



International Civil Aviation Organization

**SEVENTEENTH MEETING OF THE METEOROLOGY
SUB-GROUP (MET SG/17) OF APANPIRG**

Bangkok, Thailand, 13 – 16 May 2013

Agenda Item 3: Review

3.1) follow-up actions on reports of the CNS/MET SG/16 and APANPIRG/23 meetings

FOLLOW-UP ACTIONS ON CNS/MET SG/16 AND APANPIRG/23

(Presented by the Secretariat)

SUMMARY

This paper presents the status of implementation of decisions/conclusions in the meteorology (MET) field formulated by the Sixteenth Meeting of the Communications, Navigation, Surveillance and Meteorology Sub-group (CNS/MET SG/16) and adopted by the Twenty-third Meeting of the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG/23).

1. Introduction

1.1 The Communications, Navigation, Surveillance and Meteorology Sub-group (CNS/MET SG) meets prior to the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG) to discuss the status of implementation of various decisions and conclusions adopted by APANPIRG in previous meetings and to formulate draft decisions/conclusions for consideration by subsequent meeting(s) of APANPIRG.

1.2 In accordance with APANPIRG/22 Decision 22/52 – *New APANPIRG Structure*, effective from the 2013 meeting year, the Meteorology Sub-group (MET SG) will meet separately from the Communications, Navigation and Surveillance Sub-group (CNS SG) and focus on matters relating to the MET field under the new terms of reference of the MET SG.

2. Discussion

2.1 The status of follow-up actions taken by States and the ICAO APAC Regional Office on decisions/conclusions in the MET field adopted by APANPIRG/23 is provided in tabular form in **Appendix A** to this paper. The meeting will be pleased to note that 5 out of 9 MET-related decisions/conclusions stemming from APANPIRG/23 may be considered complete and that the remaining 4 are in progress.

2.2 In relation to Conclusion 23/41, procedures for conducting Volcanic Ash Advisory Centre (VAAC) back-up tests were developed jointly by the VAACs Darwin and Tokyo and included in the Regional SIGMET Guide. The conjoint session of the Regional OPMET Bulletins Exchange Working Group (ROBEX WG) and the Meteorological Hazards Task Force (MET/H TF), held in Bangkok, Thailand, on 13 March 2013, agreed that further review and possible amendments to the VAAC back-up test procedures would be completed by August 2013. Furthermore, procedures for VAAC back-up and VAAC back-up testing are being developed between Wellington and Darwin and arrangements for VAAC back-up (for the area south of latitude 20 south) are being formalized between the two respective States, New Zealand and Australia. The procedures will be promulgated to ICAO for consideration and inclusion in the SIGMET Guide and VAAC back-up testing may be conducted before the end of 2013.

2.3 In relation to Conclusion 23/45, the meeting is informed that the World Meteorological Organization (WMO) and the ICAO Regional Office have commenced discussion on a tentative agreement to visit State(s) in the APAC region that have experienced serious difficulties in complying with recent requirements relating to the implementation of a quality system for meteorological service.

2.4 The meeting is reminded that action in relation to Decisions 23/46 and 23/48 is expected to be completed during the meeting when papers presented on the subjects/tasks of the MET SG and on the topic of space weather are reviewed by the meeting.

2.5 **Appendix B** to this paper provides the status of implementation of the outstanding decisions/conclusions in the MET field adopted by APANPIRG up to and including APANPIRG/22. The meeting will be pleased to note that 4 out of 10 outstanding MET-related decisions/conclusions stemming from APANPIRG/22 and earlier may be considered complete and that the remaining 5 are in progress.

2.6 In relation to Conclusion 19/43, the group will be pleased to note that progress was reported by the Seventh Meeting of the World Area Forecast System Operations Group (WAFSOPSG/7), held in Lima, Peru, from 17 to 21 September 2012. An updated guidance document on the harmonized WAFS grids for cumulonimbus clouds, icing and turbulence forecasts was placed on the WAFSOPSG website (Sep 2012) and reviewed by WAFSOPSG/7. Furthermore, World Area Forecast Centre (WAFc) London is to provide computer-based initial training material on the WAFSOPSG website by April 2013; on the intended use of WAFS gridded forecasts of cumulonimbus clouds, icing and turbulence (WAFSOPSG/7 Conclusion 7/13 refers).

