



International Civil Aviation Organization

WORKING PAPER

**TWENTIETH MEETING OF THE METEOROLOGY SUB-GROUP
(MET SG/20) OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING
AND IMPLEMENTATION REGIONAL GROUP (APANPIRG)**

Bangkok, Thailand, 6 – 9 June 2016

Agenda Item 3: Review outcomes from other ICAO groups

**REVIEW OF THE TWENTY-SIXTH MEETING OF THE ASIA PACIFIC
AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP**

(Presented by Chair of METSG)

SUMMARY

This paper presents a summary of the Twenty-sixth Meeting of the Asia Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/26), held in the ICAO APAC Regional Office, Bangkok, Thailand, from 7-10 September 2016.

1. INTRODUCTION

1.1 The Twenty-sixth Meeting of the Asia Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/26), held in the ICAO APAC Regional Office, Bangkok, Thailand, from 7-10 September 2016.

1.2 A copy of the report from APANPIRG/26, as well as all related meeting documentation, is available via the ICAO Secure Portal at to this Report and available at APAC web site at <http://www.icao.int/APAC/Meetings/Pages/2015-APANPIRG26.aspx>

2. DISCUSSION

2.1 Outcomes from APANPIRG/25 discussions included a total of 62 Conclusions that deal with matters which, in accordance with the Group's Terms of Reference, require the attention of States or actions by ICAO in accordance with established procedures, and 5 Decisions that deal with matters of concern only to the APANPIRG and its contributory bodies. These included at least 18 Conclusions and 2 Decisions that can be considered of direct or indirect relevance to the MET SG.

2.2 The Conclusions and Decisions formulated by APANPIRG/26 or indirect relevance to the MET SG as follows:

2.2.1 Conclusion APANPIRG/26/2 — Adoption of the ASIA/PAC eANP

That, the following text parts and tables for Volume I and Volume II of the APAC e-ANP is endorsed and Volume III is adopted and invite ICAO to process the PfAs

(Proposal for amendments) for Volume I and Volume II of e ANP in accordance with the established procedures:

- a) In AOP field: Appendices A and B to [APANPIRG/26]WP/6;
- b) In ATM field: Appendices E, G, H, K, L and P to [APANPIRG/26]WP/7;
- c) In CNS field: Appendices R1, R2, R3, S1, S2, S3, S4, S5, S6 and S7 to [APANPIRG/26]WP/9;
- d) In MET field: Appendices B & C to [APANPIRG/26] WP/10 plus updates provided in Flimsy no 1.

Status: PfA for Vol I was circulated in ICAO letter T11/2.1-AP0170/15, dated 10 December 2015, and approved in T11/2.1-AP034/16, dated 29 February 2016; PfA for Vol II was circulated in ICAO letter T11/2.1-AP010/16, dated 18 January 2016, and approved in T11/2.1-AP051/16, dated 11 April 2016; Vol III version adopted by APANPIRG Conclusion 26/2 is expected to be circulated pending current review by ICAO.

2.2.2 **Conclusion APANPIRG/26/14 – Draft Regional ATM Contingency Plan**

That, regarding the Draft Asia/Pacific Regional ATM Contingency Plan version 0.2 attached as APANPIRG/26/WP07/Appendix C:

1. ICAO be requested to make the Draft Regional ATM Contingency Plan available on the Asia/Pacific Regional Office website; and
2. States are urged to consider the following sections of the Draft Regional ATM Contingency Plan in the planning and development of State contingency plans and inter-State contingency agreements, pending finalization of the Regional ATM Contingency Plan:
 - a) Section 7 – Performance Improvement Plan;
 - b) Appendix A – ATM Contingency Planning Principles;
 - c) Appendix B – Basic Plan Elements; and
 - d) Other relevant information and guidance provided in the document.

