



International Civil Aviation Organization

**FOURTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE
AND METEOROLOGY SUB-GROUP OF
APANPIRG (CNS/MET SG/14)**



Jakarta, Indonesia, 19 – 22 July 2010

Agenda Item 2: Review

1) follow-up action on reports of the CNS/MET SG/13 and APANPIRG/20 Meetings

**REVIEW OF ACTIONS PLAN ON THE REPORT OF THE THIRTEENTH
CNS/MET SUB-GROUP AND TWENTIETH APANPIRG MEETINGS**

(Presented by the Secretariat)

SUMMARY

This paper presents the status of implementation of Decisions/Conclusions formulated by the Thirteenth meeting of CNS/MET Sub-group and adopted by APANPIRG/20.

This paper relates to:

Strategic Objectives:

- A. Safety – Enhance global civil aviation safety
- C. Environmental Protection – Minimize the adverse effect of global civil aviation on the environment
- D. Efficiency – Enhance the efficiency of aviation operations
- E. Continuity – Maintain the continuity of aviation operations

GPI (Global Plan Initiatives):

All

1. Introduction

1.1 The CNS/MET Sub-Group meets prior to the APANPIRG meeting to discuss the status of implementation of various Decisions and Conclusions adopted by APANPIRG in its previous meeting. APANPIRG, in its meeting reviews the report of CNS/MET Sub-group and considers Draft Decisions/Conclusions developed by the CNS/MET Sub-group for adoption.

2. Discussion

2.1 The status of follow-up actions taken by States and ICAO Asia and Pacific Regional Office on the report of the APANPIRG/20 in a Tabular form is provided in the **Attachment 1** to this paper for review by the meeting.

2.2 **Attachment 2** of this paper provides progress of implementation of the outstanding Conclusions till the Nineteenth meeting of APANPIRG.

3. Action required by the Meeting

3.1 The meeting is invited to note the follow-up actions taken by ICAO APAC office, Air Navigation Commission and the States on the Decisions/Conclusions adopted by APANPIRG in its Twentieth Meeting as shown in the Attachment 1.

3.2 The meeting is also invited to review the follow-up actions on the outstanding Conclusions taken as shown in the Attachment 2.

Follow – up to APANPIRG/20 Conclusions/Decisions – Action Plan

APANPIRG/20 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
D 20/26	Revision of Subject/Tasks List of ATNICG	That, the revised Subject/Tasks List of ATNICG provided in Appendix A to the Report on Agenda Item 3.4 be adopted.	Notify ATNICG WG/6 and ATNICG	ICAO APAC Office	ATNICG informed and paper prepared	Sept 2009 May 2010	<u>Completed</u> ATNICG WG/6 held from 22 to 25 Sept 2009 informed. ATNICG/7 notified	
C 20/27	ATN/AMHS Guidance Material	That, the following guidance materials for ATN/AMHS Implementation be adopted and published. - Version 3.1 of the Asia/Pacific IDRP Routing Policy provided in Appendix B to the Report on Agenda Item 3.4; - AMHS/ATN Network Management Operational Procedure Guidelines provided in Appendix C ; - Amended AMHS Conformance Testing (AMHS Manual provided in Appendix D); and - Aeronautical Telecommunication Network Security Checklist provided in Appendix E .	Publish on website	ICAO APAC Office	Published on website. States notified	Oct 2009	<u>Completed</u> State Letter dated 12 October 2009 issued	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/28	Short-term procedure for Global AMHS address Coordination	That, ICAO request States to register their AMHS addresses with EUROCONTROL AMC through Aeronautical Radio of Thailand (Aerothai) and provide a copy of this information to ICAO Asia/Pacific Office.	Notify States	ICAO APAC Office	State Letter	Nov 2009	Completed State Letter dated 3 November 2009 issued	
C 20/29	AMHS Addressing Scheme	That, a) States be urged to update information in respect of their administrations in the regional AMHS Naming Register; and b) States hosting BBIS hubs be requested to process both the XF and CAAS addressing schemes.	Notify States	ICAO APAC Office	State Letter	Nov 2009	Completed State Letter dated 3 November issued	
C 20/30	Revision of FASID Tables CNS-1B, CNS-1C and CNS-1E	That, FASID Tables CNS-1B, 1C and 1E for ATN Router Plan, AMHS Routing Plan and AIDC Routing Plan be replaced with the revised CNS Tables provided in Appendices F, G and H respectively to the Report on Agenda Item 3.4.	Prepare amendment proposal	ICAO APAC Office	Amendment proposal issued and processed	March 2010	Completed State letter dated 26 March issued	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/31	State and Operator aircraft information for GOLD	<p>That,</p> <p>a) States be urged to provide Region & State Information for inclusion in the GOLD Appendix E, by sending the completed forms(s) provided in Annex 1 to the Report on agenda item 3.4 for their flight information regions (FIRs) or control areas (CTAs) by 30 October 2009; and</p> <p>b) IATA be urged to coordinate with member airlines for providing operator & aircraft information for the GOLD Appendix F by sending completed form(s) as provided in Annex 2 to the Report on agenda item 3.4 for each variance, clarification, or addition to applicable aircraft type by 30 October 2009.</p>	Notify States	ICAO APAC Office	State Letter	Sept 2009	Completed. State Letter dated 25 September 2009.	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/32	Second Satellite Data-link Operational Continuity Meeting	That, ICAO be invited to organize 2 nd Satellite Data-link Operational Continuity Meeting in 2010 for stakeholders to review the developments on the performance and provision of satellite data link communication in the Asia/Pacific Region and develop a solution.	Coordination and organize SOCM/2 Meeting	ICAO APAC Office	Meeting conducted	Oct 2010		

