



ICAO

*International Civil Aviation Organization***WORKING PAPER****Tenth Meeting of the Asia/Pacific Meteorological Requirements Working Group (MET/R WG/10)**

Online, 24 -28 May 2021

Agenda Item 4: Review of outcomes from related meetings**FOLLOW-UP ACTION FROM MET SG/24**

(Presented by the Secretariat)

SUMMARY

This paper presents a summary of outcomes from the Twenty-Fourth Meeting of the Meteorology Sub-group (MET SG/24). The meeting will consider further actions for MET/R WG, as necessary, to support the work of MET SG.

1. INTRODUCTION

1.1 The ICAO Asia and Pacific (APAC) Office hosted the Twenty-Fourth Meeting of the Meteorology Sub-group (MET SG/24), online, from Bangkok, Thailand from 16 to 20 November 2020.

1.2 The meeting will review a summary of outcomes from MET SG/24 and consider further actions for MET/R WG, as necessary, to support the work of MET SG.

2. DISCUSSION

2.1 The report from MET SG/24, and all related meeting documentation, is available at the ICAO APAC Office website (www.icao.int/apac>Meetings>Meeting List-2020>MET SG/24).

MET SG/24 – Draft Conclusions and Draft Decisions

2.2 MET SG/24 formulated four (4) Draft Conclusions and one (1) Draft Decision, for further consideration by the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG), as follows:

- Draft Conclusion MET SG/24-02: *APAC Regional Air Navigation Plan (ANP), Volume III*
- Draft Conclusion MET SG/24-04: *Resolution of Air Navigation Deficiency AP-MET-01*
- Draft Conclusion MET SG/24-06: *0.25 degree WAFS hazard data*
- Draft Conclusion MET SG/24-10: *Implementation of IWXXM*
- Draft Decision MET SG/24-17: *Updates to terms of reference and work plan of MET SG*

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2.3 Further discussion on the outcomes of APANPIRG's consideration of the above Draft Conclusions and Draft Decision is presented in a separate working paper for this meeting, WP/04 – *Follow-up action from APANPIRG/31*.

MET SG/24 – Conclusions and Decisions

2.4 MET SG/24 adopted six (6) Conclusions for the attention of States or action by the ICAO, eight (8) Decisions related to the internal working arrangements of the MET SG, as follows:

- Decision MET SG/24-01: *Updates to legacy FASID Table information*
- Conclusion MET SG/24-03: *Survey of State Meteorological Information Supporting Air Traffic Management*
- Decision MET SG/24-05: *MET Deficiencies*
- Decision MET SG/24-07: *November 2023 WAFS and SADIS Upgrades*
- Conclusion MET SG/24-08: *Volcanic Ash Information Conflict Reduction*
- Conclusion MET SG/24-09: *IWXXM Survey and Online Workshop*
- Conclusion MET SG/24-11: *IWXXM Exchange Approach*
- Conclusion MET SG/24-12: *Development of Online Register of the status of IWXXM Exchange*
- Decision MET SG/24-13: *Development of APAC User Requirements for SWIM-based MET Information Services Supporting ATFM*
- Decision MET SG/24-14: *Updates to Regional SIGMET Guide*
- Decision MET SG/24-15: *Updates to ROBEX Handbook*
- Decision MET SG/24-16: *Updates to Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*
- Decision MET SG/24-18: *Updates to terms of reference and work plan of and MET/R WG, MET/IE WG and MET/S WG*
- Conclusion MET SG/24-19: *Amendments to Regional Guidance to reflect changes to location indicators for Hanoi FIR and Ho Chi Minh FIR*

2.5 For reference, a full copy of the above MET SG/24 Conclusions and Decisions is provided at the **Appendix A** to this paper. The following paragraphs discuss the MET SG/24 Conclusions and Decisions which are of direct relevance to the MET/R WG.

2.6 In Conclusion MET SG/24-03: *Survey of State Meteorological Information Supporting Air Traffic Management*, the MET SG approved the proposed terms of reference and the survey questionnaire (developed by the ad hoc group of MET/R WG) for circulation to (APAC) States to respond in early 2021. This work is further discussed in a separate working paper for this meeting, WP/06 – *Survey of State Meteorological Information Supporting Air Traffic Management*.