2.7 The group is reminded that progress in relation to Conclusion 20/68 was suspended due to the catastrophic earthquake/tsunami and accidental release of radioactive material that occurred in Japan in March 2011. Subsequently, the MET/H TF/3 meeting, held in Bangkok, Thailand, from 13 to 15 March 2013, was informed of outcomes from the ICAO EUR/NAT Region Volcanic Ash Exercise conducted in Kamchatka (VOLKAM13) from 15 to 16 January 2013, particularly with respect to the lessons learned and recommendations from the exercise that would be worthy of further consideration should a similar exercise(s) be conducted in the APAC Region. It may be possible now that the group would rather focus on a similar volcanic ash exercise in the APAC region, which would also allow for the issuance of test SIGMET and test NOTAM on volcanic ash.

2.8 In relation to Decision 21/9, the meeting is apprised that the composition and the work plan of the ad-hoc group formed by the MET/H TF to develop the framework of regional contingency plans on volcanic ash, tropical cyclone, tsunami and radioactive cloud was reviewed and updated at the MET/H TF/3 meeting. The task of the ad-hoc group was also incorporated into the overall work plan document of the MET/H TF.

2.9 The group is apprised of developments in relation to Conclusion 21/47 in which the International Airways Volcano Watch Operations Group (IAVWOPSG) endorsed at its Seventh Meeting, held in Bangkok, Thailand, from 21 to 25 March 2013, the development of a digital format of the volcanic ash advisory, in an XML/GML format, for implementation as part of draft Amendment 77 to Annex 3 — *Meteorological Service for International Air Navigation* (IAVWOPSG/7 Decision 7/25 refers).

2.10 With reference to Conclusion 21/48, the meeting is reminded that development of global database of SIGMET requirements is underway in ICAO HQ (along with the development of a database for all MET Tables contained in the air navigation plan), however development of Table MET 1B will not meet the proposed target date.

2.11 The meeting is also reminded that in relation to Conclusion 22/44, Amendment 76 to Annex 3, which becomes applicable 14 November 2013 subject to there being no notifications of disapproval expressed, will include an example in the SIGMET template (Table A6-1) to report a situation where no volcanic ash is expected in the forecast section of a (volcanic ash) SIGMET. The Regional SIGMET Guide will also be updated to include an example where no volcanic ash is expected in the forecast section of a (volcanic ash) SIGMET.

3. Action by the Meeting

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss and review any relevant matters concerning follow-up to APANPIRG decisions/conclusions in the MET field.

Appendix A

(Reproduced from Attachment 3 to the APANPIRG/23 Report)

APANPIRG/23 Conclusions/Decisions – Action Plan

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|---|---|------------------|---|---|---|
| C 23/39 | User readiness for transition from GRIB1 to GRIB2 code form WAFS Forecasts | That, ICAO urges States/users of WAFS forecasts in the ASIA/PAC Region to accelerate preparations for transition from WMO GRIB1 to GRIB2 WAFS forecasts if not already done so. | ICAO APAC office | State Letter | Sep 2012 – then revised to Mar 2013 to realign target date with WAFSOPSG/7 C 7/11 | COMPLETED State Letters: AP029/13 and AN10/3.1-13/2 |
| C 23/40 | Update to the ASIA/PAC FASID Table MET 6 | That, the ASIA/PAC FASID Table MET 6 be amended to reflect the requirements provided by States for primary Internet-Based service for WAFS Forecasts as provided in Appendix P to the Report on agenda item 3.4. | ICAO APAC office | Amendment to ASIA/PAC FASID Table MET 6 | Nov 2012 – then revised to Jan/Feb 2013 to combine with PFA required by WAFSOPSG/7 Conclusion 7/2 | COMPLETED PFA APAC 13/3 |

