

International Civil Aviation Organization

ICAO

WORKING PAPER**ASIA AND PACIFIC (APAC)****Twelfth Meeting of the Meteorological Requirements Working Group (MET/R WG/12)**

Bangkok, Thailand, 02 to 05 May 2023

Agenda Item 3: Review of follow-up from previous meetings**FOLLOW-UP ACTION FROM MET/R WG/11**

(Presented by the Secretariat)

SUMMARY

This paper presents the status of follow-up action on outcomes from the previous meeting of the Meteorological Requirements Working Group (MET/R WG/11) and invites the meeting to propose and endorse updates, as necessary, to the status of follow-up action recorded in the MET/R WG List of Actions.

1. INTRODUCTION

1.1 The ICAO Asia and Pacific (APAC) Office conducted the Eleventh Meeting of the Meteorological Requirements Working Group (MET/R WG/11) online from 30 May to 3 June 2022, including the 2022 ICAO APAC Webinar on Meteorology/Air Traffic Management (MET/ATM Webinar) on 30 May 2022.

1.2 Outcomes from MET/R WG/11 and the 2022 ICAO APAC MET/ATM Webinar included (1) Draft Decision for further consideration by the Meteorology Sub-Group (MET SG), four (4) Decisions related to the working arrangements of the MET/R WG and one (1) new action item for the MET/R WG List of Actions.

1.3 The meeting will review the status of follow-up action on the outcomes from MET/R WG/11 and the 2022 ICAO APAC MET/ATM Webinar, formulate additional follow-up actions as necessary, and propose and endorse updates to the MET/R WG List of Actions.

2. DISCUSSIONMET/R WG/11 – Draft Decision

2.1 MET/R WG/11 formulated the Draft Decision MET/R WG/11-02: *Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*, recommending that the MET SG approves the proposed updates to the Regional Guidance.

2.2 Draft Decision MET/R WG/11-02 was presented to and considered by the Twenty-sixth Meeting of the Meteorology Sub-group (MET SG/26), conducted online, from 1 to 5 August 2022.

2.3 Further discussion on the outcome of consideration by MET SG/26 on Draft Decision

MET/R WG/11-02 is provided separately in the MET/R WG/12 working paper, WP/03 – *FOLLOW-UP ACTION FROM MET SG/26*.

MET/R WG/11 – Decisions

2.4 The Decisions adopted by MET/R WG/11 are reproduced in **Appendix A** to this paper and listed below:

- Decision MET/R WG/11-01: *Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*
- Decision MET/R WG/11-03: *Further analysis of ICAO APAC Regional Survey on the provision of MET services to support ATM and ATFM and Follow-up Actions*
- Decision MET/R WG/11-04: *Proposed updates to the draft reference document and ToR for the ad hoc group for APAC user requirements for SWIM-based MET information services supporting ATFM*
- Decision MET/R WG/11-05: *Meteorological Information for ATFM in the Regional Framework Document for Collaborative ATFM*

2.5 Under the terms of reference, the MET/R WG adopts Decisions on matters dealing with the internal working arrangements of the MET/R WG. The status of follow-up action on the above Decisions adopted by MET/R WG/11 is indicated in **Appendix A** to this paper.

MET/R WG/11 – Action Items

2.6 The action item recorded in the Report of MET/R WG/11, along with unresolved action items from previous meetings of the MET/R WG, are detailed in the MET/R WG List of Actions in **Appendix B** to this paper.

2.7 The List of Actions indicates the status of follow-up on the action items (in the last column). Updates to the status of follow-up on the action items since the last meeting are indicated by highlighted and strike-through text. *Note: action items which the MET/R WG previously agreed are completed, superseded (by other activities), closed or redundant, are removed from the list.*

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to:

- a) Review the MET/R WG/11 Decisions and follow-up action (as indicated in **Appendix A** to this paper);
- b) Review the MET/R WG List of Actions, including the status of follow-up on the action items (as indicated in **Appendix B** to this paper);
- c) Propose further updates, as necessary, to the MET/R WG List of Actions; and
- d) Endorse the proposed updates to the MET/R WG List of Actions.