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/33	Coordinate Implementation of Reduced Horizontal Separations with CSPs	That, recognizing the technical limitations in satellite data link communications capability for the provision of ADS-C and CPDLC, States intending to implement reduced horizontal separations based on RNAV 10 and RNP 4 PBN specifications in oceanic and remote area commence early coordination with Communication Service Providers (CSPs) in order to ascertain adequate data link communication/surveillance capability to support the proposed implementation. Outcomes should be recorded in a formal Service Level Agreement (SLA) between implementing States and CSPs, jointly or severally, to ensure that capabilities are available to properly support RCP 240/D specifications contained in Appendices B and C to the GOLD on an ongoing basis.	Notify States	ICAO APAC Office	State Letter	Jan 2010	<u>Completed</u> State Letter dated 7 January 2010 issued	Noted

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/35	Asia-Pacific Flight Procedure Programme	That, States be encouraged to participate in the Asia-Pacific Flight Procedure Programme in order to build or improve their instrument flight procedure capabilities, meet the PBN implementation goals of Assembly Resolution A36-23 and enhance flight safety, efficiency and environmental protection.	Notify States	ICAO APAC Office ICAO HQ ANB/ATM	State Letter	July 2009 2011	Completed State Letter T6/13.11.2- AP089/09 issued on 29 July 09 & follow-up letters had been issued	Noted Welcomed the imitative and requested the Secretariat to follow it up for with a similar approach for AFI region.
C 20/36	Preparation for PBN Implementation	That, States that have not done so, are urged to develop their State PBN Implementation Plans, and take action in accordance with those plans to implement WGS-84 and Electronic Terrain and Obstacle Data in their States.	Notify States	ICAO APAC Office	State Letter	Nov 2009	Completed State Letter dated 4 November 2009 issued	Noted

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/37	Guidance material for PBN Implementation	<p>That, ICAO be invited to develop guidance materials on:</p> <ul style="list-style-type: none"> a) establishing common implementation rules and technical standards for GNSS reporting and prediction requirements; b) assigning PBN capability to GPS IFR aircraft in the first instance without the need for recertification; and c) PBN-specific aspects of en-route safety assessment. 	Prepare Issue Form	<p>ICAO APAC Office</p> <p>ICAO HQ/ ANB/ATM</p> <p>ICAO HQ/ ANB/ATM</p>	<p>Issue Form sent HQ</p> <p>Guidance material for PBN implementation</p> <p>Status report</p>	<p>Dec 2009</p> <p>2011</p> <p>June 2010</p>	Completed	<p>Noted</p> <p>To address these PBN issues through appropriate ANC Panel and Study Groups.</p> <p>Requested the Secretariat to provide a status report on global implementation of PBN.</p>
D 20/38	Regional RAIM prediction System	That, PBNTF be tasked to examine the feasibility of establishing a regional RAIM prediction system.	Notify PBNTF	ICAO APAC Office	PBNTF informed and paper prepared	Feb 2010	Completed PBN TF/6 notified about the task through WP/8	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/39	RNAV Human Factors	That, RNAV safety message provided in Appendix J to the Report on Agenda Item 3.4 be distributed to the States for further distribution to all operators involved in RNAV operations in order to apply the lessons learnt.	Notify States	ICAO APAC Office	State Letter	Nov 2009	Completed State Letter dated 3 November 2009 issued	
C 20/40	PBN Implementation Progress Report Template	That, States be urged to use the PBN Implementation Progress Report Template provided in Appendix K to the Report on Agenda Item 3.4 for all future reporting of their status of PBN implementation. The Report should be submitted at each of the future PBN Task Force Meeting.	Notify States	ICAO APAC Office	State Letter	Jan 2010	Completed A SL had been sent to States on 4 Aug09) urging States to provide progress report using the template. Reminder sent.	
C 20/41	Asia/Pacific Regional PBN Implementation Plan	That, the Asia/Pacific Regional PBN Implementation Plan provided in Appendix L to the Report on Agenda Item 3.4 be adopted as Version 1.0.	Notify States	ICAO APAC Office	State Letter	Nov 2009	Completed State Letter dated 4 November 2009 issued	Noted