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|--|---|--|--|---|---|
| C 23/41 | VAAC Backup Procedures in the ASIA/PAC Region | <p>That, Australia, Japan and New Zealand considers the further development of:</p> <p>a) VAAC Backup Procedures in the Asia-Pacific Region, as given at Appendix Q to the Report on agenda item 3.4, in order to include Tokyo, Wellington and Darwin VAACs; and</p> <p>b) Procedures for VAAC Backup Tests between Tokyo, Wellington and Darwin VAACs for inclusion in the Asia/Pacific Regional SIGMET Guide.</p> | <p>a) Japan, New Zealand and Australia;</p> <p>b) ICAO APAC Office</p> | <p>a) VAAC Backup Procedures for Tokyo/Wellington/Darwin; and</p> <p>b) Appendix (VAAC Backup Test Procedures) in ASIA/PAC Regional SIGMET Guide</p> | <p>Nov 2012</p> <p>a) revised to Mar 2013 for consideration at conjoint session of ROBEX WG/11 & MET/H TF/3</p> | <p>In Progress</p> <p>a) Conjoint session of ROBEX WG/11 & MET/H TF/3 to consider further development.</p> <p>b) Draft VAAC back-up and back-up test procedures in updated Regional SIGMET Guide (Oct 2012).</p> |

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|---|---|------------------|--------------|----------------|--|
| C 23/42 | Improvement of OPMET Data Availability | <p>That, the ICAO Secretariat, with the assistance of the OPMET/M TF, be invited to:</p> <p>a) continue the efforts to improve the availability (IATA requires at least 95% for AOP and 90% for non-AOP aerodromes listed in the FASID), timeliness and regularity of OPMET data at the RODBs, SADIS and WIFS, through regular monitoring and testing; and</p> <p>b) remind States concerned to ensure not more than one TAF is valid at an aerodrome at any given time (in accordance with Annex 3 – Meteorological Service for International Air Navigation, 6.2.7), and transmitted internationally as per ICAO provisions for services in support of flight planning.</p> | ICAO APAC office | State Letter | September 2012 | <p>COMPLETED</p> <p>State Letter AP139/12 (Oct 2012)</p> |

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|--|---|------------------|--------------|----------------|--|
| C 23/43 | Improvement of Timeliness, Regularity and Availability of OPMET | <p>That, ICAO urges the States in the ASIA/PAC Region to:</p> <p>a) note the proposed Amendment 76 Annex 3 provision (intended applicability in November 2013) that will require an aerodrome forecast in the TAF code form to be issued not earlier than one hour prior to the beginning of its validity period;</p> <p>b) note that IATA expressed its requirement for international exchange of aerodrome forecasts to be completed no later than 30 minutes before the commencement of the period of validity *;</p> <p>c) continue efforts for standardized procedures for the issuance of OPMET data;</p> <p>d) consider the details provided in the IATA monitoring for the ASIA/PAC Region; and</p> <p>e) improve the issuance of OPMET data with respect to timeliness, regularity and availability.</p> <p>* ICAO to consider the requirements expressed by IATA and amends the global provisions as necessary.</p> | ICAO APAC office | State Letter | September 2012 | <p>COMPLETED</p> <p>State Letter AP139/12 (Oct 2012)</p> |

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|--|---|------------------|---------------|---|---|
| C 23/44 | Improvement of OPMET Data Format | <p>That, ICAO remind the States in the Asia Pacific Region of the:</p> <p>a) Standards and Recommended Practices in Annex 3 – Meteorological Service for International Air Navigation concerning provision of operational meteorological information; and</p> <p>b) Annex 3 provisions concerning the quality management of meteorological information to be supplied to users that includes verification and validation procedures to be applied for the exchange of meteorological information for operational purposes, such as OPMET information.</p> | ICAO APAC office | State Letter | September 2012 | <p>COMPLETED</p> <p>State Letter AP139/12 (Oct 2012)</p> |
| C 23/45 | Implementation of Quality Management Systems for Meteorological Service Provision | <p>That ICAO, in coordination with the World Meteorological Organization (WMO), considers urgent strategies to foster the implementation of quality management systems for meteorological service amongst States in the Asia/Pacific Region in light of the ICAO Annex 3 – Meteorological Service for International Air Navigation requirement applicable 15 November 2012.</p> | ICAO APAC office | Strategy/plan | Oct 2012 – then revised to Mar 2013 to consider outcomes of related ICAO SIP proposal | <p>In Progress</p> <p>States surveyed on QMS implementation (Nov 2012).</p> <p>SIP proposal for APAC QMS workshop submitted Nov 2012 and Jan 2013 – not approved</p> |

