



International Civil Aviation Organization

**FIFTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL
REQUIREMENTS WORKING GROUP (MET/R WG/5)**

Bangkok, Thailand, 19 – 21 April 2016

Agenda Item 3: Review of follow-up from previous meetings

REVIEW FOLLOW-UP FROM APANPIRG/26

(Presented by the Secretariat)

SUMMARY

This paper presents an overview of follow-up action to the twenty-sixth meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/26), held in Bangkok, Thailand, from 7 to 10 September 2015.

1. INTRODUCTION

1.1. The Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) is responsible for ensuring continuous and coherent development of the Asia/Pacific Regional Air Navigation Plan (ANP) and other relevant regional documentation, facilitating the implementation of air navigation systems and services as identified in the ANP and identifying and addressing specific deficiencies in the air navigation field.

1.2. Through its contribution to the work programme of the Meteorology Sub-group (MET SG) of APANPIRG, the Meteorological Requirements Working Group (MET/R WG), formerly known as the Meteorological Requirements Task Force (MET/R TF), assists APANPIRG in its planning and implementation work specifically related to the regional requirements for meteorological information to support air traffic management operations.

1.3. This paper reviews the status of follow-up action to the twenty-sixth meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/26), held in Bangkok, Thailand, from 7 to 10 September 2015, focusing on outcomes of particular relevance to the MET/R WG.

2. DISCUSSION

2.1. APANPIRG/26 adopted 62 conclusions dealing with matters that, according to APANPIRG terms of reference, require the attention of States or action by the ICAO, and 5 decisions that relate solely to matters dealing with the internal working arrangements of APANPIRG. Full details are available in the Report of APANPIRG/26.

Survey of MET information supporting ATM

2.2. As a result of its review of the outcomes from MET SG/19, and the MET/ATM Seminar held in Tokyo from 29 June to 3 July 2015, APANPIRG/26 noted the need for increased collaboration to promote the provision of MET information supporting enhanced operational efficiency and safety, and ATM-MET integration in supporting enhanced operational decisions, and adopted the following conclusion:

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.

2.3. Follow-up to Conclusion APANPIRG/26/57 is discussed further in WP/02 to MET/R WG/5.

MET/ATM collaboration

2.4. APANPIRG/26 agreed that initiatives at a national and sub-regional level, such as the ‘collaboration framework’ presented by Hong Kong China, Japan, Philippines and Singapore (APANPIRG/26 WP/26 refers), would help support APAC States’ efforts towards the provision of MET information supporting enhanced operational efficiency and safety, and ATM-MET integration in supporting enhanced operational decisions. In view of the above, APANPIRG/26 adopted the following Conclusion:

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

2.5. As follow-up to Conclusion APANPIRG/26/61 ICAO issued State Letter Ref.: T 4/3.2.7 —AP158/15 (MET) dated 15 October 2015, to encourage States/Administrations to strengthen MET/ATM collaboration at the national and/or sub-regional level, as necessary, in support of the global and Regional objectives for the planning and implementation of MET information to support ATM (with reference to the envisaged MET support to the ATM system as provided in ICAO Doc 9377 — *Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services*). In particular, States/Administrations were requested to review arrangements for the provision of aeronautical MET service (in accordance with Annex 3) and ensure the designation of the MET authority and the arrangements for close liaison between the designated supplier/s and users of MET information.

Cross-FIR-boundary MET coordination

2.6. APANPIRG/26 also noted the importance of cross-FIR-boundary coordination and alignment of the MET information provided by States for adjacent FIRs to support enhanced operational efficiency and safety of the air transport system – especially SIGMET information provided for hazardous phenomenon that affects multiple FIRs – and adopted the following conclusion:

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.

2.7. The meeting may consider strategies to ensure that follow-up to Conclusion APANPIRG/26/62 is incorporated as necessary in the MET/R WG work programme.

2.8. Further details of follow-up on the APANPIRG/26 Conclusions of particular relevance to the MET/R WG (adapted from the Report from APANPIRG/26) are provided at **the Attachment** to this paper.

3. ACTION REQUIRED BY THE MEETING

3.1. The meeting is invited to:

- a) Note the information contained in this paper; and
- b) Ensure that the work programme of the MET/R WG is updated to address follow-up on relevant outcomes from APANPIRG/26.

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of March 2016
C 26/51 A & B	SIGMET Training	<p>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.</p> <p><i>Notes: the following specific recommendations are provided:</i></p> <p>1) <i>Follow-up training programme on SIGMET provision for the Solomon Islands (similar to the TAF training programme conducted on a bilateral basis in 2014);</i></p> <p>2) <i>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);</i></p> <p>3) <i>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</i></p> <p>4) <i>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.</i></p>	ICAO, WMO and States	Training programme proposal	Mar 2016	IN PROGRESS Japan, WMO and ICAO planning SIGMET workshop to be held in Tokyo, Japan, 27-30 June 2016.
C 26/52	SADIS user States and SADIS	That, ICAO be invited to urge SADIS user States	ICAO	State letter	Sep 2015	COMPLETE

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of March 2016
A & B	users to prepare for cessation of SADIS 2G	and SADIS users to ensure that they are prepared for the cessation of SADIS 2G. <i>Notes:</i> 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.				State Letter Ref.: T 4/3.8.2 — AP149/15 (MET) dated 30 September 2015
C 26/53 A & B	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.	ICAO	Decision on development of Annex 3 amendment proposal	Sep 2016	IN PROGRESS Refer to METP
C 26/54 A & B	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	ICAO	State letter	Sep 2015	IN PROGRESS State letter to be issued with reference to new Regional ANP

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of March 2016
		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.				Tables MET (noting that FASID Table MET 2A is no longer supported)
C 26/55 A & B	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.	ICAO	State letter	Sep 2015	COMPLETE State Letter Ref.: T 4/6.5 — AP151/15 (MET) dated 30 September 2015
C 26/56 A & B	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.	ICAO	Workshop – digital exchange of MET	Q2 2016	IN PROGRESS ICAO EUR/NAT Office to host interregional workshop 31 May to 2 June 2016 Refer to IMP and METP

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of March 2016
C 26/57 A & B	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.	ICAO	State letter	Sep 2015	COMPLETE State Letter Ref.: T 4/3.2.7— AP152/15 (MET) dated 1 October 2015
C 26/58 A & B	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.	ICAO	Decision on development of Annex 3 amendment proposal	Sep 2016	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.
C 26/59 A & B	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.	ICAO	State letter	Sep 2015	COMPLETE State Letter Ref.: T 4/7.6 — AP156/15 (MET) dated 12 October 2015

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of March 2016
C 26/60 A & B	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 [5 th 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.	ICAO	State letter	Sep 2015	COMPLETE State Letter Ref.: T 4/8.3.2 & T 4/10.2 — AP155/15 (MET) dated 6 October 2015
C 26/61 A & B	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.	ICAO	State letter	Sep 2015	COMPLETE State Letter Ref.: T 4/3.2.7 — AP158/15 (MET) dated 15 October 2015
C 26/62 A & B	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.	ICAO and MET/S WG (of MET SG)	Proposal for update/s to relevant guidance material (e.g. SIGMET Guide) as necessary	Mar 2016	IN PROGRESS Proposal for amendment of SIGMET Guide to be presented to MET SG/20, June 2016.