



ICAO

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WORKING PAPER

**Asia and Pacific (APAC)
Twentieth Meeting of the Meteorological Information
Exchange Working Group (MET/IE WG/20)**

Online, 28 to 30 March 2022

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

FOLLOW-UP ACTION FROM MET/IE WG/19

(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/19) 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 Nineteenth Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/19; online, 22 – 24 March 2021), including the conjoint session with the Eleventh Meeting of the Meteorological Services Working Group (MET/S WG/11), included one (1) Draft Conclusion for further consideration by the Meteorology Sub-group (MET SG) and fourteen (14) 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/19, 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/19 – Draft Conclusion

2.1 The Draft Conclusion (on *Updating Online Register of IWXXM Exchange Status*) formulated by MET/IE WG/19 for further consideration by the MET SG, is reproduced at the **Appendix A** to this paper.

2.2 Further discussion on the outcome of the subsequent consideration of the above Draft Conclusion by Twenty-fifth Meeting of the MET SG (MET SG/25; online, October 2021) and the Thirty-second Meeting of the APAC Air Navigation Planning and Implementation Regional Group

(APANPIRG/32; online, December 2021) is provided separately in the MET/IE WG/20 working papers, WP/03 – *FOLLOW-UP ACTION FROM MET SG/25* and WP/04 – *FOLLOW-UP ACTION FROM APANPIRG/32*.

MET/IE WG/19 – Action Items

2.3 The action items recorded in the Report of MET/IE WG/19, 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 B** 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) Refer to WP/03 – *FOLLOW-UP ACTION FROM MET SG/25* and WP/04 – *FOLLOW-UP ACTION FROM APANPIRG/32*, for further discussion on follow-up action to the MET/IE WG/19 Draft Conclusion (on *Updating Online Register of IWXXM Exchange Status*);
- b) Review the MET/IE WG List of Actions, including the status of follow-up on the action items (as indicated at the **Appendix B** to this paper);
- c) Propose further updates, as necessary, to the status of follow-up on action items in the MET/IE WG List of Actions; and
- d) Endorse the proposed updates to the status of follow-up on action items in the MET/IE WG List of Actions.

APPENDIX A

Draft Conclusion MET SG/25/xx: Updating Online Register of IWXXM Exchange Status

That, the MET SG requests States to provide timely updates to the online register regarding the latest status of AMHS capability for IWXXM exchange among ROCs and NOCs and availability of IWXXM MET reports to facilitates the Region-wide implementation of IWXXM exchange.

APPENDIX B

MET/IE WG – LIST OF ACTIONS

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

Action items recorded by MET/IE WG/19

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
01	Propose updates to the ROBEX Handbook: to ensure clarity of the guidance concerning the ROCs' responsibilities for the distribution of IWXXM formatted OPMET data [ref: para. 2.5.]	May 2021	WG	To commence
02	Propose updates to the ROBEX Handbook: to ensure the availability of the AFTN addresses for the designated APAC ROCs [ref: para. 2.6.]	May 2021	WG	To commence
03	Propose appropriate updates to the ROBEX scheme and ROBEX Handbook: to include the requirement for ROBEX centres to send OPMET bulletins to all RODBs (Including updates to Tables A and B) [ref: para. 3.5.]	May 2021	WG	To commence Completed; ROBEX HB 14 th Ed.
04	Propose updates to the ROBEX Handbook: to include the WMO message headers (TTAAii CCCC) for each type of space weather advisory information (GNSS, HF COM, Radiation and SATCOM) in Traditional Alphanumerical Code (TAC)- and ICAO Meteorological Information Exchange Model (IWXXM)-form [ref: para. 3.8.]	May 2021	Secretariat	To commence Completed; ROBEX HB 14 th Ed.
05	Propose updates to the ROBEX Handbook: to include the necessary consequential changes to OPMET bulletins described in WP/08 (SAPS31 NFFN, SAPS32 NWWW, SAPS33 NTAA, SANG31 YBBN, FTSP31 NFFN, FTSP32 NWWW, FTSP33 NTAA, FTNG31 YBBN) and presented in Attachment A to WP/08 and to include information on the (KWBC) bulletins containing Pago Pago METAR and TAF [ref: para. 4.3.]	May 2021	Secretariat	To commence Part completed; ROBEX HB 14 th Ed.; updates pending concerning Pago Pago
06	Propose updates to the ROBEX Handbook: to include a link to the online register provided by the APAC ROCs for IWXXM-exchange-capability (in accordance with MET SG/24, Decision MET SG/24-15: <i>Updates to ROBEX Handbook</i> , and Conclusion MET SG/24-12: <i>Development of Online Register of the status of IWXXM Exchange</i>) [ref: para. 4.6.]	May 2021	Marco, Tim	To commence Completed; ROBEX HB 14 th Ed.
07	a) Provide additional feedback on the draft “ FAQs of IWXXM implementation ” (MET/IE WG/19, WP/17); and b) Present a proposal for MET SG/25 to possibly approve the publication of the FAQs (as either a standalone document or incorporated in another document) for use by States [ref: para. 4.11.]	a) Apr 2021 b) May 2021	a) WG members, b) Marco, Tim, Secretariat, IATA	To commence Completed; Conclusion MET SG/25-01
08	Publish the MET SG/24-approved updates to the ROBEX Handbook: as presented at Appendix 10 to the MET/SG/24 Report, including the corrections to AFTN addresses provided by Fiji and presented at Appendix A to MET/IE WP/19, WP/12 – <i>ROBEX Handbook Updates</i> [ref: para. 6.2.]	Mar 2021	Secretariat	To commence Completed; ROBEX HB 14 th Ed.
09	Propose updates to the ROBEX Handbook: to include the changes to data in Appendix A, Appendix B and Appendix I of the ROBEX Handbook, as advised by Japan and presented in MET/IE WG/19, WP/13 – <i>Updates to ROBEX Handbook</i> . [ref: para. 6.5.]	May 2021	Secretariat	To commence Completed; ROBEX HB 14 th Ed.
10	Propose updates to the ROBEX Handbook: to include the changes to data in Appendix A of the ROBEX Handbook, as advised by Republic of Korea and presented in MET/IE WG/19, WP/14 – <i>Update to ROBEX Handbook</i> . [ref: para. 6.8.]	May 2021	Secretariat	To commence Completed; ROBEX HB 14 th Ed.
11	Propose updates to the ROBEX Handbook: to include the OPMET exchange information for Van Don International Airport (VVVD), as advised by Viet Nam and presented in MET/IE WG/19, WP/15 – <i>A new international airport (VVVD) to join ROBEX network for international OPMET data exchange</i> . [ref: para. 6.11.]	May 2021	Viet Nam and Secretariat	To commence In progress; MET/IE WG/20, IP/02
12	Propose updates to the ROBEX Handbook: to include the Space Weather Advisory dissemination scheme (MET/IE WG/19, Flimsy/01) [ref: para. 6.14.]	May 2021	Secretariat	Completed; ROBEX HB 14 th Ed.