| Conclusion/ Decision No | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 29 Apr 2013 |
|----------------------------|---|--|------------------|---|---|--|
| D 23/46 | Subjects and Task Lists for CNS and MET Sub-groups | That, the list of Subjects/Tasks for CNS Sub-group provided in the Appendix S and list of Subjects/Tasks for MET Sub-group provided in the Appendix T to the Report on agenda item 3.4 be adopted. | ICAO APAC office | CNS and MET SGs notified of the approved Task List | May 2013 | In Progress Review relevant parts by ROBEX WG/11, MET/H TF/3 and MET/R TF/3; present WP to MET SG/17 |
| D 23/48 | Aspect of Space Weather | That, CNS and MET SGs review the impact of space weather in the CNS and MET area and report to APANPIRG. | ICAO APAC office | Working Papers (reviewed by CNS SG/17 & MET SG/17 and delivered to APANPIRG/24) | 16 April 2013, for CNS SG/17 & MET/SG 17 and 7 June 2013, for APANPIRG/24 | In Progress WPs drafted for consideration by MET SG and CNS SG |

Appendix B

(Reproduced from APPENDIX A to APANPIRG/23 Report on Agenda Item 1.3)

Status of Outstanding 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 |
|--|--|--|---|-------------------------------|---|--|---|
| C 19/43 D | Training for the new WAFS gridded forecasts | <p>That, in order to facilitate the implementation by the States of the new WAFS gridded forecasts,</p> <p>a) WAFS Provider States, in coordination with ICAO and WMO, be invited to organize training on the use of the new WAFS gridded forecasts for icing, turbulence and cumulonimbus clouds; and</p> <p>b) WAFSOPSG be invited to consider, in addition to the planned regional training seminars, developing alternative methods for provision of training to the States on the new gridded forecasts for icing, turbulence and cumulonimbus clouds in order to ensure that a maximum number of</p> | <p>a) Organize training</p> <p>b) Develop alternative methods for provision of training to the States on the new gridded forecasts for icing,</p> | <p>ICAO HQ</p> <p>ICAO HQ</p> | <p>conduct training programme</p> <p>Alternative training methods</p> | <p>Revised target date- Dec 2013</p> <p>Revised target date Sep 2012</p> | <p>In Progress</p> <p>Revised target date Dec 2013 (updated twice, the last target date 2011)</p> <p>ANC action-Noted and invited the Secretary General to invite WAFS provider States in coordination with ICAO and WMO to organize the required training.</p> <p><u>WAFSOPSG/6 C 6/12:</u> develop guidance on the interpretation of the forecasts for WAFSOPSG/7</p> <p><u>WAFSOPSG/6 C 6/13:</u></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 |
|--|-------------------------------------|---|------------------------------------|-----------------------|-------------|----------------|--|
| | | <p>WAFS users in the States will have access to the training in the most efficient way.</p> <p><i>Note: The alternative training methods include computer based training products distributed to States and web-based training.</i></p> | turbulence and cumulonimbus clouds | | | | <p>will review training requirements based on guidance developed (Sep 2012)</p> <p>WAFSOPSG/7 (17 to 21 September 2012) will be reviewing the training needs/scope in light of the follow-up to WAFSOPSG Conclusions 6/12 and 6/13</p> <p>As a follow-up of C 6/12, an updated guidance document [on the harmonized WAFS grids for cumulonimbus clouds, icing and turbulence forecasts] was placed on the WAFSOPSG website (Sep 2012) and reviewed by WAFSOPSG/7.</p> <p>As a follow-up of C 6/13, WAFC London</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 |
|--|--|---|---|--|--|--|--|
| | | | | | | | to provide computer-based initial training material on the WAFSOPSG website by April 2013 [on the intended use of WAFS gridded forecasts of CB clouds, icing and turbulence] (WAFSOPSG/7 Conclusion 7/13 refers). |