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/42	PBN Safety Assessment Training	That, ICAO be requested to assist in addressing the PBN safety assessment training needs in the region.	Prepare Issue Form	ICAO APAC Office ICAO HQ ANB/ATM	Issue Form sent HQ PBN safety assessment training needs	Dec 2009 2012	<u>Completed</u>	Noted To address this performance based navigation issue through appropriate ANC Panels and Study Groups.
C 20/43	RNP AR Approach Implementation	That, States be urged to give detailed considerations to the operational need, safety and cost benefits prior to deciding on RNP AR Approach implementation.	Notify States	ICAO APAC Office	State Letter	Nov 2009	<u>Completed</u> State Letter dated 4 November 2009.	
D 20/44	PBN Task Force Activities	That, the PBN Task Force continues with the current TORs for two additional meetings in 2010.	Notify PBNTF	ICAO APAC Office	PBNTF informed and paper prepared	Feb 2010	<u>Completed</u> PBN TF/6 informed about APANPIRG Conclusion through WP	
C 20/45	Sharing Information on ICAO Panels/SGs	That, ICAO be requested to consider sharing information on ICAO Panels and Study Groups activities/outcome regularly with regional planning/implementation groups.	Prepare Issue Form	ICAO APAC Office ICAO HQ	Issue Form sent HQ	Dec 2009	<u>Completed</u>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/46	Revision of the Strategy for the Provision of Navigation Services in the Asia/Pacific Region	That, the updated Strategy for the provision of navigation services provided in Appendix M to the Report on Agenda Item 3.4 be adopted and published.	Notify States	ICAO APAC Office	State Letter Updated Strategy posted on website	Nov 2009	Completed State Letter dated 5 November 2009	
D 20/47	Guidance material for flight inspection/validatio n of ADS-B ground stations	That, ADS-B SITF be tasked to study the need for developing guidance material for flight inspection/validation of ADS-B ground stations.	Notify ADS-B SITF	ICAO APAC Office	ADS-B SITF informed and paper prepared	May 2010	ADS-B SITF/9 will be notified. The meeting has been postponed to Mid Aug.10	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/48	Flight Inspections and Validation of Flight Procedures	<p>That, ICAO be invited to:</p> <p>a) carry out a study for use of DGPS as a positioning reference system for flight inspection;</p> <p>b) provide guidelines for selecting GP reference point for flight inspection;</p> <p>c) review areas of possible misinterpretations in ICAO Doc 8071 such as the ones shown in Appendix N to the Report on Agenda Item 3.4 and provide necessary guidance on the interpretation of the ICAO requirements in order to avoid inconsistency of interpretations and to harmonize application of ICAO Standards and Recommended Practices;</p> <p>d) review information on flight validation as contained in ICAO Doc 8071 Volume II consequent to new Doc 9906 Volume V becoming applicable; and</p> <p>e) develop templates for flight validation reports for PBN IFPs including RNP APCH procedure. A sample template developed by Aerothai for RNP APCH is provided in Appendix O to the Report on agenda item 3.4.</p>	Prepare Issue Form	<p>ICAO APAC Office</p> <p>ICAO HQ/ ANB/ATM</p>	<p>Issue Form sent HQ</p> <p>Flight Inspections and Validation of Flight Procedures</p>	<p>Dec 2009</p> <p>2011</p>	<u>Completed</u>	<p>Noted</p> <p>To address this performance based navigation issue through appropriate ANC Panels and Study Groups.</p>

