*International Civil Aviation Organization*

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

Jakarta, Indonesia, 19 – 22 July 2010

**Agenda Item: 12: Implementation of the issuance of TAF and OPMET exchanges:**

**1) Review OPMET/M TF/8 meeting**

# EIGHTH MEETING OF THE OPMET MANAGEMENT TASK FORCE

(Presented by Secretariat OPMET/M TF)

**SUMMARY**

This paper presents a summary of the Eighth Meeting of the OPMET Management Task Force (OPMET/M TF/8) held in Bangkok from 23 to 25 March 2010.

This papers relates to:

**Strategic Objectives:**
A: Safety – Enhance global civil aviation safety
D: Efficiency – Enhance the efficiency of aviation operations

**Global Plan Initiatives:**
GPI-18Aeronautical Information
GPI-19 Meteorological systems

## 1. Introduction

1.1 The Eighth Meeting of the ASIA/PAC OPMET Management Task Force (OPMET/M TF/8) of the CNS/MET Sub-group of APANPIRG was held in Bangkok, Thailand, from 23 to 25 March 2010. The meeting was attended by 38 experts from Australia, China, Hong Kong China, Indonesia, Japan, Malaysia, Singapore, Thailand, United States, Viet Nam, and ICAO. The full meeting report is available on the ICAO Asia/Pacific web site at http://www.bangkok.icao.int/meetings/2010/opmet_tf8/index.html.

## 2. Highlights of OPMET/M TF/8 Meeting

2.1 Highlights of the OPMET/M TF/8 meeting are provided to the CNS/MET SG/14 meeting for progress related to OPMET exchange in the region.

- TORs reviewed, but no recommendations made
  - CNS/MET SG/14 may review TORs provided in **Attachment 1**

- 4th meeting of the Regional OPMET Data Banks Coordination Meeting held from 11-12 February 2010 in Chiang Mai, Thailand (http://www.bangkok.icao.int/meetings/2010/rodb4/index.html)

- Comprehensive OPMET exchange action item list developed and updated at the OPMET/M TF/8 meeting which is provided in **Attachment 2**

- Status of APANPIRG deficiencies reviewed

- IATA monitoring of OPMET on SADIS and ISCS

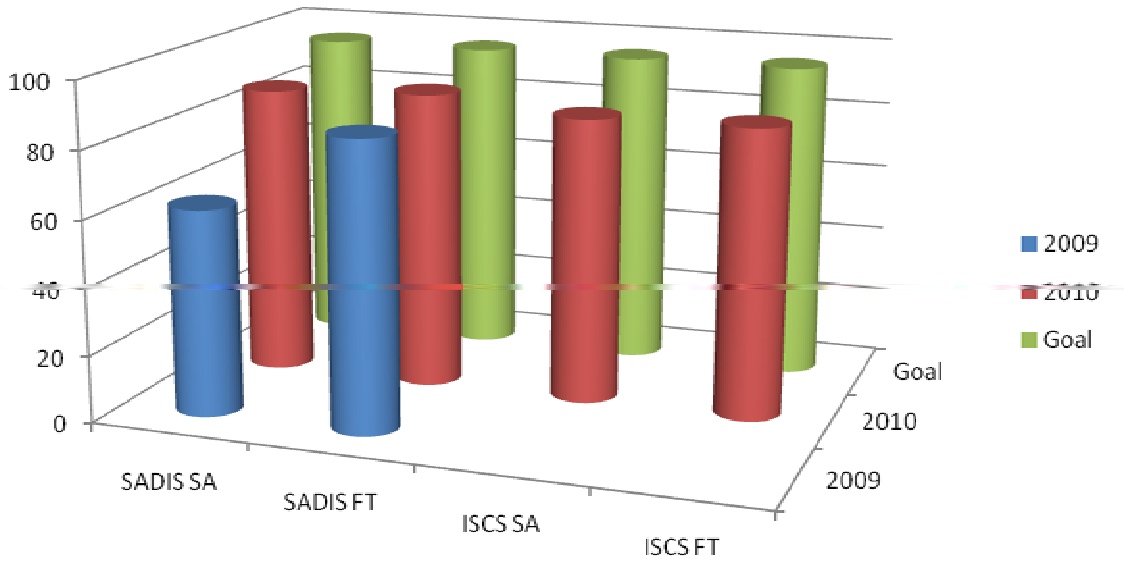
- Reference OPMET database (FASID Tables MET 1A and 2A) appeared out of date and coordination with RODB Singapore recommended to correct reference OPMET Tables

  - Since the meeting IATA provided further explanation that one of the tables (third of series) contained aerodromes not in the FASID Tables MET 1A or 2A and that the first two tables of the series presented in the OPMET/M TF/8 meeting WP/11 and WP/12 referenced current FASID Tables MET 1A and 2A

