



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA AND PACIFIC OFFICE**

**REPORT OF
THE SECOND REGIONAL OPMET DATA BANKS (RODB)
COORDINATION MEETING**

Tokyo, Japan, 31 January – 1 February 2008

I. HISTORY OF THE MEETING

1. Introduction

1.1 The Second RODB Coordination Meeting was held at the Headquarters of Japan Meteorological Agency (JMA), Tokyo, Japan from 31 January to 1 February 2008

2. Attendance

2.1 The meeting was attended by experts from RODBs Bangkok, Tokyo, Australia and ICAO Regional Office. The meeting was also attended by participants from Japan Meteorological Agency (JMA) and Japan Airlines International Co., Ltd.. The List of Participants is provided in **Attachment 1** to the report.

3. Opening of the meeting

3.1 The meeting was opened by Mr. Kunio Sakurai, Director-General Forecast Department of Japan Meteorological Agency. In his opening remarks, he emphasized the importance of harmonized information exchange between RODBs for flight safety and regularity. He welcomed the participants to the meeting and expressed his good wishes for a successful meeting.

3.2 Mr. Li Peng, Regional Officer CNS, ICAO Asia and Pacific Regional Office thanked Japan Meteorological Agency for kindly hosting the meeting and provided a brief overview of the objectives and expected outcomes. He suggested that, in view of the very short duration of the meeting, it should be conducted in a very informal manner.

4. Officers and the Secretariat

4.1 Mr. Richard J. Houghton, National Manager, Defense Weather Services Bureau of Meteorology was elected Chairman for the meeting and chaired the meeting. Mr. Li Peng, Regional Officer CNS acted as Secretary for the meeting.

5. Organization, Language and Documentation

5.1 The working language was English only, inclusive of all papers and this report. Six Working Papers and seven Information Papers were considered by the meeting. Papers received from Singapore and Fiji RODBs were also considered by the meeting. List of Papers is provided at **Attachment 2** to this Report.

6. Agenda of the Meeting

6.1 The agenda adopted by the meeting was as follows:

Agenda Item 1: Review the operation of RODB

Agenda Item 2: Measures to minimize OPMET data shortfall

Agenda Item 3: Status of mirroring of RODB contents

Agenda Item 4: Progress with ASIA/PAC OPMET Data Catalogue

Agenda Item 5: Relaying ASIA/PAC OPMET data to SADIS and ISCS and harmonization of OPMET data on SADIS and ISCS

- Agenda Item 6:** SIGMET Tests – Future Plans
- Agenda Item 7:** Harmonization of monitoring and quality control procedures
- Agenda Item 8:** Review of change to TAF provisions in Amendment 74 to Annex 3
- Agenda Item 9:** Any other business

II. REPORT ON AGENDA ITEMS

Before dealing with the agenda items, the meeting reviewed the outcome of the first meeting of RODB Coordination Meeting and actions taken by the Fifth Meeting of OPMET/M TF held in June 2007 and the Eleventh Meeting of CNS/MET Sub-group of APANPIRG held in July 2007. The meeting also reviewed the report of APANPIRG/18 on the OPMET exchange. The meeting noted the follow-up actions taken by the Secretariat on the Conclusions adopted by APNPIRG/18.

Agenda Item 1: Review of the operation of RODBs

RODB Australia

1.1 Mr. Rick presented a paper (WP/03) prepared by RODB Australia. The meeting noted the following information provided in the paper.

1.1.1 Australia commissioned a new AFTN/AMHS capable messaging system called Australian Aeronautical Message System (AAMS). While the Brisbane RODB functions have not changed, the AAMS provides enhanced message retrieval, replay and storage functionality. Australian Air Traffic Services (ATS) towers now receive aircraft movement, NOTAM and MET information in electronic form instead of old serial printed form. AMHS connectivity tests are scheduled to take place with Singapore and USA during the latter part of 2008.

1.1.2 Honiara, Nauru, East Timor and Port Vila have access to the AAMS to receive and transmit AFTN messages using a secure internet portal, and replacement laptop computers. Due to the speed of telecommunications connections at some of these locations system response/refresh times are slow. Access to the current AFTN/Internet Gateway will be maintained until these locations are fully migrated to the AAMS.

