

**WORLD METEOROLOGICAL ORGANIZATION**

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COMMISSION FOR BASIC SYSTEMS

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**CBS MANAGEMENT GROUP**

*Fourth session*

ITEM: 3.1

Langen, Germany, 13-16 October 2003

ENGLISH only

### **OPAG on Integrated Observing Systems**

#### **Report of the Chairperson of the OPAG-IOS**

*(Submitted by the Dr J. Purdom, Chair of the OPAG-IOS)*

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#### **Summary and purpose of document**

This document provides information to MG Members on the status of activity related OPAG IOS.

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#### **ACTION PROPOSED**

The Management Group is invited to:

- (a) Note OPAG IOS activity since CBS-Ext.(02)
- (b) Note areas of interaction by OPAG IOS ETs;
- (c) Reflect on replacement of the Rapporteur on GCOS Matters;
- (d) Reflect on replacement of the Rapporteur on OSE and OSSE's (Regional aspects).

## DISCUSSION

### **Background**

1. The Chair OPAG IOS presented a complete report of activity at CBS-Ext.(02) in Cairns, Australia in December 2002.
  - The report was accepted with very minor revision by CBS.
  - The Terms of Reference for the ET's were reviewed and the work plans were modified to reflect the successes and pertinent activities for the next two years.
2. Mr Rösner has informed the Chair, OPAG-IOS of his not being able to continue as Rapporteur on GCOS Matters. The Secretariat has also informed through official channels.
3. Mr Sato has informed the Chair, OPAG-IOS of his not being able to continue as Rapporteur on OSEs and OSSEs (regional matters).

### **OPAG IOS Activity since CBS-Ext. (02)**

4. Each ET Chair provided information with regard to other programmes within WMO, with whom they have interaction. Results are presented below.

#### ET ODRRGOS

- CAS has attended our entire meeting, represented by Dr John Eyre;
- ECMWF has been active at all meetings through its representative, Dr Horst Böttger;
- CAeM has attended two out of the last three meetings (Jan. 2002 and April 2001), represented by Dr Herbert Puempel;
- EUCOS has attended the last two meetings (Jan. 2002 and July 2002) represented by the EUCOS Program Manager, Dr Jim Caughey;
- AOPC has been represented by Dr Mike Manton (April 2001) and Dr Jo Schmetz (Jan. 2002);
- JCOMM has attended, represented by Mr Etienne Charpentier and Dr Hiroshi Kawamura (Jan. 2002);
- At other meetings:
  - (a) ET-ODRRGOS has been represented at CGMS by Dr Don Hinsman and Dr Paul Menzel;
  - (b) ET-ODRRGOS plan for evolution of the GOS has been briefed to NESDIS, EUMETSAT, Australian BoM, and Chinese NSMC managers, as well as at the last CBS by the OPAG IOS chair.

#### ET-AWS

ET/AWS coordinated on AWS taskings with the chair of the ET/DR&C, the CAgM, CIMO, AMDAR, and GOS.

#### ET-SDUP

- (i) Operational Satellite operators as represented through USA (NESDIS), Europe (EUMETSAT), Japan (JMA), Russian Federation, and China (NSMC);
- (ii) OPAG-ISS for FWIS related activities;
- (iii) CGMS and the Virtual Laboratory for Satellite Data Utilization with 6 WMO Centers of Excellence at five WMO Regional Meteorological Training Centers at San Jose, Costa Rica, Bridgetown, Barbados, Niamey, Niger, Nairobi, Kenya, and Nanjing, China and one at the Australian Bureau of Meteorology Training Center (ABOMTC)

5. Each ET Chair has reviewed the work plans as suggested by CBS-Ext.(02). While expectations are formidable, each ET Chair felt that they could meet the expectations of the work plan by having two meetings before CBS-2004.

ET ODRRGOS requirements

- (i) Full meeting is scheduled for 3 to 7 November 2003 in Geneva (Meeting agenda available on WMO server).
- (ii) Full meeting around mid 2004. This meeting is expected to follow by about two months the Third WMO Workshop on the Impact of Various Observing Systems on NWP in Alpbach, Austria during 9 – 11 March 2004
  - (a) Co-chairmen (2): Jean Pailleux (Météo-France) and Horst Böttger (ECMWF)
  - (b) Organizing Committee (6): John Eyre (Met Office), Nobuo Sato (JMA), Tom Shatter (NOAA/FSL), Paul Menzel (NOAA/ORA), Helmut Rott (local host at U. Innsbruck), Alexander Karpov (WMO)

ET-AWS requirements

1 full meeting and 1 reduced meeting in 2004

- (a) One meeting of the group is needed to get things rolling. Following the result of the meeting, we will be in a better position to determine the need for an additional meeting.
- (b) As for our activities, the group felt the need to make a collaborative effort in establishing guidelines for basic and extended quality control procedures for data from AWS. It would also be desirable to complete those items not completed yet due to the loss of the individuals previously assigned to the ET/AWS.

ET-SDUP requirements

2 full meetings in 2004

- (a) The work plan of the Expert Team on Satellite System Utilisation (ET-SSUP) is based on the following three corner stones of improving data access, data use, and training and education in the use of satellite data and products. The items to be worked on result from an analysis of the answers to the Biennial Questionnaire, from activity reports from NMHS and affiliated institutions and from interactions with CGMS.

OPAG IOS ICT requirement

1 full meeting in Fall of 2004

***Replacement of certain Rapporteurs***

6. Neither Mr Rösner nor Mr Sato is able to continue as Rapporteur in their respective areas. Their work is greatly appreciated, but now it is time to find suitable replacements that can carry on the activities as spelled out in the terms of reference given below.

*Rapporteur on GCOS Matters*

- (a) Liaise with the existing data quality monitoring centres of CBS and GCOS, regional rapporteurs on the GOS and GCOS to review, and provide information back to Members, as to how existing formal and informal arrangements can be used to improve the monitoring of CLIMAT and CLIMAT TEMP messages;
- (b) Provide a brief report to the 2002 session of CBS describing, (1) changes, to the extent possible, in the exchange of CLIMAT and CLIMAT TEMP messages over the 1996 – 2002 period, and (2) advice provided to Members in relation to this matter;

- (c) Continue preparation and maintenance of reviews of observing systems that are being designed under the auspices of GCOS (e.g., GUAN, GSN).

Note: *Due to internal shifts and responsibilities within the Deutscher Wetterdienst, Mr Stefan Rösner is unable to continue as Rapporteur. Deutscher Wetterdienst will continue to operate the GSNMC.*

*Rapporteur on Scientific Evaluation of Observing System Experiments (OSEs) and Observing System Simulation Experiments (OSSEs)*

- (a) Prepare and maintain reviews of OSEs and OSSEs that are being undertaken by various NWP Centres around the globe and provide information for consideration by the OPAG-IOS;
- (b) Develop proposals and guidance for specific OSE/OSSEs in consultation with the Expert Team on Observational Data Requirements and Redesign of the GOS, that are required for the redesign of the GOS.

Note: *There is one Rapporteur on global and one on regional aspects:*

- *Mr Jean Pailleux (Météo-France) is the Rapporteur on global aspects and will continue in that capacity*
- *Mr Nobu Sato (JMA) is the Rapporteur on regional aspects and is unable to continue due to other commitments within both JMA and WMO*

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