET/R TF/3 and MET/ATM Seminar;
and
- c) discuss any relevant matters as appropriate.

Appendix

ICAO APANPIRG CNS/MET
Meteorology and Air Traffic Management Meteorological Requirements
TASK FORCE (MET/ATM TF MET/R TF)

1. TASK TEAM (requires updating by the task force)		
Secretariat	Address	Contact
Kyotaro Harano Shane Sumner RO ATM	Regional Officer MET International Civil Aviation Organization 252/1, Vibhavadee Road Ladyao, Chatuchak Bangkok 10900 Thailand	Ph: +66 (2) 537-8189 Ext. 159 Fax: +66 (2) 537-8199 Em: kharano@bangkok.icao.int ssummer@icao.int
Christopher F. Keohan Peter Dunda RO MET		Ph: +66 (2) 537-8189 Ext. 153 Fax: +66 (2) 537-8199 Em: ckeohan@bangkok.icao.int pdunda@icao.int
Chair	Address	Contact
Mr. Peter Dunda AUSTRALIA	Manager Major Airport Weather Services Sydney Airport Meteorological Unit Bureau of Meteorology c/-Airservices Australia ATS P.O. Box 211, Mascot NSW 1460 Australia	Ph: +61 (2) 9556 6644 Mbl: +61 (4) 2291 7963 Fax: +61 (2) 9556 6732 Em: P.Dunda@bom.gov.au srat@bom.gov.au cc: srav@bom.gov.au
Members	Address	Contact
Ms. Zou Juan CHINA	Engineer MET Division Air Traffic Management Bureau, CAAC No. 12, East San-huan Road Middle Chaoyang District, Beijing 100022 China	Ph: +86 (10) 8778 6828 Fax: +86 (10) 8778 6820 Em: zoujuan@atmb.net.cn juan_zou@yahoo.com
Ms. Sandy Man- kuen SONG HONG KONG CHINA	Senior Scientific Officer (Airport Meteorological Office) Hong Kong Observatory 134A, Nathan Road Tsim Sha Tsui Hong Kong	Ph: +852 2926 8431 Fax: +852 2375 2645 Em: mksong@hko.gov.hk
Mr. Jun Ryuzaki JAPAN	Scientific Officer/Aeronautical Meteorology Division 1-3-4 Otemachi, Chiyoda-ku Tokyo 100-8122 Japan	Ph: +81 (3) 3212 8341 ext. 2285 Fax: +81 (3) 3212 8968 Em: jryuzaki@met.kishou.go.jp
Mr. Peter Lechner NEW ZEALAND	Head of Business Planning & Reporting/Manager Meteorological Authority Civil Aviation Authority of New Zealand P.O. Box 31 441 Lower Hutt New Zealand 5040	Ph: +64 (4) 560 9593 Mbl: +64 27 523 6186 Fax: +64 (4) 569 2024 Em: peter.lechner@caa.govt.nz

Mr. Keith Mackersy NEW ZEALAND	Technical Consultant, Meteorology Civil Aviation Authority of New Zealand P.O. Box 31 441 Lower Hutt New Zealand 5040	Ph: +64 (4) 560 9400 Mbl: +64 21 655 921 Fax: +64 (4) 569 2024 Em: keith.mackersy@caa.govt.nz
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SINGAPORE		
RUSSIAN FEDERATION		
Mr. Steven Albersheim UNITED STATES	Federal Aviation Administration Senior Meteorologist, Programme Lead International FAA Headquarters 800 Independence Ave, S.W. Washington, D.C. 20591 United States	Ph: +1 (202) 385 7185 Fax: +1 (202) 385 7240 Em: steven.albersheim@faa.gov

2. DESCRIPTION (requires updating by the task force)	
Objective	Improve efficiency of ATM and airlines by providing tailored regional MET products needed to optimize flight routes in all weather conditions
Benefits	Increase efficiency – save time and fuel as well as reduce carbon emissions
Terms of Reference	Under guidance from ICAO Secretariat: <ol style="list-style-type: none"> a) Evaluate the current and future requirements for MET in support of ATM (includes ATFM) in the ASIA/PAC Region and update Regional Air Navigation Plan accordingly and provide guidance material to assist States to develop MET services to meet these requirements; b) Assess aviation meteorological services, systems and architecture in the region and how they can integrate weather information into decision support tools; c) Investigate sub-regional exchange of MET information and associated agreements that facilitate ATM operations particularly over busy routes that overlap different FIRs; d) Promote coordination between MET and ATM communities in the ASIA/PAC Region to enhance the level of understanding of MET requirements and capabilities in support of ATM; e) To study the successful involvement of MET in the development of CDM in other regions with a view to future application in ASIA/PAC f) Monitor global policy associated with source data and delivery of MET products for ATM; g) Coordinate with METWARN/I TF on framework for contingency plan for specific phenomenon including volcanic ash, radioactive cloud, tropical cyclone and Tsunami with reference to developments made by the global ICAO groups and WMO developments; h) Report to the CNS/MET Sub-group of APANPIRG for further co-ordination through the ICAO Secretariat with other relevant bodies (ATM/AIS/SAR Sub-group).
Work Program	See section 6

