



*International Civil Aviation Organization*

**The Twentieth Meeting of the APANPIRG ATM/AIS/SAR Sub-Group  
(ATM/AIS/SAR/SG/20)**

Singapore, 05 – 09 July 2010

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**Agenda Item 2: Review the APANPIRG/20 Report and Subsequent ANC/Council Actions  
with respect to ATM/AIS/SAR Issues**

**REVIEW AND UPDATE CONCLUSIONS AND DECISIONS OF APANPIRG**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the outstanding Conclusions and Decisions of APANPIRG in the ATM/AIS/SAR fields as updated by APANPIRG/20, and the new Conclusions and Decisions raised by APANPIRG/19 relevant to the work of the ATM/AIS/SAR Sub-Group for follow up action by the meeting.

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*

**Global Plan Initiatives:**

*All*

**1. INTRODUCTION**

1.1 The Twentieth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/20) was held in Bangkok, Thailand from 7 – 11 September 2009. As well as reviewing progress on Conclusions and Decisions raised by previous APANPIRG meetings, APANPIRG/20 raised a total of 76 new Conclusions and Decisions for regional action.

**2. DISCUSSION**

2.1 The list of outstanding Conclusions and Decisions of APANPIRG in the ATM/AIS/SAR fields which were adopted prior to APANPIRG/20 is appended in **Attachment A** hereto. The list of new Conclusions and Decisions raised by APANPIRG/20 is appended in **Attachment B**.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review and update the outstanding and the new Conclusions and Decisions of APANPIRG in the ATM/AIS/SAR fields; and
- b) identify actions to be taken by the ATM/AIS/SAR Sub-Group as a result of the Conclusions and the Decisions of APANPIRG, and revise the ATM/AIS/SAR/SG Task List as appropriate (Agenda Item 10 refers).

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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	<b>Development of State PBN Implementation Plans</b>	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. 10 States submitted State PBN Implementation Plan for review by the PBNTF.
C 18/59  D	<b>Resolution of ATM and OPS Deficiencies in the South West Pacific Small Island Developing States (SIDS)</b>	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	<b>ON GOING</b>  -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	<b>Assistance in South West Pacific Small Island States and Mongolia, Myanmar and Timor Leste in implementing the requirements of aerodrome certification and SMS</b>	<p>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.</p> <p><i>[Note: An appropriate form of providing assistance could include establishment of an ICAO technical cooperation project with funding sought from donor agencies.]</i></p>	Assist in establishment of TC Project	ICAO HQ/ICAO APAC Office	appropriate assistance Project	2009/ 2010	<p><b>ONGOING</b> SL dated 13/02/09 sent to these States to update status on implementation.</p> <p>ANC: Supported for the establishment of ICAO TC Project.</p> <p><i>IFFAS application being processed.</i></p>

ATM/AIS/SAR/SG/20-WP/02  
ATTACHMENT A

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 19/18  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.  <b>CLOSED</b> 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><b>C 19/45</b></p> <p><b>A D</b></p>	<p><b>Transition to ISCS 3<sup>rd</sup> Generation</b></p>	<p>That, in view of the plans by the ISCS Provider State to upgrade the ISCS broadcast to a new 3<sup>rd</sup> 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> <a href="http://www.weather.gov/iscs">http://www.weather.gov/iscs</a></p>	<p>Provide specifications</p> <p>Notify ISCS user States</p> <p>A-6</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><b><u>COMPLETE</u></b> <b>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</b></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	<b><u>COMPLETE</u></b> <b>(MET/ATM TF/1 Meeting 2-4 Dec 2009)</b>  <b>MET/ATM Seminar to be held by Jan 2011</b>

\* **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.

**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
C 20/1	<b>Performance Framework Workshop/Seminar</b>	That, ICAO be invited to conduct additional Workshop(s)/Seminar(s) on performance frameworks to provide guidance to the States in developing their national performance frameworks.	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Issue Form transmitted to HQ</b>	<b>Dec 2009</b>	<b>COMPLETED</b>  Issue Forms transmitted on 21 October 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 20/2	Asia Pacific Regional Performance Objectives	That, the Asia Pacific Regional Performance Objectives and associated Performance Framework Forms (PFFs) as contained in <b>Appendix A</b> to the APANPIRG/20 Report on Agenda Item 3.0 be adopted.	<p>a) <b>Notify States</b></p> <p>b) <b>Include on Regional Office website under APANPIRG</b></p>	<p>ICAO APAC Office</p> <p>ICAO APAC Office</p> <p>ICAO HQ/ ANB</p> <p>ICAO HQ/ ANB</p>	<p>State Letter</p> <p>Available on website</p> <p>Brief to ANC</p> <p>Convene ALLPIRG/6 Meeting</p>	<p>Dec 2009</p> <p>Dec 2009</p> <p>Jan 2010</p> <p>2011</p>	<p><b>COMPLETED</b> S L dated 29 January 2009</p> <p><b>COMPLETED</b></p>	<p>Noted</p> <p>Welcomed the approach and confirmed the need for the States to derive national performance objectives based on the regional objectives.</p> <p>Requested the Secretariat to provide a brief to ANC on performance framework and its rollout plan</p> <p>Requested to convene ALLPIRG meeting for harmonizing the implementation of performance framework</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 20/3	<b>Align Regional &amp; National Performance Objectives</b>	That, the Regional Office encourages use by States of the PFF template adopted for the regional PFFs and circulate MS Word soft copy versions of the regional PFFs adopted by APANPIRG to enable States to derive national performance objectives based on the regional objectives.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Dec 2009</b>	<b>COMPLETED</b> State letter dated 10 December 2009.	<b>Noted</b>

