

*International Civil Aviation Organization***WORKING PAPER (WP/04)**

ICAO

**ASIA AND PACIFIC (APAC) TWENTY-FOURTH
MEETING OF THE METEOROLOGICAL
INFORMATION EXCHANGE WORKING
GROUP (MET/IE WG/24)**

Nadi, Fiji, 21 to 24 April 2026

Agenda Item 2: Review of Follow-up Actions from Previous Meetings**FOLLOW-UP ACTION FROM APANPIRG/36**

(Presented by the Secretariat)

SUMMARY

This paper reviews APANPIRG/36 outcomes relevant to the MET SG, MET/IE WG, and MET/R WG, including seven Conclusions requiring follow-up on MET planning, IWXXM implementation, turbulence report sharing, QVA readiness, and updates to air navigation deficiencies. It also outlines APANPIRG's decision not to establish a new group for long-standing deficiencies, instead tasking Sub-Group Chairs and the Secretariat with developing coordinated, practical solutions, particularly for PSIDS. The meeting is invited to examine the follow-up status and propose any further actions needed to support continued progress on these APANPIRG/36 outcomes.

1. INTRODUCTION

1.1 The Thirty-sixth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/36), held in Bangkok from 24 to 26 November 2025, adopted fourteen Conclusions and five Decisions (ref: [Report of APANPIRG/36](#))¹.

1.2 Seven of these Conclusions are directly relevant to the work programmes of the MET SG, MET/IE WG and MET/R WG. Five of them were developed from Draft Conclusions prepared by the MET SG and MET/IE WG.

1.3 This meeting will review the follow-up status of these outcomes and identify any additional actions needed for future consideration by the MET SG and APANPIRG.

2. DISCUSSIONAPANPIRG/36 – Conclusions

2.1 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:

¹ <https://www.icao.int/APAC/meetingdocs?fid=7023>

- **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

2.2 Two of these Conclusions originated from proposals originally developed by MET/IE WG/23, namely:

- **Draft Conclusion MET/IE WG/23-01** – Management of obsolete planning and implementation guidance documents on the ICAO APAC Office website; and
- **Draft Conclusion MET/IE WG/23-02** – IWXXM update notification process.

2.3 The follow-up status of these Conclusions is provided in the *APANPIRG/36 Conclusions/Decisions – Action Plan* in **Appendix A**.

APANPIRG Air Navigation Deficiencies

2.4 One Draft Conclusion developed by the MET SG—**Draft Conclusion MET SG/29/08, “Establishment of a Group to Address Long-Standing Air Navigation Deficiencies”**—was not adopted by APANPIRG/36.

2.5 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. The Secretariat will report progress to APANPIRG/37.

2.6 Additional material related to Conclusion 36/19 is provided in:

- the *APANPIRG Reporting Form on Air Navigation Deficiencies in the MET Field* in **Appendix B**; and
- the *List of Focal Points for Air Navigation Deficiencies* in **Appendix C**.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Review the APANPIRG/36 outcomes presented in this paper; and
- b) Identify additional actions, as necessary, to support follow-up on these outcomes.

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APPENDIX A: 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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| 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 |

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APPENDIX B: APANPIRG Reporting Form on Air Navigation Deficiencies in the MET Field (extracted from APANPIRG/36, Appendix D to the Report on Agenda Item 4)

| REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | | | | | |
|--|---|--|---------------------|---|--|---|----------------------------|-----------------------|
| Identification | | Deficiencies | | | Corrective action | | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| MWO and SIGMET service (Annex 3: Chapter 3, 3.4 and Chapter 7) | Democratic Peoples' Republic of Korea (DPRK) (AP-MET-16) | Requirements for MWO and SIGMET service not established for Pyongyang FIR | 2008 | Reported by ICAO Regional Office mission | Establish MWO to provide required service, including SIGMET information for Phnom Penh FIR. See notes below for more information. | GACA, Democratic Peoples' Republic of Korea | TBC | A |
| Meteorological observations and reports. (Annex 3: Chapter 4) | Kiribati (AP-MET-02) | METAR from Kiribati not available on regular basis. | 1998 | Reported by airlines | Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information. | State designated MET authority | TBC | A |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | Kiribati (AP-MET-18) | WAFC forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA-SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information. | State designated MET authority | TBC | U |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | Nauru (AP-MET-19) | WAFC forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA-SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information. | State designated MET authority | TBC | U |
| Meteorological observations and reports. (Annex 3: Chapter 4) | Nauru (AP-MET-21) | METAR/SPECI service not provided | 2008 | Reported by TCB CAEMSA-SP Technical Expert | Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information. | State designated MET authority | TBC | U |
| Provision of SIGMET information (Annex 3, Chapter 7) | Nauru (AP-MET-24) | Lack of SIGMET issued for the Nauru FIR. | Sep 2011 | IATA deemed this situation unsafe and unacceptable to airline operations. | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | State designated MET authority | TBC | U |

