

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/02)

ICAO ASIA AND PACIFIC (APAC)
THIRTIETH MEETING OF THE METEOROLOGY
SUB-GROUP (MET SG/30)

Bangkok, Thailand, 20 - 24 July 2026

Agenda Item 2: Review Outcomes from Previous Meetings**REVIEW OUTCOMES FROM MET SG/29 AND APANPIRG/36**

(Presented by Secretariat)

SUMMARY

This paper reviews outcomes from MET SG/29 and APANPIRG/36, highlighting adopted Conclusions and Decisions, as well as MET SG action items. The meeting is invited to assess follow-up progress and consider further actions to support effective implementation of the MET SG work plan, and implementation of ICAO SARPs and global and regional plans across the APAC Region.

1. INTRODUCTION

1.1 The Twenty-ninth Meeting of the Meteorology Sub-group (MET SG/29) was held in Bangkok, Thailand, from 18 to 22 August 2025, and the Thirty-sixth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/36) was held in Bangkok, Thailand, from 24 to 26 November 2025.

1.2 Under its terms of reference, outcomes from the MET SG that involve economic, environmental or political aspects, global implications, or concern the working arrangements of APANPIRG and its contributory bodies, are formulated as “Draft Conclusions” or “Draft Decisions” for further consideration by the APANPIRG.

1.3 Outcomes from the MET SG involving proposals for action on technical matters that do not have additional economic, environmental, inter-regional or political effects, especially those concerning guidance to States in the implementation of ICAO SARPs and global and regional plans, are adopted as “Conclusions” or “Decisions” of the MET SG. In addition, MET SG records a “List of Actions” for follow-up by its members.

1.4 The meeting is invited to review the MET SG/29 and APANPIRG/36 outcomes, including the adopted Conclusions and Decisions, and assess the status of follow-up actions.

1.5 The meeting is encouraged to consider further actions, as necessary, to support the effective follow-up and implementation of these outcomes.

2. DISCUSSION

MET SG/29 – Draft Conclusions

2.1 MET SG/29 developed six Draft Conclusions, which were presented to APANPIRG/36, two of which (Draft Conclusions MET SG/29/02 and MET SG/29/03) originated from proposals developed by MET/IE WG/23. The outcomes of APANPIRG's considerations of the Draft Conclusions are indicated in paragraphs 2.4 and 2.5.

- **Draft Conclusion MET SG/29/01** – Publishing MET Seminar Presentation Recordings
- **Draft Conclusion MET SG/29/02** – Management of obsolete planning and implementation guidance documents on the ICAO APAC Office website
- **Draft Conclusion MET SG/29/03** – IWXXM update notification process
- **Draft Conclusion MET SG/29/05** – Sharing of Turbulence Reports with Meteorological Service Providers
- **Draft Conclusion MET SG/29/08** – Establishment of a Group to Address Long-Standing Air Navigation Deficiencies but
- **Draft Conclusion MET SG/29/15** – Enabling the use of QVA by airlines

MET SG/29 – Conclusions and Decisions

2.2 MET SG/29 adopted two Conclusions and seven Decisions addressing technical matters requiring State or ICAO action, as well as internal procedural issues within the Sub-group. The follow-up status of these Conclusions and Decisions, including unresolved items from previous meetings, is presented in **Appendix A** (MET SG List of Conclusions and Decisions).

MET SG/29 – List of Actions

2.3 MET SG/29 recorded thirty new action items. The follow-up status of these, together with outstanding items from earlier meetings, is presented in the MET SG List of Actions in **Appendix B**.

APANPIRG/36 outcomes

2.4 APANPIRG/36 adopted fourteen Conclusions requiring follow-up by States or ICAO in line with the Group's Terms of Reference. Seven are directly relevant to the MET SG and its working groups, including five originating from MET SG Draft Conclusions. These are listed below and reproduced in **Appendix C**:

- **Conclusion 36/2** – Action plan for updating of APAC ANP Volume III
- **Conclusion 36/14** – Publishing MET Seminar Presentation Recordings
- **Conclusion 36/15** – Management of obsolete planning and implementation guidance documents on the ICAO APAC Office website
- **Conclusion 36/16** – IWXXM update notification process
- **Conclusion 36/17** – Sharing of Turbulence Reports with Meteorological Service Providers
- **Conclusion 36/18** – Enabling the use of QVA by airlines
- **Conclusion 36/19** – Update of information in APANPIRG Air Navigation Deficiencies Reporting Form

2.5 APANPIRG/36 did not adopt Draft Conclusion MET SG/29/08 – *Establishment of a Group to Address Long-Standing Air Navigation Deficiencies*. Instead of establishing a new group, APANPIRG/36 agreed that Sub-Group Chairs and the Secretariat would work together to propose

practical, sustainable approaches for resolving long-standing air navigation deficiencies across the region. The intent is to accelerate progress on deficiencies—many of which have remained unresolved for over a decade—by promoting coordinated, multidisciplinary efforts that address the interlinked nature of air navigation services. This work will also support States and Administrations, particularly Pacific Small Island Developing States (PSIDS), in overcoming systemic and resource-related challenges. At the time of writing this paper, this activity has yet to commence. The Secretariat will report progress to APANPIRG/37.