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 20/4	Asia/Pacific Performance Metrics	<p>That the following metrics be adopted as a part of Asia/Pacific regional performance monitoring and measurement:</p> <p><b>APAC Metric 1</b> Percentage of RMA sub-regions achieving the regional Target Level of Safety (TLS) for RVSM operations, referenced as of April each year.</p> <p><b>APAC Metric 2</b> Percentage of instrument runway ends with an approach procedure with vertical guidance.</p> <p><b>APAC Metric 3</b> Percentage of en-route and terminal PBN routes implemented on a sub-regional basis in accordance with the regional PBN plan.</p> <p><b>APAC Metric 4</b> Average delays for departures at State's primary international airports for the busiest hour on a weekly basis</p>	<p>a) Notify States</p> <p>b) Include on Regional Office website under APANPIRG</p> <p>ICAO Headquarters ANB</p>	<p>ICAO APAC Office</p> <p>ICAO APAC Office</p>	<p>State Letter</p> <p>Available on website</p> <p>A common set of performance metrics</p>	<p>Dec 2009</p> <p>Dec 2009</p> <p>2011</p>	<p>COMPLETED Issued SL.</p> <p>COMPLETED</p>	<p>Noted</p> <p>Requested the Secretariat to develop a common set of performance metrics for all the regions so as to facilitate comparative analysis of regional developments</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 20/5	<b>Data Collection for Regional Metrics</b>	That States, organizations and stakeholders collect and process data to support the regional metrics adopted by APANPIRG, leveraging to the extent possible all existing data and ongoing efforts, and provide a progress report to APANPIRG/21.	<p>a) Notify States</p> <p>b) Provide data to regional meetings</p>	<p>ICAO APAC Office</p> <p>APAC States</p>	<p>State Letter</p> <p>Data available to regional meetings and APANPIRG to support metrics</p>	<p>Dec 2009</p> <p>Continuous</p>	COMPLETED SL dated 1 Feb 2010	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
D 20/6	<b>Dissolution of Western Pacific/South China Sea RVSM Scrutiny Working Group</b>	<p>That, having completed the Terms of Reference established by APANPIRG,</p> <p>a) the Western Pacific/South China Sea RVSM Scrutiny Working Group (WPAC/SCS RSG) be commended for the swift and effective outcomes in satisfactorily addressing RVSM safety performance in the WPAC/SCS area, and</p> <p>b) the WPAC/SCS RSG be dissolved and any residual work items be allocated to Southeast Asia ATS Coordination Group (SEACG) and/or the Regional Airspace Safety Monitoring Advisory Group (RASMAG) and ATM/AIS/SAR Sub-Group as necessary.</p>	<p>a) Notify States</p> <p>b) Transition any remaining items to South East Asia ATS Coordination Group (SEACG)</p>	<p>ICAO APAC Office</p> <p>ICAO APAC Office, SEACG</p>	<p>State Letter</p> <p>Remaining items covered by SEACG</p>	<p>May 2010</p> <p>May 2010</p>	<p>Completed</p> <p>Completed</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 20/7	<b>Adopt Interim Strategy for Implementation of New Flight Plan Format</b>	That the <i>Interim Strategy for the Implementation of new ICAO Flight Plan Format and Supporting ATS Messages</i> provided in <b>Appendix A</b> to the APANPIRG/20 Report on Agenda Item 3.2 be adopted and published as the interim edition, and States and users be urged to commence implementation planning based on the interim strategy.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Dec 2009</b>	<b>COMPLETED AP003/10 (ATM), 8 January 2010</b>	<b>Noted</b>
C 20/8	<b>Notification of State Transition Date to New Flight Plan Format</b>	That, in order to align regional implementation planning, States inform the Regional Office by 1 July 2010 of their scheduled date and implementation methodology for transition to the new Flight Plan and ATS Message formats.	<b>States formulate implementation strategies</b>	<b>APAC States</b>	<b>Notify Regional Office of methodology and target implementation date</b>	<b>Not later than 1 July 2010</b>		