Status: Completed with ICAO letter T3/10.0–AP130/15, dated 18 September 2015

2.2.3 **Conclusion APANPIRG/26/19 – Volcanic Ash Information Coordination and Collaboration**

That, States are urged to:

- a) establish a mechanism to provide regular and timely updates of information during a volcanic eruption and/or ash cloud event to ensure all stakeholders are up to date with current information, situation reports and contingency planning;
- b) participate in volcanic ash exercises; and
- c) consider establishing an internal crisis management centre where applicable to support the collaborative and timely sharing of information such as volcanic eruptions, or other crises that will have a significant impact on airport and/or airspace management.

Note: This is supplemental to the provisions of Annex 3 and Annex 15.

Status: Completed with ICAO letter T3/10.0–AP130/15, dated 18 September 2015

2.2.4 **Conclusion APANPIRG/26/37 – Need for ionospheric models in the APAC Region**

That, considering that extreme ionospheric gradients were observed in parts of APAC Region through data collection, the need for GBAS threat model is confirmed.

Status: ISTF/6 was informed in January 2016 and CNS SG will be informed in July 2016.

2.2.5 **Conclusion APANPIRG/26/51 — SIGMET Training**

That, ICAO, in coordination with the WMO and relevant States and organizations, considers facilitating urgent, targeted training for aeronautical meteorological service providers designated by States in the APAC Region to improve the quality, reliability and availability of SIGMET information, particularly in States with identified SIGMET deficiencies.

Notes: the following specific recommendations are provided:

- 1) *Follow-up training programme on SIGMET provision for the Solomon Islands (similar to the TAF training programme conducted on a bilateral basis in 2014);*
- 2) *Follow-up on recommendations from previous investigations into SIGMET provision in Pacific Island States (e.g., the diagnostic of MET service provision in Papua New Guinea conducted on a bilateral basis in 2014);*
- 3) *Encourage APAC States, in particular Papua New Guinea and the Solomon Islands, to participate in the Japan/WMO SIGMET Seminar planned for 2016, in coordination with WMO RAI/RAV; and*
- 4) *Coordinate with WMO on the inclusion of possible additional training on SIGMET issuance in the training workshop under the WMO Severe Weather Forecasting Demonstration Project (SWFDP) program.*

Status: In progress; Japan, WMO and ICAO planning SIGMET workshop to be held in Tokyo, Japan, 27-30 June 2016.

2.2.6 **Conclusion APANPIRG/26/52 — SADIS user States and SADIS users to prepare for cessation of SADIS 2G**

That, ICAO be invited to urge SADIS user States and SADIS users to ensure that they are prepared for the cessation of SADIS 2G.

Notes:

- 1) *For those users not yet using, or who have not yet arranged accounts for, Secure SADIS FTP, it is strongly recommended that they undertake actions to migrate to the Secure SADIS FTP service at the earliest opportunity;*
- 2) *Although the SADIS 2G service will continue until 31 July 2016, it is recommended that user's transition is complete and that SADIS 2G is not being used operationally after 1 June 2016; and*
- 3) *Users are encouraged to establish and regularly test backup accounts with the alternative provider to be used in the rare event that their normal service (Secure SADIS FTP or WIFS, as specified by the APAC Regional Air Navigation Plan, FASID Table MET 6) is unavailable.*

Status: Completed with ICAO letter T4/3.8.2—AP149/15, dated 30 September 2015.

2.2.7 **Conclusion APANPIRG/26/53 — Tropical Cyclone Advisory (TCA) and SIGMET messages**

That, ICAO be invited to consider updating the templates for advisory messages for tropical cyclones [Annex 3, Table A2-2] and SIGMET [and AIRMET] messages [Annex 3, Table A6-1A] to facilitate clarity and consistency of the information.

Status: Referred to ANC for further action; Chairperson of the ANC Working Group of the Whole for Strategic Review and Planning suggested Conclusion 26/53 be referred to METP (AN-WP/9025 26/02/2016, refers); ANC considered the Conclusions and Decisions aimed at ICAO Headquarters in Appendix A to AN-WP/9025 (incl. Conclusion 26/53) and agreed to consider the issuance of job cards, if deemed necessary after receiving feedback from relevant expert groups (DRAFT AN Min. 201-11 11/4/16 refers).

