



ICAO

International Civil Aviation Organization

WORKING PAPER

Twenty-fourth Meeting of the Meteorology Sub-group (MET SG/24) of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG)

Web-conference, 16 – 20 November 2020

Agenda Item 7: Future work programme of the Meteorology Sub-Group

REVIEW PLAN OF WORK

(Presented by the Secretariat)

SUMMARY

This paper presents the work plan of the Meteorology Sub Group (MET SG) for review and update by the meeting.

1. INTRODUCTION

1.1 APANPIRG established the MET SG to support it in its planning and implementation work in the field of aeronautical meteorology [Decision APANPIRG/26/65 — *Revised APANPIRG Structure, Terms of Reference and APANPIRG Sub Group Empowerment*, refers].

1.2 To optimize the assistance provided by MET SG to APANPIRG, the meeting will review the plan of work and propose updates, as necessary, for further review by APANPIRG.

2. DISCUSSION

2.1 MET SG/23 agreed to several updates to timeframes for deliverables of the MET SG and requested the Chairperson and Secretariat to realign the work plans of all the working groups as part of the coordinated review discussed earlier before submission for approval by APANPIRG/30.

2.2 A copy of the work plan of the MET SG, as approved by APANPIRG/30, is provided at the **Attachment** to this paper.

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to review the work plan of the MET SG at the **Attachment** to this paper and propose updates, as necessary, to optimize the assistance provided by MET SG to APANPIRG for further review and possible approval by APANPIRG.

**METEOROLOGY SUB-GROUP (MET SG)
TERMS OF REFERENCE AND PLAN OF WORK**

Approved by APANPIRG/30 in Decision APANPIRG/30/16: *Updated terms of reference and work plan of MET SG*

1. Objectives of the MET SG

- a) Ensure the continuous and coherent development of the MET parts of the Asia/Pacific Regional Air Navigation Plan (APAC ANP) and other relevant regional documentation in a manner that is harmonized with adjacent regions, consistent with ICAO standards and recommended practices (SARPs), the Global Air Navigation Plan and the Global Aviation Safety Plan and reflects global requirements;
- b) Facilitate the implementation of aeronautical meteorological systems and services, as identified in the APAC ANP, Aviation System Block Upgrade (ASBU) priority modules and the Asia/Pacific Seamless ATM Plan elements, with due observance to the primacy of air safety, regularity and efficiency; and
- c) Identify and address specific air navigation deficiencies in the field of aeronautical meteorological (MET) services.

2. Functions of the MET SG:

- a) Review MET parts of the APAC ANP, prepare amendment proposals as necessary to reflect updates and changes in the operational and global requirements;
- b) Monitor the level of and, as necessary, facilitate the implementation of aeronautical meteorological services to support the effective implementation of ASBU priority modules and the Asia/Pacific Seamless ATM Plan elements;
- c) Identify air navigation deficiencies in the field of aeronautical meteorology, e.g., through systems performance monitoring) and, where necessary, propose appropriate corrective action and facilitate the development and implementation of action plans by States to resolve identified deficiencies;
- d) Review and update the APANPIRG list of air navigation deficiencies in the field of aeronautical meteorology, as necessary, to reflect the current situation;
- e) Monitor research and development and trials and demonstrations in the field of aeronautical meteorology and other relevant areas and facilitate the transfer of this information and expertise, as necessary, between States;
- f) Make specific recommendations and develop guidance materials aimed at improving aeronautical meteorological services through the use of existing and/or new procedures, facilities and technologies;
- g) Review and identify inter-regional and intra-regional co-ordination issues in the field of aeronautical meteorology and, as necessary, recommend actions to address those issues; and
- h) Identify and progress environmental initiatives related to aeronautical meteorology.

3. Establishment of the MET SG

3.1. The Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) established the MET SG to assist in its planning and implementation work, charging MET SG with preparatory work on specifically defined problems in the field of aeronautical meteorology requiring expert advice for their resolution. APANPIRG also appointed MET SG as the 'parent' group for other contributory bodies working in the field of aeronautical meteorology for APANPIRG.

4. Membership of the MET SG

4.1. Membership of the MET SG comprises experts provided by States, whether Members or not of the APANPIRG, International Organizations and bodies having experience in the provision of aeronautical meteorological information and services.

5. Chairing and Secretary of the MET SG

5.1. The MET SG shall elect a Chairperson, and Vice-Chairperson if needed, from the experts provided by States. The maximum term of the Chairperson and Vice Chairperson is four years. The Secretary of APANPIRG will appoint the Secretary of the MET SG.

6. Meetings of the MET SG

6.1. The Chairperson of the MET SG, in consultation with Members and the Secretary, shall decide the date and duration of Meetings. As a rule, the MET SG should agree, at each Meeting, on the date and duration of the next Meeting and on a tentative schedule of future Meetings.

7. Documentation and Record of Meetings of the MET SG

7.1. The MET SG shall record the proceedings of its Meetings in the form of a Report or a Summary and submit the Report or Summary for review and consideration by APANPIRG. A Meeting Report should cover completed action on any part of the MET SG work plan and outline the needs of MET SG for further directives or guidance from the APANPIRG to proceed in its work. Reports on Meetings shall be of a simple layout and as concise as practicable and should normally cover:

- a) Short introduction;
- b) Summary of findings (presented in the order of discussion of the agenda items, including any proposals for action); and
- c) Work plan and schedule for future Meetings.