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 20/9	<b>SSR Code Coordination with ORCAM Secretariat</b>	That, recognizing that four of the ten European (EUR) region SSR code Participating Areas (PAs) border Asian States, the Regional Office facilitate coordination with the European Originating Region Code Assignment Method (ORCAM) Secretariat to implement code management arrangements that avoid SSR code conflicts at the EUR/ASIA interface.	<b>Invite ORCAM Secretariat to join coordination</b>	<b>ICAO APAC Office</b>	Letter to ORCAM Secretariat via EUR/NAT Office to invite coordination	<b>Feb 2010</b>	<b>Closed</b>	
C 20/10	<b>ATFM Compliance- Advice to Airlines and Airports</b>	That, on behalf of the ATFM/TF, the Regional Office seeks assistance in properly complying with ATFM procedures from the specific airlines and airports identified by the ATFM/TF as contributing to poor ATFM performance because of early or late departures.	<b>Advise affected States and Airlines</b>	<b>ATFM/TF , ICAO APAC Office</b>	<b>Data provided to ICAO APAC Office</b>  <b>Letters containing data transmitted to affected States and Airlines</b>	<b>Dec 2009</b>  <b>Dec 2009</b>	<b>ATFM/TF/13</b>  <b>COMPLETED AP-ATM0038</b>	

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 20/11	<b>ATFM Steering Group and Concept of Operations</b>	That a regional ATFM Steering Group be constituted and tasked with preparing an Asia/Pacific Regional ATFM Concept of Operations based on analysis of regional data and traffic flows. The ATFM Steering Group should consider the outcomes and recommendations from the October 2008 ATFM Seminar/Workshop (Fukuoka, Japan) and information about the CAR/SAM ATFM Project contained in IP/3 to APANPIRG/20 as guidance in deriving its Objectives and Terms of Reference.	<b>Conduct first meeting of Steering Group</b>	<b>ICAO APAC Office</b>	<b>First meeting of Steering group conducted</b>	<b>Second half 2010</b>		

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 20/12	<b>Adopt ATFM Communications Manual</b>	That the <i>Air Traffic Flow Management (ATFM) Communications Handbook for the Asia/Pacific Region</i> , as shown in <b>Appendix B</b> to the APANPIRG/20 Report on Agenda Item 3.2, be adopted and circulated as regional guidance material.	<b>Notify States</b>	<b>ICAO APAC Office</b>  ICAO HQ ANB/ATM	<b>State Letter</b>  Global guidance	<b>Dec 2009</b>  <b>2011</b>	<b>COMPLETED</b> AP007/10 (ATM), 13 January 2010	Noted  Noted that the Secretariat is in the process of developing globally-applicable ATFM guidance material
C 20/13	<b>Conduct Regional ATFM Survey</b>	That a survey of Asia/Pacific States be conducted based on the questionnaire at <b>Appendix C</b> to the APANPIRG/20 Report on Agenda Item 3.2, with the objective of benchmarking the current status of Air Traffic Flow Management (ATFM) activities in the Asia/Pacific Region.	<b>Conduct survey</b>	<b>ICAO APAC Office</b>	<b>Survey conducted and outputs compiled</b>	<b>March 2010</b>	<b>Completed</b> AP038/10 (ATM), 8 March 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
D 20/14	<b>Support for Global ICD for AFTN AIDC</b>	That recognizing the benefits to be gained from globally harmonized interface arrangements for AIDC, APANPIRG supports the work being undertaken by the United States to coordinate a global Interface Control Document for AFTN AIDC and invites the Asia/Pacific Regional Office to act as the regional point of contact for this work.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Feb 2010</b>	<b>COMPLETED</b> AP-ATM0041, 26 January 2010	<b>Noted</b>
C 20/15	<b>Survey of RNP 4 Equipage and Approvals</b>	That during 2010 the Regional Office conducts a regional survey to establish the current and near term equipage and approvals status for RNP 4 operations.	<b>Conduct survey</b>	<b>ICAO APAC Office</b>	<b>Survey conducted and outputs compiled</b>	<b>March 2010</b>	<b>AP.../10 (ATM), 10 May 2010</b>	