2.2.8 **Conclusion APANPIRG/26/54 — Improvement of OPMET data availability**

That, ICAO be invited to urge APAC States to continue efforts to improve the availability of OPMET data for aerodromes listed in FASID Table MET 2A, as soon as possible, including specifically to:

- a) Achieve 95% availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes listed in AOP Tables;
- b) Achieve 90% availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes not listed in AOP Tables; and
- c) Support harmonized availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes.

Status: On hold; ICAO letter to be issued with reference to new Regional ANP Tables MET (pending decision on ongoing management/status of information in FASID Table MET 2A).

2.2.9 **Conclusion APANPIRG/26/55 — IWXXM and AMHS Survey**

That, ICAO be invited to urge States to complete the survey, located at APANPIRG/26 WP/10 Appendix D, prior to 30 October 2015 to provide information on the status of planning and implementation of IWXXM and AMHS in support of MET service for international air navigation.

Status: Completed with ICAO letter T4/6.5—AP151/15, dated 30 September 2015.

2.2.10 **Conclusion APANPIRG/26/56 — Capacity building workshop to facilitate planning and implementation of digital exchange of aeronautical meteorological information**

That, ICAO, in coordination with the WMO, be invited to organize and conduct an inter-regional workshop in the first half of 2016 to build capacity in States for digital exchange of aeronautical meteorological information. The workshop should facilitate intra- and inter-regional planning and implementation activities.

Status: Completed with agreement for ICAO EUR/NAT Office to host interregional workshop to support implementation of IWXXM, 31 May to 2 June 2016.

2.2.11 **Conclusion APANPIRG/26/57 — Survey of State Meteorological Information Supporting Air Traffic Management**

That, ICAO be invited to urge States to respond to the survey, located at APANPIRG/26 WP/10 Appendix F, to gauge the types of meteorological information provided by MET services to support Air Traffic Management including Air Traffic Flow Management operations.

Status: Completed with ICAO letter T4/3.2.7—AP152/15, dated 1 October 2015.

2.2.12 **Conclusion APANPIRG/26/58 — Competency of aeronautical meteorological personnel**

That, ICAO be invited to consider inclusion in Annex 3 of a new provision on the competency of aeronautical meteorological personnel, similar to paragraph 3.7.4 in Annex 15 (2013) on the competency of AIS personnel, with appropriate reference to relevant WMO material on competency and qualification of aeronautical meteorological personnel, in order to align the provisions concerning the required competency of operational personnel.

Status: In progress; The Met Divisional Meeting in 2014 has addressed this and standards are being drafted by WMO. The ANB is working with WMO on including these standards in Annex 3.

2.2.13 **Conclusion APANPIRG/26/59 — SIGMET Pamphlets**

That, ICAO be invited to adopt the SIGMET Pamphlets, provided in APANPIRG/26 WP/10 Appendix F, as Regional guidance material and distribute to States to facilitate improved format of SIGMET information.

Status: Completed with ICAO letter T4/7.6 —AP156/15, dated 12 October 2015.

2.2.14 **Conclusion APANPIRG/26/60 — Updates to Regional guidance material (ROBEX Handbook, ICD and SIGMET Guide)**

That, ICAO be invited to publish the updated ROBEX Handbook and ICD and the new [5th Edition] Asia/Pacific Regional SIGMET Guide, as provided in APANPIRG/26 IP/07, IP/08 and IP/09 (including additional updates provided in Flimsy No.1 and No.3), in accordance with the established procedures and to urge States to review the operations of the designated meteorological offices to ensure that OPMET information is issued in accordance with the updated Regional guidance material.

Status: Completed with ICAO letter T4/8.3.2 and T4/10.2 —AP155/15, dated 6 October 2015.

2.2.15 **Conclusion APANPIRG/26/61 — MET-ATM Collaboration at National and Sub-Regional Levels**

That, States/Administrations are encouraged to strengthen MET-ATM collaboration at national and sub-regional levels, by engaging Meteorological Authorities at suitable ATM coordination meetings with a view to enhance MET support for ATM and develop harmonised requirements for MET to support ATM.

Status: Completed with ICAO letter T4/3.2.7—AP158/15, dated 15 October 2015.