3. COMMUNICATION STRATEGIES (requires updating by the task force)				
Description	Target Audience	Delivery Method	Frequency / Date	Responsibility
Work Plan	Task Force Members	Document via email	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	As required, supplemented by teleconference	Chair
Status & Milestone Reports	ICAO Secretariat and Task Team Members	Report via email	At least half-yearly	Chair
Task Force Report	CNS/MET SG	Working Paper	Yearly	Chair

4. PERFORMANCE FRAMEWORK FORM (PFF) (requires updating by the task force)				
Tasks	Time Frame	Responsibility	Status	Milestone
Task 1: Conduct MET/ATM meeting in 2009 to determine actions needed to obtain regional MET requirements to support ATM	2009	MET/ATM TF	complete	1
Task 2: Conduct survey on regional ATM requirements for MET information	2012 - 2013	MET/ATM TF	Possibly at next MET/ATM event	1
Task 3: Conduct MET seminar in coordination with WMO in 2011 to further develop list of possible regional MET requirements to support ATM	Jan 2011	MET/ATM TF	complete	1
Task 4: Assess aviation meteorological services, systems and architecture in the region and how they can integrate weather information into decision support tools	2011-2016	MET/ATM TF	In progress	2
Task 5: Investigate sub-regional exchange of MET information and associated agreements that facilitate ATM operations particularly over busy routes that overlap different FIRs	2011-2016	MET/ATM TF	In progress	3
Task 6: Facilitate implementation of Meteorological Services for the Terminal Area (under development by WMO)	2011-2016	MET/ATM TF	future	4
Task 7: Monitor global policy associated with source data and delivery of MET products for ATM	2011-2016	MET/ATM TF	future	5

5. MILESTONES (requires updating by the task force)			
Milestone	Accountability	Dates	Status
Milestone 1: Determine regional MET requirements for ATM	MET/ATM TF		To begin
Milestone 2: Develop methods to use weather information in decision support tools	MET/ATM TF		To begin
Milestone 3: Develop sub-regional exchange of MET information to facilitate ATM operations in busy routes	MET/ATM TF		To begin
Milestone 4: Develop regional implementation plan for the Meteorological Services for the Terminal Area	MET/ATM TF		future
Milestone 5: Monitor global policies associated with source data and delivery of MET products for ATM	MET/ATM TF		To begin

6. WORK PLAN (requires updating by the task force)				
Activity / Milestone	Accountability	Predecessors	Date	Status
Activity 1: Develop regional MET requirements for ATM				
Activity 1.1: Conduct MET/ATM meetings (TF meetings, Seminars) to contribute in developing MET requirements for ATM	MET/ATM TF	-	Jan 11-completed (at least every 18 months)	In progress
Activity 1.2: Analyse existing surveys (e.g. ATFM survey) and develop new surveys, when necessary, to determine regional ATM requirements for MET	MET/ATM TF	-		To begin
Activity 1.3: Recommend regional MET requirements for ATM to CNS/MET SG and AMOFSG (through direct membership) meetings	MET/ATM TF	-	Annual (AMOFSG – 18 months)	To begin
Milestone 1: Determine regional MET requirements for ATM				
Activity 2: Developing methods to use weather information in decision support tools				
Activity 2.1:	MET/ATM TF	-		To begin
Activity 2.2:		-		
Activity 2.3:		-		
Milestone 2: Develop methods to use weather information in decision support tools				
Activity 3: Developing sub-regional exchange of MET information to facilitate ATM operations				
Activity 3.1: States develop agreements on the exchange of MET information that provides benefits to ATM operations on sub-regional level	States	-		To begin
Activity 3.2: States report developments to MET/ATM TF and CNS/MET SG meetings	States/ MET/ATM TF	3.1		To begin

Milestone 3: Develop sub-regional exchange of MET information to facilitate ATM operations in busy routes				To begin
Activity 4: Developing regional implementation plan for MSTA				
Activity 4.1: Monitor developments of MSTA (pending approval at conjoint ICAO/WMO Divisional meeting 2014)	MET/ATM TF	-		In progress
Activity 4.2: Monitor Annex 3 developments (requirements for MSTA)	MET/ATM TF	4.1		future
Activity 4.3: Develop regional implementation plan for MSTA	MET/ATM TF	4.2		future
Activity 4.4: Monitor regional implementation of MSTA	MET/ATM TF	4.3		future
Activity 4.5: Report implementation progress to CNS/MET SG	MET/ATM TF	4.4		future
Milestone 4: Develop regional implementation plan for Meteorological Services for the Terminal Area				future
Activity 5: Monitoring global policies associated with source data and delivery of MET products for ATM				
Activity 5.1: monitor global policies associated with source data and delivery of MET products for ATM	MET/ATM TF	-		To begin
Activity 5.2: report results to MET/ATM TF and CNS/MET SG meetings	MET/ATM TF	5.1		future
Milestone 5: Monitor global policies associated with source data and delivery of MET products for ATM				
