



ICAO

International Civil Aviation Organization

WORKING PAPER (WP/02)

ICAO Asia and Pacific (APAC)

Twenty-third Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/23)

Bangkok, Thailand, 25 to 28 March 2025

Agenda Item 2: Review of follow-up action from previous meetings

FOLLOW-UP ACTION FROM MET/IE WG/22

(Presented by the Secretariat)

SUMMARY

This paper presents the status of follow-up action on outcomes from the previous meeting of the Meteorological Information Exchange Working Group (MET/IE WG/22) and invites the meeting to propose and endorse updates, as necessary, to the status of follow-up action recorded in the MET/IE WG List of Actions.

1. INTRODUCTION

1.1 Outcomes from the Twenty-Second Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/22) in Bangkok, Thailand, from 18 to 21 March 2024, including the joint session with the Eleventh Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/11) on 20 March 2024, included two (2) Draft Conclusions for further consideration by the Meteorology Sub-group (MET SG), and seventeen (17) new action items for the MET/IE WG List of Actions.

1.2 The meeting will review the status of follow-up action on the outcomes from MET/IE WG/22, formulate additional follow-up actions as necessary, and propose and endorse updates to the MET/IE WG List of Actions.

2. DISCUSSION

MET/IE WG/22 – Draft Conclusions

2.1 The Draft Conclusions formulated by MET/IE WG/22 are listed below:

- **Draft Conclusion MET/IE WG/22-01:** Availability and Timeliness of TAC and IWXXM Meteorological Information
- **Draft Conclusion MET/IE WG/22-02:** Review of APAC Region IWXXM Implementation Status/Readiness

[Note: Draft Conclusion ACSICG/11/02 also refers;

<https://www.icao.int/APAC/Meetings/Pages/2024-ACSICG11.aspx>]

2.2 Under the terms of reference, the MET/IE WG formulates Draft Conclusions and Draft Decisions for further consideration by the MET SG. The Draft Conclusions formulated by MET/IE WG/22 were further considered by the Twenty-eighth Meeting of the Meteorology Sub-group (MET SG/28) in Bangkok, Thailand, from 8 to 12 July 2024. Discussion on the MET SG/28 outcomes on the above Draft Conclusions is provided separately in MET/IE WG/23, WP/04 – *FOLLOW-UP ACTION FROM MET SG/28*.

MET/IE WG/22 – Action Items

2.3 The action items recorded in the Report of MET/IE WG/22, along with unresolved action items from previous meetings of the MET/IE WG, are detailed in the MET/IE WG List of Actions at the **Appendix A** to this paper.

2.4 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/IE 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/IE WG List of Actions, including the status of follow-up on the action items (as indicated at the **Appendix A** to this paper);
- b) Propose further updates, as necessary, to the status of follow-up on action items in the MET/IE WG List of Actions; and
- c) Approve the proposed updates to the status of follow-up on action items in the MET/IE WG List of Actions.