2.6 APANPIRG/36 reviewed the progress of Decision APANPIRG/35/11 – *Additional Secretariat Support* and noted that an additional Regional Officer – Environment was (at the time) anticipated to join the APAC Office soon and so this decision could be considered complete, despite concern raised by the MET SG Secretariat and Chair that closure of this activity may be premature.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review and update the follow-up status on the MET SG/29 and APANPIRG/36 outcomes; and
- c) consider further actions, if necessary, to support the follow-up action on the outcomes from MET SG/29 and APANPIRG/36.

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APPENDIX A

MET SG/29 – Conclusions and Decisions

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

DC/DD/C/D No	Title of DC/DD/C/D	Text of DC/DD/C/D (What:)	Responsibility	Target Date	Status/ Remarks
(1)	(2)	(3)	(4)	(5)	(6)
Draft Conclusion MET SG/29/01	Publishing MET Seminar Presentation Recordings	That ICAO be requested to make available the MET Seminar presentation recordings.	Secretariat	As soon as practicable	ADOPTED [Ref: adoption of Conclusion APANPIRG/36/2]
Draft Conclusion MET SG/29/02	Management of obsolete planning and implementation guidance documents on the ICAO APAC Office website	ICAO take appropriate action to manage (clearly identified as obsolete or remove) the archive of obsolete and historic planning and implementation guidance documents on its website, including those related to MET and other AN fields.	Secretariat	As soon as practicable	ADOPTED [Ref: adoption of Conclusion APANPIRG/36/15]
Draft Conclusion MET SG/29/03	IWXXM update notification process	ICAO in coordination with WMO take appropriate action to initiate an IWXXM update notification process for all relevant stakeholders, including IWXXM consumers and system vendors.	Secretariat	As soon as practicable	ADOPTED [Ref: adoption of Conclusion APANPIRG/36/16]
Draft Conclusion MET SG/29/05	Sharing of Turbulence Reports with Meteorological Service Providers	States be urged to: a) In accordance with Annex 3, share special air-reports with meteorological service providers, including turbulence reports, to support enhanced forecasting and situational awareness; and b) Provide information on the number of special air-reports received each calendar year.	Secretariat States	As soon as practicable	ADOPTED [Ref: adoption of Conclusion APANPIRG/36/17]
Draft Conclusion MET SG/29/08	Establishment of a Group to Address Long-Standing Air Navigation Deficiencies	APANPIRG establish a multi-disciplinary group comprising experts from the ATM, AOP, and MET domains to propose practical and sustainable options for resolving long-standing air navigation deficiencies in the Asia/Pacific region.	Secretariat APANPIRG	18-Aug-25	IN PROGRESS [Ref: Report of APANPIRG/36, para. 3.5.21: Sub-Group Chairs and Secretariat to jointly propose practical, sustainable solutions to long-standing regional AN deficiencies]
Draft Conclusion MET SG/29/15	Enabling the use of QVA by airlines	State Aviation Authorities are requested to consider and plan for the use of quantitative volcanic ash concentration information (QVA).	Secretariat States	As soon as practicable	ADOPTED [Ref: adoption of Conclusion APANPIRG/36/18]