1.1.3 Australia uses NAIPS (National Aeronautical Information Processing System) for pilot briefing and AIS functions. A backup system called AIS MET system is used for contingency purposes (NAIPS failure). During the latter part of 2008 AIS MET system will be de-commissioned. A NAIPS DR (Disaster Recovery) platform located in Melbourne will be used for contingency purposes.

1.1.4 NAIPS software update with a contractor is scheduled for release during March 2008. Changes that affect OPMET products in this release will include:

- Removal of second reporting point and time in ARP (UAAUxx) type bulletins; and
- Format of TAF validity period updated to accept nnnn/nnnn

RODB Bangkok

1.2 Mr. Vethis and Mr. Thavit informed the meeting (WP/06) of the plan of developing a web-based OPMET Database. This new web-based services will be expectedly implemented by December 2008.

1.2.1 The web-based OPMET Database being defined would provide two accessible types:

- Public – accessible by any internet users; and
- Private – only accessible by registered users

1.2.2 The meteorological messages are stored in the database for interactive access – search by TT, CCCC or TTAai. The meeting noted the message data types to be provided through interactive user interfaces. The meeting suggested that the information provided for public access may be restricted to information for Thailand only. It was also suggested to prepare explanations to the aeronautical meteorological terms that would be required for the public users.

1.2.3 FTP services will also be provided for daily OPMET data files (classified by data types and date), hourly OPMET data files and related OPMET information.

1.2.4 It was clarified that there would be no significant difference between the web services provided by Singapore and those by Bangkok.

1.2.5 The meeting recognized that no RODB had experience in providing aeronautical meteorological information to the public. However, the meeting noted that benefits would derive from using the direct authorized access by airlines.

1.2.6 The Secretariat informed the meeting of ICAO policy for using the public internet for dissemination of non-time critical aeronautical information. It is also required to have contingency arrangement for the service for operational use.

RODB Nadi

1.3 The meeting noted that Fiji had completed its tender assessment for a new AFTN/AMHS system. The system is scheduled to be commissioned in the last quarter of 2008. The Nadi OPMET databank will continue to operate on the current AFTN platform but interfaced to the new AMHS system.

1.3.1 Fiji is undergoing some organization restructure (within AFL) to ensure that proper monitoring and quality control measures are carried on all our databanks (AFTN/AIS & OPMET). It would be completed within two months. Fiji is committed to improving its OPMET/ROBEX services this year in compliance with ICAO requirements.

RODB Singapore

1.4 The meeting noted that Singapore RODB provided a File Transfer Protocol (ftp) service for retrieval of OPMET information via the Internet since March 2006. To further improve this service accessible via the World Wide Web, Singapore RODB developed a Web-based OPMET Data Bank in mid 2007 and the new system was implemented in December 2007. Users from ROBEX Centres and airlines are authorized to access the web-based service.

1.4.1 Users could find two functions in the web-based Databank portal, namely File Downloading and Data Search. The new DB WIP is accessible using Individual user account that is via a unique set a username and a password. Singapore RODB will provide this login information to each user. More detailed information will be provided by Singapore at OPMET/M TF/6 Meeting.

RODB Japan

1.5 Japan introduced website based on OPMET information for limited domestic users on the trial base. The service has been provided in Japanese to the Japanese Airlines and foreign airlines at aerodromes in Japan for evaluation and flight planning.

1.5.1 The meeting noted that few items and parameters in the SIGMET Report of the website service are not in compliance with the format as specified in provisions of SIGMET Guide adopted by APANPRG such as SIGPAT, and Tango 3, in a sample of SIGMET presented. It was noted that first line of SIGMET should be started with ICAO location indicator, and only 1 letter should be used for the sequence number of SIGMET (Reference to paragraph 3.4.2.2 of the SIGMET Guide). It would be difficult to process these non standard format by the automation systems employed by the end users.

1.5.2 The meeting identified the benefits for using INTERNET based OPMET service by airlines. There is no need for the service providing States to contact originating states for getting the missing information.

Agenda Item 2: Measures to minimize OPMET data shortfall

2.1 The meeting reviewed result of recent monitoring of OPMET data exchange and the follow-up action taken by States and the Secretariat.

2.2 The Secretariat informed the meeting that in following up the report of the last meeting and relevant Conclusion of APANPIRG/18, the Regional Office had issue several letters to the States concerned for evaluation of the identified deficiencies and corrective action plan. The persisted deficiencies will be reflected in the APAC deficiency list.