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/49	Update of procedures and infrastructure	That, the States be a) reminded of the contents of State Letter AN 7/5-01/52 dated 11 May 2001 on ILS maintenance procedures; b) reminded to provide updates to information as contained in the eighth edition of the flight inspection catalogue; and c) urged to consider upgrading their FIS to include the flight inspection requirements of GNSS, Interference, ADS-B, Multi-lateralisation etc. as necessary.	Notify States	ICAO APAC Office	State Letter	Nov 2009	<u>Completed</u> State Letter dated 5 November 2009.	
D 20/50	Subject/Tasks List of ADS-B Study and Implementation Task Force	That, the Subject/Tasks List for ADS-B Study and Implementation Task Force provided in Appendix P to the Report on Agenda Item 3.4 be adopted.	Notify ADS-B SITF	ICAO APAC Office	ADS-B SITF informed and paper prepared	April 2010	ADS-B SITF/9 will be Informed. The meeting has been postponed to Mid Aug.10	
C 20/51	Workshop on ADS-B OUT equipage requirement	That, ICAO be invited to organize a workshop on ADS-B OUT equipage requirement before May 2010 with the assistance from Australia and USA.	Organise the workshop	ICAO APAC Office, Australia and USA	The workshop conducted	April 2010	The workshop has been further postponed to Mid Aug.10	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/52	Table CNS 4A and Table CNS 4B	That, the FASID Table CNS 4A and Table CNS 4B be replaced with updated Tables provided in Appendix Q and Appendix R to the Report on Agenda Item 3.4 in accordance with the established procedure.	Prepare amendment proposal	ICAO APAC Office	Amendment proposal issued and processed	March 2010	<u>Completed</u> SL issued on 29 March 2010	
C 20/53	Revised Guidelines for Development of ADS-B Implementation Plan by States	That, the revised guidelines for Development of ADS-B Implementation Plan by States provided in Appendix S to the Report on Agenda Item 3.4 be adopted.	Notify States	ICAO APAC Office	State Letter Updated Strategy posted on website	Nov 2009	<u>Completed</u> State Letter dated 4 November 2009 issued	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/54	Regional ADS-B Equipage Requirement	<p>That, States be urged to issue ADS-B authorizations for the interim period 2010-2020 (or until requirements can be harmonized globally) in Non-Radar Areas (NRA) airspace based on:</p> <ul style="list-style-type: none"> - AMC20-24 certification or - Approval by CASA Australia or - The requirements of the CASA Civil Aviation Order 20.18 Amendment (No. 1) 2009 and Advisory Circular AC21-45 <p><i>Note: States that have not yet published regulations should implement necessary regulations that recognize that any one of the above requirements is acceptable and not specify an individual requirement.</i></p>	Notify States	ICAO APAC Office	State Letter	Dec 2009	Completed State Letter dated 18 December 2009 issued	
C 20/55	Forward Fitment Requirements for SA Aware and FDE functionality	That, ICAO recommends States concerned to adopt forward fitment requirements which include SA aware and FDE functionality as soon as reasonable.	Notify States	ICAO APAC Office	State Letter	Dec 2009	Completed State Letter dated 18 December 2009	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/56	Coordination for SSR MODE S II Codes	<p>That,</p> <p>a) the Table on SSR Mode S Interrogator Identifier Codes as provided in Appendix T on Agenda Item 3.4 to the Report be adopted; and</p> <p>b) States be advised to provide the required information as specified in the Table on SSR Mode S Interrogator Identifier Codes to the ICAO Asia/Pacific Office for coordination and registration.</p>	Notify States	ICAO APAC Office	State Letter	Jan 2010	<u>Completed</u> State Letter dated 27 October 2009 issued	
C 20/57	Planning Criteria for SSR Mode S II Code Assignment	That, the Planning criteria for SSR Mode S II code coordination and assignment as provided in Appendix U to the Report on Agenda Item 3.4 be adopted as a provisional guidance material for use in the Asia/Pacific Region.	Notify States	ICAO APAC Office	State Letter	Jan 2010	<u>Completed</u> State Letter dated 27 October 2009.	Noted

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/58	ICAO Position for the World Radio Communication Conference – 2011 (WRC-11) Agenda Items	That, States be urged to: a) integrate ICAO Position on WRC-11 Agenda Items into their State Position presented to the regional telecommunication forum (APG) involved in the preparation of joint regional position on the Agenda Items; b) include ICAO Position on WRC-11 Agenda Items into the State Position to the extent possible; c) undertake to provide experts from their civil aviation authorities to participate in the development of State and regional positions; and d) ensure to the extent possible, State delegation to regional conferences, ITU Study Groups and WRC should include experts from Civil Aviation authorities.	Notify States	ICAO APAC Office States	State Letter Support to ICAO position on WRC agenda through participation in WRC 2011 now postponed January 2012	October 2009 Jan 2010	Completed State Letter dated 12 October 2009	Appreciated the ongoing contribution of APANPIRG in addressing this issue in a number of forums and requested the Secretary General to urge States to continue to participate at various levels in different forums to provide support to the ICAO position.