Action items recorded by conjoint session of MET/IE WG/19 and MET/S WG/11

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
01	State letter request to user States to ensure the relevant operational units participate in the VAAC back-up tests and provide the VAACs with their current, valid AFTN addresses for receipt of the VAA messages. [Ref: para. 1.1.-1.3., MET/IE WG/19 and MET/S WG/11 conjoint session]	Before next scheduled test	Australia, New Zealand, Secretariat	To commence
02	Investigate possible improvements to the template for the SIGMET test summary table to enable a more detailed analysis of the SIGMET tests, including analysis of more than one WC and/or WV SIGMET test message issued by the same MWO (which receives TCA and/or VAA from more than one TCAC and/or VAAC). [Ref: para. 2.16., MET/IE WG/19 and MET/S WG/11 conjoint session]	Before next scheduled test	SIGMET test Focal Points, Secretariat	To commence

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

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
Terms of Reference and Work Program				
01	Terms of Reference and Work Program – online coordination: Make use of regular online coordination meetings to facilitate progress on follow-up on the action items in the Task List/s [ref: para. 2.3. and 7.3.]	As necessary	Secretariat and WG Chairs and members	IN PROGRESS 13 August 2020, 10 December 2020 Superseded; included in work plan: MET Chairs Coordination Meeting in ToR
OPMET Monitoring				
07	OPMET performance indices – States’ follow-up: Inform States concerned of the locations with low performance indices and advise the States to take appropriate corrective actions; address the above communication also the Regional OPMET Centres (ROCs) responsible for the collection of OPMET messages from the originating stations [ref: para. 3.4. and 3.5.]	Sep 2020	Secretariat	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 1 and Activity 2 Superseded; included in work plan, Activity 1.8 and 2.6
IWXXM implementation				
11	IWXXM implementation – FAQs: Prepare and publish an “FAQ”-type resource taking into consideration the IWXXM-related matters discussed in the meeting and the considerable information collated from previous IWXXM workshops and related activities [ref: para. 3.28.]	Before and (update) after IWXXM Webinar	Secretariat and MET/IE WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 7 Completed; Conclusion MET SG/25-01
Regional Guidance Materials				
13	ROBEX Handbook updates – Update process: Propose options for a more streamlined process for updating the ROBEX Handbook data, such as through the development of a more dynamic, online repository for ROBEX data [ref: para. 4.4.]	Before MET SG/24	MET/IE WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6
14	ROBEX Handbook updates – IWXXM-related data: Investigate the development of an online repository for ROBEX data in which States would share and maintain up to date information on the IWXXM-capabilities of the ROBEX scheme and the AMHS addresses to support the required dissemination of IWXXM messages [ref: para. 4.6.]	Before MET SG/24	MET/IE WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6 Completed; ROBEX HB 14 th Ed.