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DC/DD/C/D No	Title of DC/DD/C/D	Text of DC/DD/C/D (What:)	Responsibility	Target Date	Status/ Remarks
(1)	(2)	(3)	(4)	(5)	(6)
Conclusion MET SG/29/06	Lack of Provision of IWXXM Format SIGMET	The MET Sub-group recommends to the ICAO APAC Office, in its role assessing potential deficiencies, that it reviews the information provided in this paper on the lack of IWXXM implementation for SIGMET issuance: Afghanistan, Bangladesh, Cambodia, DPR Korea, India, Indonesia, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nauru, Nepal, Pakistan, Papua New Guinea, Republic of Korea, Sri Lanka, Viet Nam	Secretariat	18-Aug-25	IN PROGRESS
Conclusion MET SG/29/07	Lack of Provision of IWXXM Format Advisories	The MET Sub-group recommends to the ICAO APAC Office, in its role assessing potential deficiencies, that it reviews the information provided in this paper on the lack of IWXXM implementation for advisory issuance: Volcanic ash advisory (VAA): United States, France; Tropical cyclone advisory (TCA): Australia, United States, India, Fiji	Secretariat	18-Aug-25	IN PROGRESS
Decision MET SG/29/04	MET information elements of the APAC Seamless ANS Plan (ASAP)	That, the MET SG approves the publication of the mapping document (MET SG/29 WP/03, Appendix D) as an appendix to the APAC Seamless ANS Plan (ASAP)	Secretariat	As soon as practicable	IN PROGRESS [approved; pending publication with the ASAP]
Decision MET SG/29/09	Approval of Guidance for Updating APAC MET Documentation	That the “Guidance for Updating APAC MET Documentation” be approved for publication on the ICAO APAC eDocuments website, following incorporation of editorial improvements as suggested by the meeting.	Secretariat	18-Aug-25	COMPLETED
Decision MET SG/29/10	Update the Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations	That, the MET SG approves the proposed updates i.e. include the example from Republic of Korea under Appendix 1 of the Asia/Pacific Regional Guidance for Tailored Meteorological Information and Services to Support Air Traffic Management Operations.	Secretariat	As soon as practicable	COMPLETED
Decision MET SG/29/11	Updates to Regional SIGMET Guide	That, the MET SG approves the updates proposed under Appendix A of MET SG/29—WP/13, subject to editorial improvements agreed by the meeting, publish the 12th Edition of the APAC Regional SIGMET Guide and make the guide available on the ICAO APAC website.	Secretariat	August 2025	COMPLETED
Decision MET SG/29/12	Updating the APAC Use Cases for SWIM-based Meteorological Information Services Supporting ATFM	That, the MET SG approves the Second Edition of the APAC Use Cases for SWIM-based Meteorological Information Services Supporting ATFM, subject to editorial improvements agreed by the meeting, for publication on the ICAO APAC eDocument website (MET SG/29, WP/14, Attachment A).	Secretariat	22-Aug-25	IN PROGRESS [Ref: MET/R WG/15 WP/11. ACTION – MET/R WG/15-0]
Decision MET SG/29/13	Publication of 2021 Survey of State Meteorological Information Supporting Air Traffic Management Report	That, the MET SG approves the publication of the refined report '2021 Survey of State Meteorological Information Supporting Air Traffic Management' on the ICAO APAC eDocuments website	Secretariat	As soon as practicable	COMPLETED

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DC/DD/C/D No	Title of DC/DD/C/D	Text of DC/DD/C/D (What:)	Responsibility	Target Date	Status/ Remarks
(1)	(2)	(3)	(4)	(5)	(6)
Decision MET SG/29/14	MET Contributions to SWIM TF for MET SWIM Information Services	That, MET SG empowers an ad hoc group, consisting of Chairs of MET/IE WG, MET/R WG and MET SG, to develop and maintain meteorological components of the ‘Business Functionality of APAC Common SWIM Information Services’ for submission to SWIM TF.	Secretariat MET SG	As soon as practicable	IN PROGRESS

MET SG/28 – Conclusions (C) and Decisions (D) (previously unresolved items)

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

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision (What:)	Responsibility	Target Date	Status/ Remarks
(1)	(2)	(3)	(4)	(5)	(6)
C 28-03	Review of APAC Region IWXXM Implementation Status/ Readiness	States/Administrations provide ICAO an update on the status and readiness dates for the following: (a) AMHS with FTBP/IHE and configuration for single body part; (b) AMHS connection(s) will have sufficient capacity to support IWXXM exchange; (c) when operational IWXXM information will available; and (d) commencement of operational exchange of IWXXM with their Regional OPMET Centre (ROC), and where applicable their respective Inter-regional OPMET Gateway.	MET SG, APAC States and ICAO RO	31 December 2024	IN PROGRESS [Ref: Online Register of APAC IWXXM Exchange Status (https://www.icao.int/APAC/Pages/eDocs.aspx)]
D 28-04	Addition of MET/S WG actions to MET SG action list	The outstanding MET/S WG actions, MET/S WG/13-03 and MET/S WG/10-21, are to be added to the action list of the MET SG and progressed, as appropriate.	MET SG and ICAO RO	12-Jul-24	IN PROGRESS [Ref: MET/IE WG/23, WP/03, Appx. B]