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
D 20/59	Use of the public Internet to access OPMET data and WAFS forecasts	<p>That, OPMET data and WAFS forecasts currently distributed through the ISCS, if only used for flight planning, can be considered non-time critical and therefore, can be accessed through the public Internet.</p> <p><i>Note: Relevant ICAO guidance will be updated accordingly, subject to consideration of a similar decision by the WAFSOPSG/5 Meeting and subsequent endorsement by ANC.</i></p>	(with regards to the note) – ANC consideration	ICAO HQ ICAO HQ/ ANB/MET /AIM	Updated guidance material if clarity is needed Updated guidance material	Nov 2010 2010	<u>Completed</u> Issue form submitted to HQ Oct2009	Noted Requested the Secretariat to update the guidance in Doc 8896
C 20/60	Extension of the ISCS-G2 and the implementation of the WAFS Internet file server (WIFS)	<p>That, WAFC Washington Provider State advise the ISCS user States about its intentions to:</p> <p>a) continue to work on extending the current ISCS-G2 service through 30 June 2012 to allow users sufficient time for transition to replacement services; and</p> <p>b) provide an operational WAFS Internet File Server (WIFS) by March 2010.</p>	<p>Inform States of ISCS-G2 cessation date</p> <p>Develop WAFS Internet File Server (WIFS)</p>	<p>WAFC Washington Provider State/ APAC Office</p> <p>WAFC Washington Provider State</p>	<p>ISCS website update/ State Letter</p> <p>WAFS products available by Internet</p>	<p>Dec 2009</p> <p>Mar 2010</p>	<p><u>Completed</u> SL dated 10 May 2010</p>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
		<p><i>Note 3: the ISCS Provider State is expected to indicate its future plans concerning ISCS-G3 and the WIFS</i></p> <p>c) the WAFSOPSG be invited to consider preparing an amendment to all ICAO regional procedures in the ANP/FASID to render WIFS and SADIS FTP Service as an alternative to the respective satellite broadcasts as the primary means of obtaining WAFS forecasts and OPMET data for flight planning purposes.</p> <p><i>Note 4: WAFS user States are responsible for the procurement of the necessary tools to access WAFS forecasts and OPMET data provided by the WAFCS.</i></p> <p><i>Note 5: The adoption of this Conclusion reinstates the APANPIRG Conclusion 19/45, Transition to ISCS 3rd Generation.</i></p>	<p>Update ANP/FASID</p>	<p>ICAO HQ (through WAFSOP SG)</p>	<p>Amendment Proposal to ANP/FASID (if deemed necessary by WAFSOPS G/5)</p>	<p>Jan 2010</p>	<p><u>Completed</u> FASID approved 22 Jan 2010 {APAC 09/23 – MET:AP016/10 (MET)}</p> <p>ANP approved 18 Mar 2010 {APAC 09/22 – MET:AP047/10 (MET)}</p>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/62	Harmonization of procedures for OPMET data issuance	That, ICAO Regional Office be invited to a) Include examples of correct methods of issuing OPMET data for inclusion in the ROBEX Handbook; b) After completion of a) above request States in the Asia/Pacific Region to implement these methods as a matter of priority; and c) Consult the RODBs to monitor the progress of OPMET data issuance in compliance with the Regional Air Navigation Plan for reporting at the OPMET/M TF/8 Meeting.	Update ROBEX Handbook Inform States RODB monitoring of OPMET compiling/filing times	ICAO APAC Office ICAO APAC Office RODBs / ICAO APAC Office	Updated ROBEX Handbook State Letter Inclusion of monitoring results in OPMET/M TF/8 Report	Oct 2009 Oct 2009 Apr 2010	Completed Completed IN-PROGRESS RODBs can not easily measure reception of OPMET data issuance at SADIS IATA expected to submit paper at CNS/MET SG/14	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/63	Improvement of OPMET data availability for AOP aerodromes	<p>That, after the next round of harmonization of OPMET data between SADIS and ISCS Provider States,</p> <p>a) IATA be invited to monitor the availability of OPMET data for AOP aerodromes; and</p> <p>b) ICAO Regional Office, based on the results of the monitoring in a) above, remind States concerned of unavailability of OPMET data.</p> <p><i>Note: the aim will be an availability of 95% of all OPMET data (METAR and TAF) from AOP aerodromes on SADIS and ISCS.</i></p>	<p>SADIS/ISCS harmonization</p> <p>IATA OPMET monitoring</p> <p>Inform States</p>	<p>ISCS and SADIS Provider States/ ICAO APAC Office</p> <p>IATA</p> <p>ICAO APAC Office</p>	<p>ISCS/SADIS OPMET harmonizati on</p> <p>Table of AOP aerodromes not available on SADIS</p> <p>State Letter</p>	<p>Oct 2009</p> <p>Dec 2009</p> <p>Jan 2010</p>	<p>IN- PROGRESS ISCS has provided Changes for SADIS Necessary for harmonization</p>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/64	Improvement of OPMET data availability for non- AOP aerodromes	<p>That, after the next round of harmonization of OPMET data between SADIS and ISCS Provider States,</p> <p>a) IATA be invited to monitor the availability of OPMET data for non-AOP aerodromes; and</p> <p>b) ICAO Regional Office, based on the results of the monitoring in a) above, approach States concerned to confirm their agreement to continue providing OPMET data</p> <p><i>Note: the aim will be an availability of 90% of all OPMET data (METAR and TAF) from non-AOP aerodromes on SADIS and ISCS.</i></p>	<p>SADIS/ISCS harmonization</p> <p>IATA OPMET monitoring</p> <p>Inform States</p>	<p>ISCS and SADIS Provider States/ ICAO APAC Office</p> <p>IATA</p> <p>ICAO APAC office</p>	<p>ISCS/SADIS OPMET harmonizati on</p> <p>Table of AOP aerodromes not available on SADIS</p> <p>State Letter</p>	<p>Oct 2009</p> <p>Dec 2009</p> <p>Jan 2010</p>	<p><u>IN- PROGRESS</u> ISCS has provided Changes for SADIS Necessary for harmon ization</p>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/65	Replace FASID Tables MET 4A and 4B by the ROBEX Handbook	That, the FASID Tables MET 4A and 4B be replaced with the ROBEX Handbook when referencing the ROBEX Scheme in the Basic ANP and FASID in accordance to Appendices V and W to the APANPIRG/20 Report on Agenda Item 3.4. Subsequently, FASID Tables MET 4A and 4B will be removed from the FASID.	Update ANP/FASID	ICAO APAC Office	Amendment Proposal to ANP/FASID	Dec 2009	Completed FASID approved 22 Jan 2010 {APAC 09/23 – MET:AP016/10 (MET)} ANP approved 18 Mar 2010 {APAC 09/22 – MET:AP047/10 (MET)}	
C 20/66	Replace FASID Table MET 4C by the Asia/Pacific regional OPMET data banks interface control document	That, the FASID Tables MET 4C be replaced with the Asia/Pacific regional OPMET data banks interface control document when referencing the responsibilities of the ASIA/PAC OPMET data banks for collection and dissemination of OPMET bulletins to support the ROBEX Scheme in the Basic ANP and FASID in accordance to Appendices V and W to the APANPIRG/20 Report on Agenda Item 3.4. Subsequently, FASID Table MET 4C will be removed from the FASID.	Update ANP/FASID	ICAO APAC Office	Amendment Proposal to ANP/FASID	Dec 2009	Completed FASID approved 22 Jan 2010 {APAC 09/23 – MET:AP016/10 (MET)} ANP approved 18 Mar 2010 {APAC 09/22 – MET:AP047/10 (MET)}	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/67	Cost Recovery by Volcano Observatories	That, the ICAO CNS/MET Sub-group VA/TC Implementation Task Force, in coordination with the VAAC Provider States and the ICAO Secretariat, be invited to investigate examples of agreements between State volcanic observatories and the civil aviation authorities that may be used by other States in considering the recovery of the cost in accordance with ICAO provisions.	Investigate cost recovery examples by volcanic observatories	VA/TC I TF/ VAACs/ ICAO HQ (IAVWOP SG)/ ICAO APAC Office	State Letter	June 2010	Completed (SL- T4/9.1.1:AP058 /10 (MET) sent 29Mar2010	
C 20/68	Expanded WV SIGMET Test Development	That, a) Japan be invited to further develop an expanded WV SIGMET Test utilizing automated templates in consultation with the Darwin VAAC; and b) upon completion of a) above, Japan conducts the expanded WV SIGMET Test and produce an analysis to the OPMET/M TF/8 meeting for further review and subsequent reporting to the CNS/MET SG/14 meeting to determine the next phase of the test.	Develop WV expansion SIGMET test Conduct and report on trial test	Japan/ VAAC Darwin Japan	Updated WV expansion SIGMET Test Test results included in OPMET/M TF/8 and CNS/MET SG/14 reports	Apr 2010 Apr 2010 / Jul 2010		