7.2. The Secretary should publish the Report as early as practicable (21-days) after the Meeting.

7.3. Contributors should submit papers to the ICAO Secretariat as early as practicable (28-days) before the Meeting at which they are intended to be considered. The Secretary should publish papers as early as practicable (14-days) before the Meeting at which they are intended to be considered.

7.4. The Secretary, in consultation with the Chairperson, may decide to accept papers submitted less than 28-days before the Meeting at which they are intended to be considered when there is a clear benefit to the Meeting in doing so.

8. Delegated authority of the MET SG

8.1. The MET SG may propose actions for further consideration by APANPIRG and record these in the MET SG Report as either draft Conclusions or draft Decisions of APANPIRG.

8.2. Additionally, APANPIRG has empowered MET SG to adopt proposals for action on technical matters (especially those concerning guidance to States in the implementation of ICAO SARPs and global and regional plans) that do not have additional economic, environmental, inter-regional or political effects, which should be considered by APANPIRG. The MET SG shall record these in its Meeting Report as Conclusions or Decisions of MET SG.

9. Work Plan of the MET SG

Function	Detailed description of deliverable	Responsibility	Target date
a)	Draft amendment proposal for APAC ANP to fulfil missing data in Tables MET	MET/S WG	Mar 2020
a)	Draft amendment proposal for APAC ANP to clarify the MET-related implementation planning guidance in the ANRF and other parts of Volume III	MET/IE WG MET/S WG MET/R WG	Mar 2020
b), c)	Analysis of APAC Regional SIGMET test	MET/S WG (Task 1 and 3) MET/IE WG (Task 3)	Mar 2020
b), c)	Analysis of APAC Regional OPMET-availability monitoring exercise	MET/IE WG (Task 1)	Mar 2020
b), c)	Analysis of APAC Regional OPMET-timeliness, -compliance and -regularity monitoring exercises	MET/IE WG (Task 2)	Mar 2020
b), g)	Analysis of APAC Regional VAAC backup tests	MET/IE WG (Task 4)	Mar 2020
b), g)	Analysis of APAC Regional IROG backup tests	MET/IE WG (Task 5)	Mar 2020
b)	Revised draft regional guidance material on MET information needed to support the elements of the APAC Seamless ATM Plan	MET/R WG (Task 3)	Mar 2020
c)	Analysis of APAC Regional SIGMET monitoring exercises	MET/S WG (Task 1)	Mar 2020
b), c), g)	Final report on ICAO volcanic ash exercise APAC VOLCEX 18/01 (Papua New Guinea)	APAC VOLCEX/SG (Task 5)	TBD
b), c), g)	Final report on ICAO volcanic ash exercise APAC VOLCEX 18/02 (Indonesia/Sumatra)	APAC VOLCEX/SG (Task 6)	COMPLETED
b), c), g)	Final report on ICAO volcanic ash exercise APAC VOLCEX 19/01 (Raoul Island, affecting Fiji's area of responsibility)	APAC VOLCEX/SG (Task 7)	COMPLETED
b), c), g)	Final report on ICAO volcanic ash exercise APAC VOLCEX 20/01 (North-east Asia)	APAC VOLCEX/SG (Task 8)	Jun 2020
b), c), g)	Final report on ICAO volcanic ash exercise APAC VOLCEX 19/02 (Philippines)	APAC VOLCEX/SG (Task 9)	Jun 2020
c), d)	Proposal to update the APANPIRG AN deficiencies database to add/remove deficiencies in the MET field	MET SG Chair, Secretariat	Aug 2019

Function	Detailed description of deliverable	Responsibility	Target date
c), d)	Reporting form updates showing the status of implementation of corrective action for the resolution of AN Deficiencies in the MET field	MET/S WG (Task 2 and 6)	Mar 2020
e), f), g)	First draft of input to the Regional SIGMET Guide to assist States in aligning cross-FIR-boundary SIGMET information	MET/R WG (Task 1) MET/S WG (Task 4)	COMPLETED
f)	First draft of input to the Regional SIGMET Guide on the use of objective criteria supporting the issuance of SIGMET information for thunderstorm	MET/S WG (Task 4)	COMPLETED
f)	Progress report on implementation and testing of IWXXM exchange	MET/IE WG (Task 5)	Jun 2020
f), g)	ROBEX Handbook updates to support improved efficiency and effectiveness of the ROBEX scheme; develop new table indicating COMM links and status	MET/IE WG (Task 6)	Mar 2020
g)	Information on ICAO provisions related to meteorological authority and quality assurance, cost recovery, competency, training and qualifications for meteorological service provision shared with States	MET SG Chair, Secretariat	Jun 2020
g)	Analysis of MET information used in the Region specifically to support ATM operations	MET/R WG (Task 2)	Jun 2020
g)	Plan for seminar on regional implementation of MET information to support ATM operations	MET/R WG (Task 5)	Jun 2020
h)	Environmental Issues Identify issues in the field of aeronautical meteorology related to environmental issues	MET SG Chair, Secretariat	Jun 2020
b), e), g)	IWXXM workshop Plan and conduct the IWXXM workshop	Secretariat, MET/IE Chair, MET SG Chair, Hong Kong China, Singapore	April/May 2020
f), g)	SIGMET Guide update Update the Regional SIGMET Guide to align with Annex 3, Amendment 79	MET/S WG (ad-hoc group)	Jun 2020
e), f), g)	SIGMET coordination activities in APAC Region Coordinate on the next steps to promote integration and expansion of SIGMET coordination activities among States/Administrations.	MET/S WG (MET/R WG)	Jun 2020