2.7 In Decision MET SG/24-13: *Development of APAC User Requirements for SWIM-based MET Information Services Supporting ATFM*, the MET SG approved the terms of reference regarding the scope and objectives of the MET/R ad hoc group to develop SWIM-based MET information services specifically addressing the needs of ATFM in the APAC Region. This work is further discussed in a separate working paper for this meeting, WP/07 – *Use case and requirements for SWIM-based MET information services*.

2.8 In Decision MET SG/24-16: *Updates to Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations*, the MET SG approved proposed updates to the APAC Regional Guidance (to include updated examples from Hong Kong, China, Republic of Korea and Singapore and make a few improvements to the main part of document) for use by States and publishing on the ICAO APAC Office website. Subsequent development of this work is further

discussed in a separate working paper for this meeting, WP/05 – *Updates on APAC Regional Guidance for Tailored Meteorological Information and Services to Support Air Traffic Management Operations*.

2.9 In Decision MET SG/24-18: *Updates to terms of reference and work plan of and MET/R WG, MET/IE WG and MET/S WG*, the MET SG approved the updated terms of reference and work plan of the MET/R WG. The MET/R WG terms of reference and work plan is presented and further discussed in a separate working paper for this meeting, WP/08 – *Review the Work Program and Terms of Reference*.

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to review the outcomes from MET SG/24, as discussed above, and consider further actions for the MET/R WG, as necessary, to support the work of the MET SG.

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APPENDIX A**MET SG/24 Conclusions and Decisions**

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| Decision MET SG/24-01: Updates to legacy FASID Table information | |
| What: That, ICAO and States update and incorporate the required information from the legacy Facilities and Service Implementation Document (FASID) Tables relating to meteorology, into existing ICAO APAC regional guidance documentation as follows: | |
| FROM: Legacy FASID Table | TO: Existing APAC regional guidance |
| Table MET 2A - OPMET Information (METAR, SPECI and TAF) Required in SADIS and WIFS | APAC ROBEX Handbook |
| Table MET 3A - Tropical cyclone advisory centres | APAC Regional SIGMET Guide |
| Table MET 3B - Volcanic ash advisory centres | APAC Regional SIGMET Guide |
| Chart MET 1 - Areas of Responsibility of the TCACs | APAC Regional SIGMET Guide |
| Chart MET 2 - Map of Areas of Responsibility of VAAC and Corresponding FIR | APAC Regional SIGMET Guide |
| Why: To provide States with access to required up to date information, previously contained in the legacy ANP, FASID Tables, and not replicated in the current APAC ANP, based on June 2014, ICAO Council approved common template to be used for Regional ANPs. | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: As soon as practicable | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: | |

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| Conclusion MET SG/24-03: Survey of State Meteorological Information Supporting Air Traffic Management | |
| What: That, the MET SG approve the proposed terms of reference and the survey questionnaire at the Appendix 6 to the MET SG/24 Report and inform ATM SG/8 in November 2020 and then circulate the survey questionnaire for States to respond in early 2021. | |
| Why: To inform ICAO (and States) of the provision of current and future meteorological (MET) information services by States specifically to support Air Traffic Management (ATM), in particular Air Traffic Flow Management (ATFM). | |
| 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 | |
| Follow-up: <input checked="" type="checkbox"/> Required from States | |
| When: Early 2021 | Status: Adopted by Subgroup |
| 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: MET/R WG | |

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| Decision MET SG/24-05: MET Deficiencies | |
| What: That a MET/S WG ad hoc group be formed* to work with relevant members of the MET/IE WG and, utilizing the guidance in the APANPIRG Procedural Handbook, Part V: <i>Uniform methodology for the identification, assessment and reporting of air navigation shortcomings and deficiencies</i> and other relevant ICAO documentation, assist the ICAO Secretariat with the following: | |
| <ol style="list-style-type: none"> a) Define a process, based on the APANPIRG Procedural Handbook, for identifying, analysing, removing and proposing MET Deficiencies; b) Develop templates to be used for Deficiency Corrective Action Plans (CAP), Progress Reports and Final Reports; | |

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| c) Develop thresholds for Deficiencies based on OPMET Monitoring performance indicators and SIGMET testing; d) Review the analysis of the annual, and any ad hoc, OPMET Monitoring, and SIGMET Tests against agreed thresholds; e) Identify deficiencies from the OPMET Monitoring and SIGMET Test analysis, along with other tests and exercises, mission reports, analysis of differences against ICAO provisions, aircraft accident and incident reports and reports provided by users of air navigation services; f) Work with States concerned to develop a CAP, arrange for testing and monitoring and assist with the reporting to ICAO on the resolution of air navigation deficiencies; and g) Report recommended updates to MET Deficiencies, through MET/S WG, to MET SG. | |
| Why: To optimize the MET SG assistance to APANPIRG towards the identification and resolution of specific air navigation deficiencies in the field of aeronautical meteorological (MET) services. | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET/S WG | |