ACTION ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/REMARKS
15	ROBEX Handbook updates – IWXXM-related flexibility: Propose updates, as necessary, to reflect APAC States' requirement for flexibility of the ROBEX scheme structure during the transition to Region-wide implementation of IWXXM exchange [ref: para. 4.7.]	Before MET SG/24	MET/IE WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6
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/24	Secretariat and States	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 and ROBEX Handbook [ref: para. 3.7.]	As necessary	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 ANP and/or ROBEX Handbook [ref: para. 8.27.]	Before MET SG/24	Secretariat and Indonesia	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 6
SIGMET test				
28	SIGMET test results – corrective action plan: Investigate the reason for the reduced reception of SIGMET test messages at Regional OPMET Centre (ROC) London compared to APAC RODB's and share the results with MET/S for potential corrective action [ref: para. 6.12.]	Before MET SG/24	MET/IE WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 3 AND Ref: MET/S WG, 5. Work Plan, Activity 3
Other				
30	VAAC back-up test procedures – review and update: Refer to the pertinent information from IP/08 and determine appropriate action for the next review and update of the VAAC back-up test procedures [ref: para. 8.25.]	Before MET SG/24	MET/IE WG and MET/S WG	IN PROGRESS Ref: MET/IE WG, 5. Work Plan, Activity 4

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: (a) changes to the routing of the SIGMET and advisory information at the responsible VAAC, TCAC and the RODBs; and (b) 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>	TBA	Cambodia and Secretariat	TO COMMENCE Action should be completed before handover of SIGMET service
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) updates to the ICAO Doc. 7910 and APAC ANP, including AOP and MET tables. <i>[Report of MET/IE WG/17, para. 3.6 – 3.8, refers]</i>	17 Jun 2019	China and Secretariat	TO COMMENCE Action should be completed before commencement of new OPMET service
17/4	Coordinate a proposal to update the ROBEX Handbook to enable the regular exchange of several international OPMET bulletins to the ROBEX Centre Beijing and present it for further review and possible endorsement by MET/SG/23. <i>[Report of MET/IE WG/17, para. 3.9 – 3.12, refers]</i>	17 Jun 2019	China	TO COMMENCE

ACTIO N ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/ REMARKS
17/10	Liaise with the SADIS Provider concerning obtaining OPMET availability statistics on SADIS for future meetings of the MET/IE WG. <i>[Report of MET/IE WG/17, para. 4.21, refers]</i>	Next meeting MET/IE WG	Secretariat	IN PROGRESS
17/11	Present a consolidated proposal for updates to the ROBEX Handbook, to reflect the establishment of an NOC (within the ROBEX scheme) in Vietnam, for further review and possible endorsement by MET/SG/23. <i>[Report of MET/IE WG/17, para. 5.9 – 5.10, refers]</i>	17 Jun 2019	Vietnam, Thailand and Secretariat	IN PROGRESS
17/12	Propose any necessary updates to the ROBEX Handbook to reflect the actual requirements for OPMET information. <i>[Report of MET/IE WG/17, para. 5.11 – 5.13, refers]</i>	17 Jun 2019	States with low PIs for OPMET	IN PROGRESS
17/13	In conjunction with the outstanding action item 16/5: (a) Prepare a checklist to assist States in systematically addressing the OPMET issues at locations with low PIs in the monitoring data; and (b) Provide the checklist as guidance to the States concerned. <i>[Report of MET/IE WG/17, para. 5.11 – 5.14, refers]</i>	Next meeting MET/IE WG	Secretariat and Thailand	IN PROGRESS Superseded; included in work plan, Activity 1.8 and 2.6
17/14	In order to ensure availability of OPMET bulletins at all RODBs: (a) Propose appropriate updates to the ROBEX scheme and ROBEX Handbook to include the requirement for ROBEX centres to send OPMET bulletins to all RODBs; and (b) Requested all ROBEX centres to send their associated OPMET bulletins to all RODBs. <i>[Report of MET/IE WG/17, para. 5.11 – 5.17, refers]</i>	17 Jun 2019	MET/IE WG	IN PROGRESS Completed; ROBEX HB 14 th Ed.
17/16	Coordinate the requirements for all additional, new updates to the ROBEX Handbook and consolidate these into an update proposal for further review and possible adoption by MET/SG/23. <i>[Report of MET/IE WG/17, para. 6.5, refers]</i>	17 Jun 2019	Secretariat	IN PROGRESS Related to action items: 17/3, 17/4, 17/11, 17/12 and 17/14
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>	17 Jun 2019	Secretariat and Australia	IN PROGRESS ANP Table MET II-1 pending update

Unresolved action items recorded by MET/IE WG/16

ACTIO N ITEM	DESCRIPTION	BY DATE	RESPONSIBILITY	STATUS/ REMARKS
16/4	Review the usage of the request-reply service provided and, where appropriate, arrange for the routine provision of OPMET bulletins as an alternative to the usage of the request-reply service for routine access to the stored OPMET data <i>[Report of MET/IE WG/16, para. 5.8, refers]</i> .	Mar 2019	APAC RODBs	IN PROGRESS

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 <i>[Ref: ROBEX WG/13 Decision 13/7]</i> .	June 2017	Secretariat and ROBEX WG	IN PROGRESS Coordinate necessary follow- up through the ICAO ANP working group <i>[Ref: MET/IE WG/16 Report para. 2.9]</i> .