MET/IE WG/23
Appendix A to WP/02

APPENDIX A

MET/IE WG – LIST OF ACTIONS

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

New action items recorded by MET/IE WG/22

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
MET/IE WG/22 01	<u>MET/IE WG meeting – agenda</u> Consider incorporating the joint session (MET/IE WG and ACSICG) in the MET/IE WG meeting agenda. [Ref: Report of MET/IE WG/22, para. 1.2.]	3 months before MET/IE WG/23	Secretariat and Chairs	COMPLETED [MET/IE WG/23 Invitation and Agenda] TO COMMENCE
MET/IE WG/22 02	<u>IROG backup exercise – IWXXM data</u> Provide an update on conducting an IROG backup exercise for IWXXM data. [Ref: Report of MET/IE WG/22, para. 2.3.]	1 month before MET/IE WG/23	Singapore and Thailand	TO COMMENCE
MET/IE WG/22 03	<u>ROBEX Handbook updates – procedure for OPMET monitoring</u> Include the procedure for obtaining the latest ROBEX data, i.e., from the Secretariat (rather than from the published ROBEX Handbook) for use as the benchmark for OPMET monitoring, in the next proposed update to the ROBEX Handbook. [Ref: Report of MET/IE WG/22, para. 2.4.]	1 month before MET SG/28	Secretariat	IN PROGRESS TO COMMENCE
MET/IE WG/22 04	<u>ROBEX Handbook updates – criteria for IWXXM monitoring</u> Develop consequential updates to the ROBEX Handbook to facilitate OPMET monitoring to identify IWXXM dissemination that does not meet availability and timeliness thresholds of ninety-five per cent (95%) and additional criteria to ensure the messages are well-formed and (where translated from TAC) properly translated. [Ref: Report of MET/IE WG/22, para. 3.4.]	1 month before MET SG/28	Ad hoc group on Performance Indicators (PIs) [Ref: MET/IE WG/21 action item 07]	TO COMMENCE
MET/IE WG/22 05	<u>METAR bulletin dissemination – resolving the issue at ROC Brisbane</u> Investigate a quick resolution to the METAR bulletin dissemination issue at ROC Brisbane (as presented in MET/IE WG/22 WP/07) and provide an update for inclusion in the MET/IE WG report to MET SG. [Ref: Report of MET/IE WG/22, para. 3.8.]	1 month before MET SG/28	Australia	COMPLETED [MET SG/28-WP/03, para 2.12] TO COMMENCE
MET/IE WG/22 06	<u>SIGMET Guide updates – SIGMET test procedures for IWXXM</u> a) Report the problem concerning the dissemination of SIGMET test messages in IWXXM form (as presented in MET/IE WG/22 WP/25) to the ad hoc group on the SIGMET Guide, and b) propose an appropriate update to the SIGMET test procedures in the SIGMET Guide to address the IWXXM test message issues. [Ref: Report of MET/IE WG/22, para. 3.42.]	a) Apr 2024, b) 1 month before MET SG/28	a) Secretariat, and b) ad hoc group on the SIGMET Guide	IN PROGRESS TO COMMENCE
MET/IE WG/22 07	<u>IWXXM dissemination – issues for non-ROBEX locations</u> Forward the MET/IE WG/22 discussion outcomes concerning the issue of disseminating METAR/SPECI in the IWXXM form for weather stations not listed in the ROBEX handbook (as presented in MET/IE WG/22 WP/15) to the MET Panel for further consideration. [Ref: Report of MET/IE WG/22, para. 4.4.]	April 2024	Secretariat and Chair	IN PROGRESS TO COMMENCE
MET/IE WG/22 09	<u>ROBEX Handbook updates – focal points</u> Review the membership of the ROBEX Handbook focal points and clarify the purpose of these contacts; propose appropriate updates to the ROBEX Handbook. [Ref: Report of MET/IE WG/22, para. 6.10.]	1 month before MET SG/28	Secretariat	IN PROGRESS TO COMMENCE
MET/IE WG/22 10	<u>ROBEX Handbook updates – VONA dissemination</u> Develop proposed updates to the ROBEX Handbook to facilitate the dissemination of VONA via the AFS, as required by the proposed amendment to Annex 3. [Ref: Report of MET/IE WG/22, para. 6.11.]	1 month before MET SG/28	Ad hoc group (NZL, AUS, JPN)	COMPLETED [MET/IE WG/23-WP/11] TO COMMENCE

MET/IE WG/23
Appendix A to WP/02

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
MET/IE WG/22 11	ROBEX Handbook updates – ROC IWXXM exchange Include the changes concerning ROC responsibilities for IWXXM exchange (as presented in MET/IE WG/22 WP/23) with the next proposed updates to the ROBEX Handbook. [Ref: Report of MET/IE WG/22, para. 6.13.]	1 month before MET SG/28	Secretariat, AUS and HKG	COMPLETED [MET SG/28-Flimsy/02, MET SG/28-ACTION 28/19, ROBEX Handbook 17 th Edition] TO COMMENCE
MET/IE WG/22 12	ROBEX Handbook updates – METNO guidance Include within the proposed changes (as presented in MET/IE WG/22 WP/24), distribution to IROG partners in other regions, further refinements on the contents regarding the METNO focal points (ensuring clear distinction to the purpose of the ROBEX focal points) and METNO message header with the next proposed updates to the ROBEX Handbook. [Ref: Report of MET/IE WG/22, para. 6.15.]	1 month before MET SG/28	HKG, NZL and AUS	COMPLETED [MET SG/28, WP/09, Decision MET SG/28-09, MET SG/28-ACTION 28/19, ROBEX Handbook 17 th Edition] TO COMMENCE
MET/IE WG/22 13	IWXXM Guidelines document – availability on ICAO APAC website Consider publishing the <i>Guidelines for the Implementation of OPMET data exchange using IWXXM</i> , Version 5, on the CNS section of the ICAO APAC Office eDocuments webpage. [Ref: Report of MET/IE WG/22, para. 8.16.]	April 2024	Secretariat	COMPLETED [https://www.icao.int/APAC/Pages/eDocs.aspx] TO COMMENCE
MET/IE WG/22 14	IWXXM distribution – guidance when primary AMHS fails Develop educational material on managing the distribution of IWXXM information when primary AMHS link failure occurs. [Ref: Report of MET/IE WG/22, para. 8.25.]	1 month before MET/IE WG/23	Ad hoc group (AUS, FJI, HKG, SGP and USA)	COMPLETED [MET/IE WG/23-WP/10, ACSICG/12-WP/10] TO COMMENCE
MET/IE WG/22 15	IWXXM operational exchange – checklist Develop a checklist of steps required to facilitate operational IWXXM exchange. [Ref: Report of MET/IE WG/22, para. 8.27.]	1 month before MET/IE WG/23	Ad hoc group (AUS, FJI, HKG and SGP)	TO COMMENCE
MET/IE WG/22 16	MET/IE WG and ACSICG joint session – duration and discussion Consider the duration of and prioritise the materials presented and discussed in the joint session (MET/IE WG and ACSICG) at future meetings. [Ref: Report of MET/IE WG/22, para. 8.33.]	3 months before MET/IE WG/23	Secretariat and Chairs	IN PROGRESS TO COMMENCE
MET/IE WG/22 17	MET/IE WG meeting – timeliness of papers Review the timeliness of availability and submission of papers at future MET/IE WG meetings [Ref: Report of MET/IE WG/22, para. 9.1.]	MET/IE WG/23	Secretariat and Chairs	IN PROGRESS TO COMMENCE