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APPENDIX B

MET SG/29 – List of Actions

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

MET SG/29 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
29/01	PfA APAC ANP Process the PfA in Flimsy/02, and incorporate updates from WP/12, WP/20, and WP/25 [Ref: MET SG/29 Report, para. 2.11 and Flimsy/02]	Secretariat	September 2025	COMPLETED [Ref: APAC.II.25/24-MET and APAC.II.25/25-MET]
29/02	Update MET-SWIM Docs Update ICAO APAC eDocuments to reflect MET-SWIM Roadmap (V3) and new MET-SWIM Implementation Guidelines [Ref: para. 2.39 and IP/02]	Secretariat	September 2025	COMPLETED
29/03	SIGMET Test Follow-up Identify advisory test messages not received to support targeted resolution [Ref: para. 3.10 and WP/07]	SIGMET-test focal points	MET/IE WG/24	IN PROGRESS
29/04	Share SIGMET Results Share SIGMET test results with relevant States [Ref: para. 3.12 and WP/07]	Secretariat	August 2025	IN PROGRESS
29/05	Publish MET Update Guide Publish “Guidance for Updating APAC MET Documentation” [Ref: MET SG/29 Report, para. 4.4 and WP/15]	Secretariat	September 2025	COMPLETED
29/06	Improve MET Update Guide Present proposals for further improvements to the guidance document [Ref: MET SG/29 Report, para. 4.5 and WP/15]	MET SG Chairs	MET SG/30	IN PROGRESS
29/07	ROBEX Update – Hong Kong Incorporate Hong Kong updates into ROBEX Handbook 18th Edition [Ref: MET SG/29 Report, para. 4.7 and WP/10]	Secretariat	September 2025	COMPLETED [Ref: ROBEX HB, 19 TH Ed]
29/08	ROBEX Update – Japan Incorporate Japan’s updates into APAC ANP and ROBEX Handbook [Ref: MET SG/29 Report, para. 4.10 and WP/12]	Secretariat	September 2025	COMPLETED [Ref: APAC.II.25/25-MET; ROBEX HB, 19 TH Ed]
29/09	Process ANP PfAs Process well-formed ANP PfAs received in time for next amendment [Ref: MET SG/29 Report, para. 4.11 and WP/12]	Secretariat	September 2025	COMPLETED [Ref: APAC.II.25/25-MET]
29/10	IWXXM Validity Time	Secretariat	September 2025	IN PROGRESS

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MET SG/29 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
	Inform States how IWXXM monitoring handles 24:00Z validity time [Ref: MET SG/29 Report, para. 4.15.1 and WP/16]			
29/11	METAR Timeliness Clarification Seek clarification on EUR Region's METAR timeliness definitions [Ref: MET SG/29 Report, para. 4.15.2 and WP/16]	MET/IE WG Chair	MET/IE WG/24	IN PROGRESS
29/12	NZ Aerodrome Updates Include NZOH, NZDN, NZHN updates in ROBEX Handbook [Ref: MET SG/29 Report, para. 4.18 and WP/17]	Secretariat	October 2025	COMPLETED [Ref: ROBEX HB, 19 TH Ed]
29/13	US Aerodrome Inclusion Include US aerodromes in ROBEX Handbook and coordinate routing gaps [Ref: MET SG/29 Report, para. 4.21 and IP/28]	Secretariat	September 2025	COMPLETED [Ref: ROBEX HB, 19 TH Ed]
29/14	Tailored MET Guidance Publish updated Regional Guidance for Tailored MET Information and Services [Ref: MET SG/29 Report, para. 4.24 and WP/11]	Secretariat	September 2025	COMPLETED
29/15	SIGMET Guide Update Publish 12th Edition of APAC Regional SIGMET Guide [Ref: MET SG/29 Report, para. 4.28 and WP/13]	Secretariat	November 2025	COMPLETED
29/16	SWIM Use Cases Update Publish Second Edition of APAC Use Cases for SWIM-based MET Services [Ref: MET SG/29 Report, para. 4.33 and WP/14]	Secretariat	September 2025	IN PROGRESS [Ref: MET/R WG/15 WP/11]
29/17	MET/ATM Survey Report Publish refined 2021 MET/ATM Survey Report [Ref: MET SG/29 Report, para. 5.3 and WP/26]	Secretariat	September 2025	COMPLETED
29/18	VOLMET Update – Thailand Incorporate Thailand's VOLMET updates into APAC ANP [Ref: MET SG/29 Report, para. 5.6 and WP/20]	Secretariat	September 2025	COMPLETED [Ref: APAC.II.25/25-MET]
29/19	VDTI Integration Incorporate VDTI updates into APAC ANP and ROBEX Handbook [Ref: MET SG/29 Report, para. 5.9 and WP/25]	Secretariat	September 2025	COMPLETED [Ref: APAC.II.25/25-MET; ROBEX HB, 19 TH Ed]
29/20	ROBEX HB Bulletin Review Coordinate review of multiple ROBEX Handbook (TAF/METAR) bulletins for aerodromes [Ref: MET SG/29 Report, para. 5.16 and IP/06]	MET/IE WG	MET/IE WG/24	IN PROGRESS
29/21	VONA Dissemination	Ad hoc group (NZ, AU, US)	November 2025	IN PROGRESS