2.2.16 **Conclusion APANPIRG/26/62 — Cross-border MET Collaboration and Coordination**

Recognizing the presence of SIGMET weather phenomena that straddles across boundaries, States/Administrations are encouraged to promote cross-border collaboration and coordination to harmonise the MET products of such phenomena between Meteorological Authorities to enhance MET support for ATM in the Asia/Pacific Region.

Status: In progress.

2.2.17 **Conclusion APANPIRG/26/63 – International Aviation and Climate Change**

That, States/Administrations in APAC Region are invited to:

- a) continue to consider environmental issues in the planning and implementation of regional air navigation systems;
- b) bring to the attention of the ICAO Secretariat specific areas where additional guidance on environmental benefits would be valuable;
- c) promote further collaboration with State action plan national focal points for all the operational measures that States wish to develop, implement and/or include in their action plans;
- d) inform State action plan national focal points of the availability of further assistance, to be provided by the ICAO Secretariat, related to the preparation and submission of States' action plans; and

- e) note that the ICAO Secretariat will keep PIRGs informed of its future activities and developments related to environmental protection.

Status: Completed with ICAO letter AN 3/3—AP143/15, dated 22 September 2015.

2.2.18 **Conclusion APANPIRG/26/64 – Update of ATM/AIS/SAR, AOP, CNS and MET Deficiency List**

That, the list of Air Navigation Deficiencies reported and identified in ATM/AIS/SAR, AOP, CNS and MET Deficiency List be updated as detailed in Appendices A to D to APANPIRG Working Paper 11.

Status: Completed with ICAO letter AN3/3—AP139/15, dated 22 September 2015.

2.2.19 **Decision APANPIRG/26/65 — Revised APANPIRG Structure, Terms of Reference and APANPIRG Sub Group Empowerment**

That, in accordance with APANPIRG Decision 25/50, and to promote a more project-management-driven approach to regional air navigation planning and implementation which is guided by and aligned with regional priorities and the Global Air Navigation Plan/ASBU Strategy:

- a) the new structure of the APANPIRG and its Sub Groups is adopted as presented in Appendix B to the [APANPIRG/26] Report on Agenda Item 5;
- b) the revised Terms of Reference of APANPIRG Sub Groups placed at Appendix C to the [APANPIRG/26] Report on Agenda Item 5 is adopted;
- c) to enhance the efficiency of APANPIRG approval process, the Sub Groups are empowered to adopt Conclusions and Decisions on technical matters (especially those concerning guidance to States in the implementation of ICAO SARPs, GANP, RANP, Seamless ATM Plan) that do not have additional economic, environmental or political effects, which should be considered at a higher level at APANPIRG; and
- d) the APANPIRG Procedural Handbook be amended in accordance with the new APANPIRG Structure, Terms of Reference, project management principles (Appendix D to the [APANPIRG/26] Report on Agenda Item 5) and procedures to be followed for the processing of Sub Group- endorsed Conclusions and Decisions.

Note:

- (1) *the new structure of APANPIRG Sub Groups, revised Terms of Reference and empowerment shall become effective from 2017 meeting year with 2016 being used for transitional arrangement; the empowerment would be subject to further review in 2018 based on the experience gained in 2017; and*
- (2) *the amendment to the APANPIRG Procedural Handbook shall be submitted to APANPIRG/27 for endorsement.*

Status: Completed with ICAO letter AN3/3—AP141/15, dated 22 September 2015.

2.2.20 **Decision APANPIRG/26/66 — Review Terms of Reference of Contributory Bodies under the APANPIRG Sub Groups**

That, the Secretariat, in consultation with Chairs of the existing Task Forces and Working Groups under the APANPIRG Sub Groups, reviews the TOR as necessary, and submits to the respective Sub Groups and APANPIRG/27 for further review and adoption.

Status: In progress (ICAO letter AN3/3-AP-AGA0005/16, dated 11 January 16, refers).

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information contained in this paper; and
- b) Provide any further updates on the activities related to the APANPIRG/26 Conclusions and Decisions.