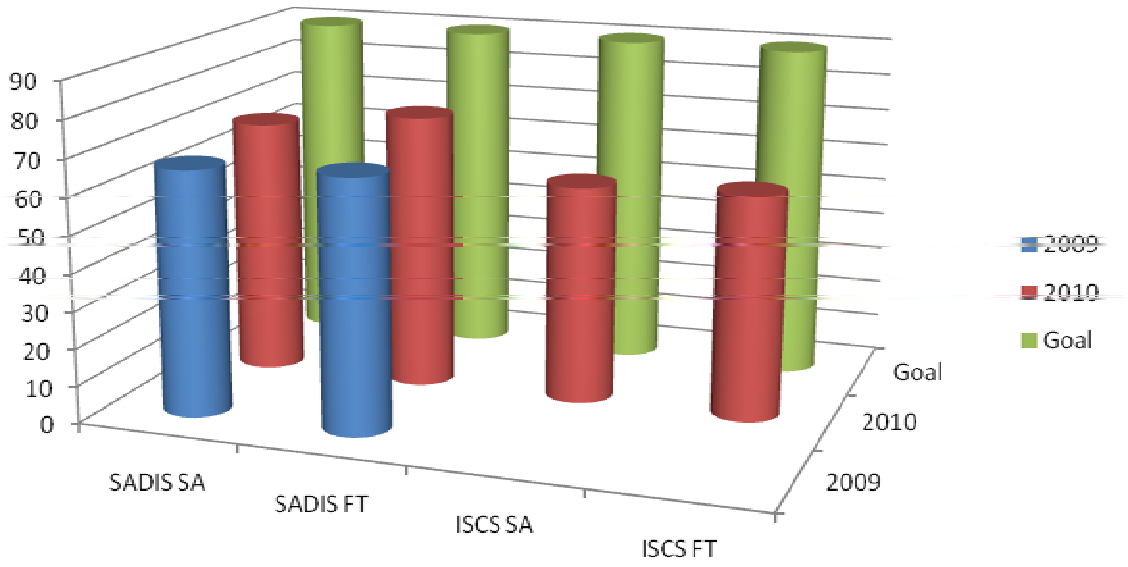
  - Results were encouraging in that METAR/TAF reception for AOP and non-AOP aerodromes increased at SADIS and ISCS as provided in the following charts (values in parenthesis from 2009)

| OPMET Reception | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| System | AOP aerodromes | | | Non-AOP aerodromes | | | Non-AOP aerodromes not listed in Tables | | |
| | SA (%) | TAF (%) | FC (#) | SA (%) | TAF (%) | FC (#) | SA (#) | TAF (#) | FC (#) |
| ISCS | 85.4 | 86.3 | 14 | 58.7 | 60.1 | 1 | 76 | 33 | 1 |
| SADIS | 87.3 (61.7) | 89.3 (86) | 14 | 69.2 (66.1) | 74.1 (67.7) | 2 | 64 | 24 | 20 18 only FC |
| Goal | 95 | 95 | 0 | 90 | 90 | 0 | | | |

**SADIS/ISCS SA/TAF Reception for AOP Aerodromes**




**SADIS/ISCS SA/TAF Reception for non-AOP Aerodromes**




- To facilitate a further increase in OPMET reception at SADIS/ISCS, the following recommendations for consideration by IATA to present at the CNS/MET SG/14 meeting were made:

    - Invite the ICAO Regional Office to inform States of FASID Table MET 1A requirements based on a list of AOP aerodromes by State whose OPMET data are not received at SADIS or ISCS;

- Invite the ICAO Regional Office to consult States on their intention in distributing OPMET data for their non-AOP aerodromes currently listed in FASID Table MET 2A based on a list of non-AOP aerodromes by State whose OPMET data are not received at SADIS or ISCS;

- Invite the SADIS and ISCS Provider States to further harmonize their OPMET data base referencing a list of aerodromes by State that are not received at either SADIS or ISCS;

- Invite the ICAO Regional Office to consult States to distribute OPMET data for non-AOP aerodromes based on a list of non-AOP aerodromes whose OPMET data is received at SADIS or ISCS but is not currently listed in FASID Table MET 2A. If the State concurs that OPMET data information be distributed, even if partial (e.g. METAR only), the OPMET information for the non-AOP aerodrome will be included in FASID Table MET 2A;

- Invite the ICAO Regional Office to inform States of irregular OPMET data based on a list of AOP aerodromes by State whose OPMET data is deemed irregular by the user; and

- Invite the ICAO Regional Office to consult States of irregular OPMET data based on a list of non-AOP aerodromes by State whose OPMET data is deemed irregular by the user.

- OPMET deficiencies were identified by the Singapore IROG and RODB Bangkok which were included in the OPMET exchange action item list for action by RODBs, ROs and States

- Report on RODB Nadi developments included commissioning of their AFTN/AIS/OPMET System in April 2010 and coordination with RODB Singapore in the trial period (RODB Singapore receiving TAF bulletins FTPS31 NFFN regularly since 20 March 2010)

- RODB Singapore upgraded the Singapore Messages Switching System in December 2009

    - ability to send and request OPMET data via email (WP/16 to OPMET/M TF/8 meeting)
    - handle message switching in XML
    - handle GRIB1 and GRIB2 format for transmission of flight documents
    - use of XX geographical designator in WMO abbreviated heading

- Noted that another round of SADIS/ISCS harmonization underway

- Indonesia implementation plan for meeting Amendment 74 to Annex 3 TAF requirements (30-hour TAF at 5 aerodromes, 24-hour TAF at all other AOP aerodromes, filing 1 hour before the start period of validity, issuance of one TAF (24 or 30-hour) for international use expected in July 2010)

- Review of Amendment 75 to Annex 3 changes (which does not include a proposed change to the numbering of SIGMET for different phenomena) and the need to distribute the final Amendment 75 changes to States

- Review of Regional Guidance (ROBEX HB, SIGMET Guide, and ICD)

- Updated performance indicators provided by RODB Singapore that did not screen AUTO messages from Australia

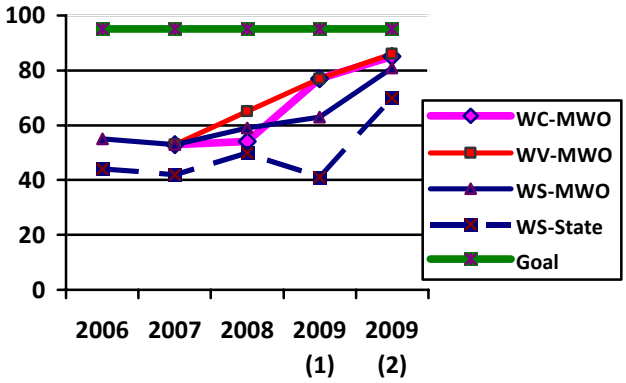
- RODB Bangkok backup transmission to SADIS gateway yielded 98.3% transmission that would have been transmitted by RODB Singapore and remedies expected for the remaining 1.7% non transmitted OPMET data