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MET SG/29 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
	Investigate VONA dissemination methods for global accessibility [Ref: MET SG/29 Report, para. 5.23 and WP/21]			[Ref: MET/IE WG/24 WP/14]
29/22	VONA Guide Update Provide finalized VONA updates to SIGMET Guide ad hoc group [Ref: MET SG/29 Report, para. 5.24 and WP/21]	Secretariat	November 2025	COMPLETED [Ref: SIGMET Guide 12 th -Ed] Note: to be published
29/23	VONA Colour Code Guidance Seek METP guidance on green aviation colour code VONA issuance [Ref: MET SG/29 Report, para. 5.28 and IP/07]	METP members	MET/IE WG/24	IN PROGRESS
29/24	VONA Input System (VIS) Expansion Explore expansion of VIS access beyond PSIDS [Ref: MET SG/29 Report, para. 5.33 and IP/15]	New Zealand	MET SG/30	IN PROGRESS
29/25	VAAC Washington Inclusion Invite VAAC Washington to contribute to future VAAC reports [Ref: MET SG/29 Report, para. 5.37 and IP/08]	Secretariat	MET SG/30	IN PROGRESS
29/26	Amendment 82 Webinar Organize webinar on Amendment 82 and PANS-MET updates [Ref: MET SG/29 Report, para. 5.48 and IP/29]	Secretariat	Oct–Nov 2025	IN PROGRESS
29/27	IWXXM Schema Clarification Seek ICAO/WMO clarification on APAC-specific IWXXM schema implementation [Ref: MET SG/29 Report, para. 6.5 and WP/24]	Secretariat	MET SG/30	IN PROGRESS
29/28	SWX Exercise Collaboration Engage ATM/SG to explore regional space weather exercise collaboration [Ref: MET SG/29 Report, para. 6.11 and IP/22]	Secretariat	MET SG/30	IN PROGRESS
29/29	QVA Workshop Summary Publish QVA Workshop Summary link on ICAO APAC eDocuments [Ref: MET SG/29 Report, para. 6.18 and IP/21]	Secretariat	November 2025	COMPLETED
29/30	QVA Rollout Proposal Prepare proposal for informing States about QVA service rollout [Ref: MET SG/29 Report, para. 6.47 and IP/20]	Chair and Secretariat	MET SG/30	IN PROGRESS

MET SG/28 – List of Actions (previously unresolved action items)

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

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MET SG/28 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
28/01	Revise information in WP/02 to update the lapsed target dates for uncompleted actions in the MET SG List of Actions and indicate the follow-up status on the relevant APANPIRG and MET SG Conclusions and Decisions. [Ref: Report of MET SG/28, para. 2.8.]	Secretariat	MET SG/28 final report	IN PROGRESS [Ref: MET/IE WG/23-WP/03]
28/03	Close (former) MET/S WG actions no. MET/S WG/13-01 and MET/S WG/11-01 and retain the actions no. MET/S WG/13-03 and MET/S WG/10-21 for follow-up by the MET SG. [Ref: Report of MET SG/28, para. 2.50.] [Ref: Decision MET SG/28-043]	Secretariat	MET SG/28 final report	IN PROGRESS [Ref: MET/IE WG/23-WP/03]
28/04	Prepare the necessary documentation based on the results in Attachment A of WP/06 for APANPIRG to make a detailed assessment of the shortcomings and deficiencies related to SIGMET service in Afghanistan. [Ref: Report of MET SG/28, para. 3.9.] [Ref: Report of MET SG/29, para. 2.6.]	Secretariat, with support from the ad hoc group on deficiencies	APANPIRG/36	IN PROGRESS
28/05	Forward the identified issues and proposed corrective actions (from Attachment A and B of WP/06) for consideration by the States concerned. [Ref: Report of MET SG/28, para. 3.14.] [Ref: Report of MET SG/29, para. 2.6.]	Secretariat	MET SG/28 final report	IN PROGRESS
28/07	Propose appropriate updates to the SIGMET test procedures to better incorporate the IROG functionality into the annual SIGMET test analysis. [Ref: Report of MET SG/28, para. 3.16.]	Ad hoc group on SIGMET Guide	Aug 2024 – for 2024 APAC SIGMET tests	IN PROGRESS
28/14	Consolidate the SIGMET issuance practices, as shown in Appendix A of WP/12, for potential inclusion in the guidelines on SIGMET Coordination to supplement the Asia/Pacific SIGMET Guide. [Ref: Report of MET SG/28, para. 4.14.]	Ad hoc group on SIGMET coordination	MET/R WG/14	IN PROGRESS
28/18	Facilitate a discussion on the role of MET in the ANS seamless plan, noting that the MET inclusions in the ANS seamless plan did not appear to reflect requirements for en-route meteorological information. [Ref: Report of MET SG/28, para. 4.32.] [Ref: Report of MET SG/29, para. 2.6]	Secretariat	ATM/SG/13	IN PROGRESS COMPLETED [Ref: ATM/SG/13 WP/48 and Report of ATM/SG/13 para. 7.21]
28/21	Incorporate the aerodrome meteorological service requirements as reflected by the information in IP/02, the proposed amendments as presented in Appendices A and B of WP/16, and the change from 24- to 30-hour validity TAF as presented in IP/03, into the next proposal for amendment of the APAC ANP Volume II Tables MET II-2 and MET II-3. [Ref: Report of MET SG/28, para. 5.2., 5.4., 5.5. and 5.9.] [Ref: Report of MET SG/29, para. 2.6.; Ref: MET SG/29, Flimsy2]	Secretariat	Sep 2025	IN PROGRESS COMPLETED [Ref: APAC.II.25/25-MET]