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/69	Implementation of SIGMET on Radioactive Clouds and Aerodrome Warnings on Tsunami	<p>That, in view of clarifying existing Annex 3 provisions,</p> <p>a) the IAVWOPSG consider developing Annex 3 provisions and guidance material, as necessary, related to the issuance of SIGMET on radioactive clouds; and</p> <p>b) ICAO considers developing Annex 3 provisions and guidance material as necessary related to the issuance of aerodrome warnings on Tsunami.</p>	Proposals to develop provisions and guidance material on radioactive cloud SIGMET and Tsunami aerodrome warnings	<p>ICAO HQ</p> <p>ICAO HQ ANB/MET /AIM</p>	<p>Amendment criteria to be included in Am. 76 or 77 to Annex 3, as necessary; guidance</p> <p>Annex 3 provisions and guidance material as necessary related to the issuance of aerodrome warnings on tsunami.</p>	2013 or 2016	<p><u>Completed</u></p> <p>ISSUE Form submitted to HQ</p>	<p>Noted</p> <p>Invited the IAVWOPSG to consider the need for developing additional ICAO provisions related to SIGMET on radioactive clouds and requested the Secretariat, with the assistance of the METWSG, to consider the need for developing additional ICAO provisions related to aerodrome warnings on tsunami</p>