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 20/16	Assistance to States to Implement Electronic Terrain and Obstacle Data (eTOD)	<p>That, in light of the fact that:</p> <p>a) within the Asia and Pacific region, there is a varying degree of implementation status and readiness for the existing Annex 15, Chapter 10 eTOD Standards and Recommended Practices (SARPs);</p> <p>b) significant cost and institutional issues prevail as impediments to global eTOD implementation; and</p> <p>ICAO consider providing short- and long-term assistance to States in order to build their capacity to provide eTOD in a sustainable and cost efficient manner.</p> <p><i>Note: An appropriate form of providing assistance could include establishment of an ICAO Technical Cooperation Project with funding sought from donor agencies.</i></p>	Prepare Issue Form	ICAO APAC Office	Issue Form transmitted to HQ	Dec 2009	<p>COMPLETED</p> <p>Issue Forms transmitted on 21 October 2009</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 20/17	<b>SAR Guidance on 121.5 MHz Search Planning</b>	Recognizing that large populations of aircraft would continue to use 121.5MHz distress beacons after the February 2009 cessation of COSPAS SARSAT Satellite tracking capability, States consider the guidance material “ <i>Search Planning for Audible 121.5 Distress Beacon Alerts</i> ” contained in <b>Appendix G</b> to the APANPIRG/20 Report on Agenda Item 3.2 when developing SAR procedures and training documentation.	Notify States	ICAO APAC Office	State Letter	Feb2010	Completed AP027/10 (ATM), 8 February 2010	
C 20/18	<b>Provide SAR 121.5 MHz Guidance to ICAO/IMO JWG</b>	That the Regional Office seek the assistance of the United States in providing a copy of the guidance material “ <i>Search Planning for Audible 121.5 Distress Beacon Alerts</i> ” contained in Appendix G to the APANPIRG/20 Report on Agenda Item 3.2 to the ICAO/IMO Joint Working group on SAR for consideration as an amendment to the <i>International Aeronautical and Maritime SAR (IAMSAR) Manual</i> .	Coordinate with USA	ICAO APAC Office	Regional Office Letter	Feb 2010	Completed AP-ATM0057, 16 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
D 20/19	ATM/AIS/SAR Task List	That the ATM/AIS/SAR Sub-Group Task List and attachments contained in Appendix A to the ATM/AIS/SAR/SG/19 Report on Agenda Item 10 be adopted as the current work programme for the ATM/AIS/SAR Sub-Group of APANPIRG.	Notify ATM/AIS/SAR Sub Group	ICAO APAC Office	Working Paper to next ATM/AIS/S AR Sub Group meeting	June 2010		
C 20/20	Adopt RVSM Minimum Monitoring Requirements	That the RVSM Minimum Monitoring Requirements (MMRs) shown in <b>Appendix B</b> to the APANPIRG/20 Report on Agenda Item 3.3 be adopted as the MMRs applicable for the Asia/Pacific Region.	a) Notify States  b) Include on Regional Office website under “APAC eDocuments”	ICAO APAC Office  ICAO APAC Office	State Letter  Available on website	Dec 2009  Dec 2009	COMPLETED AP014/10 (ATM), 18 January 2010  COMPLETED	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
D 20/21	<b>Expand use of safety monitoring data</b>	That the arrangements for annual month of December traffic sample data by all States to satisfy airspace safety monitoring analysis called for by APANPIRG Conclusion 16/4 be expanded to enable this data to also be available for airspace planning and implementation purposes. This will apply only where such data is not otherwise available to regional or State implementing bodies and only with specific written authority of the ICAO Asia/Pacific Regional Office on each occasion.	<b>Notify States prior to annual December traffic sample data collection</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>COMPLETED</b> AP165/09 (ATM), 11 November 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 20/22	<b>Provide Annual Update of RVSM Approvals to RMAs</b>	That, in addition to the continuous update of RVSM Approvals data called for by Conclusion 19/15 and APANPIRG RMA requirements, States provide an update of RVSM Approvals data in conjunction with the annual December traffic sample data submission required by Conclusion 16/4.	<p>a) <b>Notify States prior to annual December traffic sample data collection</b></p> <p>b) <b>States provide RVSM Approvals data</b></p>	<p><b>ICAO APAC Office</b></p> <p><b>APAC States</b></p>	<p><b>State Letter</b></p> <p><b>States provide update of RVSM Approvals status to APANPIRG RMAs as part of December traffic sample data submission</b></p>	<p><b>Nov 2009</b></p> <p><b>Jan 2010</b></p>	<p><b>COMPLETED</b> State letter issued</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 20/23	<b>Adopt RVSM Monitoring Impact Statement</b>	That the <i>Asia/Pacific Regional Impact Statement – RVSM Global Long Term Height Monitoring Requirements effective from November 2010</i> , as shown in <b>Appendix C</b> to the APANPIRG/20 report on Agenda Item 3.3, be adopted and circulated as Asia/Pacific regional guidance material.	<b>a) Notify States</b>  <b>b) Include on Regional Office website under “APAC eDocuments”</b>	<b>ICAO APAC Office</b>  <b>ICAO APAC Office</b>	<b>State Letter</b>  <b>Available on website</b>	<b>Dec 2009</b>  <b>Dec 2009</b>	<b>COMPLETED</b> AP153/09 (ATM), 2 November 2009  <b>COMPLETED</b>	Noted and welcomed the initiative of APANPIRG in preparing an impact statement for RVSM long-term height monitoring requirements.
D 20/24	<b>En-route Monitoring Agency (EMA)</b>	That the term En-route Monitoring Agency (EMA) be used to describe an organization providing airspace safety assessment, monitoring and implementation services for international airspace in the Asia/Pacific Region to support implementation and operation of reduced horizontal (lateral and longitudinal) separation.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Dec 2009</b>	<b>COMPLETED</b> AP163/09 (ATM), 10 November 2009	<b>Noted</b>