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MET SG/28 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
28/22	Incorporate the specific information related to United States State Volcano Observatories as presented in para. 2.2 of WP/17 in the latest proposal for amendment of the APAC ANP Vol I, Table MET I-1. [Ref: Report of MET SG/28, para. 5.11.] [Ref: Report of MET SG/29, para. 2.6.; Ref: MET SG/29, Flimsy2]	Secretariat	Sep 2025	IN PROGRESS COMPLETED [Ref: APAC.I.25/24-MET]
28/24	Review and report on the outcomes and lessons learned from <i>2021 ICAO APAC Regional Survey on the provision of MET services to support ATM and ATFM</i> ; including tangible actions that have or will be done based on the results of the survey, to assist the MET SG with identifying whether there would be value in conducting another survey. [Ref: Report of MET SG/28, para. 5.14.] [Ref: Report of MET SG/29, para. 2.6.]	MET/R WG	MET SG/29	IN PROGRESS [Ref: ATM/SG/13 IP/11, MET/R WG/15 WP/10 and Decision MET/R WG 15-02]
28/25	Present a paper to the ATM/SG informing the ATM community of the <i>Report on 2021 ICAO APAC Regional Survey on the provision of MET services to support ATM and ATFM</i> that was presented to ATFM/SG/14 and summarising the main outcomes from the report. [Ref: Report of MET SG/28, para. 5.15.] [Ref: Report of MET SG/29, para. 2.6.]	Secretariat, with support from the MET/R WG Chair	ATM/SG/13	IN PROGRESS COMPLETED [Ref: ATM/SG/13 IP/11]
28/27	Inform and discuss with other APANPIRG Sub-Groups such as AOP SG and ATM/SG about the issue of earthquake and tsunami as a potential hazard to aviation, as presented in WP/19, and refer any outcomes back to the MET SG [ACTION 27]. [Ref: Report of MET SG/28, para. 6.15.]	Secretariat	AOP SG/08 and ATM/SG/12	IN PROGRESS [Ref: AOP/SG/8-WP/27; and AOP/SG/8 Report, 9.9-9.15; and ATM/SG/13 WP/48 and Report of ATM/SG/13 para. 7.22]
28/28	Seek more user groups (e.g., IATA, etc.) involvement in the activities of the MET SG, including future MET Seminars. [Ref: Report of MET SG/28, para. 8.4.] [Ref: Report of MET SG/29, para. 2.6.]	Secretariat	MET SG/30	IN PROGRESS
28/29	Expand the agenda for MET SG/29 to include MET exercises, possibly as a sub-item under agenda item 6 or 4, and a new agenda item on environmental-related matters relevant to the MET SG. [Ref: Report of MET SG/28, para. 8.5.] [Ref: Report of MET SG/29, para. 2.6.]	Secretariat and Chair	MET SG/30	IN PROGRESS
28/30	Upload the Seminar presentation recordings and slides, the Q&A, and the feedback summary on the meeting website, and share the Seminar material with the other APANPIRG Subgroups. [Ref: Report of MET SG/28, para. 8.6.]	Secretariat	As soon as possible	IN PROGRESS

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MET SG/27 – List of Actions (previously unresolved action items)

