



ICAO

*International Civil Aviation Organization***WORKING PAPER****Asia and Pacific (APAC)
Eleventh Meeting of the Meteorological Requirements
Working Group (MET/R WG/11)**

Online, 31 May to 3 June 2022

Agenda Item 3: Review of follow-up from previous meetings**FOLLOW-UP ACTION FROM APANPIRG/32**

(Presented by the Secretariat)

SUMMARY

This paper presents the status of follow-up action on outcomes from the Thirty-Second Meeting of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/32), which are of direct relevance to the work plan of the Meteorology Sub-Group (MET SG) and Meteorological Requirements Working Group (MET/R WG), and invites the meeting to consider further actions for the MET/R WG, as necessary, to support the follow-up action on the APANPIRG/32 outcomes.

1. INTRODUCTION

1.1 Outcomes from the Thirty-Second Meeting of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/32; online, 1 – 3 December 2021) included, in total, ten (10) Conclusions, which deal with matters that require the attention of States or actions by ICAO, and four (4) Decisions, which deal with matters of concern only to the APANPIRG and its contributory bodies.

1.2 The above outcomes from APANPIRG/32 include three (3) Conclusions and one (1) Decision of direct relevance to the work plan of the Meteorology Sub-Group (MET SG) and Meteorological Requirements Working Group (MET/R WG).

1.3 The meeting will review the status of follow-up action on the relevant outcomes from APANPIRG/32, and consider further actions for the MET/R WG, as necessary, to support the follow-up action on the outcomes from APANPIRG/32.

2. DISCUSSIONAPANPIRG/32 – Conclusions and Decision

2.1 APANPIRG/32 adopted the following (MET-relevant) Conclusions and Decision, which

are reproduced in full in **Appendix A** to this paper.

Conclusion APANPIRG/32/11: *Updating Online Register of IWXXM Exchange Status* (Based on Draft Conclusion MET SG/25-03)

Decision APANPIRG/32/12: *Meteorological expert contribution to SWIM/TF* (Based on Draft Decision MET SG/25-08)

Conclusion APANPIRG/32/13: *Update on the provision of Space Weather Advisory* (Based on Draft Conclusion MET SG/25-09)

Conclusion APANPIRG/32/14: *Update of Information in APANPIRG Air Navigation Deficiencies Reporting Form*

2.2 **Appendix A** also indicates the status of follow-up action related to the Conclusions and Decision adopted by APANPIRG/32.

2.3 In addition, concerning the APANPIRG/32 consideration of Draft Conclusion MET SG/25-07: *SWIM architecture to enable the cost-effective and efficient provision and consumption of MET information services*, APANPIRG/32 noted that the Draft Conclusion will be captured in the ongoing review of SWIM/TF ToR and concluded that there was no need to further consider Draft Conclusion MET SG/25-07.

Additional outcome from APANPIRG/32 – Progress of Secretariat actions

2.4 To address the concerns reported by MET SG/25 about the negative impact of delayed Secretariat actions on the MET SG work plan, the Secretariat informed APANPIRG/32 it is considering the possibility of advertising for the secondment of an Aviation Meteorology subject matter expert to supplement the Secretariat support for the APANPIRG MET-related work.

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to:

- a) Review the status of follow-up action related to the APANPIRG/32 Conclusions and Decision (as indicated in **Appendix A** to this paper); and
- b) Consider further actions for the MET/R WG, as necessary, to support the follow-up action from APANPIRG/32.

APPENDIX A

APANPIRG/32 Conclusions and Decision (extracted from the Final Report of APANPIRG/32 based on direct relevance to the work plan of the MET SG and MET/R WG)

[Based on Draft Conclusion MET SG/25-03]

Conclusion APANPIRG/32/11: Updating Online Register of IWXXM Exchange Status	
That, States/Administrations provide timely updates to the Online Register of IWXXM Exchange Status on the latest status of AMHS capability for IWXXM exchange among ROCs and NOCs, and the availability of IWXXM MET reports.	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 inform users and Regional OPMET Bulletin Exchange Scheme participants of each States’ ability to generate and receive IWXXM over the required communication links and facilitate the Region-wide implementation of IWXXM exchange.	
When: Now	Status: Adopted by PIRG
Who: <input type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: ROs	

- **Status of follow-up action** related to Conclusion APANPIRG/32/11:
 - ICAO State letter in progress

[Based on Draft Decision MET SG/25-08]

Decision APANPIRG/32/12: Meteorological expert contribution to SWIM/TF	
That, States consider identifying meteorological experts to contribute to the APAC SWIM/TF to ensure meteorological aspects are fully considered.	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: Currently, few members of the SWIM/TF come from a meteorological background. The SWIM/TF would benefit from a greater understanding of the requirements and plans for meteorological information services.	
When: Now	Status: Adopted by PIRG
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: ROs	

- **Status of follow-up action** related to Decision APANPIRG/32/12:
 - ICAO State letter Ref.: T 4/3.2.9 - AP070/22 (MET), 9 May 2022

[Based on Draft Conclusion MET SG/25-09]:

Conclusion APANPIRG/32/13: Update on the provision of Space Weather Advisory

<p>That, States/Administrations urgently implement or adjust their systems to enable the forwarding of space weather advisories (in TAC and IWXXM form) as appropriate to users.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: CRC commenced operation with effect from 16 November 2021, and the WMO message headers for TAC and IWXXM format SWX advisory messages were updated to have separate headers for each space weather impact type.</p>	
<p>When: Now</p>	<p>Status: Adopted by PIRG</p>
<p>Who: <input type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: ROs</p>	

- **Status of follow-up action** related to Conclusion APANPIRG/32/13:
 - ICAO State letter in progress

<p>Conclusion APANPIRG/32/14: Update of Information in APANPIRG Air Navigation Deficiencies Reporting Form</p>	
<p>That,</p> <p>1) ICAO to update the APANPIRG Air Navigation Database to reflect the information as presented in Appendices A to D to Report on Agenda Item 4.</p> <p>2) States/Administrations be urged to:</p> <p>a) establish action plan with defined target dates for resolution of deficiencies, update the status on the corrective action taken and report progress in the Reporting Form of Air Navigation Deficiencies identified in ATM and Airspace Safety, AOP, CNS and MET fields as detailed in Appendices A to D to Report on Agenda Item 4; and</p> <p>b) update contact details of a Focal Point to coordinate actions to resolve the Deficiencies https://portal.icao.int/def/Documents/FocalPoint_ANDef.pdf.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input type="checkbox"/> Inter -Regional</p> <p><input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: The resolution of air navigation deficiencies in the ATM and Airspace Safety, AOP, CNS and MET fields (in the APANPIRG database) have lacked satisfactory progress over several years, due in part to inadequate information in the Reporting Form, e.g., infrequent updates and lack of concise and concrete Corrective Action Plans with defined target dates</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: official reports providing full details of the corrective actions taken where deficiencies have been resolved be reported to APANPIRG’s Sub-groups in 2022.</p>	<p>Status: Adopted by PIRG</p>
<p>Who: <input checked="" 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</p>	

- **Status of follow-up action** related to Conclusion APANPIRG/32/14:
 - Updated APANPIRG Air Navigation Deficiencies Database:
 - <https://portal.icao.int/DEF/Pages/default.aspx>

- ICAO State letter Ref.: AN 3/3 – AP015/22 (AGA), 19 January 2022
- Further discussion:
 - MET/S WG/12, WP/06
 - MET/S WG/12, IP/11
 - MET/IE WG/20 and MET/S WG/12 conjoint session, WP/C03