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 20/25	<b>Adopt En-route Monitoring Agency (EMA) Handbook</b>	That the <i>Asia/Pacific En-route Monitoring Agency (EMA) Handbook</i> , as shown in <b>Appendix D</b> to the APANPIRG/20 report on Agenda Item 3.3, be adopted and circulated as Asia/Pacific regional guidance material.	a) <b>Notify States</b>  b) <b>Include on Regional Office website under “APAC eDocuments”</b>	ICAO APAC Office  ICAO APAC Office	State Letter  Available on website	Dec 2009  Dec 2009	COMPLETED AP163/09 (ATM), 10 November 2009  COMPLETED	Noted
D 20/26	<b>Revision of Subject/Tasks List of ATNICG</b>	That, the revised Subject/Tasks List of ATNICG provided in <b>Appendix A</b> 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	ATNICG WG/6 held from 22 to 25 Sept 2009 informed. . ATNICG/7 notified	

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 20/27	<b>ATN/AMHS Guidance Material</b>	<p>That, the following guidance materials for ATN/AMHS Implementation be adopted and published.</p> <ul style="list-style-type: none"> <li>- Version 3.1 of the Asia/Pacific IDRP Routing Policy provided in <b>Appendix B</b> to the Report on Agenda Item 3.4;</li> <li>- AMHS/ATN Network Management Operational Procedure Guidelines provided in <b>Appendix C</b>;</li> <li>- Amended AMHS Conformance Testing (AMHS Manual provided in <b>Appendix D</b>; and</li> <li>- Aeronautical Telecommunication Network Security Checklist provided in <b>Appendix E</b>.</li> </ul>	<b>Publish on website</b>	<b>ICAO APAC Office</b>	<b>Published on website. States notified</b>	<b>Oct 2009</b>	<b>Completed</b> 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	<b>Short-term procedure for Global AMHS address Coordination</b>	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.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 3 November 2009 issued	
C 20/29	<b>AMHS Addressing Scheme</b>	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.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 3 November issued	
C 20/30	<b>Revision of FASID Tables CNS-1B, CNS-1C and CNS-1E</b>	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 <b>Appendices F, G and H</b> respectively to the Report on Agenda Item 3.4.	<b>Prepare amendment proposal</b>	<b>ICAO APAC Office</b>	<b>Amendment proposal to HQ</b>	<b>March 2010</b>	<b>COMPLETED</b> State letter issued on 26 March 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 20/31	State and Operator aircraft information for GOLD	<p>That,</p> <p>a) States be urged to provide Region &amp; State Information for inclusion in the GOLD Appendix E, by sending the completed forms(s) provided in <b>Annex 1</b> 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>a) IATA be urged to coordinate with member airlines for providing operator &amp; aircraft information for the GOLD Appendix F by sending completed form(s) as provided in <b>Annex 2</b> 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	<u>Completed.</u> 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	<b>Second Satellite Data-link Operational Continuity Meeting</b>	That, ICAO be invited to organize 2 <sup>nd</sup> 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.	<b>Coordination and organize SOCM/2 Meeting</b>	<b>ICAO APAC Office</b>	<b>Meeting conducted</b>	<b>Oct 2010</b>		

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	<b>Coordinate Implementation of Reduced Horizontal Separations with CSPs</b>	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 20/34	<b>Technical Limitations in Satellite Data Link Communications Capability</b>	That, recognizing current technical limitations in satellite data communications capability that impacts PBN based separation applications particularly for RNAV10 and RNP 4 in the remote and oceanic areas, ICAO be invited to address this issue at global level.	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>  <b>ICAO HQ ANB/CNS ATB</b>	<b>Issue Form sent HQ</b>  <b>Global monitoring</b>	<b>Dec 2009</b>  <b>On going</b>	<b>COMPLETED</b>	Noted  Noted and that ICAO will undertake a case study on the ownership and control of the air navigation services infrastructure, including the development of a draft service level agreement for use by air navigation service providers. Furthermore, usage of two or more autonomous networks by States and international organizations will provide much better availability. The Secretariat to monitor further developments.

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	<b>Asia-Pacific Flight Procedure Programme</b>	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          <b>2011</b>	<b>Completed</b> 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	<b>Preparation for PBN Implementation</b>	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	<b>Completed</b> 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	<b>Guidance material for PBN Implementation</b>	<p>That, ICAO be invited to develop guidance materials on:</p> <p>establishing common implementation rules and technical standards for GNSS reporting and prediction requirements;</p> <p>assigning PBN capability to GPS IFR aircraft in the first instance without the need for recertification; and</p> <p>PBN-specific aspects of en-route safety assessment.</p>	<b>Prepare Issue Form</b>	<p>ICAO APAC Office</p> <p>ICAO HQ/ ANB/ATM</p> <p>ICAO HQ/ ANB/ATM</p>	<p><b>Issue Form sent HQ</b></p> <p>Guidance material for PBN implementation</p> <p>Status report</p>	<p><b>Dec 2009</b></p> <p><b>2011</b></p> <p><b>June 2010</b></p>	<b>COMPLETED</b>	<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	<b>Regional RAIM prediction System</b>	That, PBNTF be tasked to examine the feasibility of establishing a regional RAIM prediction system.	<b>Notify PBNTF</b>	<b>ICAO APAC Office</b>	<b>PBNTF informed and paper prepared</b>	<b>Feb 2010</b>	<b>Completed</b> 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	<b>RNAV Human Factors</b>	That, RNAV safety message provided in <b>Appendix J</b> 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.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 3 November 2009 issued	
C 20/40	<b>PBN Implementation Progress Report Template</b>	That, States be urged to use the PBN Implementation Progress Report Template provided in <b>Appendix K</b> 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.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Jan 2010</b>	<b>Completed</b> A SL had been sent to States on 4 Aug09) urging States to provide progress report using the template. <b>Reminder sent.</b>	
C 20/41	<b>Asia/Pacific Regional PBN Implementation Plan</b>	That, the Asia/Pacific Regional PBN Implementation Plan provided in <b>Appendix L</b> to the Report on Agenda Item 3.4 be adopted as Version 1.0.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 4 November 2009 issued	<b>Noted</b>