*Ad hoc group Members (alphabetical order, surname):

- Paula ACETHORP, *Rapporteur* (New Zealand)
- CHEONG Wee Kiong (Singapore, RODB Singapore)
- Jarrad DENMAN (Australia, VAAC Darwin)
- Mike GRAF (United States)
- Keiko ITO (Japan)
- Christy Y.Y. LEUNG (Hong Kong, China)
- Sujin PROMDUANG (Thailand, ROC Bangkok)
- THAM Yap Fung (Singapore, RODB Singapore)
- Kentaro TSUBOI (Japan, RODB Tokyo)

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| Decision MET SG/24-07: <i>November 2023 WAFS and SADIS Upgrades</i> | |
| What: That MET/S WG develops appropriate actions to facilitate WAFS and SADIS user States' preparations for the proposed WAFS and SADIS changes planned for November 2023. | |
| Why: Significant changes to the data provided on SADIS are coming in November 2023 | |
| 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 | |
| Follow-up: <input checked="" type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| 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: | |

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| Conclusion MET SG/24-08: <i>Volcanic Ash Information Conflict Reduction</i> | |
| What: That the ICAO APAC Volcanic Ash Exercises Steering Group (VOLCEX/SG) supports the Informal South Pacific ATS Coordination Group in conducting a workshop to discuss proactive measures which could be used to minimise the likelihood of conflicting volcanic ash information. | |
| Why: To support aviation safety during volcanic eruptions, by reducing the likelihood of conflicting volcanic ash information being supplied to aviation. | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: On request from ISPACG (likely 2021) | Status: Adopted by Subgroup |

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| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: | |
| Conclusion MET SG/24-09: IWXXM Survey and Online Workshop | |
| What: That MET/IE, organize and conduct another regional survey on the following: a) Status of States' progress on the planning and implementation of the following: i. dissemination of meteorological information in IWXXM GML form; and ii. AFS connections supporting AMHS with FTBP and IHE; and b) States' requirements for another Regional IWXXM-specific seminar or workshop during 2021. | |
| Why: Amendment 79 to Annex 3 specifies that, applicable from 5 November 2020, States shall disseminate specific meteorological information (i.e., METAR/SPECI, TAF, SIGMET, AIRMET and volcanic ash, tropical cyclone and space weather advisory information) in IWXXM GML form. To date, it is apparent that few States (in APAC) are currently operationally exchanging IWXXM formatted data. | |
| Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical | |
| Follow-up: <input checked="" type="checkbox"/> Required from States | |
| When: Now | Status: Draft to be 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: | |
| Conclusion MET SG/24-11: IWXXM Exchange Approach | |
| What: That, IWXXM exchange in APAC Region shall be aligned with <i>Guidelines for the Implementation of OPMET Data Exchange using IWXXM</i> (fourth edition, November 2020) and, specifically, that Regional OPMET Centres (ROCs) are responsible for the distribution of all types of IWXXM formatted OPMET data to States within the Asia Pacific Region. | |
| Why: While the ICAO provisions for the dissemination of meteorological information in both TAC and IWXXM form coexist, due to technical differences between the old and new formats, the Regional OPMET exchange scheme for IWXXM formatted data shall necessarily differ from the traditional OPMET exchange scheme for TAC messages. | |
| 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 | |
| Follow-up: <input checked="" type="checkbox"/> Required from States | |
| When: As soon as practicable | Status: Adopted by Subgroup |
| 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: MET/IE WG | |
| Conclusion MET SG/24-12: Development of Online Register of the status of IWXXM Exchange | |
| What: That, the MET SG supports the development of an online register of the status of IWXXM exchange in the APAC Region to collate and maintain reliable information about implementation status of AMHS and FTBP between the annual ROBEX Handbook update, and to facilitate the States to identify the possible alternate dissemination paths for IWXXM exchange so that ROCs could distribute the IWXXM to other capable ROCs in the APAC region as far as possible. | |
| Why: ROCs need a channel to share timely updates of their status of implementation of IWXXM exchange, including their IWXXM-capable AMHS addresses and readiness to receive IWXXM, supported file size, AMHS status and the status in transmitting NOC's IWXXM report. | |
| 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 | |
| Follow-up: <input checked="" type="checkbox"/> Required from States | |
| When: As soon as practicable | Status: Adopted by Subgroup |
| 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: MET/IE WG | |