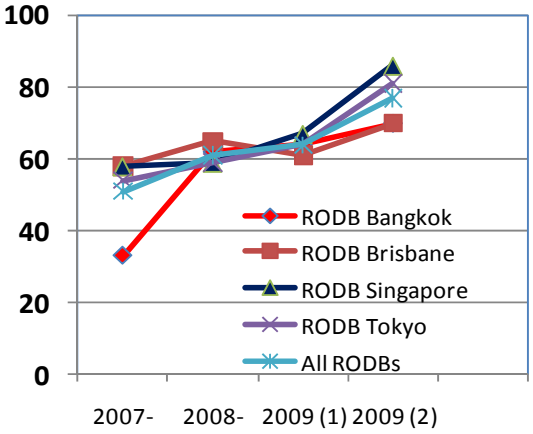
- Use of XX for geographical designator for Bhutan (not defined in WMO no. 386) for OPMET data from Paro International (VQPR)

- Optional group RRx implemented in accordance with WMO-No. 386 at numerous bulletin communication centres and RODBs except for RODB Brisbane (RODB Nadi status not known)

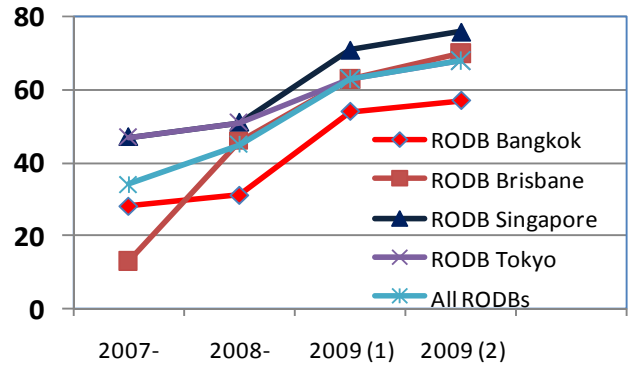
- Increase in participation of WC, WV and WS SIGMET test results as noted in the enclosed graphs and errors identified included in OPMET exchange action item list

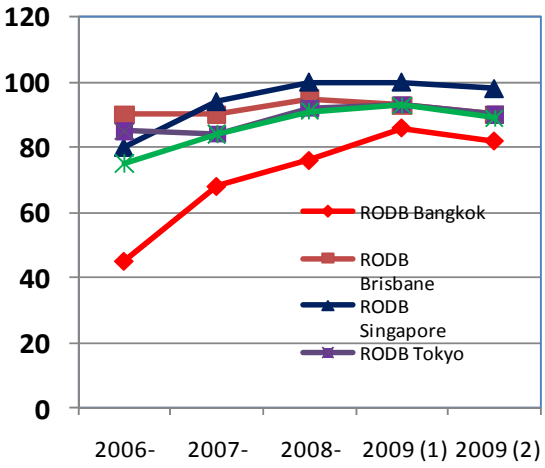
**SIGMET tests participation trends**




**RODBs' reception trends – WC, WV, WS (below, upper-right, lower-right)**



- Update on XML coded OPMET information

- Update on ISCS-G2 cessation plans and WIFS developments (replacement system WIFS, WIFS availability, ISCS-G2 contract extension, options for greater Internet security, and development of guidance material)

- Determination of next round of SIGMET tests (WC, WV and WS SIGMET tests to be held on 10, 17, and 24 November 2010 at 0200 UT)

- Determination of date of next OPMET monitoring period (December 2010 and January 2011)

- Determination of OPMET/M TF/9 meeting (23-25 March 2011 with emphasis on paper due date of 1 March 2011 as well as the inclusion of RODB matters since an RODB/5 meeting was deemed unnecessary)

## 3. Development since the OPMET/M TF/8 Meeting

3.1 Developments since the OPMET/M TF/8 meeting are provided in the OPMET exchange action items list. Mainly, States were notified of OPMET errors identified through IATA and RODB monitoring as well as in SIGMET tests with several responses by States to the Regional Office of action being taken. This information is reflected in the OPMET exchange action item list in **Attachment 2**.

## 4. Action required by the Meeting

4.1 The meeting is invited to:

a) note the information provided in this paper regarding the outcome of the OPMET/M TF/8 meeting; and

b) consider review of TORs in **Attachment 1**.

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**TERMS OF REFERENCE OF ASIA/PAC OPMETMANAGEMENT TASK FORCE (OPMET/M TF)**

## 1. Terms of Reference

-Review the OPMET exchange schemes in the ASIA/PAC and MID Regions and develop proposals for their optimization taking into account the requirements by the aviation users and the current trends for global OPMET exchange;

-Develop standardized quality control, monitoring and management procedures related to ROBEX exchange and other exchanges of OPMET information;

- Regularly update the regional guidance material related to OPMET exchange;

-Liaise with other groups dealing with communication and/or management aspects of the OPMET exchange in ASIA/PAC and other ICAO Regions (ASIA/PAC ATN Implementation Coordination Group, BMG EUR Region, CNS/MET SG MID Region, SADISOPSG).

## 2. Work Programme

The work to be addressed by the ASIA/PAC OPMET Management Task Force includes:

(a) to examine the existing and any new requirements for OPMET exchange in ASIA/PAC and MID regions and assess the feasibility of satisfying these requirements, taking into account the availability of the data;

(b) to keep under review the ROBEX scheme and other OPMET exchange schemes and prepare proposal for updating and optimizing of the schemes;

(c) to review and update the procedures for interregional OPMET exchange and ensure the availability of the required ASIA/PAC and MID OPMET data for the AFS satellite broadcasts (ISCS and SADIS);

(d) to keep under review and provide timely amendments to the regional guidance material on OPMET exchange; to ensure that guidance material contains procedures for the exchange of all required OPMET data types: SA, SP, FT, WS, WC, WV, FK, FV, UA;

(e) to conduct trials and develop procedures for quality control, monitoring and management of the OPMET exchange; to foster implementation of quality management of OPMET data by the ROBEX centres and the RODBs;

(f) to monitor in coordination with the ATN 1C Group, the transition to an alternative code (i.e. XML) for OPMET exchange;

(g) to participate in the regular regional SIGMET tests;

(h) to further develop quality control guidance material and to promote implementation of quality control for OPMET management.

