

*International Civil Aviation Organization*

ICAO

**WORKING PAPER****ASIA AND PACIFIC (APAC)  
Twenty-first Meeting of the Meteorological Information  
Exchange Working Group (MET/IE WG/21)**

Bangkok, Thailand, 27 to 29 March 2023

**Agenda Item 2: Review of follow-up from previous meetings****FOLLOW-UP ACTION FROM MET SG/26**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the status of follow-up action on outcomes from the Twenty-sixth Meeting of the Meteorology Sub-group (MET SG/26) and invites the meeting to consider further actions for MET/IE WG, as necessary, to support the follow-up action on the MET SG/26 outcomes.

**1. INTRODUCTION**

1.1 Outcomes from the Twenty-sixth Meeting of the Meteorology Sub-group (MET SG/26), held online from 1 to 5 August 2022, included two (2) Draft Conclusions for further consideration by the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG), and one (1) Conclusions and two (2) Decisions dealing with matters under the MET SG's terms of reference. In addition, MET SG/26 recorded nine (9) new action items in the MET SG List of Actions.

1.2 The meeting will review the status of follow-up action on the outcomes from MET SG/26, and consider further actions for the MET/IE WG, as necessary, to support the follow-up action on the outcomes from MET SG/26.

**2. DISCUSSION**MET SG/26 – Draft Conclusions

2.1 The Draft Conclusions formulated by MET SG/26 are listed below:

- Draft Conclusion MET SG/26/03 – *WAFS, SADIS and WIFS upgrades*
- Draft Conclusion MET SG/26/04 – *0.25-degree WAFS hazard data*

2.2 Under the terms of reference, MET SG formulates Draft Conclusions and Draft Decisions on matters that will not be dealt with by the MET SG, but will be forwarded for further consideration by APANPIRG. The Draft Conclusions formulated by MET SG/26 were further considered by the

Thirty-third Meeting of APANPIRG (APANPIRG/33), held in Bali, Indonesia from 22 to 24 November 2022. Discussion on the APANPIRG/33 outcomes on the above Draft Conclusions is provided separately in the MET/IE WG/13 working paper, WP/04 – *FOLLOW-UP ACTION FROM APANPIRG/33*.

MET SG/26 – Conclusion and Decisions

2.3 The Conclusion and Decisions adopted by MET SG/26 are reproduced in **Appendix A** to this paper and listed below:

- Decision MET SG/26/01 – *Updates to Regional SIGMET Guide*;
- Decision MET SG/26/02 – *Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*; and
- Conclusion MET SG/26/05 – *Encourage States to provide input on the online repository on SIGMET Coordination and the consolidation document on SIGMET Coordination Practices in the APAC region*.

2.4 Under the terms of reference, MET SG adopts Conclusions and Decisions on matters that require the attention of States or action by the ICAO or relate to the internal working arrangements of the MET SG. The status of follow-up action on the above Conclusion and Decisions adopted by MET SG/26 is indicated in **Appendix A** to this paper.

MET SG/26 – List of Actions

2.5 The action items recorded in the Report of MET SG/26, Appendix C, List of Actions, are reproduced in **Appendix B** to this paper.

2.6 The List of Actions at **Appendix B** 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 publishing of the Report of MET SG/26 are indicated by highlighted and strike-through text. *Note: action items which the MET SG 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 status of follow-up action related to the MET SG/26 Conclusions and Decisions (as indicated at the **Appendix A** to this paper);
- b) Review the status of follow-up action on the MET SG/26 List of Actions (as indicated at the **Appendix B** to this paper); and
- c) Consider further actions for the MET/IE WG, as necessary, to support the follow-up action from MET SG/26.

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**APPENDIX A**

**MET SG/26 – Conclusion and Decisions**

<b>Conclusion MET SG/26/05 – Encourage States to provide input on the online repository on SIGMET Coordination and the consolidation document on SIGMET Coordination Practices in the APAC region</b>		
What: a) States be invited to provide updates to the online repository on SIGMET Coordination and supplement its local SIGMET issuance practices to the consolidation document on SIGMET Coordination practices in the APAC region (using the contact details provided in the documents); and b) The ICAO Asia/Pacific Regional Office will notify the States/Administrations of the availability and location of the above documents and invite States’ inputs to the consolidation document by issuing a State Letter.	That,	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To enhance the SIGMET coordination in the Region by gathering lessons learnt from existing SIGMET coordination activities to facilitate more efficient and better coordinated SIGMET service to meet aviation users’ expectations and operational requirements in the Region.		Follow-up: <input type="checkbox"/> Required from States
When: Now		Status: Adopted by Subgroup
Who: <input type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: ROs		