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

MET SG/27 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
27/02	Updates to the ICAO APAC ROBEX Handbook: Coordinate with all the States concerned (ref: MET SG/27, WP/09 and WP/14) to incorporate the proposed updates in the ROBEX Handbook, Sixteenth Edition [ACTION MET SG/27-02] [Ref: Report of MET SG/27, para. 4.4.] Ref: MET/IE WG22, WP/19 Ref: MET/R WG/13 Report, para. 2.09., and MET/R WG/13 action item 03 https://www.icao.int/APAC/Documents/edocs/2024-04_APAC-ROBEX-HB_16TH-ED.pdf	Secretariat	MET SG/29	IN PROGRESS [Updates completed from MET SG/27-WP/09, Appx. A] COMPLETED [Ref: ROBEX HB, 19TH Ed]
27/05	Document of cases of SIGMET coordination: Identify common SIGMET coordination practices from the document of cases of SIGMET coordination in WP/11 and develop further the document to separate the procedural information, which could potentially be used to supplement to the Asia/Pacific Regional SIGMET Guide. [Ref: Report of MET SG/27, para. 4.16.] Ref: MET/R WG/13 Report, para. 2.10., and MET/R WG/13 WP/09 – SIGMET coordination common practices and guidelines	Ad hoc group	MET/R WG/14	IN PROGRESS
27/09	Siem Reap Angkor International Airport (VDSA) – METNO process: Notify the update to the ROBEX system by following the METNO process. [Ref: Report of MET SG/27, para. 5.3.]	Responsible NOC	MET SG/29	TO COMMENCE
27/10	Proposal for amendment of the APAC Air Navigation Plan: Compile a proposal for amendment and to the ANP incorporating amendments in WP/14 and paragraph 5.5. of the Report of MET SG/27 and seek confirmation from the States concerned before circulating the proposal for amendment to States and Organizations for comments and Regional agreement. [Ref: Report of MET SG/27, para. 5.6.] [Ref: Report of MET SG/29, para. 2.6.; MET SG/29, Flimsy2]	Secretariat	Sep 2025	IN PROGRESS COMPLETED [Ref: APAC.I.25/24-MET and APAC.II.25/25-MET]
27/11	MET deficiencies review of 2022 SIGMET test: Utilise the proposed actions in WP/17, Appendix A, when advising States of SIGMET corrective actions. [Ref: Report of MET SG/27, para. 5.9.]	Secretariat	MET SG/29	TO COMMENCE
27/12	Proposed amendment to ICAO Annex 3: Survey States on their needs for implementation support for the proposed amendment to ICAO Annex 3. [Ref: Report of MET SG/27, para. 5.17.]	Secretariat	MET SG/29	TO COMMENCE

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MET SG/26 – List of Actions (previously unresolved action items)

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

MET SG/26 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
26/04	APANPIRG AN Deficiencies – requirements for WAFS forecasts: 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.] Ref: MET SG/27, WP/07 – Review APANPIRG Air Navigation Deficiencies	Secretariat	MET SG/29	IN PROGRESS
26/07	APAC ANP, Volume III amendment – examples from other ICAO Regions: 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.] Ref: MET SG/27, WP/14 – Review of the Asia/Pacific Air Navigation Plan	Secretariat and MET/R WG	MET SG/29	IN PROGRESS
26/08	APAC ANP, Volume II amendment – Nepal: 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.] Ref: MET SG/27, WP/14 – Review of the Asia/Pacific Air Navigation Plan [Ref: Report of MET SG/29, para. 2.6.; MET SG/29, Flimsy2]	Secretariat and Nepal	Sep 2025	IN PROGRESS COMPLETED [Ref: APAC.II.25/25-MET]

MET SG/25 – List of Actions (previously unresolved action items)

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

MET SG/25 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
25/06	Finalise the proposals for amendment of the APAC ANP (Vol I and II) and ROBEX Handbook 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.] Ref: MET SG/27, WP/14 – Review of the Asia/Pacific Air Navigation Plan, and WP/09 – Updates to the ICAO APAC ROBEX Handbook [Ref: Report of MET SG/29, para. 2.6.; MET SG/29, Flimsy2]	Secretariat	Sep 2025	IN PROGRESS COMPLETED [Ref: APAC.II.25/25-MET; ROBEX HB, 19 TH Ed]
25/07	Finalise a proposal for amendment of the APAC ANP (Table MET II-1) and consequential amendment to the APAC Regional SIGMET Guide as necessary to ensure the correct use of FIR indicator for Port Moresby [Ref: para. 4.12.-4.14.]	Secretariat	Sep 2025	IN PROGRESS ANP amendment pending;

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MET SG/25 – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
	Ref: MET SG/27, WP/14 – Review of the Asia/Pacific Air Navigation Plan, and APAC Regional SIGMET Guide, Tenth Edition, uploaded to the ICAO APAC website: https://www.icao.int/APAC/Pages/eDocs.aspx			SIGMET Guide amended, 9 th Ed. COMPLETED [Ref: APAC.II.25/25-MET]
25/09	Review SIGMET Guide 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.]	Ad hoc group	MET SG/29	TO COMMENCE
25/13	Coordinate possible SWX advisory exercise/s and training workshop/s with the appropriate body under METP for [Ref: para. 5.28.] Ref: ICAO APAC webinar on space weather information service (TBD) Ref: Secretariat to coordinate with Australia [MET/IE WG/20 - ACTION 01] Ref: MET/R WG new deliverable #7 to promote user education on SWX service.	Secretariat	MET SG/29	IN PROGRESS