| C 20/68 | Expanded WV SIGMET Test Development | <p>That,</p> <p>a) Japan be invited to further develop an expanded WV SIGMET Test utilizing automated templates in consultation with the Darwin VAAC; and</p> <p>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.</p> | <p>Develop WV expansion SIGMET test</p> <p>Conduct and report on trial test</p> | <p>Japan/ VAAC Darwin</p> <p>Japan</p> | <p>Updated WV expansion SIGMET Test</p> <p>Test results included in OPMET/M TF/8 and CNS/MET SG/14 reports</p> | <p>Apr 2010</p> <p>Revised target date July 2012</p> | <p>In Progress</p> <p>Efforts suspended due to earthquake/Tsunami and accidental release of radioactive material</p> <p>Revisited by MET/H TF/3 (Mar 2012). Japan advised that no progress has been made; recommended to review/reconsider scope of C 20/68 in collaboration with RACP TF activities.</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 |
|--|--|--|--|---|---|---------------------------------|--|
| D 21/9 | Develop Sub-Regional volcanic Ash Contingency Plan | <p>That,</p> <p>a) in view of the recent volcanic activity in Iceland, the CNS/MET Sub-Group be requested to develop sub-regional volcanic ash contingency plans; and</p> <p>b) urge States to designate appropriate contact points to establish/maintain contacts in the interim period until the sub-regional volcanic ash contingency plans become available.</p> | <p>CNS/MET SG to develop volcanic ash contingency plans</p> <p>States to provide POC for volcanic ash events</p> | <p>ICAO APAC</p> <p>ICAO APAC</p> | <p>Volcanic ash regional contingency plan</p> <p>Contingency contact list</p> <p>Assignment of duties – CNS/MET SG/14 D14/30 to METWARN/I TF and MET/ATM TF</p> | <p>Dec 2011</p> <p>Jan 2011</p> | <p>a) In Progress Ad-hoc group presented WP to MET/H TF/3 and RACP TF/3 in March 2013</p> <p>b) 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 |
|--|--|--|---|---|---|-----------------------------------|---|
| C 21/46 | Improvements to WAFS Implementation | <p>That, the WAFSOPSG is invited to discuss and consider the following improvement measures in WAFS implementation:</p> <p>a) the WAFC Provider States inform users in advance about forthcoming changes to the contents of the WAFS forecasts; and</p> <p>b) further guidance be provided regarding the specific actions to be taken by the MET service providers and all relevant end users of WAFS upon receiving the administrative message.</p> <p><i>Note: Guidance should also include any requirement for a user State to generate its own administrative message for a product affected by a received administrative message.</i></p> | <p>Determine changes, if necessary, to the WAFS change bulletin notice</p> <p>Determine further guidance, if necessary, for users of WAFS administrative messages</p> | <p>WAFSOPS G/6 (March 2011)</p> <p>WAFSOPS G/6 (March 2011)</p> | <p>Update WAFS bulletin notice, if required</p> <p>Update guidance on WAFS administrative messages, if required</p> | <p>July 2011</p> <p>July 2011</p> | <p>Completed WAFSOPSG/7 (Sep 2012) formulated Conclusion 7/8 — Issuance of administrative messages to inform users of changes to WAFS services and updates to WAFS documentation.</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 21/47 | Improvements to VA and TC advisories | That, The IAVWOPSG consider including the file name of the graphical advisories, if issued, under “Remarks” of the corresponding textual advisories. | Determine if link between graphical and textual advisories is necessary | IAVWOPS G/6 (September 2011) | Update relevant standards (Am 76 to Annex 3) and/or guidance material if necessary | 2013 | In progress Recognizing that the earliest opportunity to include such a provision into Annex 3 would now be Amendment 77 (with applicability in November 2016), the group agreed that it would be preferable to simply note that one or more VAACs may choose to make available a CSV file of the volcanic ash advisory information to users on a bilateral basis until such time that the XML/GML format was fully implemented. |