- **Status of follow-up action** related to Conclusion MET SG/26/05:
  - Online repository for APAC SIGMET Coordination activities published on the ICAO APAC website at: <https://www.icao.int/APAC/Pages/eDocs.aspx>

<b>Decision MET SG/26/01 – Updates to Regional SIGMET Guide</b>		
What: That, the MET SG approves the updates to the SIGMET Guide as presented in Appendix A of WP/09 for use by States and publishing on the ICAO APAC Office website.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-Regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: to make the latest updates to the SIGMET Guide available for use by the States		Follow-up: <input type="checkbox"/> Required from States
When: Now		Status: Adopted by MET SG
Who: <input type="checkbox"/> Sub Groups <input type="checkbox"/> RASG-APAC <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:		

- **Status of follow-up action** related to Decision MET SG/26/01:
  - APAC Regional SIGMET Guide, Tenth Edition — October 2022, published on the ICAO APAC website at: <https://www.icao.int/APAC/Pages/eDocs.aspx>

<b>Decision MET SG/26/02 – Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations</b>
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<p>What: That, the MET SG approves the proposed updates to the <i>Asia/Pacific Regional Guidance for Tailored Meteorological Information and Services to Support Air Traffic Management Operations</i>.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: To provide States with up-to-date guidance material and make the updated version available on the ICAO APAC eDocuments website</p>	<p>Follow-up: <input type="checkbox"/> Required from States</p>
<p>When: As soon as practicable</p>	<p>Status: Adopted by Subgroup</p>
<p>Who: <input type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:</p>	

- **Status of follow-up action** related to Decision MET SG/26/02:
  - APAC Regional Guidance for Tailored Meteorological Information and Services to support Air Traffic Management Operations, Third Edition — August 2022, published on the ICAO APAC website at: <https://www.icao.int/APAC/Pages/eDocs.aspx>

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## APPENDIX B

## MET SG – LIST OF ACTIONS

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

## New action items recorded by MET SG/26

MET SG – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
26/01	<b>MET Deficiencies template and guidance documents:</b> Finalise and publish the <i>MET Deficiencies template and guidance</i> documents (from Appendix F of the Report of MET SG/25) as stand-alone documents on the ICAO APAC Office “eDocuments” webpage. [Ref: Report of MET SG/26, para. 2.4.]	Secretariat and ad hoc group on MET deficiencies	Nov 2022	<b>IN PROGRESS</b>
26/02	<b>Papers for MET/S WG on QMS:</b> Request papers for future meetings of the MET/S WG on issues concerning the implementation and monitoring the implementation of QMS in the Region. [Ref: Report of MET SG/26, para. 2.18.]	Secretariat and Chair of MET/S WG	Dec 2022	<b>IN PROGRESS</b>
26/03	<b>Paper for CNS SG/26 on Draft Decision SWIM TF/06/01:</b> Submit a paper to CNS SG/26 highlighting that the MET SG/26 noted the importance of CNS SG/26 adopting the proposal in Draft Decision SWIM TF/06/01. [Ref: Report of MET SG/26, para. 2.31.]	Secretariat	Aug 2022	<b>COMPLETED</b> CNS SG/26 – WP/34
26/04	<b>APANPIRG AN Deficiencies – requirements for WAFS forecasts:</b> Provide technical assistance to help the States concerned understand and determine the requirements for WAFS forecasts. [Ref: Report of MET SG/26, para. 3.2.]	Secretariat	Nov 2022	<b>IN PROGRESS</b>
26/05	<b>Location indicator for FIR Port Moresby in the SIGMET Guide:</b> Include the correct location indicator for FIR Port Moresby (as previously identified in Action No. 25/07) in the approved ICAO APAC Regional SIGMET Guide, Tenth Edition. [Ref: Report of MET SG/26, para. 4.5.]	Secretariat	Nov 2022	<b>IN PROGRESS</b>
26/06	<b>ROBEX Handbook amendments for the regular exchange of OPMET bulletins to ROC Beijing:</b> (a) Amend the ICAO APAC ROBEX Handbook as discussed in the Report of MET SG/26, para. 4.11.; (b) Assist China with consulting with India concerning India’s agreement to regular exchange of OPMET bulletins to ROC Beijing; and (c) Subject to India’s agreement, Amend the ROBEX Handbook as discussed in the Report of MET SG/26, para. 4.12. [Ref: Report of MET SG/26, para. 4.13.]	Secretariat	Nov 2022	<b>IN PROGRESS</b>
26/07	<b>APAC ANP, Volume III amendment – examples from other ICAO Regions:</b> Consider examples of Volume III adopted by other ICAO Regions in the MET work plan on a proposal for amendment of MET-specific material in the APAC ANP, Volume III. [Ref: Report of MET SG/26, para. 5.8.]	Secretariat and MET/R WG	Nov 2022	<b>TO COMMENCE</b>
26/08	<b>APAC ANP, Volume II amendment – Nepal:</b> Initiate an appropriate proposal for amendment of the ANP Volume II, to reflect the requirements for aerodrome meteorological offices in Nepal. [Ref: Report of MET SG/26, para. 5.9.]	Secretariat and Nepal	Nov 2022	<b>IN PROGRESS</b>
26/09	<b>Outdated WAFS Service Document:</b>	Secretariat	Nov 2022	<b>COMPLETED</b> 16/09/2022