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| REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | | | | | |
|---|--|---|------------------------|---|--|---|----------------------------------|-----------------------------|
| Identification | | Deficiencies | | | Corrective action | | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Provision of SIGMET information (Annex 3: Chapter 7) | Nepal (AP-MET-14) | Requirements for issuance and dissemination of SIGMET information for Kathmandu FIR have not been fully implemented | 2000 | | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | State designated MET authority | TBC | A |
| Reporting of information on volcanic eruptions to civil aviation units. (Annex 3, 3.6, 4.8) | Papua New Guinea (AP-MET-04) | Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs. | 1995 | Observed by States concerned. Reported at the WMO/ICAO Workshop on Volcanic Ash Hazards (Darwin, 1995) | Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information. | Rabaul Volcano Observatory, NWS and ASL of Papua New Guinea | TBC | A |
| Provision of SIGMET for volcanic ash (Annex 3: Chapter 7) | Papua New Guinea (AP-MET-08) | Requirements for issuance and proper dissemination of SIGMET for volcanic ash have not been fully implemented | Dec 2003 | Reported by airlines, noted by Volcanic Ash Advisory Centres and confirmed by ICAO mission | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of volcanic ash. See notes below for more information. | NWS of Papua New Guinea | TBC | U |
| Provision of SIGMET information (Annex 3, Chapter 7) | Papua New Guinea (AP-MET-22) | Lack of SIGMET issued for the Port Moresby FIR. | Sep 2011 | IATA deemed this situation unsafe and unacceptable to airline operations. | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | State designated MET authority | TBC | U |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCS (Annex 3: Chapter 9) | Solomon Islands (AP-MET-20) | WAFCS forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA-SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCS. See notes below for more information. | State designated MET authority | TBC | U |
| Reporting of information on volcanic eruptions to civil aviation units. (Annex 3: 3.6, 4.8) | Tonga (AP-MET-17) | Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs | 2008 | Reported by TCB CAEMSA-SP technical expert | Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information. | MOI and MEIDECC | TBC | U |

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| NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | |
|--|------------------|--------------------|---|---------------|
| Index No. | State | Update Date | NOTES ON <u>OPEN AND CLOSED</u> DEFICIENCIES | Status |
| AP-MET-01 | Solomon Islands | December 2020 | Removed from the open List; APANPIRG/31 Conclusion 31/19, refers. | Closed |
| AP-MET-02 | Kiribati | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • Kiribati is now delivering observations regularly but is continuing work on upgrading its observing facility before providing resolution information. | Open |
| | | September 2017 | APANPIRG/28 noted that Kiribati should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-03 | Indonesia | September 2017 | Removed from the open List, APANPIRG/28 Conclusion 28/29 refers. | Closed |
| AP-MET-04 | Papua New Guinea | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). | Open |
| | | November 2022 | APANPIRG/33 noted MET SG/26 recommended that Papua New Guinea: <ul style="list-style-type: none"> • Conduct additional corrective actions, including seeking confirmation from the recipient operational units and providing evidence of the relevant established procedures; and • Submit an official report to ICAO providing complete details of the action taken. | |
| | | September 2017 | APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-05 | – | – | This Index No. is not used. | Closed |
| AP-MET-06 | Indonesia | September 2017 | Removed from the open List, APANPIRG/28 Conclusion 28/29 refers. | Closed |
| AP-MET-07 | Philippines | November 2019 | Removed from the open List, Conclusion APANPIRG/30/19, refers. | Closed |
| AP-MET-08 | Papua New Guinea | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). | Open |
| | | September 2017 | APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-09 | Cambodia | September 2018 | Removed from the open List, APANPIRG/29 Decision 29/23 refers | Closed |