| 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 21/48 | Update of SADIS and ISCS User Guide | <p>That, the SADISOPSG and WAFSOPSG consider the need to update the SADIS and ISCS User Guides by aligning with regional Meteorological Watch Offices requirements (Regional FASID Tables)</p> <p><i>Note: To achieve this, the following steps should be taken in time for the regional SIGMET advisory trial (1 April 2011)</i></p> <p>a) <i>Regional amendment proposals on FASID Table MET 1B;</i></p> <p>b) <i>Develop global database based on Regional requirements in a); and</i></p> <p>c) <i>Consider global database on SIGMET requirements for use in SADIS and ISCS User Guides</i></p> | <p>Amendment Proposals to Tables in the Regions, where necessary</p> <p>HQ IT develop global database of FASID Table MET 1B</p> <p>Incorporate SIGMET requirements in SADIS Users Guide (as a link to the global database)</p> | <p>ICAO APAC</p> <p>ICAO HQ</p> <p>WAFSOPS G/6 (March 2011)</p> <p>SADISOPS G/15 (May 2011)</p> | <p>Up-to-date FASID Tables MET 1B for all Regions</p> <p>Global MWO database</p> <p>Provide link to global database for SIGMET requirements</p> | <p>Dec 2010</p> <p>Mar 2011</p> <p>Apr 2011</p> | <p>Complete</p> <p>In progress (all regions submitted latest version table in excel format to HQ in Nov 2010, except for NAM)</p> <p>WAFSOPSG/6 noted development of database at HQ (but will not meet target date)</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 22/41 A & C | Improvement of WAFS SIGMET availability | That, the SADIS and ISCS States be invited to participate in regional SIGMET monitoring exercises and/or regional SIGMET tests in the APAC Region in an effort to improve the availability of SIGMET. | Request SADIS and ISCS States to conduct monitoring of Regional SIGMET and to conduct tests | ICAO APAC Office | State Letter to SADIS and ISCS States | January 2012 Revised date- June 2012 | Completed SL (Ref:T4/7.5 AP127/12) 28 Sep 2012 |
| C 22/42 A & C | Improvement of WAFS SIGWX charts | That, the WAFSOPSG be invited to request the WAFS Provider States to provide SIGWX chart verification results, if any, to illustrate the degree of accuracy of their SIGWX charts. | Invite WAFSOPSG to request WAFS provider States to improve SIGWX charts | ICAO APAC Office | Letter to Secretary WAFSOPG | February 2012 | Completed WAFSOPSG/7 (Sep 2012) formulated Conclusion 7/4 — Implementation of enhanced WAFS performance indicators, which will be reported at WAFSOPSG/8 (Sep 2013). |

| 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 22/44 C | SIGMET template and example for no VA expected | That, a) ICAO consider modifying the SIGMET template in Annex 3 to include an example to report a situation when no ash is expected in the forecast section of a SIGMET; and b) the Asia/Pacific SIGMET Guide be amended accordingly with an example of a SIGMET satisfying the condition in a). | ICAO to consider modification of Annex 3 provisions relating to SIGMET | ICAO HQ/ ANB/MET ICAO APAC Office | Amendment to relevant provision of Annex 3. Amendment to Asia/Pacific SIGMET guide. | March 2012 | November 2013 In progress AN 10/1-12/8 issued 24/02/2012 December 2013 In progress |
| C 22/45 A & C | Improvement of timeliness, regularity and availability of OPMET data on the SADIS and ISCS broadcast | That ICAO be invited, a) to request States to implement the standardized procedures for the issuance of OPMET data as specified in - the ROBEX Handbook ; and b) to inform States of the details provided in the IATA monitoring for the ASIA/PAC region. | Request States to implement procedure specified in ROBEX Handbook for OPMET exchanges | ICAO APAC Office | State Letter | March 2012 | Completed SL (Ref:T4/3.2.3: AP139/12) 8 Oct 2012 |