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| Decision MET SG/24-13: <i>Development of APAC User Requirements for SWIM-based MET Information Services Supporting ATFM</i> | |
| What: That, the MET SG approves the terms of reference at the Appendix 8 to the MET SG/24 Report regarding the scope and objectives of the MET/R ad hoc group to develop SWIM-based MET information services specifically addressing the needs of ATFM in the APAC Region. | |
| Why: To support efforts for effective MET/ATM integration, provide the baseline for further development of the regional SWIM data catalogue and service catalogue and support the development of future MET Information Exchange Services in the Region | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: As soon as practicable | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET/R WG | |

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| Decision MET SG/24-14: <i>Updates to Regional SIGMET Guide</i> | |
| What: That, the MET SG approves the updates to the SIGMET Guide presented in Appendix 9 to the MET SG/24 Report for use by States and publishing on the ICAO APAC Office website. | |
| Why: To realign the SIGMET Guide with the Amendment 79 to Annex 3, update the SIGMET test procedure, reflect changes to MWOs designated by Australia, apply minor corrections and include the legacy ANP FASID Table information (ref: Decision MET SG/24-1). | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: MET/S WG | |

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| Decision MET SG/24-15: <i>Updates to ROBEX Handbook</i> | |
| What: That, the MET SG approves the updates to the ROBEX Handbook at the Appendix 10 to the MET SG/24 report for use by States and publishing on the ICAO APAC Office website. | |
| Why: To (a) reflect changes made by Australia, Republic of Korea and Thailand to ROBEX Bulletins compiled by Regional OPMET Centres (ROCs) Brisbane (YBBN) (effective on 5 November 2020), Incheon (RKSI) and Bangkok (VTBB) (effective on 14 May 2020); (b) align the “Changes to OPMET Bulletin Procedures” (METNO procedures) with the equivalent procedures in the ICAO EUR Region; and update the States’ ROBEX Focal Point information; (c) include the information from the legacy ANP FASID Tables (ref: Decision MET SG/24-1); and include a link to the online register provided by the APAC ROCs for IWXXM-exchange-capability (ref: Conclusion MET SG/24-12) | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET/IE WG | |

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| Decision MET SG/24-16: <i>Updates to Regional Guidance for Tailored Meteorological Information and Services to Support ATM Operations</i> | |
| What: That, the MET SG approve the proposed updates to the APAC Regional Guidance for Tailored Meteorological Information and Services to Support Air Traffic Management Operations at the Appendix 11 to the MET SG/24 report for use by States and publishing on the ICAO APAC Office website. | |

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| Why: To provide States with updated examples from Hong Kong, China, Republic of Korea and Singapore and make a few improvements to the main part of document published for use by States the ICAO APAC eDocuments website (https://www.icao.int/APAC/Pages/eDocs.aspx). | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET/R WG | |

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| Decision MET SG/24-18: <i>Updates to terms of reference and work plan of MET/R WG, MET/IE WG and MET/S WG</i> | |
| What: That, the MET SG approve the updated terms of reference and work plan documents for MET/R WG, MET/IE WG and MET/S WG at the Appendix 3, Appendix 4 and Appendix 5 to the Report of MET SG/24. | |
| Why: To ensure alignment of the work of the MET SG and it's contributory bodies. | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET WGs | |

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| Conclusion MET SG/24-19: <i>Amendments to Regional Guidance to reflect changes to location indicators for Hanoi FIR and Ho Chi Minh FIR</i> | |
| What: That, Vietnam in coordination with the Secretariat, initiate appropriate proposals for amendment of Regional Guidance Material and the APAC ANP to reflect the current requirements in Vietnam concerning the location indicators for Hanoi FIR and Ho Chi Minh FIR. | |
| Why: To ensure alignment of the Regional Guidance material with the current requirements in Vietnam | |
| 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 | |
| Follow-up: <input type="checkbox"/> Required from States | |
| When: November 2020 | Status: Adopted by Subgroup |
| Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: MET WGs | |