APPENDIX A

Decisions adopted by MET/R WG/11 (with the status of follow-up action annotated)

Decision MET/R WG/11/01: *Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*

That,

a) the ad hoc group finalise updates to the *Guidance* for possible approval by MET SG/26, including the modifications described in Appendix A of the WP/05 and paragraph 2.5 of the WP/06, and expansion of the maximum number of pages for each State’s example in Appendix 1 of the *Guidance* to five, to allow States to include their experience on the post-operational analysis; and

b) the MET/R WG members are invited to provide the ICAO RO MET, by 30 November 2022, their State’s example on post-operational analysis and their suggestions regarding the amendment to the *Guidance* to enhance the post-operational analysis framework in the *Guidance*.

Status of follow-up action:

- The ad hoc group presented proposed updates to the *Asia/Pacific Regional Guidance for Tailored Meteorological Information and Services to Support Air Traffic Management Operations*, including the enhancements discussed at MET/R WG/11 concerning the post-operational analysis of the impact of tailored meteorological information in the ATM decision process, in WP/10 at MET SG/26.

Decision MET/R/11/03: *Further analysis of ICAO APAC Regional Survey on the provision of MET services to support ATM and ATFM and Follow-up Actions*

That, the established ad-hoc group with subject matter experts from MET/R WG undertake further analysis of the ICAO APAC Regional Survey on the provision of MET services to support ATM and ATFM and prepare a report identifying follow-up actions for further consideration by MET SG and ATM SG.

Why: To facilitate a coordinated approach to the further development of MET services in the Asia/Pacific Region and promote the results among other related Working Groups

Status of follow-up action:

- The ad hoc group will present a report on its further analysis of the Survey results and recommendations in a WP at MET/R WG/12.

Decision MET/R WG/11/04: *Proposed updates to the draft reference document and ToR for the ad hoc group for APAC user requirements for SWIM-based MET information services supporting ATFM*

Endorse the proposed updates to the draft reference document and ToR for the ad hoc group

Status of follow-up action:

- ATFM/SG/13 () was informed that the ad hoc group would consult ATFM experts to understand better the APAC ATFM operations and supplement the use cases with detailed information.
- ATFM/SG/13 agreed to an action item on contributing to the MET/R WG on further refining SWIM-based MET information service scenarios and developing other scenarios.

Decision MET/R WG/11/05: *Meteorological Information for ATFM in the Regional Framework Document for Collaborative ATFM*

That, the MET/R WG Members are invited to review the Meteorological Information for ATFM (paragraphs 5.59-5.67) in the *Asia Pacific Regional Framework for Collaborative ATFM* document and provide inputs of the latest examples to the ICAO Secretariat and the task coordinators by 17 June 2022.

Status of follow-up action:

- ATFM/SG/12 (13 – 16 September 2022) thanked the MET/R WG for its support in updating the Regional Framework for Collaborative ATFM.
- The updated APAC Regional Framework for Collaborative Air Traffic Flow Management, Version 4.0, October 2022, was adopted and made available on the ICAO APAC Office web site (Draft Conclusion ATFM/SG/12-1 and Conclusion ATM/SG/10-4 refer)

APPENDIX B

MET/R WG – LIST OF ACTIONS

(Note: Proposed updates are indicated with ~~strikethrough~~ and **highlighted** text)

New action items recorded by MET/R WG/11

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/ REMARKS
MET/R WG/11 01	Propose further updates to the (MET/R WG work plan) Deliverable No. 2 and Deliverable No. 5 timeframe, responsibility, and requirements details. [Ref: MET/R WG/11 Report, 5.2.] - Deliverable 2: <i>Draft regional guidance material on MET information needed to support the elements of the APAC Seamless ANS Plan</i> - Deliverable 5: <i>A coordinated review of the APAC ANP Volume III, including proposals for improvements to the ANRF and other parts of Volume III, to clarify the MET-related implementation planning guidance</i>	MET/R WG/12	Chair and Secretariat	To begin In progress

Unresolved action items recorded by MET/R WG/09

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/ REMARKS
MET/R WG/09 01	Publicise the SIGMET Guide and, in particular, the guidance indicating the importance of exchanging special air-reports between airlines, ATS units and MWOs (and aerodrome meteorological offices (AMOs)) in support of improved SIGMET service and flight safety, by way of ICAO State letter (and/or other channels) with distribution to pilots and ATS units supported by States and relevant s organisations, as appropriate [include reference to the ICAO APAC Webinar on <i>Special Air-Reports needed by MET to Support Flight Safety</i> , conducted on 17 June 2021]	July 2020 Ongoing	Secretary and MET/R WG members	In progress