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	<b>PBN Safety Assessment Training</b>	That, ICAO be requested to assist in addressing the PBN safety assessment training needs in the region.	<b>Prepare Issue Form</b>	ICAO APAC Office  ICAO HQ ANB/ATM	<b>Issue Form sent HQ</b>  PBN safety assessment training needs	<b>Dec 2009</b>  <b>2012</b>	<b>COMPLETED</b>	<b>Noted</b>  To address this performance based navigation issue through appropriate ANC Panels and Study Groups.
C 20/43	<b>RNP AR Approach Implementation</b>	That, States be urged to give detailed considerations to the operational need, safety and cost benefits prior to deciding on RNP AR Approach implementation.	<b>Notify States</b>	ICAO APAC Office	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 4 November 2009.	
D 20/44	<b>PBN Task Force Activities</b>	That, the PBN Task Force continues with the current TORs for two additional meetings in 2010.	<b>Notify PBNTF</b>	ICAO APAC Office	<b>PBNTF informed and paper prepared</b>	<b>Feb 2010</b>	<b>Completed</b> PBN TF/6 informed about APANPIRG Conclusion through WP	

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 20/45	<b>Sharing Information on ICAO Panels/SGs</b>	That, ICAO be requested to consider sharing information on ICAO Panels and Study Groups activities/outcome regularly with regional planning/implementation groups.	<b>Prepare Issue Form</b>	ICAO APAC Office  ICAO HQ	Issue Form sent HQ	Dec 2009	COMPLETED	
C 20/46	<b>Revision of the Strategy for the Provision of Navigation Services in the Asia/Pacific Region</b>	That, the updated Strategy for the provision of navigation services provided in <b>Appendix M</b> to the Report on Agenda Item 3.4 be adopted and published.	<b>Notify States</b>	ICAO APAC Office	State Letter Updated Strategy posted on website	Nov 2009	<u>Completed</u> State Letter dated 5 November 2009	
D 20/47	<b>Guidance material for flight inspection/validati on of ADS-B ground stations</b>	That, ADS-B SITF be tasked to study the need for developing guidance material for flight inspection/validation of ADS-B ground stations.	<b>Notify ADS-B SITF</b>	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	<b>Flight Inspections and Validation of Flight Procedures</b>	<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 <b>Appendix N</b> 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 <b>Appendix O</b> to the Report on agenda item 3.4.</p>	<b>Prepare Issue Form</b>	<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>	COMPLETED	<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	<b>Update of procedures and infrastructure</b>	<p>That, the States be</p> <p>reminded of the contents of State Letter AN 7/5-01/52 dated 11 May 2001 on ILS maintenance procedures;</p> <p>reminded to provide updates to information as contained in the eighth edition of the flight inspection catalogue; and</p> <p>urged to consider upgrading their FIS to include the flight inspection requirements of GNSS, Interference, ADS-B, Multi-lateration etc. as necessary.</p>	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 5 November 2009.	
D 20/50	<b>Subject/Tasks List of ADS-B Study and Implementation Task Force</b>	That, the Subject/Tasks List for ADS-B Study and Implementation Task Force provided in <b>Appendix P</b> to the Report on Agenda Item 3.4 be adopted.	<b>Notify ADS-B SITF</b>	<b>ICAO APAC Office</b>	<b>ADS-B SITF informed and paper prepared</b>	<b>April 2010</b>	ADS-B SITF/9 will be Informed. The meeting has been postponed to Mid Aug.10	
C 20/51	<b>Workshop on ADS-B OUT equipage requirement</b>	That, ICAO be invited to organize a workshop on ADS-B OUT equipage requirement before May 2010 with the assistance from Australia and USA.	<b>Organise the workshop</b>	<b>ICAO APAC Office, Australia and USA</b>	<b>The workshop conducted</b>	<b>April 2010</b>	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	<b>Table CNS 4A and Table CNS 4B</b>	That, the FASID Table CNS 4A and Table CNS 4B be replaced with updated Tables provided in <b>Appendix Q</b> and <b>Appendix R</b> to the Report on Agenda Item 3.4 in accordance with the established procedure.	<b>Prepare amendment proposal</b>	<b>ICAO APAC Office</b>	<b>Amendment proposal to HQ</b>	<b>March 2010</b>	<b>Completed SL issued on 29 March 2010</b>	
C 20/53	<b>Revised Guidelines for Development of ADS-B Implementation Plan by States</b>	That, the revised guidelines for Development of ADS-B Implementation Plan by States provided in <b>Appendix S</b> to the Report on Agenda Item 3.4 be adopted.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter Updated Strategy posted on website</b>	<b>Nov 2009</b>	<b>Completed</b> State Letter dated 4 November 2009 issued	
C 20/54	<b>Regional ADS-B Equipage Requirement</b>	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:  - 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  <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>	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Dec 2009</b>	<b>Completed</b> State Letter dated 18 December 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 20/55	<b>Forward Fitment Requirements for SA Aware and FDE functionality</b>	That, ICAO recommends States concerned to adopt forward fitment requirements which include SA aware and FDE functionality as soon as reasonable.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Dec 2009</b>	<b>Completed</b> State Letter dated 18 December 2009	
C 20/56	<b>Coordination for SSR MODE S II Codes</b>	That,  a) the Table on SSR Mode S Interrogator Identifier Codes as provided in <b>Appendix T</b> on Agenda Item 3.4 to the Report be adopted; and  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.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Jan 2010</b>	<b>Completed</b> State Letter dated 27 October 2009 issued	
C 20/57	<b>Planning Criteria for SSR Mode S II Code Assignment</b>	That, the Planning criteria for SSR Mode S II code coordination and assignment as provided in <b>Appendix U</b> to the Report on Agenda Item 3.4 be adopted as a provisional guidance material for use in the Asia/Pacific Region.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>Jan 2010</b>	<b>Completed</b> State Letter dated 27 October 2009.	<b>Noted</b>