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| NOTES ON THE (OPEN AND CLOSED) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | |
|---|---------------------------------------|----------------|--|-------------|
| Index No. | State | Update Date | NOTES ON OPEN AND CLOSED DEFICIENCIES | Status |
| AP-MET-10 | – | – | This Index No. is not used. | Closed |
| AP-MET-11 | Cambodia | September 2018 | Removed from the open List, APANPIRG/29 Decision 29/24 refers | Closed |
| AP-MET-12 | Lao PDR | September 2018 | Removed from the open List, APANPIRG/29 Decision 29/24 refers | Closed |
| AP-MET-13 | – | – | This Index No. is not used. | Closed |
| AP-MET-14 | Nepal | December 2023 | APANPIRG/34 considered the deficiency could be removed from the Open List subject to receiving confirmation of the regular dissemination of the Kathmandu FIR SIGMET information in IWXXM form (in addition to TAC form) | Open |
| | | September 2023 | MET SG/27 noted that: <ul style="list-style-type: none"> • Nepal made significant progress towards rectification of the deficiency, including confirmation of the regular issuance of SIGMET information in 2022, successful participation in the annual APAC regional SIGMET tests, coordination of SIGMET with neighbouring MWOs, and validation from users of receipt of the SIGMET information. • Nepal was not disseminating SIGMET information in the IWXXM form in addition to the dissemination of SIGMET information in the TAC form, as required by Annex 3. • Nepal was in the process of procuring a solution to provide SIGMET in IWXXM form. • APANPIRG may review the status of the deficiency and remove it from the Open List, subject to Nepal confirming in writing to ICAO, and validated by RODB Bangkok, that the regular dissemination of SIGMET information in IWXXM form in addition to TAC form. | |
| | | September 2017 | APANPIRG/28 noted that Nepal should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-15 | – | – | This Index No. is not used. | Closed |
| AP-MET-16 | Democratic People's Republic of Korea | September 2017 | APANPIRG/28 noted that DPRK should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | Open |
| AP-MET-17 | Tonga | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • Tonga is developing an MOU between organisations involved in providing and sharing volcanic activity information, which includes the procedures to be followed. | Open |
| | | November 2022 | APANPIRG/33 noted MET SG/26 recommended that Tonga: <ul style="list-style-type: none"> • Conduct additional corrective actions, including seeking confirmation from the recipient operational units and providing evidence of the relevant established procedures; and • Submit an official report to ICAO providing complete details of the action taken. | |
| | | September 2017 | APANPIRG/28 noted that: <ul style="list-style-type: none"> • Removal of the Deficiency from the open List is subject to the concurrence of the ATS units, MWOs and VAACs concerned that the Deficiency is resolved. | |

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| NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | |
|---|-----------------|----------------|--|-------------|
| Index No. | State | Update Date | NOTES ON <u>OPEN</u> AND <u>CLOSED</u> DEFICIENCIES | Status |
| | | June 2018 | MET SG/22 noted that: <ul style="list-style-type: none"> VAAC Wellington was coordinating with Tonga on the validation of corrective action taken to resolve the Deficiency. | |
| | | 29 May 2017 | MOI, Civil Aviation Division, advised that: <ul style="list-style-type: none"> Relevant operating procedures implemented in the units concerned and case studies of real volcanic events presented as evidence of the State volcano observatory's issuance of the required volcano observation information. | |
| | | 10 May 2013 | Ministry of Infrastructure (MOI), Civil Aviation Division, advised that: <ul style="list-style-type: none"> MOU established between the national authority providing volcano monitoring (Ministry of Lands, Environment, Climate Change and Natural Resources – MLECCNR) and the national authority providing meteorological service for international air navigation (MOI) for the reporting of volcanic activity to the associated ACCs, MWOs and VAACs in accordance with the relevant ICAO SARPs. | |
| AP-MET-18 | Kiribati | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. | Open |
| | | September 2017 | APANPIRG/28 noted that Kiribati should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-19 | Nauru | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. | Open |
| | | September 2017 | APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-20 | Solomon Islands | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. | Open |
| | | September 2017 | APANPIRG/28 noted that Solomon Islands should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| | | June 2019 | MET SG/23 requested the Secretary in conjunction with support from other States to provide Solomon Islands with assistance in preparing the full report on rectification of the Deficiency. | |
| AP-MET-21 | Nauru | September 2017 | APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | Open |