2.3 The meeting further reviewed status of OPMET data shortfall observed by RODBs.

2.3.1 It was noted that Singapore had not received FTSP31 NFFN via AFTN since October 2006. Some FT information from south Pacific was received from ISCS broadcast under the header of FTPA32 KWBC. It was also confirmed by Japan through the on-line database that FTSP31 was not available at Tokyo RODB. The Secretariat informed the meeting that a technical cooperation project was initiated by ICAO to help resolving some MET issues identified in the South Pacific sub-region.

2.3.2 The meeting noted the irregularity of TAF messages originated from Indonesia. The monitoring TAF availability for WABB and WAAA in FTSP31 was conducted by Singapore between October and December 2007. The result of 3-month monitoring indicated that the availability for TAF WABB is below average (35%) compared to TAF WAAA (96%). However, the on-line database of RODB Tokyo confirmed the availability for WADD of OPMET information from Indonesia. Therefore, Ms. Chua was requested to further monitoring the OPMET information from Indonesia.

2.3.3 The secretariat was also requested to follow up with States concerned for the OPMET data shortfall identified. Rick was requested to provide detailed wording to the Secretariat for following up with Indonesia.

2.3.4 Australia observed hundreds of copies of the same bulletin "FTFJ31" generated by RODB NADI on several occasions. Australia had put a procedure in place to intercept and discard these bulletins, when advised by users/customers that the problem was occurring. Brisbane RODB offered to assist with reception and compilation of OPMET data from the South Pacific region.

2.3.5 A paper provided by Fiji confirmed that the Nadi AFTN Centre had been responsible for the relaying of the repeated bulletin "FTFJ31" generated by the NADI weather office. Assurance had been offered to replace the system this year and hopefully the duplication problem experienced by the neighbouring RODB would cease. Fiji was interested to note the offer from Brisbane RODB in its

willingness to assist with reception and compilation of OPMET data from the South Pacific region. Fiji has identified the need to review the requirements for SAPS31, SAPS32 and FTSP32 as some of the aerodromes associated with these bulletins were no longer operational. Fiji will provide detailed information at the OPMET/M TF meeting to be held in March 2008.

Agenda Item 3: Status of mirroring of RODB contents

3.1 Australia informed the meeting that Australia was planning to provide an extended global briefing service during 2008. To achieve this, Australia is planning to receive all MET products from the Singapore RODB. This would assist Brisbane to achieve 100% mirroring of Singapore RODB data.

3.2 Fiji has been sending its bulletin (SAPS31, SAPS32 and FTSP31) to the following RODBs Tokyo, Bangkok, Singapore and Brisbane. These bulletins are also sent to New Zealand.

3.3 The paper provided by Singapore indicated that to date, Singapore and Bangkok DB content was 90% aligned, Singapore and Tokyo was about 80% aligned. Singapore RODB plans to achieve a target of 95% of data content aligned with Bangkok and Tokyo RODB. As proposed by Brisbane RODB, a mirroring exercise will be carried out between the databanks in Brisbane RODB and Singapore RODB in 2008.

3.4 The meeting discussed question on how to achieve 100 per percent mirroring between the RODBs. Target date for achieving certain percentage of mirroring between RODBs within the Asia and Pacific Regions should be developed at OPMET/M TF/6. The cross checking procedure and bulletins should be based on ROBEX Table.

Agenda Item 4: Progress with ASIA/PAC OPMET Data Catalogue

4.1 It was noted that no further development of the ROBEX Database has been carried out in Australia. If the ROBEX handbook was replaced with an interactive web application, all associated databases could reside on the same site. As part of the AAMS software update an external database of all received AFTN messages will be maintained as MET data (including OPMET bulletins) will form part of the data, external web access (for other RODB) could be provided to this information.

4.2 The meeting discussed the need for providing external access to the MET information. A question was raised - how often the other RODBs had been utilizing the Singapore external web access? No participants at the meeting had confirmed they had experience in accessing the RODB Singapore for the required information. .

4.3 Ms. Guat Mui Chua was requested to prepare answers to question raised in point 2 of WP/03 (Australia) and request for demonstration to the OPMET/M TF/6

4.4 The Secretariat was requested to clarify with Dimitar and MET Section on the direction of use ROBEX Database whether still needs to be put on the website.