**3. Composition**

(a) The Task Force is composed by experts from:
Australia; China; Fiji; Japan; Hong Kong, China; India; Indonesia;
Malaysia, Singapore; Thailand; United Kingdom; United States; and Viet Nam;

(b) Representatives of IATA, EUR BMG and MID OPMET Bulletin Board are invited to participate in the work of the Task Force

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**OPMET Exchange Action Items List – 24 June 2010**

**(Last update: OPMET/M TF/8 meeting, Bangkok, Thailand, 23-25 March 2010)**

Meeting list contributing to progress
RODB/3 – Melbourne, Australia, 29-30 January 2009
OPMET/M TF/7 – Bangkok, Thailand, 2-4 June 2009
CNS/MET SG/13 – Bangkok, Thailand, 20-24 June 2009
APANPIRG/20 – Bangkok, Thailand, 7-11 September 2009
MID MET SG/2 – Cairo, Egypt, 15-17 December 2009
RODB/4 – Chiang Mai, 11-12 February 2010
OPMET/M TF/8 – Bangkok, 23-25 March 2010

**Subjects:**

Non ROBEX scheme issues
IROG backup tests
METAR/TAF non compliance
SIGMET non compliance / monitoring
SIGMET test issues
SIGMET Guide updates
ROBEX Handbook updates
ICD updates
Other

| Action | Assigned | Progress |
|---|---|---|
| ***Non ROBEX Scheme Issues*** | | |
| Inquiry on AFTN ICAO Int'l requests from Brasilia (SBBR) to RODB Brisbane | RO<br>APAC/SAM | RODB-3: Email sent to RO SAM. RO SAM contacted SBBR. SBBR wanted more details in reference to time of occurrence, which was forwarded to RO SAM given the monitoring period. No response since.<br>RODB-4: **(CLOSED)** (deemed low priority) |
| Request US to issue OPMET bulletins that contain only IA5 characters from KWBC (Washington) | RO<br><br>RODB Brisbane | RODB-3: Sent email to NOAA. Information being forwarded to appropriate group. Waiting for response.<br>RODB-4: Still open and assigned to RODB Brisbane for monitoring |
| OPMET data required at SADIS for aerodromes in Iraq:<br>ORBI (Baghdad) – SA, 24-h TAF<br>ORMM – (Basrah) – SA, 24-h TAF<br>ORSU – Sulaymaniyah - SA<br>ORER – Ebil – SA<br>SA, TAF are available throughout 24 hours<br>IRAQ should be using LOZZMMID AFTN destination address for the Inter-Regional OPMET Gateway (IROG) in Vienna, Austria, but this is not being done and direct connections to other regional centres being investigated. | Meeting/RODB Singapore | RODB4: As reported by the EUR Bulletin Management Group (BMG), OPMET data for these IRAQI aerodromes are required at SADIS and requested by users, but are not available. It may take some time before direct connections (to Regional Centres such as in Jordan) are installed. Waiting on response by Iraq to EUR RO for verification that reliable email exists – if so – RODB Singapore will provide information on emailing OPMET at the OPMET/M TF/8 meeting<br>OPMET-M TF/8: exchange of OPMET via email provided in WP/16 forwarded to EUR RO and Iraq |
| Coordinate with ICAO MID Regions in regard to the operation of databanks | RO APAC/EUR | OPMET-M TF/8: APAC RO consult EUR RO in obtaining<br>1) Contact list for MID Regions OPMET Focal Points<br>2) ROBEX Tables for MID Region<br>3) SIGMET AHL for MID Region<br>Informed EUR RO 1 June 2010 |
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| ***IROG Backup tests*** | | |
| IROG backup tests | RODB Singapore and Tokyo | RODB 3:<br>RODB 4: Status of Brisbane – Singapore; Tokyo – Singapore to be reported at OPMET/M TF/8 meeting<br>OPMET/M TF/8: no update |
| Resolve non transmission of OPMET data to SADIS from Bangkok RODB identified when operating in backup mode for the Singapore RODB | RODB Singapore and Bangkok | OPMET/M TF/7 (2/09): investigate possible correlation of OPMET data filing on the half hour<br>RODB 4: Test expected March 2010 to be reported at OPMET/M TF/8 meeting<br>OPMET/M TF/8: In the February backup exercise, the distribution of METARs by VTBB RODB achieved 98.3%, 8 bulletins were received late<br>TAF routing – only four bulletins not transmitted to SADIS Gateway. (in which two bulletins were received after 0800 UTC).<br>Annual test – results report next year |
| ***METAR/TAF non compliance*** | | |
| Shortfall of OPMET data reported by IATA | Working Group | OPMET/M TF/8: Working group to determine follow-up action needed. |
| IATA OPMET reception tables appear to have out of date aerodromes (Singapore WSAC and WSAT) and many more aerodromes with zero OPMET reception at SADIS/ISCS than the statistic provided. | IATA<br>RODB Singapore | OPMET/M TF/8: IATA to provide soft copy of tables generated in WP/11 and WP/12 to RODB Singapore for comparison of aerodrome databases before recalculating performance indicators. |
| Monitor WABB TAF availability via Civil Aviation Transformation Team (CATT) | RODB Singapore<br><br>RO | RODB 3: RODB Singapore monitored the availability of TAF for WABB from 1 to 10 April 2009. Only 3 of 40 TAF messages were received.<br>RO sent ICAO CATT summary of OPMET deficiencies on 3 July 2009 that included unavailability of TAF from WABB |