Unresolved action items recorded by MET/IE WG/21

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
MET/IE WG/21 02	The meeting requested IROGs to provide updates for each of the interregional circuits in the IWXXM online register. [Ref: MET/IE WG/21 Report, para 4.13] Ref: MET/IE WG/22, WP/13	MET SG/27	APAC IROGs	IN PROGRESS
MET/IE WG/21 12	Incorporate the changes to Table B format (as proposed by New Zealand in MET/IE WG/21, WP/12, and subject to the minor change suggested by the Meeting) in the proposal for updates to follow the publication of the ROBEX Handbook, Fifteenth Edition. [Ref: MET/IE WG/21 Report, para 6.11]	MET/IE WG/22	Secretariat	IN PROGRESS TO COMMENCE
MET/IE WG/21 16	Contact the listed members that were not in attendance at MET/IE WG/21 to confirm their membership status on the MET/IE WG [Ref: MET/IE WG/21 Report, para 7.2]	MET SG/27	Secretariat	IN PROGRESS TO COMMENCE

Unresolved action items recorded by MET/IE WG/20

MET/IE WG/23
Appendix A to WP/02

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
MET/IE WG/20 02	Coordinate the consequential amendments to the ANP (Volume II, Table MET II-2 – Aerodrome Meteorological Offices) to reflect the requirements for MET service at QUANG NINH/Van Don International Airport (ICAO location indicator VVVD). [Ref: Report of MET/IE WG/20, para. 3.5.] (a) Ref: MET SG/27, WP/14 - Review of the APAC ANP (b) Ref: ROBEX HB 15 th Ed.	Before MET SG/27	Secretariat	IN PROGRESS ANP PfA pending circulation by the Secretariat;
MET/IE WG/20 03	Provide contact details for IROG Jeddah (Saudi Arabia) and IROG Johannesburg (South Africa) to the members from Thailand to discuss their support for IWXXM and AMHS/FTBP and the timing for the testing and implementation of the inter-regional IWXXM exchange. [Ref: Report of MET/IE WG/20, para. 4.15.]	Before MET SG/27	Secretariat, in coordination with participants from Thailand	IN PROGRESS
MET/IE WG/20 10	Coordinate with Indonesia to: a) Validate the proposed updates in WP/08, which concerned aerodrome names that were not reflected in the ANP, Table AOP I-1 – <i>International Aerodromes Required in the APAC Regions</i> ; and b) Include the validated proposals in the next update of the ROBEX Handbook. [Ref: Report of MET/IE WG/20, para. 6.9.] Ref: MET SG/27, WP/14 - Review of the APAC ANP	Next ROBEX Handbook update	Secretariat, in coordination with participants from Indonesia	IN PROGRESS ANP PfA pending circulation by the Secretariat
MET/IE WG/20 12	Document the steps States should take to: a) Effect changes to the ROBEX scheme; and b) Notify States of changes to MET service. [Ref: Report of MET/IE WG/20, para. 6.15.]	Before MET SG/27	Secretariat	IN PROGRESS
MET/IE WG/20 13	Convene a quarterly meeting of the MET/IE WG (core) members to progress updates to the work plan and terms of reference, including assigning specific dates and responsibilities (incl. identifying a lead and supporting resources for activities) and merging Activities 1 and 2 in the work plan. After the Secretariat and Chairs of MET SG and WGs have prepared the integrated reporting template. [Ref: Report of MET/IE WG/20, para. 7.5.]	Before MET SG/27	Chair MET/IE WG and Secretariat	IN PROGRESS
MET/IE WG/20 15	Concerning the inclusion of MWOs not located in the APAC Region, perform a cross-check of the ICAO APAC SIGMET Test Procedures against the legacy FASID Tables MET 3A – <i>Tropical Cyclone Advisory Centres</i> and 3B – <i>Volcanic Ash Advisory Centres</i> . [Ref: Report of Conjoint Session of MET/IE WG/20 and MET/S WG/12, para. 2.17.]	Before MET SG/27	Secretariat	IN PROGRESS
MET/IE WG/20 17	Follow up with Myanmar on the appropriate addressing of letters from ICAO inviting participation in SIGMET tests. [Ref: Report of Conjoint Session of MET/IE WG/20 and MET/S WG/12, para. 2.23.]	Before MET SG/27	Secretariat, in coordination with participants from Myanmar	IN PROGRESS