## MET SG – LIST OF ACTIONS

Action No.	Detailed description of actions	Responsibility	Target date	Status
	Remove the WAFS Service Document, which dated back to 2012, from the ICAO APAC Office eDocuments webpage. [Ref: Report of MET SG/26, para. 8.3.]			

## Unresolved action items recorded by MET SG/25

## MET SG – LIST OF ACTIONS

Action No.	Detailed description of actions	Responsibility	Target date	Status
25/04	<b>Revise the Work Plan of MET/R</b> to take the lead in developing the proposed amendment to ANP Volume III in coordination with MET/IE and MET/S [Ref: para. 2.5.]	Secretariat and MET/R WG	Nov 2021	<b>TO COMMENCE</b>
25/05	<b>Reach out to States concerned with air navigation deficiencies</b> to identify and record target dates for resolving their respective air navigation deficiencies [Ref: para. 4.3.]	Secretariat	Nov 2021	<b>IN PROGRESS</b>
25/06	<b>Finalise the proposals for amendment of the APAC ANP (Vol I and II) and ROBEX Handbook</b> as agreed in previous meetings to ensure accuracy of the requirements specifications against which the OPMET monitoring is analysed [Ref: para. 4.6.-4.7.]	Secretariat	Nov 2021	<b>IN PROGRESS</b>
25/07	<b>Finalise a proposal for amendment of the APAC ANP (Table MET II-1) and consequential amendment to the APAC Regional SIGMET Guide</b> as necessary to ensure the correct use of FIR indicator for Port Moresby [Ref: para. 4.12.-4.14.]	Secretariat	Nov 2021	<b>IN PROGRESS</b> ANP amendment pending; SIGMET Guide amended, 9 <sup>th</sup> Ed.
25/09	<b>Review SIGMET Guide</b> as necessary to guide MWOs to handle cases when VAAC would not hand over to the neighbouring VAAC even if the ash cloud is expected to cross the AoR [Ref: para. 4.12.-4.14.]	MET/S	Mar 2023	<b>TO COMMENCE</b>
25/10	<b>Assist the Solomon Islands in aligning procedures with ICAO Annex 3, conducting SIGMET monitoring by RODBs and follow-up SIGMET tests</b> to demonstrate ICAO-compliant content, format and timeliness of SIGMET information service and its sustainability [Ref: para. 4.15.-4.18.]	Solomon Islands, Secretariat, Australia and New Zealand	Feb 2022	<b>IN PROGRESS</b> Ref: MET/S WG/12 IP/11
25/11	<b>Coordinate removal of AN deficiency AP-MET-23 from the open list</b> with the relevant ICAO bodies (MET/S WG, MET SG and APANPIRG) after receipt of the additional evidence and report from Solomon Islands [Ref: para. 4.19.]	Secretariat	Mar 2022	<b>TO COMMENCE</b>
25/12	<b>Provide updates to the contact lists in the ICAO Doc 9766-AN/968 (Handbook on the International Airways Volcano Watch (IAVW))</b> to the ICAO METP [Ref: para. 5.15.]	MET SG, MET/S WG, MET/IE WG	Mar 2022	<b>TO COMMENCE</b>
25/13	<b>Coordinate possible SWX advisory exercise/s and training workshop/s</b> with the appropriate body under METP for [Ref: para. 5.28.]	Secretariat MET/S WG, MET/IE WG	Nov 2021	<b>IN PROGRESS</b> ICAO APAC webinar on space weather information service (TBD in Q3/Q4 2022); Secretariat to coordinate with Australia [MET/IE WG/20 - ACTION 01]; MET/R WG new deliverable #7 to promote user education on SWX service.

**MET SG – LIST OF ACTIONS**

<b>Action No.</b>	<b>Detailed description of actions</b>	<b>Responsibility</b>	<b>Target date</b>	<b>Status</b>
<b>25/14</b>	<b>Finalise the proposed amendment to the ROBEX Handbook, Table A, Appendix A</b> , to reflect the requirement of China for regular exchange of OPMET bulletins with Sri Lanka, Indonesia, Malaysia and India in consultation with States concerned [Ref: para. 6.1.-6.2.]	Secretariat	Nov 2021	<b>IN PROGRESS</b>

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