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/70	Training on QMS	That, WMO, in coordination with ICAO, be invited to organize a seminar/workshop on QMS related to aeronautical meteorological services during the first half of 2010.	Conduct QMS Seminar/ Workshop	WMO/ ICAO HQ/APAC Office ICAO HQ ANB/MET /AIM	Seminar/ Workshop Harmonized QMS	June 2010 TBD	In Progress	Requested the Secretariat to invite WMO to conduct, in coordination with ICAO, a seminar/ Workshop on QMS. (invitation letter sent to WMO Feb 2010) Requested the Secretariat to harmonize QMS methodology for all fields of air navigation systems.
D 20/71	Updated Terms of Reference and Subject/Tasks List of the CNS/MET Sub-group	That, the revised Terms of Reference and Subject/Tasks List of the CNS/MET Sub-group provided in Appendices Y and Z to the Report be adopted.	Notify CNS/MET SG	ICAO APAC Office	CNS/MET SG informed and paper prepared	July 2010		

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/72	Ionospheric Data Collection – Focal Point of Contact	<p>That, the States be urged to:</p> <p>a) cooperate with each other to collect data and characterize ionosphere model in the APAC region that will lead to smooth introduction of GNSS in ASIA/PAC Region; and</p> <p>b) provide the name and contact details of the Focal Point of Contact to ICAO Regional Office for coordinating collection and exchange of ionospheric data with the ultimate objective of establishing a standard ionospheric model for the region.</p>	Notify States	ICAO APAC Office	State Letter	January 2010	<u>Completed</u> State letter dated 2 February 2010	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/73	Adopt GOLD to replace FOM	That, upon release of the Global Operational Data Link Document (GOLD) by the Ad-Hoc GOLD Working Group in first quarter 2010, the FANS-1/A Operations Manual (FOM) be withdrawn and replaced by the GOLD as Asia/Pacific regional guidance material for use by States and airspace users as the basis for operating Automatic Dependent Surveillance – Contract (ADS-C) and Controller Pilot Data Link Communications (CPDLC), in conjunction with <i>Annex 10 – Aeronautical Telecommunications Volume II – Communications Procedures including those with PANS status and the Procedures for Air Navigation Services – Air Traffic Management (PANS–ATM Doc 4444)</i> .	Notify States	ICAO APAC Office	Upon release of the GOLD by the AD-Hoc GOLD Working Group, transmit State Letter	First quarter 2010	<u>Completed</u> State letter dated 28 June 2010 issued.	Noted
C 20/74	Removal of the APANPIRG Air Navigation Deficiency AP- MET-15	That, the air navigation deficiency AP-MET-15 be removed from the APANPIRG air navigation deficiencies list.	Update list of APANPIRG air navigation deficiencies	ICAO APAC Office	Updated list of APANPIRG air navigation deficiencies	Dec 2009	<u>Completed</u>	

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status as of 31 May 2010	ANC action
C 20/75	MET deficiencies to be added to the APANPIRG list of Air Navigation Deficiencies	That, the list of proposed air navigation deficiencies in Appendix F to the APANPIRG/20 Report on Agenda item 4, obtained by the ICAO TCB CAEMSA-SP reports be added to the list of APANPIRG air navigation deficiencies list tagged with the U status.	Update list of APANPIRG air navigation deficiencies	APAC Office	Updated list of APANPIRG air navigation deficiencies	Dec 2009	<u>Completed</u>	
C 20/76	Continuation of CAEMSA-SP	That, the DGCA/46 conference considers funding and resources be allotted by donor States, WMO, and ICAO for the continuation of the CAEMSA-SP in order to meet international requirements in the provision of meteorological services which would achieve the necessary safety and efficiency levels for airlines operating in the South Pacific.	Provide necessary means for the continuation of CAEMSA-SP	DGCA Conference	Continuation of CAEMSA-SP	Oct 2009	<u>Completed</u>	Noted and requested the Secretary General to urge States to develop and implement an action plan for each deficiency and to provide information to the Bangkok Regional Office.

* **Note:** ICAO has established the following Strategic Objectives for the period 2005-2010:

A: Safety - Enhance global civil aviation safety; **B: Security** - Enhance global civil aviation security; **C: Environmental Protection** - Minimize the adverse effect of global civil aviation on the environment; **D: Efficiency** - Enhance the efficiency of aviation operations; **E: Continuity** - Maintain the continuity of aviation operations; **F: Rule of Law** - Strengthen law governing international civil aviation.