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| NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION | | | | |
|---|------------------|---------------------------------|---|--------|
| Index No. | State | Update Date | NOTES ON <u>OPEN AND CLOSED</u> DEFICIENCIES | Status |
| AP-MET-22 | Papua New Guinea | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru’s behalf). | Open |
| | | September 2017 | APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-23 | Solomon Islands | November 2022 | Removed from the open List; refer to: <ul style="list-style-type: none"> • Conclusion APANPIRG/33/14 – <i>Update of information in APANPIRG Air Navigation Deficiencies Reporting Form</i>; • APANPIRG/33 WP/14 – <i>STATUS OF AIR NAVIGATION DEFICIENCIES IN THE ASIA/PAC REGION</i>; • APANPIRG/33 WP/13 – <i>METEOROLOGY SUB-GROUP (MET SG/26) REPORT</i>; and • APANPIRG/33 IP/08 – <i>RECTIFICATION OF APANPIRG AN DEFICIENCY AP-MET-23</i> | Closed |
| | | October 2021 | MET SG/25 requested the Solomon Islands, with assistance from its partner States, to conduct additional corrective action to enable the MET SG to confirm that Solomon Islands had fully resolved the Deficiency; maintain a log of all SIGMETs issued over at least one month to capture the operational WC-, WS- and WV-SIGMETs, plus any test WV-SIGMETs; pass the details [of the log] to the ad hoc group [on AN Deficiencies] to compare against SIGMETs received by RODB Brisbane [MET SG/25, Action No. 25/10]. Subject to Solomon Islands demonstrating resolution of the issues concerning content, format and timeliness of SIGMET information (as discussed in MET SG/25, WP/12) and sustainable provision of ICAO-compliant SIGMET service, MET SG would support the removal of Deficiency AP-MET-23 from the APANPIRG open list. Therefore, to facilitate the removal of the Deficiency from the open List, MET SG/25 requested the Secretariat coordinate with the Solomon Islands to report the resolution of the Deficiency to APANPIRG [MET SG/25, Action No. 25/11]. | |
| | | June 2019 September 2017 | MET SG/23 requested the Secretary in conjunction with support from other States to provide Solomon Islands with assistance in preparing the full report on rectification of the Deficiency. APANPIRG/28 noted that Solomon Islands should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |
| AP-MET-24 | Nauru | September 2023 | MET SG/27 was informed that: <ul style="list-style-type: none"> • VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru’s behalf). | Open |
| | | September 2017 | APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. | |

Acronyms/Abbreviations/Definitions (used in this document)

| | |
|-----------|--|
| ACC | — Area control centre |
| ASL | — Air Services Ltd. |
| ATS | — Air traffic services |
| CAEMSA-SP | — Cooperative Agreement for the Enhancement of Meteorological Services to Aviation - South Pacific |
| CAP | — Corrective action plan |
| FIC | — Flight information centre |
| FIR | — Flight information region |
| GACA | — General Administration of Civil Aviation |
| IATA | — International Air Transport Association |
| MEIDECC | — Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communication |
| MET | — Meteorological |
| METAR | — Aerodrome routine meteorological report (<i>in meteorological code</i>) |
| MWO | — Meteorological watch office |
| NWS | — National Weather Service |
| SIGMET | — Information issued by a meteorological watch office concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations |
| SPECI | — Aerodrome special meteorological report (<i>in meteorological code</i>) |
| TBC | — To be confirmed |
| TCB | — Technical Cooperation Bureau (of ICAO) |
| VAAC | — Volcanic ash advisory centre |
| WAFC | — World area forecast centre |

APPENDIX C: LIST OF FOCAL POINT FOR AIR NAVIGATION DEFICIENCIES (extracted from APANPIRG/36, Appendix E to the Report on Agenda Item 4)