(Former) MET/S WG – List of Actions (previously unresolved action items)

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

(Former) MET/S WG – LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
MET/S WG/13-03	Share information on the update of the IAVW Handbook (due to be published in approx. 3 months) which would realign the guidance on exercise messages with Annex 3.	Secretariat	MET SG/29	Outstanding – IAVW Handbook yet to be published.
MET/S WG/10-21	ANP updates – State Volcano Observatories: Designate an ad-hoc group consisting of the Secretariat and members from the VAACs and RODBs to identify the APAC States with active or potential active volcanoes, which do not have a designated State volcano observatory listed in the APAC ANP, Vol I, Table MET I-1; conduct the necessary coordination to facilitate the States concerned with the designation of a State volcano observatory and listing it in the APAC ANP; coordinate the action above with the development of a comprehensive proposal for amendment of the ANP to reflect APAC States' current requirements for State volcano observatories [Ref: Report of MET/S WG/10, para. 4.17., 8.3. and 8.4.] [Ref: Report of MET SG/29, para. 2.6.; MET SG/29, Flimsy2]	MET/S WG and Secretariat	Sep 2025	IN PROGRESS First part of action complete, second part of action remains outstanding. COMPLETED [Ref: APAC.I.25/24-MET]

APPENDIX C

APANPIRG/36 Conclusions/Decisions – Action Plan (extracted from ATTACHMENT 5 to the APANPIRG/36 Report)

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 36/2 A & B	Action plan for updating of APAC ANP Volume III	That, aligned with the 8th Edition of GANP — subject to its availability by early 2026 for reference, given its significant updates to the ASBU framework — the following action plan is adopted for the revision of the APAC ANP Volume III: a) ICAO Secretariat to incorporate editorial amendments to Part 0 and Part I, with an expected completion date in Q1 2026; b) ICAO Secretariat, in consultation with APANPIRG Sub Groups and other contributory bodies, review and agree with the ASBU elements expected priority for implementation within the APAC Region, with an expected completion date in Q2 2026; c) APANPIRG Sub Groups review and endorse the ASBU elements expected priority for implementation within the APAC Region, with an expected completion date in Q3 2026; and d) Adoption of updated draft APAC ANP Volume III by APANPIRG/37, in Q4 2026.	ICAO RO APANPIRG Sub-Groups	State Letter Action in accordance with the Conclusion.	February 2026
C 36/14 A & B	Publishing MET Seminar Presentation Recordings	That ICAO be requested to make available the MET Seminar presentation recordings.	ICAO RO	State Letter	February 2026
C 36/15 A & B	Management of obsolete planning and implementation guidance documents on the ICAO APAC Office website	That, ICAO take appropriate action to manage (clearly identified as obsolete or remove) the archive of obsolete and historic planning and implementation guidance documents on its website, including those related to MET and other AN fields.	ICAO RO	State Letter	February 2026
C 36/16 A & B	IWXXM update notification process	That, ICAO in coordination with WMO take appropriate action to initiate an IWXXM update notification process for all relevant stakeholders, including IWXXM consumers and system vendors.	ICAO RO	State Letter	February 2026

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Appendix C to WP/02

Conclusion/ Decision No ----- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 36/17 A & B	Sharing of Turbulence Reports with Meteorological Service Providers	That States be urged to: a) In accordance with Annex 3, share special air-reports, with meteorological service providers, including turbulence reports, to support enhanced forecasting and situational awareness; and b) Provide information on the number of special air-reports received each calendar year.	ICAO RO APAC States and Administrations	State Letter Action in accordance with the Conclusion.	February 2026
C 36/18 A & B	Enabling the use of QVA by airlines	That, State Aviation Authorities are urged to consider and plan for the use of quantitative volcanic ash concentration information (QVA).	ICAO RO APAC States and Administrations	State Letter Action in accordance with the Conclusion.	February 2026
C 36/19	Update of information in APANPIRG Air Navigation Deficiencies Reporting Form	That, 1) ICAO to update the APANPIRG Air Navigation Deficiency Database to reflect the information as presented in Appendices A - D to the Report on Agenda Item 4. 2) States/Administrations be urged to: a) establish action plan with defined target dates for resolution of deficiencies, update the status on the corrective action taken and report the progress to the ICAO APAC Office 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 the Report on Agenda Item 4; and b) update contact details of a Focal Point (Appendix E to the Report on Agenda Item 4) to coordinate actions to resolve the Deficiencies.	ICAO RO APAC States and Administrations	State Letter Action in accordance with the Conclusion.	February 2026