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| | | (since 13 May to reporting time of 30 June 2009)<br>Summary provided for CATT delegation received in Bangkok in Sep 2009<br>RODB 4: **(CLOSED)** (availability increased to 87% in Jan 2010 as reported by RODB Singapore) |
| Indonesia 2 TAF valid at one aerodrome (non compliance to Annex 3) | RO<br><br>RODB Singapore/IATA/RO<br><br><br><br><br>RO | RODB 3: errors in TAF format in Indonesia need to be re-addressed<br>OPMET/M TF/7: continue monitoring TAF in June 2009 and forward to RO States that are non compliant<br>Indonesia non compliant in TAF in June 2009 (source Singapore RODB), SL sent 3 July 2009<br>Indonesia non compliant in TAF on 25 Nov 2009 (source IATA), SL sent 14 Dec 2009<br>RODB 4: RODB Singapore determined in meeting that 2 TAF still being issued by Indonesia – RO inform Indonesia<br>OPMET/M TF/8: RODB Singapore receives 9-hr and 12-hr TAF from WIII and WIHH in addition to the long TAFs – Implementation plan provided by Indonesia – expected to become compliant in July 2010<br>EUR BMG identified short TAF issued for WIHH in May 2010 |
| India 2 TAF valid at one aerodrome (non compliance to Annex 3) | RO<br><br>Singapore RODB/IATA/RO | RODB 3: errors in TAF format in India need to be re-addressed<br>OPMET/M TF/7: continue monitoring TAF in June 2009 and forward to RO States that are non compliant<br>India non compliant in TAF in June 2009 (i.e. VABB) (source Singapore RODB), SL sent 3 July 2009<br>Indonesia non compliant in TAF on 25 Nov 2009 (source IATA), SL sent 14 Dec 2009<br>RODB 4: IATA informed RO of noncompliance and SL sent on 9 Feb 2010<br>OPMET/M TF/8: RODB Singapore no longer receiving 9-hour TAFs (FCIN31 and FCIN32) from India as of 9 Mar 2010 **(CLOSED)** |

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| | | However – EUR BMG identified short TAF issued by VOHY in May 2010 |
| Mongolia 2 TAF valid at one aerodrome (non compliance to Annex 3) | RODB Singapore/RO<br><br>RODB Singapore/RO<br><br><br>RO | Post RODB 3: Singapore RODB identified 2 TAF valid at the same time in Mongolia in February 2009, SL sent 13 March 2009<br>OPMET/M TF/7: continue monitoring TAF in June 2009 and forward to RO States that are non compliant<br>Mongolia non compliant in TAF in June 2009 (source Singapore RODB), SL sent 3 July 2009<br>RODB 4: Mongolia still issues 2 TAF as determined by RODB Singapore in the meeting – RO to re-inform Mongolia<br>OPMET/M TF/8: RODB Singapore continues to receive 9-hr TAF from Mongolia<br>Mongolia informed on 8 March 2010<br>EUR BMG identified short TAF issued for ZMUB in May 2010 |
| Sri Lanka TAF format errors | RO<br><br><br>RODB Bangkok | OPMET/M TF/7: reported TAF format errors in Sri Lanka (blank line before WMO header and use of "Z" in date/time group of WMO AHL), email sent<br>RODB 4: Monitor for format errors and report to Regional Office by the OPMET/M TF/8 meeting<br>OPMET/M TF/8: RODB Singapore reports 'Z' is still inserted in the date/time group of the WMO AHL<br>RO to inform Sri Lanka<br>Informed Sri Lanka 1 June 2010 |
| Incorrect TAF filing time (New Zealand) as noted in WP/17 to OPMET/M TF/8 meeting | RODB Singapore<br><br>RO | OPMET/M TF/8: RODB Singapore identified errors<br>RO to inform NZ to use filing time (1 hour before start period of validity – in first line)<br>Informed New Zealand 9 June 2010<br>**(CLOSED) -** NZ CAA confirmed that MetService has implemented the filing time in accordance with the RANP and ROBEX Handbook – notification 10 June 2010 |
| Incorrect TAF format (India and Indonesia) as noted in | RODB Singapore | OPMET/M TF/8: RODB Singapore identified errors; |

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| WP/17 to OPMET/M TF/8 meeting | RO | Indonesia informed at the meeting<br>RO to inform India<br>Informed India 1 June 2010 |
| TAF message without AHL (Indonesia) as noted in WP/17 to OPMET/M TF/8 meeting | RODB Singapore | OPMET/M TF/8: RODB Singapore identified errors; Indonesia informed at meeting |
| Low METAR/TAF compliance indices ( Australia, Indonesia, India, Maldives (TAF only), Myanmar, Lao, PNG, Pakistan , Saudi Arabia, and Thailand (METAR only) | RODB Singapore<br><br>RO | OPMET/M TF/8: RODB Singapore identified low TAF compliance indices; Australia, Indonesia, and Thailand attended meeting<br>RO to inform India and Maldives (is this a ROBEX Bulletin issue), Myanmar, Lao(isn't Lao only providing TAF part of the time – 3 times/day), PNG, Pakistan and EUR RO for Saudi Arabia<br>Informed States and EUR RO 1 June 2010 |
| WSSL METAR in SAMS31 bulletin not available | Malaysia | OPMET/M TF/8: Malaysia to investigate WSSL METAR availability<br><br>**(CLOSED)** - WSSL METAR included in SAMS31 WMKK bulletin as of 24 Mar 2010 - RODB Singapore 31 May 2010 |
| VTUU METAR in SATH33 bulletin not available | Thailand | OPMET/M TF/8: Thailand to investigate VTUU METAR availability<br>**(CLOSED)** – RODB Bangkok confirmed availability – 7 June 2010 |
| missing AHL in TAF message (Indonesia) | | OPMET/M TF/8: Indonesia nformed at OPMET/M TF/8 meeting |
| Address temperature group location error and multiple min/max temperatures from Switzerland | RO | RODB 3: Sent email to RO EUR but response not received due to transition of personnel<br>RODB 4: **(CLOSED)** (deficiency would be reported to EUR RO) |
| Errors in TAF format in MID (Amman, Beirut, Jeddah, Tehran filing time and format (Amman) errors) | RO | RODB 3: Sent EUR RO format errors, but due to transition of personnel, response not provided<br>RODB 4: **(CLOSED)** (deficiency would be reported to EUR RO) |
| Improve OPMET timeliness | IATA/RO | OPMET/M TF/7: improving the elapsed time from METAR |