| STATE/ADMINISTRATION | FOCAL CONTACT PERSON |
|--|---|
| Afghanistan | <p>Name: Mr. Mohammad Hamid Amiry Designation: Aerodrome Certification Inspector Address: Ministry of Transport & Aviation (MoTA) Tel: +0786888011 Email: mhamidamiry@gmail.com;</p> |
| Australia | <p>Name: Mr. Brad Parker Designation: Section Manager CNS/ATM Address: Civil Aviation Safety Authority Tel: +61 2 6217 1694 Email: Brad.parker@casa.gov.au;</p> |
| Bangladesh | <p>Name: Ms. Sabera Rahman Designation: Deputy Director (ATM) Address: Civil Aviation Authority of Bangladesh Air Traffic Management Division Tel: – Fax: – Email: sabera_atm@caab.gov.bd;</p> |
| Bhutan | <p>Name: Mr. Kencho Tshering Designation: AIS Officer Address: Bhutan Civil Aviation Authority Tel: +975 08271347 Email: ktshering@bcaa.gov.bt;</p> |
| <i>Alternate</i> | <p>Name: Mr. Karma Yonten Designation: Offtg. Chief, ANSD Address: Department of Air Transport Tel: +975 08272760 Email: kyonten@doat.gov.bt;</p> |
| Brunei Darussalam | <p>Name: Mr. Mohamad Fauzi bin Mohamad Sidek Designation: Acting Deputy Director of Civil Aviation (Regulator) Address: Department of Civil Aviation, Brunei Darussalam Tel: +673 2330142 Mob: +673 8168909 Email: fauzi.sidek@dca.gov.bn; ddca.regulatory@dca.gov.bn;</p> |
| Brunei Darussalam <i>Alternate</i> | <p>Name: Mr. Pengiran Rasman bin Pengiran Sulaiman Designation: Aerodrome Inspector</p> |

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| STATE/ADMINISTRATION | FOCAL CONTACT PERSON |
|---|---|
| | <p>Address: Department of Civil Aviation, Brunei Darussalam</p> <p>Tel: +673 2330142</p> <p>Mob: +673 8854714</p> <p>Email: rasman.sulaiman@dca.gov.bn;</p> |
| | <p>Name: Ms. Norhidayah Haji Ismail</p> <p>Designation: Air Traffic Control Officer</p> <p>Address: Department of Civil Aviation, Brunei Darussalam</p> <p>Tel: +673 2330142</p> <p>Mob: +673 883 4614</p> <p>Email: norhidayah.ismail@civil-aviation.gov.bn;</p> |
| Cambodia | <p>Name: Mr. Oun Makara</p> <p>Designation: Chief of Air Traffic Service Air Navigation Standard and Safety Department</p> <p>Address: State Secretariat of Civil Aviation Cambodia</p> <p>Tel: +855 69 775 161</p> <p>Email: anssd.ssca@gmail.com;</p> |
| China | <p>Name: Ms. Zhang Ying</p> <p>Designation: Engineer of AirSpace Management Division</p> <p>Address: Air Traffic Management Bureau, CAAC</p> <p>Tel: +86 (10) 8778 6837</p> <p>Fax: +86 (10) 2778 6830</p> <p>Email: zhangying@atmb.net.cn;</p> |
| Hong Kong, China | <p>Name: Mr. Carl Li</p> <p>Designation: Acting Senior Safety Officer</p> <p>Address: 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong China</p> <p>Tel: +852 2910 6442</p> <p>Fax: +852 2910 0186</p> <p>Email: chwli@cad.gov.hk;</p> |
| Macao, China | <p>Name: —</p> |
| <i>Alternate</i> | <p>Name: Mr. Lam Tat Ming</p> <p>Designation: Director of Airport Infrastructure & Air Navigation</p> <p>Address: Civil Aviation Authority of Macao Alameda Dr. Carlos D'Assumpção, 336-342, Centro Comercial Cheng Feng, 18 Andar, Macao, China</p> |
| | <p>Tel: +853 2851 1213</p> <p>Fax: +853 2833 8089</p> <p>Email: taftlam@aacm.gov.mo;</p> |
| Macao, China <i>Alternate</i> | <p>Name: Mr. Lo Veng Tong</p> <p>Designation: Safety Officer of Airport Infrastructure & Air Navigation</p> |