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	<b>ICAO Position for the World Radio Communication Conference – 2011 (WRC-11) Agenda Items</b>	<p>That, States be urged to:</p> <p>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;</p> <p>include ICAO Position on WRC-11 Agenda Items into the State Position to the extent possible;</p> <p>undertake to provide experts from their civil aviation authorities to participate in the development of State and regional positions; and</p> <p>ensure to the extent possible, State delegation to regional conferences, ITU Study Groups and WRC should include experts from Civil Aviation authorities.</p>	Notify States	<p>ICAO APAC Office</p> <p>States</p>	<p>State Letter</p> <p>Support to ICAO position on WRC agenda through participation in WRC 2011 now postponed January 2012</p>	<p>October 2009</p> <p>Jan 2010</p>	<p><b>Completed</b> State Letter dated 12 October 2009</p>	<p>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.</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
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	Updated guidance material if clarity is needed	Nov 2010	Completed Issue form submitted to HQ Oct2009	Noted
				ICAO HQ/ ANB/MET /AIM	Updated guidance material	2010		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, WAFS 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>WAFS Washington Provider State/ APAC Office</p> <p>WAFS 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>Completed</p> <p>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 3<sup>rd</sup> Generation.</i></p>	Update ANP/FASID	ICAO HQ (through WAFSOPSG )	Amendment Proposal to ANP/FASID (if deemed necessary by WAFSOPSG/5)	Jan 2010	<p><u>COMPLETE</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	<b>Harmonization of procedures for OPMET data issuance</b>	<p>That, ICAO Regional Office be invited to</p> <p>a) Include examples of correct methods of issuing OPMET data for inclusion in the ROBEX Handbook;</p> <p>b) After completion of a) above request States in the Asia/Pacific Region to implement these methods as a matter of priority; and</p> <p>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.</p>	<p><b>Update ROBEX Handbook</b></p> <p><b>Inform States</b></p> <p><b>RODB monitoring of OPMET compiling/filing times</b></p>	<p><b>ICAO APAC Office</b></p> <p><b>ICAO APAC Office</b></p> <p><b>RODBs / ICAO APAC Office</b></p>	<p><b>Updated ROBEX Handbook</b></p> <p><b>State Letter</b></p> <p><b>Inclusion of monitoring results in OPMET/M TF/8 Report</b></p>	<p><b>Oct 2009</b></p> <p><b>Oct 2009</b></p> <p><b>Apr 2010</b></p>	<p><b>COMPLETED</b></p> <p><b>COMPLETED</b></p> <p><b>IN- PROGRESS</b> RODBs can not easily measure reception of OPMET data issuance at SADIS IATA expected to submit paper at CNS/MET SG/14</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 20/63	<b>Improvement of OPMET data availability for AOP aerodromes</b>	<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><b>SADIS/ISCS harmonization</b></p> <p><b>IATA OPMET monitoring</b></p> <p><b>Inform States</b></p>	<p><b>ISCS and SADIS Provider States/ ICAO APAC Office</b></p> <p><b>IATA</b></p> <p><b>ICAO APAC Office</b></p>	<p><b>ISCS/SADIS OPMET harmonization</b></p> <p><b>Table of AOP aerodromes not available on SADIS</b></p> <p><b>State Letter</b></p>	<p><b>Oct 2009</b></p> <p><b>Dec 2009</b></p> <p><b>Jan 2010</b></p>	<p><b><u>IN-PROGRESS</u></b>  <b>ISCS has provided Changes for SADIS Necessary for harmonization</b></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	<b>Improvement of OPMET data availability for non- AOP aerodromes</b>	<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><b>SADIS/ISCS harmonization</b></p> <p><b>IATA OPMET monitoring</b></p> <p><b>Inform States</b></p>	<p><b>ISCS and SADIS Provider States/ ICAO APAC Office</b></p> <p><b>IATA</b></p> <p><b>ICAO APAC office</b></p>	<p><b>ISCS/SADIS OPMET harmonizati on</b></p> <p><b>Table of AOP aerodromes not available on SADIS</b></p> <p><b>State Letter</b></p>	<p><b>Oct 2009</b></p> <p><b>Dec 2009</b></p> <p><b>Jan 2010</b></p>	<p><b><u>IN-PROGRESS</u></b> <b>ISCS has provided Changes for SADIS Necessary for harmon ization</b></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	<b>Replace FASID Tables MET 4A and 4B by the ROBEX Handbook</b>	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 <b>Appendices V and W</b> to the APANPIRG/20 Report on Agenda Item 3.4. Subsequently, FASID Tables MET 4A and 4B will be removed from the FASID.	<b>Update ANP/FASID</b>	<b>ICAO APAC Office</b>	<b>Amendment Proposal to ANP/FASID</b>	<b>Dec 2009</b>	<b>COMPLETE</b> 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	<b>Replace FASID Table MET 4C by the Asia/Pacific regional OPMET data banks interface control document</b>	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 <b>Appendices V and W</b> to the APANPIRG/20 Report on Agenda Item 3.4. Subsequently, FASID Table MET 4C will be removed from the FASID.	<b>Update ANP/FASID</b>	<b>ICAO APAC Office</b>	<b>Amendment Proposal to ANP/FASID</b>	<b>Dec 2009</b>	<b>COMPLETE</b> 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	<b>Cost Recovery by Volcano Observatories</b>	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.	<b>Investigate cost recovery examples by volcanic observatories</b>	<b>VA/TC I TF/ VAACs/ ICAO HQ (IAVWOP SG)/ ICAO APAC Office</b>	<b>State Letter</b>	<b>June 2010</b>	<u>COMPLETE</u> (SL- T4/9.1.1:AP058/10 (MET) sent 29Mar2010	
C 20/68	<b>Expanded WV SIGMET Test Development</b>	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.	<b>Develop WV expansion SIGMET test</b>  <b>Conduct and report on trial test</b>	<b>Japan/ VAAC Darwin</b>  <b>Japan</b>	<b>Updated WV expansion SIGMET Test</b>  <b>Test results included in OPMET/M TF/8 and CNS/MET SG/14 reports</b>	<b>Apr 2010</b>  <b>Apr 2010 / Jul 2010</b>		