Unresolved action items recorded by MET/IE WG/19

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
05	Propose updates to the ROBEX Handbook: to include information on the (KWBC) bulletins containing Pago Pago METAR and TAF [ref: para. 4.3.] Ref: MET SG/27, WP/09 - ROBEX HB UPDATES	Before MET SG/27	Secretariat	IN PROGRESS

Unresolved action items recorded by MET/IE WG/18 and MET/S WG/10

The following action items are applicable to one or both of the MET/IE WG and MET/S WG

MET/IE WG/23
Appendix A to WP/02

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
18	ROBEX Handbook and SIGMET Guide updates – Legacy FASID information: Prepare the consequential updates of the required information from the legacy FASID Tables relating to meteorology, apart from Table MET 1A, Table MET 1B and Table MET 3C, and the existing ICAO APAC regional guidance documentation, according to the proposal in WP/11 and the Draft Decision [ref: para. 4.16.]	Before MET SG/27	Secretariat	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6
19	ANP and ROBEX Handbook updates – Vietnam NOC: Coordinate on the implementation of the Vietnam NOC, including development of proposed updates to the APAC ANP [ref: para. 3.7.] Ref: MET SG/27, WP/14 - Review of the APAC ANP	Before MET SG/27	Vietnam and Thailand	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6
20	ANP and ROBEX Handbook updates – Indonesia new aerodromes: Determine any requirement (based on IP/09) to update the ICAO APAC (a) ANP and/or (b) ROBEX Handbook [ref: para. 8.27.] (a) Ref: MET SG/27, WP/14 - Review of the APAC ANP (b) Ref: MET SG/27, WP/09 - ROBEX HB UPDATES	Before MET SG/27	Secretariat and Indonesia	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6

Unresolved action items recorded by MET/IE WG/17

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
17/1	Coordinate all necessary notifications concerning the planned handover of the provision of SIGMET service valid for Phnom Penh FIR from MWO Chengdu to MWO Phnom Penh, including the following: updates to the ANP, including the legacy FASID tables, and the Regional SIGMET Guide. <i>[Report of MET/IE WG/17, para. 3.1 – 3.4, refers]</i>	Before MET SG/27	Secretariat	IN PROGRESS
17/3	Coordinate all necessary notifications concerning the planned provision by China of OPMET information for the new Beijing Daxing International Airport, from 15 August 2019, including the following: (a) updates to the ROBEX Handbook and notification to States via “METNO”; and (b) APAC ANP, including AOP and MET tables. <i>[Report of MET/IE WG/17, para. 3.6 – 3.8, refers]</i>	Before MET SG/27	China and Secretariat	IN PROGRESS
17/10	Liaise with the SADIS Provider concerning obtaining OPMET availability statistics on SADIS for future meetings of the MET/IE WG. Propose appropriate actions to apply the statistics to improve OPMET availability. <i>[Report of MET/IE WG/17, para. 4.21, refers]</i>	Before MET SG/27	Secretariat	IN PROGRESS
17/20	Propose updates to all required APAC documentation regarding the originating address of Australian WV SIGMETs (i.e., YMMC, rather than AMMC). <i>[Report of conjoint session of MET/IE WG/17 and MET/S WG/9, para. 2.24, refers]</i>	Before MET SG/27	Secretariat and Australia	IN PROGRESS ANP Table MET II-1 pending update

Unresolved action items recorded by ROBEX WG/13

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
13/7	Investigate feasibility of including provisions in the regional guidance material related to the issuance of routine TAF at intervals of three (3) hours; present draft material to MET SG/21 [Ref: ROBEX WG/13 Decision 13/7].	Before MET SG/27	Secretariat and ROBEX WG	IN PROGRESS Coordinate necessary follow-up through the ICAO ANP working group [Ref: MET/IE WG/16 Report para. 2.9].