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| | Address: Civil Aviation Authority of Macao Tel: +853 8796 4132 Fax: +853 2833 8089 Email: freemanlo@aacm.gov.mo ; |
| Fiji Islands | Name: Ms. Alisi Namoro Designation: Executive Manager Ground Safety Address: Civil Aviation Authority of the Fiji Islands Tel: +679 8923155 Mob: +679 9984498 Email: emgs@caaf.org.fj ; |
| India | Name: Mr. Moosa Thudhathifanuge Designation: Executive Director (ATM-Air Space Management) Address: Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003 Tel: +91 11 20819167 Fax: +91 11 24610528 Mob: +91 9447166566, +91 8075078714 Email: edasm@aai.aero ; |
| Indonesia | Name: Mr. Wahyudi Nugroho Designation: Head of Standardization of Air Navigation Section Address: Directorate General of Civil Aviation, Ministry of Transportation Email: wahyudinugroho2012@gmail.com ; |
| | Name: Mr. Tian Kusdinar Designation: Head of Air Traffic Management Section Address: Directorate General of Civil Aviation, Ministry of Transportation Email: tian231182@gmail.com ; |
| Japan | Name: Ms. Hanae NODA Designation: Special Assistant to the Director Address: Air Traffic International Affairs Office Japan Civil Aviation Bureau Ministry of Land, Infrastructure Transport and Tourism Tel: +81 3 5253 8740 |
| | Fax: +81 3 5253 1664 Email: noda-h46nk@mlit.go.jp ; |
| Kiribati | Name: Mr. Tiamwa Teaiwa Designation: Air Navigation and Aerodrome Inspector Address: Civil Aviation Authority of Kiribati Tel: 686 74026003 |

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| STATE/ADMINISTRATION | FOCAL CONTACT PERSON |
|------------------------------------|--|
| | Email: ans.ai@mcttd.gov.ki ; |
| Lao PDR | Name: Mr. Sohnsacksit Khamkeo Designation: Director of Air Navigation Standards Division Address: Department of Civil Aviation of Laos Wattay International Airport, P.O.Box 119, Vientiane Mob: +856 20 22499936 Email: sohnsacksit@yahoo.com ; saykhamkeo@gmail.com ; |
| Malaysia | Name: Mr. Raja Amsyar Hillman Bin Raja Badrul Hisham Designation: Deputy Director Air Navigation Services and Aerodrome Division Address: Civil Aviation Authority of Malaysia Level 1-4, Block Podium, 62618 Putrajaya ,Malaysia Tel./Mob: - Email: r.amsyarhillman@caam.gov.my ; |
| Maldives | Name: Mrs. Fathimath Ramiza Designation: Director, Air Navigation and Aerodromes Address: Maldives Civil Aviation Authority 11 th Floor, Velaanaage, Ameeru Ahmed Magu, Male' 20096, Maldives Tel: +960 332 4983 Fax: +960 332 3039 Email: ramiza@caa.gov.mv ; |
| Mongolia | Name: Mr. Odgerel Davaadorj Designation: Senior officer of the Air Navigation Services Department Address: Civil Aviation Authority of Mongolia 17120 Buyant Ukhaa, Khan Uul District, Ulaanbaatar Tel: +976 11 282081 Fax: +976 7004 9640 Email: odgerel@mcaa.gov.mn ; |
| Myanmar | Name: Mr. Soe Paing Designation: Director (Air Navigation Safety) Address: Department of Civil Aviation Myanmar Tel: +95 1 533008 |
| | Fax: +95 1 533000 Email: soepng1@gmail.com ; |
| Myanmar <i>Alternate</i> | Name: Mr. Thein Naing Designation: Deputy Director (ANSD) |

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|-------------------------|---|
| | <p>Address: Department of Civil Aviation DCA Headquarters Building, P.O. Box 11021, Mingaladon, Myanmar</p> <p>Tel: +95 1 533215</p> <p>Fax: +95 1 533016</p> <p>Email: ansd.myanmar@gmail.com; chittwo975.c@gmail.com;</p> |
| New Zealand | <p>Name: Mr. Sean Rogers</p> <p>Designation: Head of Aeronautical Services</p> <p>Address Civil Aviation Authority of New Zealand P.O. Box 3555, Wellington 6140</p> <p>Tel: / Mob: +64 (4) 560 9522 / +64 27 807 4875</p> <p>Fax: +64 4 569 2024</p> <p>E-mail: Aeronautical.Services@caa.govt.nz;</p> |
| Nepal | <p>Name: Mr. Dinesh Raj Ghimire</p> <p>Designation: Deputy Director, Air Traffic Management Department</p> <p>Address Civil Aviation Authority of Nepal (CAAN) Kathmandu, Nepal</p> <p>Tel: +977 1 4266139</p> <p>Fax: +977 1 4262516</p> <p>Mob: +977 9841216175</p> <p>E-mail: dineshr.ghimire@caanepal.gov.np; dnghimire@gmail.com;</p> |
| Pakistan | <p>Name: Mr. Muhammad Iftikhar Ahmed</p> <p>Designation: Additional Director Airspace and Air Navigation Standards</p> <p>Address Civil Aviation Authority of Pakistan Inspectorate building, DAAR HQCAA Termina-1 JIAP-Karachi</p> <p>Tel: +922199072665</p> <p>Mob: +923334467042</p> <p>E-mail: AdIDAAR.AANS@caapakistan.com.pk;</p> |
| Papua New Guinea | <p>Name: Mr. Percy Hosea Sukbat</p> <p>Designation: Executive Manager, Aviation Facilities Division</p> <p>Address Civil Aviation Safety Authority of PNG P.O. Box 1941, Boroko, N.C.D.</p> <p>Tel: +675 3257320</p> <p>E-mail: psukbat@casapng.gov.pg;</p> |
| Philippines | <p>Name: Ms. Marlene I. Singson</p> <p>Designation: Assistant Director General II, Air Traffic Service</p> <p>Address Civil Aviation Authority of the Philippines</p> |