Conclusion/ Decision No. --- Strategic Objective*	Title of Conclusion/ Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status
C 18/53 D	Development of State PBN Implementation Plans	That, the Regional Office encourages States to begin development of their State PBN implementation plans in harmony with the development of the Asia/Pacific Regional PBN implementation plan being coordinated by the Asia/Pacific PBN Task Force for submission to APANPIRG/19 (2008).	Encourage States to develop State PBN implementation plan by 2009	ICAO APAC Office	State Letter based on regional PBN implementation plan to be developed by PBN task force	2009 Revised 2010	COMPLETED. PBN/TF has developed models for such plans. Some States submitted State PBN Implementation Plan for review by the PBNTF.
C 18/59 D	Resolution of ATM and OPS Deficiencies in the South West Pacific Small Island Developing States (SIDS)	That, in recognizing the safety implications of the long-standing ATM and OPS deficiencies in the South-West Pacific SIDS included in the APANPIRG Deficiency Data Base, ICAO, in coordination with the international organizations and regional bodies concerned, considers providing urgent assistance to these States in order to build their capacity to provide the required services in a sustainable and cost-efficient manner	Assist in establishment of TC project	ICAO HQ	TC Project	2008	ON GOING -TC project in MET and AGA area have been established and to be further followed up. Deficiencies in ATM field need to be addressed.

Conclusion/ Decision No. --- Strategic Objective*	Title of Conclusion/ Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status
C 19/3 A D	Assistance in South West Pacific Small Island States and Mongolia, Myanmar and Timor Leste in implementing the requirements of aerodrome certification and SMS	That, in recognizing the importance on the implementation of Annex 14, Volume I provisions related to aerodrome certification and SMS in the South West Pacific Small Island States and Mongolia, Myanmar and Timor-Leste, ICAO considers providing assistance to these States in order to build their capacity to provide the required services in a sustainable and cost efficient manner. <i>[Note: An appropriate form of providing assistance could include establishment of an ICAO technical cooperation project with funding sought from donor agencies.]</i>	Assist in establishment of TC Project	ICAO HQ/ICAO APAC Office	appropriate assistance Project	2009/ 2010	ONGOING SL dated 13/02/09 sent to these States to update status on implementation. ANC: Supported for the establishment of ICAO TC Project. <i>IFFAS application being processed.</i>
C 19/18 A D	ATS Message Management Center (AMC) Software	That, to facilitate implementation and management of ATN in Asia/Pacific Region, ICAO be urged to facilitate transfer of Eurocontrol AMC Software to Aerothai and to allow Aerothai to modify the Software to suit the requirements of Asia/Pacific Region.	Coordinate with parties concerned.	ICAO HQ	MOU signed and AMC software transferred.	May 2009. Revised June 2009.	ANC: Noted that the secretariat is reviewing the feasibility. CLOSED ICAO HQ issued State Letter on 19 April 2009 asking all States to use European AMC service for the off-line address management. AMC also provides other guidance to the States and conducted training for users in regions.

Conclusion/ Decision No. --- Strategic Objective*	Title of Conclusion/ Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status
<p>C 19/45</p> <p>A D</p>	<p>Transition to ISCS 3rd Generation</p>	<p>That, in view of the plans by the ISCS Provider State to upgrade the ISCS broadcast to a new 3rd Generation service (ISCS 3G) by the end of 2009:</p> <p>a) the ISCS Provider State be urged to provide timely information to the ISCS user States on the planned changes including specifications of the hardware and software changes, transition timeline and expected cost implications for the users if any; and</p> <p>b) the ISCS user States be urged to keep abreast of the planned developments through the established channels of communication with the ISCS Provider State and plan well in advance any resources required for the transition to the ISCS 3G;</p> <p><i>Notes:</i></p> <p>1) <i>The ISCS Provider State will use the established network of ISCS focal points as its basis for keeping States informed.</i></p> <p>2) <i>The Secretariat will undertake the task to keep the list of ISCS focal points up-to-date to ensure efficient communication between the ISCS Provider State and the ISCS user States in the ASIA/PAC Region.</i></p> <p>3) <i>All information on the planned transition will be available on:</i> http://www.weather.gov/iscs</p>	<p>Provide specifications</p> <p>Notify ISCS user States</p>	<p>ISCS provider State</p> <p>ICAO APAC Office</p>	<p>Specification information available</p> <p>State Letter</p>	<p>Mar 2009</p> <p>Apr 2009</p>	<p><u>COMPLETE</u> C 19/45 reinstated in C 20/61 which was completed through SL- T4/8.4, T 4/8.4.1: AP073/10 (MET) sent 10 May 2010</p>

Conclusion/ Decision No. --- Strategic Objective*	Title of Conclusion/ Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date	Status
C 19/53 D	Convening MET/ATM TF meeting and organizing MET/ATM seminar	That, a meeting of MET/ATM Task Force be convened in 2009 to review and update the Work Programme of the group and prepare a programme for the second ASIA/PAC MET/ATM Seminar to be held in 2010. <i>Note: Coordination with the ATM/AIS/SAR Sub-group is essential for the planned meeting of the MET/ATM TF.</i>	Organize meeting	ICAO APAC Office	Meeting convened	Dec 2009	COMPLETE (MET/ATM TF/1 Meeting 2-4 Dec 2009) MET/ATM Seminar to be held by Jan 2011

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