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| | RO to ask IATA | observation and TAF creation to reception to user is desired by operators. WP35 – CNS/MET SG/13 meeting produced **APANPIRG Conclusion 20/62**, Harmonization of procedures for OPMET data issuance. Subsequently, guidance material on OPMET timeliness was clarified on pages 18 and 19 of the ROBEX HB in the September 2009 Amendment. Part c) of this conclusion, "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"<br><br>RODB 4: Meeting agreed IATA is best equipped to monitor OPMET reception times at SADIS (reception time of METAR and TAF should be 15 and 25 minutes after observation and creation) – RO to ask IATA<br>OPMET/M TF/8: Chair recommended IATA provide results to fulfil this conclusion.<br>RO to ask IATA<br>IATA to provide information at CNS/MET SG/14 meeting |
| Determine appropriate location indicator (A1A2) for Bhutan to be used in the WMO Header for sending TAF for VQPR | RO to ask WMO | OPMET/M TF/8: RO to inquire with WMO on the location indicator for Bhutan to be used in the WMO Header for sending TAF for VQPR and report back to RODB Bangkok |
| ***SIGMET non compliance/ monitoring*** | | |
| Monitor issuance of SIGMET from Sunan MWO (ZKPY) for the Pyongyang FIR (ZKKP) | RODB Tokyo<br><br>RO | OPMET/M TF/7: No SIGMET received from Pyongyang MWO (ZKPY) for 50 days monitored during convection season (9 and 30 June; 18-31 July, 1-14 August 2009) Participated in WS SIGMET test 24 Nov 2009<br>RODB 4: RODB Tokyo monitor for validation of SIGMET before proposing removal of AP-MET-16 to be reported to the RO |

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| | | Inform DPR Korea that all RODBs be sent SIGMET (RODBs Bangkok and Singapore did not receive test SIGMET)<br>OPMET/M TF/8: DPR Korea informed to send SIGMET to all RODBs in the Region on 8 March 2010<br>RODB Singapore noted that between 10 and 15 March, no SIGMET was issued by Sunan MWO (Pyongyang FIR)<br>RODB Tokyo to provide monitoring results to RO by 1 July 2010<br>RODB Tokyo provided monitoring results for the period 1 April – 20 June 2010 that revealed no SIGMET from Sunan MWO received at RODB Tokyo and deficiency will remain (analysis made comparison of SYNOP of thunderstorm in DPR Korea, TAF with thunderstorm and comparison with other adjacent FIRs) – 22 June 2010<br><br>Requested DPR Korea to have SIGEMT sent to RODBs. This would allow for the consideration of removing this deficiency – 24 June 2010 |
| Monitor progress of the issuance of SIGMET by Myanmar | RODB Bangkok<br><br>RO | OPMET/M TF/7: SIGMET is issued by Myanmar; however, the format of the validity period is incorrect. This information was forwarded to Myanmar in June 2009. Participated in WV and WS SIGMET tests on 17, 24 Nov 2009 (exempt from WC since advisory from TCAC Delhi not issued and likely due to disturbance in Indian Ocean)<br>RODB 4: RODB Bangkok monitor for validation of SIGMET before proposing removal of AP-MET-13 to be reported to the RO<br>Inform Myanmar that all RODBs be sent SIGMET (RODBs Tokyo and Brisbane did not receive test SIGMET)<br>OPMET/M TF/8: Myanmar informed to send SIGMET to all RODBs in the Region on 8 March 2010<br>RODB Singapore monitoring between 1 and 15 March revealed FOG warning (using SIGMET heading) from Yangon |

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| | | MWO and also verified by RODB Bangkok<br>RO to inform Myanmar<br>Informed Myanmar on 1 June 2010<br>RODB Bangkok to provide monitoring results (only 2 weeks of monitoring in active CB period necessary) by 1 July 2010 to RO<br><br>RODB Bangkok provided SIGMET messages issued by Yangon from 18-31 May 2010, which contained several SIGMET on several days<br><br>Format errors identified and Myanmar notified on 10 June 2010<br><br>RODB Bangkok monitoring format errors in July 2010 |
| States with incorrect WMO headers (including incorrect validity period) indentified in the WS SIGMET tests in November 2009 be informed by the Regional Office using yellow-highlighted text in Appendix 1 to RODB WP/7 as reference (i.e. FIRs Mumbai and Jakarta should be VABF and WIIZ) | RO | OPMET/M TF/8: Indonesia informed at OPMET/M TF/8 meeting<br>Bangladesh informed on 31 May 2010<br>Fiji informed on 1 June 2010<br>India informed on 1 June 2010 |
| Incorrect WMO headers for WC SIGMET test identified for MWOs: NFFN and AYPY | RODB Tokyo<br><br>RO | OPMET/M TF/8: Inform States/MWOs (NFFN and AYPY) of the incorrect WC SIGMET heading as indicated in Appendix A to WP/23 of OPMET/M TF/8<br>Informed Fiji and PNG on 1 June 2010 |
| Incorrect FIR for WC SIGMET identified for VECC MWO | RO | OPMET/M TF/8: Inform India (VECC) of the incorrect FIR designator associated with the MWO in WC SIGMET heading as indicated in Appendix A to WP/23 of OPMET/M TF/8<br>Informed India on 1 June 2010 |
| Incorrect WMO headers for WV SIGMET test identified for | RODB Tokyo | OPMET/M TF/8: Inform States/MWOs (VRMM, VECC, ZLLL, |