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|--------------------------|---|
| | E-mail: ats_misingson@caap.gov.ph ; Name: Ms. Melba S. Acurantes Designation: Department Manager III, ATPPD Address: Civil Aviation Authority of the Philippines E-mail: Atppd_chief@caap.gov.ph ; |
| <i>Alternate</i> | |
| Republic of Korea | Name: Mr. Kyutae Kim Designation: Assistant Director of Air Traffic Division Address: Ministry of Land, Infrastructure and Transportation (MOLIT) E-mail: kimkt23@korea.kr ; |
| Singapore | Name: Mr. Hermizan Jumari Designation: Deputy Director (Planning), ATS Address: Civil Aviation Authority of Singapore Singapore Changi Airport, P.O. Box 1, Singapore 918141 E-mail: hermizan_jumari@caas.gov.sg ; |
| <i>Alternate</i> | |
| | Name: Mr. Roger Lau Designation: Senior Chief (ATM), ATS Address: Civil Aviation Authority of Singapore Singapore Changi Airport, P.O. Box 1, Singapore 918141 E-mail: roger_lau@caas.gov.sg ; |
| Sri Lanka | Name: Mr. Rohan Manukulasooriya Designation: Head of Section - Air Navigation Services Address: Civil Aviation Authority of Sri Lanka No. 64, Galle Road, Colombo 3 Tel: +94 (11) 235 8910 E-mail: hosans@caa.lk ; |
| Thailand | Name: Mr. Kajonpat Maklin Designation: Deputy Director General Address: The Civil Aviation Authority of Thailand (CAAT) Tel: +662 568 8800 E-mail: kajonpat.m@caat.or.th ; |
| <i>Alternate</i> | |
| | Name: Ms. Tawika Huayhongthong Designation: Manager of Air Navigation Services Standards Department Address: The Civil Aviation Authority of Thailand (CAAT) Tel: +662 568 8824 E-mail: tawika.h@caat.or.th ; |
| Timor-Leste | Name: Mr. Carlito Noronha Designation: - Address: Civil Aviation Authority of Timor-Leste |

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|----------------------|--|
| | E-mail: manewalun88@gmail.com ; |
| Tonga | Name: Dr. Vinolia Salesi Designation: Director for Civil Aviation Address: Ministry of Infrastructure – Civil Aviation Division Tel: + 676 28 024 E-mail: vinolia.fifita@gmail.com ; vfifita@infrastructure.gov.to ; |
| United States | Name: Mr. Shayne Campbell Designation: Senior Air Traffic Representative, Asia Pacific Address: Federal Aviation Administration American Embassy Singapore 27 Napier Road, Singapore 258508 Tel: +65 8909-1136 E-mail: Shayne.A.Campbell@faa.gov ; |
| Viet Nam | Name: Mr. Mai Manh Hung Designation: Director, Air Navigation Department Address: Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Bo De Ward Ha Noi 10000 Tel: +84 912 808367 Fax: +84 24 38271933 E-mail: maimanhhung@caa.gov.vn ; |
| <i>Alternate</i> | Name: Mr. Nguyen Duong Designation: Director, Airport Management Department Address: Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Bo De Ward Ha Noi 10000 Tel: +84 24 38727912 Fax: +84 24 38271933 E-mail: nguyenduong@caa.gov.vn ; |