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	<b>Implementation of SIGMET on Radioactive Clouds and Aerodrome Warnings on Tsunami</b>	<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>	<b>Proposals to develop provisions and guidance material on radioactive cloud SIGMET and Tsunami aerodrome warnings</b>	<p>ICAO HQ</p> <p>ICAO HQ ANB/MET /AIM</p>	<p><b>Amendment criteria to be included in Am. 76 or 77 to Annex 3, as necessary; guidance</b></p> <p>Annex 3 provisions and guidance material as necessary related to the issuance of aerodrome warnings on tsunami.</p>	<b>2013 or 2016</b>	<p><b>COMPLETED</b></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.          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 <b>Appendices Y and Z</b> 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	<b>Ionospheric Data Collection – Focal Point of Contact</b>	<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	COMPLETED	

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	<b>Adopt GOLD to replace FOM</b>	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		Noted
C 20/74	<b>Removal of the APANPIRG Air Navigation Deficiency AP-MET-15</b>	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	COMPLETED	

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	<b>MET deficiencies to be added to the APANPIRG list of Air Navigation Deficiencies</b>	That, the list of proposed air navigation deficiencies in <b>Appendix F</b> 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.	<b>Update list of APANPIRG air navigation deficiencies</b>	<b>APAC Office</b>	<b>Updated list of APANPIRG air navigation deficiencies</b>	<b>Dec 2009</b>	<b>COMPLETED</b>	
C 20/76	<b>Continuation of CAEMSA-SP</b>	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.	<b>Provide necessary means for the continuation of CAEMSA-SP</b>	<b>DGCA Conference</b>	<b>Continuation of CAEMSA-SP</b>	<b>Oct 2009</b>	<b>COMPLETED</b>	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.