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| MWOs: VRMM, VECC, ZLLL, ZWWW, EDZF, NTAA, NFFN, VGGL | RO | ZWWW, EDZF, NTAA, NFFN, VGGL) of the incorrect WV SIGMET heading as indicated in Appendix B to WP/23 of OPMET/M TF/8<br>Informed Bangladesh on 31 May 2010<br>Informed Fiji, French Polynesia, India, and Maldives on 1 June 2010<br>Informed China on 9 June 2010 – China to inform MWOs 13 June 2010 |
| YMMC is re-issuing SIGMET for various WMO (i.e. ADRM, RJTD, PHFO, KKCI, and KZOA) in the Region | Australia | OPMET/M TF/8: Australia (BoM) to investigate re-issuing of SIGMET as identified in Appendix B to WP/23 of OPMET/M TF/8<br>Informed Australia on 31 May 2010 |
| Incorrect SIGMET format (Malaysia and India) as noted in WP/17 to OPMET/M TF/8 meeting | RODB Singapore | OPMET/M TF/8: RODB Singapore identified errors; Malaysia informed meeting that correction was made<br>RO to inform India<br>India informed on 1 June 2010 |
| ***RODB data catalogue*** | | |
| Post RODB data catalogue on ICAO APAC website | RO | RODB 3:<br>RODB 4: **(CLOSED)** (ICD is referenced by RODBs and is posted on web site) |
| ***SIGMET test issues*** | | |
| Propose expanded WV SIGMET test with added details to the OPMET/M TF/7 | RODB Tokyo | RODB 3: WP23 – OPMET/M TF/7; IP32 – CNS/MET SG/13; **APANPIRG C20/68**, Expanded WV SIGMET Test Development<br>RODB 4: active volcanoes makes it difficult for testing – plan to coordinate with JCAB and major airlines report to the OPMET/M TF/8 meeting<br>OPMET/M TF/8: update possible at CNS/MET SG/14 |

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| Inclusion of MID Region MWOs that receive Tropical Cyclone Advisories from TCAC Delhi in the November 2010 SIGMET tests | EUR RO<br><br>EUR&ASIA/PAC ROs | MID METSG/2: Proposal to include MID in ASIA/PAC TC SIGMET test was pragmatic since TCAC Delhi participates and would already be sending TC Advisories to the western Indian Ocean for MWOs in Iran, Kuwait, Bahrain, United Arab Emirates, Oman, and Yemen. Note - Qatar is covered by Bahrain.<br>RODB 4: RO sent amendment proposal to FASID Table MET 3A (APAC 10/6) that includes the MID MWOs under TCAC Delhi in italics and will note in *SIGMET Gui*de of this added participation<br>OPMET/M TF/8: EUR RO coordinating with MID MWOs<br>APAC 10/6 approved<br>SIGMET Guide updated June 2010 |
| Use standard spread sheet for collecting data from RODBs in preparation for the analysis of SIGMET tests | Australia | RODB 4: Template will be sent to RODBs for review by OPMET/M TF/8 meeting<br>OPMET/M TF/8: no update |
| Non-participation of RODB Nadi in providing SIGMET test information to SIGMET POCs for analysis | RO | OPMET/M TF/8: SL to Fiji reiterating the importance of analyses of SIGMET tests (reference APANPIRG)<br>Informed Fiji on 1 June 2010 |
| MID SIGMET tests clarification (ref email 2 Mar 2010- EUR) | ASIA/PAC RO/EUR RO | OPMET/M TF/8: MID SIGMET tests instructions do not include reissuance of valid SIGMET immediately after test is conducted.<br>RO to inquire if MID SIGMET test messages will be distributed to RODBs in ASIA/PAC region. If so, request reissuance of valid SIGMET immediately after issuance of test SIGMET to avoid users taking latest SIGMET that may be a test versus a valid SIGMET. (note reissuance time of valid SIGMET would be at test SIGMET time –or very near)<br>Informed EUR RO on 1 June 2010 |
| ***SIGMET Guide updates*** | | |

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| Add inclusion of MID MWOs under TCAC Delhi in WC SIGMET test procedures | RO | MID METSG/2<br>RODB 4: RO will update by June 2010<br>**(CLOSED)** - Included in June 2010 amendment to SIGMET Guide |
| Update Appendix H for missing WMO SIGMET Headers (including new entry for Afghanistan) and Melbourne correction | RO | RODB 4: RO will update by June 2010<br>**(CLOSED)** - Included in June 2010 amendment to SIGMET Guide |
| Update Appendix J to note that the RO and SIGMET test point of contact be made aware of nonparticipation in SIGMET test due to active SIGMET – for accurate accounting And include in SL of notification of SIGMET test | RO | RODB 4: RO will update by June 2010<br>Updated in June 2010 amendment<br><br>RO will include in SL of notification of SIGMET test<br>**(AUG2010)** |
| *Note that the complete list of updates associated with the June 2010 amendment to the SIGMET Guide discussed in OPMET/M TF/8 meeting are provided in Appendix D to the OPMET/M TF/8 final report* | | |
| ***ROBEX Handbook updates*** | | |
| SA and FT bulletins, SAPS31, SAPS32 NFFN and FTPS31 NFFN are not received from Nadi ROBEX Centre via AFTN at RODB Singapore<br>The following is received by ISCS:<br>SAPS31 NZKL (NCRG, NFTF, NGFU, NIUE, NSFA)<br>SAFJ31 NFFN (NFFN)<br>FTFJ31 NFFN (NCRG, NFFN, NFTF, NSFA) | RO<br><br>RODBs Nadi and Singapore | RODB4: General concept of RODB functions (use of AFTN in distributing OPMET data to other RODBs, participation in SIGMET test results, backup to RODB Brisbane) be forwarded to ICAO Headquarters for consultation and determine a course of action (to improve RODB Fiji performance)<br>OPMET/M TF/8: RODB Singapore informed the meeting that AFTN switching system for Nadi Fiji expected to be commissioned in April 2010. Testing with RODB Singapore has produced OPMET data at the RODB Singapore from the South Pacific and preliminary results encouraging. Continued coordination between RODBs Nadi and Singapore expected. |