Agenda Item 5: Relaying ASIA/PAC OPMET data to SADIS and ISCS and harmonization of OPMET data on SADIS and ISCS

5.1 A paper provided by Singapore highlighted relaying ASIA/PAC METNO messages to SADIS and ISCS. Singapore IROG had established a procedure to relay METNO messages to WAFCS. If a METNO message is received at the gateway, the operator will forward it via AFTN without delay. This would help to ensure that the information on the bulletin changes are conveyed timely to the WAFCS.

Harmonization of OPMET data on SADIS and ISCS

5.2 The meeting noted that there is not much progress made in harmonizing the bulletin format and content of OPMET information in the ISCS broadcast as monitored by Singapore IROG. This is caused by the non-standard procedure in filtering data and recompiling with new header performed at the KWBC, USA before the ISCS broadcasting. The difference resulted from comparison between the SADIS and ISCS messages carried out on 24 Jan 08 by Singapore. The meeting noted differences including:

- Header changed for ISCS;
- Duplications of contents in the ISCS broadcasting; and
- Missing information in ISCS broadcasting.

5.3 Japan informed the meeting that Tokyo IROG is forwarding all the OPMET data required in NAM Region to USA. The ASIA/PAC OPMET data received at RODB Tokyo are forwarded to the United States. The meeting noted the traffic analysis conducted by RODB Tokyo during three days of January 2008 including:

- Table 1 OPMET data sent Tokyo to KWBC, USA via both GTS and AFTN; and
- Table 2 data received from ISCS

5.4 It was noted that difference was caused by the recompiling at KWBC with different header. For example FTIN31 VABB 312100 was changed into FTAS31 by KWBC, USA.

5.5 The meeting noted that for SADIS bulletins, Singapore sent the collected data to London via AFTN only and the output from SADIS could be used by ISCS without any changes being made. This may create problems with the commercial aspect of SADIS compared to the free service offered by ISCS.

5.6 The meeting recognized the need to further address this issue with USA and IATA. Japan was requested to compare the information sent to KWBC, USA via AFTN and GTS. Japan was also requested to compare the data with SADIS bulletin received from Singapore.

5.7 The meeting recognized that the information would be identical to the end users if KWBC only distributed the same bulletins received from London for ISCS without recompiling with a non-standard header.

5.8 The Secretariat informed the meeting that follow-up letters will be sent to USA for necessary action. This issue will be further discussed at the next OPMET/M TF/6.

Agenda Item 6: SIGMET test – future plans

6.1 As the SIGMET tests had only been conducted in the days before the meeting, results were not yet finalized, although several issues were already identified. RODB's Bangkok, Brisbane, Singapore and Tokyo have supported the tests and did a good job in preparing reports for the convenors of the tests.

6.2 Japan informed that RODB Tokyo began automatically forwarding for the Russian VA SIGMETs received via GTS to the other RODBs via AFTN from 22 Jan 2008, as the follow up of discussion on SIGMET Tests at the OPMET/M TF5.

6.3 The United States did not take part in the tests this year which was disappointing. It was suggested that the State letter also be sent to ROBEX focal points for future tests, to reach as many participants as possible.

6.4 It was agreed that the test were valuable and should continue, Australia recommended that the future tests be held away from January as this was the holiday season in Australia, making it difficult for management to prepare for the tests. After further discussion, Rick will prepare a paper for OPMET/M TF/6 meeting with options for future tests.

6.5 Results of all tests will be presented to OPMET/M TF/6 meeting with measures to improve the availability of SIGMET to resolve the SIGMET related deficiencies as identified by the CNS/MET SG/10 meeting in July 2006.

Agenda Item 7: Harmonization of monitoring and quality control procedures

7.1 The meeting further discussed the procedures and performance indices used by RODBs in monitoring of the OPMET exchange.

7.2 RODB Bangkok presented and demonstrated their off-line software application for analyzing incoming OPMET data, which computes the performance indices of this data for availability, regularity and compliance. The performance indices algorithms are those presented by Singapore at the OPMET/M TF/5 meeting. The meeting thanked Bangkok RODB for the excellent work that they had carried out.

7.3 Conclusion 18/45 – Enhancing Quality Control of OPMET Information by States, of APANPIRG/18, was discussed in regard to full compliance with specified format errors and filing and transmission schedules. States still need to be alerted to problems and this needs to be addressed further at OPMET/M TF/6 meeting.

7.4 The meeting noted that the relevant section on Quality control and monitoring had been added to the ROBEX handbook and thanked the previous secretariat Dimitar for this work.

7.5 Quality control and monitoring needs to be standard across the Region and further discussions on this will be undertaken at OPMET/M TF/6 meeting where it is planned to uniform procedures and monitoring periods.

Agenda Item 8: Review of change to TAF provisions in Amendment 74 to Annex 3

8.1 Singapore provided a paper stating the arrangement for 30-hour TAF from Singapore, with some confusion over the cessation of TAFs; further clarification will be sought from Singapore.

8.2 Japan presented a paper with proposed details of a survey to be conducted according to APANPIRG/18 meeting conclusion 18/44. This was discussed at length as this survey is similar to the survey prepared by members of the Task Force and sent as a State letter of 18 January 2008, requesting State details of their plans for the introduction of 30-hour TAF. It was decided that although the paper from Japan covered several areas not covered in the issued survey these would be followed up once the survey results were collated.

8.3 As broadcast of the full 30 hour TAF on VOLMET would reduce the number of TAF able to be broadcast due to the increased length of the 30 hour TAF, it was decided that ICAO Montreal would be asked how it was planned for VOLMET to handle the 30 hour TAF, if the full message would be broadcasted or just a shorter period, the secretariat will follow up this action.

8.4 Following receipt of an updated IATA user requirement since the issuance of the survey, the meeting checked the requirements for Asia/Pacific region and found immediate difference in the requirement for 30 hour TAF. Rick will compare the tables in detail and advise Li Peng of any changes which may require issuance of an amendment to the regional survey.

8.5 The EUR Region plan for implementation of the new 30 hour TAF provision was tabled and discussed at the meeting, with plans being formulated for adoption of such a table within the Asia/Pacific Region. Rick will further develop the plan for Asia/Pacific Region and present it at the OPMET/M TF/6 meeting for further discussion and adoption as the regional plan.

8.6 The meeting agreed that the work on implementation of 30 hour TAF within the region was proceeding satisfactorily and that pending further discussion at OPMET/M TF/6 meeting the OPMET side of the implementation should be possible by November 2008.

Agenda Item 9: Any other business

9.1 The only other business raised was the date and location of the next meeting, several participants suggested Australia; this will be further discussed at OPMET/M TF/6 meeting March, where the role of the RODB coordination meetings will be further discussed.

9.2 The meeting concluded with a very informative visit to the aviation weather forecast centre of the Japan Meteorological Agency. The members of the meeting thanked the Japan Meteorological Agency and their staff for the visit to the forecasting office and also for the hospitality extended to the participants of the meeting.

**The Second Regional OPMET Data Banks (RODB)
Coordination Meeting in Asia and Pacific Regions
31 January to 1 February 2008**

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International Civil Aviation Organization

**THE SECOND REGIONAL OPMET DATA BANKS (RODB)
COORDINATION MEETING**

Tokyo, Japan, 31 January to 1 February 2008

LIST OF WORKING AND INFORMATION PAPERS

WP/No. IP/No.	Agenda Item	Title	Presented by
1	-	Provisional Agenda	Secretariat
2	all	Review outcome of APANPIRG/18 on OPMET Exchange	Secretariat
3	1 to 4	Updates by Australia on Agenda Items 1 to 4	Australia
4	8	Survey on TAF Procedures in the Asia/Pacific Region	Japan
5	7	Software for Analyzing Incoming OPMET data	Thailand
6	1	The Provision of Web-based OPMET database	Thailand

INFORMATION PAPERS

1	-	Meeting Bulletin	Secretariat
2	1 & 2	Review Agenda Items 1 and 2	Singapore
3	3 & 5	Review Agenda Items 3 and 5	Singapore
4	8	Review Agenda Item 8	Singapore
5	1 to 4	Updated by Fiji on various Agenda Items	Fiji
6	5	Current Status of OPMET information on the ISCS broadcast	Japan
7	8	Regional Survey on Implementation Plan for Amendment 74 to Annex 3	Secretariat