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| | | Congratulated Fiji on distribution of OPMET via AFTN that has been operational since April 2010<br>**Will provide reminder of participation in SIGMET test analysis 2010** |
| Include non-AOP aerodromes from Japan in ROBEX HB Table B | RO/<br>Japan<br><br>RODB Singapore | RODB 3:<br>RODB 4: Japan provide a list of aerodromes by April for inclusion in June amendment<br>OPMET/M TF/8: WP/18 details the changes to the ROBEX HB, such as the inclusion of a new bulletin for which 7 of 8 aerodromes listed are non-AOP aerodromes, additional destinations of TAF and air-report bulletins (note that the change of address proposed for Port Moresby would not be consistent with Jakarta and Wellington bulletins that reference Port Moresby and will be investigated by RODB Singapore). RO to include all others requested changes in WP/18 in June amendment.<br>15April2010: RODB Singapore confirms that TAF bulletins distributed to Port Moresby uses the AYPMYMYX AFTN address (updated Wellington FTNZ31 NZKL entry in Table B and will not make change proposed by Tokyo in Appendix D since other locations used AYPYYMYX for distribution of AIREPs)<br><br>**(CLOSED)**: included non AOP aerodromes in new SAJP38 and FTJP38 bulletins in the ROBEX HB June 2010 amendment |
| Update MID info in ROBEX HB | RO | RODB 3: email sent to EUR RO, but due to transition of personnel, response not provided<br>RODB 4: Will include any changes provided by EUR RO in next amendment<br>Used real time monitoring from RODB Singapore to update MID information |

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| | | **(CLOSED)** – ROBEX HB June 2010 amendment |
| ROBEX HB amendment to include results of mean real time reception at the Singapore RODB | RODB Singapore/ RO | OPMET/M TF/7 (3/09):<br>RODB 4: Plan for including results of real time monitoring conducted in Sep 2009 in June 2010 Amendment<br>OPMET/M TF/8: draft ROBEX Tables updated by RODB Singapore according to real time monitoring on March 2010 and will be included in next ROBEX HB amendment<br>Updated ROBEX HB June 2010 amendment based another session of real time monitoring for two weeks ending 1 June 2010 by RODB Singapore<br>**(CLOSED)** – ROBEX HB June 2010 amendment |
| Afghanistan – OPMET currency in ROBEX HB – AFTN not used and thus bulletin SAIR32 OIII with regards to Afghanistan is incorrect. | RO | RODB 4: Remove SAIR32 OIII from Table A since Afghanistan does not utilize this bulletin (as confirmed by Singapore RODB)<br>Note to be added that bulletins used areSAAH10 (METAR for OAKB) and FTAH10 (TAF for OAKB) and obtained by ISCS and relayed by Singapore IROG to SADIS<br>**(CLOSED)** – ROBEX HB June 2010 amendment |
| Lao – possibly add 4 aerodromes (VLLB, VLLN, VLSK and VLPS with 18-hour TAF validity at issuance times of 0500/1100/2300 UTC) to FTAE33. Also, VLVT will be moved from FTAE31 to FTAE33 date not yet known) | RODB Bangkok<br><br>RO | RODB4: RODB Bangkok in progress of optimizing bulletins – possibly reported to the OPMET/M TF/8 meeting<br>OPMET/M TF/8: TBD<br>**(CLOSED)** - FTAE33 bulletin added in ROBEX HB June 2010 amendment |
| Viet Nam – VVPB (24-hour TAF at issuance times 0500/1100/1700/2300) will be added to FTAE32 and METAR (HH+00 and HH+30) will be added to SAAE31 as of 1 April 2010. Also, VLVT will be moved from FTAE31 to FTAE33. | RODB Bangkok<br><br>RO | OPMET/M TF/8: RODB Bangkok informed meeting of inclusion of VVPB METAR in SAAE31 bulletin and TAF in FTAE32 bulletin effective 1 April 2010<br>RO to include in June amendment<br>**(CLOSED)** – VVPB included in ROBEX HB June 2010 amendment in FTAE31 bulletin and |
| Add AFTN routing sketch to ROBEX Handbook which helps serve who and why backups are conducted<br>And verify the OPMET exchange diagram conforms to this sketch | RO | RODB 4: update to be included in the June 2010 amendment<br>**(CLOSED)** – AFTN sketch included in ROBEX HB June 2010 amendment |

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| *Note that the complete list of updates associated with the June 2010 amendment to the ROBEX Handbook discussed in OPMET/M TF/8 meeting are provided in Appendix C to the OPMET/M TF/8 final report* | | |
| ***ICD updates*** | | |
| Update once per year | RODBs<br>RO | RODB 4: Updated Appendices by May 2010<br>Update doc and post (amendment June 2010)<br>**(CLOSED)** – ICD updated June 2010 based on input provided by RODBs Bangkok, Singapore and Tokyo |
| ***Other*** | | |
| Monitoring software to accept AUTO format for METAR in calculating performance indicators | RODB Singapore | RODB 4: to update software |
| Resolve multiple bulletin counting by requesting the source not to issue multiple bulletins for the same information<br>In addition, RRA should be used instead of PAA and be placed on the first line | RODB Tokyo/RO | RODB 4: RODB Tokyo to provide RO example of duplicate bulletins sent from India for consultation with State<br>OPMET/M TF/8: inquire to members of India when these multiple bulletins will stop being issued<br>Informed India on use of RRA for multi bulletins on 1 June 2010 |
| Monitor the progress of pilot project – implementation of XML for OPMET exchange | RO | OPMET/M TF/8: IP/2 provides progress and noted implementation is several years away. |
| Amendment 75 to Annex 3 finalized version be distributed to States | RO | OPMET/M TF/8: RO to inquire on distribution process<br>HQ to issue amendment 75 to Annex 3 to States in summer 2010 |