

**WORLD METEOROLOGICAL ORGANIZATION
COMMISSION FOR BASIC SYSTEMS**

**MANAGEMENT GROUP
EIGHTH SESSION (REDUCED)
GENEVA, 16–17 JUNE 2008**



FINAL REPORT

AGENDA

- 1. ORGANIZATION OF THE SESSION**
 - 1.1 Opening of the session
 - 1.2 Adoption of the agenda
 - 1.3 Working arrangements for the session
 - 2. ARRANGEMENTS FOR THE FOURTEENTH SESSION OF THE COMMISSION FOR BASIC SYSTEMS**
 - 3. TECHNICAL CONFERENCE ON WIGOS IN CONJUNCTION WITH CBS-XIV**
 - 4. CBS OPAG MEETING STATUS**
 - 4.1 Integrated Observing Systems (IOS)
 - 4.2 Information Systems and Services (ISS)
 - 4.3 Data-Processing and Forecasting System (DPFS)
 - 4.4 Public Weather Services (PWS)
 - 5. CBS PROGRAMME ALIGNMENT WITH THE WMO STRATEGIC PLAN AND WMO OPERATING PLAN INCLUDING MONITORING AND EVALUATION**
 - 6. DATE AND VENUE FOR THE NEXT SESSION OF THE CBS MANAGEMENT GROUP**
 - 7. OTHER BUSINESS**
 - 8. CLOSURE OF THE SESSION**
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Executive Summary

The eighth (reduced) session of the CBS Management Group (MG) was held in Geneva, Switzerland from 16 to 17 June 2008. The MG reviewed the activities, which had taken place since its last session, and addressed the evolving needs of each of its programmes. It reviewed planning and the timetable for the next session of CBS to be held from 25 March to 2 April 2009 in Dubrovnik as well as approved a draft programme and organizing committee for the Technical Conference to be held 23-24 March 2009. It agreed upon necessary steps for CBS to take within the new WMO Strategic Planning Process as well as to review improved working methods for CBS.

General Summary of the work of the meeting

1. ORGANIZATION OF THE SESSION

1.1 Opening remarks

1.1.1 The eighth session (reduced) of the CBS Management Group (MG-8(Red)) was held in Geneva, Switzerland from 16 to 17 June 2008. The meeting was chaired by the CBS President, Mr A. Gusev. The list of participants is given at the end of this report.

1.1.2 The President of the Commission, Mr Gusev, welcomed all participants. He summarized the expected outcome of the meeting, with special emphasis on the readiness for the next CBS session. He stressed that it was important to know the current stage of preparation as well as the remaining issues required for best preparation of the session. He mentioned that the postponement of the session to March 2009 had allowed additional time for its preparation. Mr Gusev recalled that the last Congress had decided on a new Strategic Plan and the meeting would provide a good opportunity for discussing the alignment of the CBS working programme with the WMO Strategic Plan and the WMO Operational Plan.

1.1.3 The Director of the Observing and Information Systems Department (OBS), Dr D. Hinsman, welcomed all participants and confirmed that the fourteenth session of CBS would take place in Dubrovnik, Croatia, from 25 March to 2 April 2009 with a Technical Conference on the proposed topic "WMO Integrated Global Observing Systems (WIGOS)" on the two preceding days (23-24 March 2009). He stressed the urgent need to effectively plan and carry out activities of the Commission to respond to the tasks identified by Fifteenth Congress and the Executive Council as well as preparing for CBS-XIV. He recalled that Fifteenth Congress had highlighted the Commission's leadership role as the flagship of all WMO systems, and the World Weather Watch in particular. He mentioned that this was a time to look to the future, to WIGOS, the WMO Integrated Global Observing Systems, and the WMO Information System (WIS) since their implementation will obviously need strong involvement of CBS. It was also time for continuing and improving the vital work of Data-Processing and Forecasting Systems and Public Weather Services.

1.2 Adoption of the agenda

1.2 The agenda was adopted by the participants. It is reproduced at the beginning of this report.

1.3 Working arrangements

The meeting agreed upon its working hours.

2. ARRANGEMENTS FOR THE FOURTEENTH SESSION OF THE COMMISSION FOR BASIC SYSTEMS

2.1 The session reviewed the progress on the date, venue and local arrangements for CBS-XIV. The tentative Provisional Agenda of CBS-XIV is included in Annex 1 to this paragraph. MG-8(Red) noted that preparations for the session as well as for the Technical Conference were on schedule although the Technical Conference was on a critical path and required dedicated efforts. A table containing the status of preparation is included in Annex 2 to this paragraph.

2.2 The MG agreed that in order to allow enough time for translation and distribution, the deadline for the submission of CBS documents would be mid December 2008.

3. TECHNICAL CONFERENCE ON WIGOS IN CONJUNCTION WITH CBS-XIV

3.1 The Management Group considered a proposal to hold a technical conference in conjunction with CBS-XIV and agreed that the topic of conference should be "WMO Integrated Global Observing Systems (TECO-WIGOS)". TECO-WIGOS will be held during two days (23-24 March 2009) preceding the session of the Commission which is now scheduled for 25 March-2 April 2009 in Dubrovnik, Croatia. The conference will be organized by a Conference Committee, headed by a Conference Director supported by a Co-Director. The management group agreed that the Committee will also include Session Chairs nominated by EC WG WIGOS-WIS in coordination with president of CBS, selected experts in WIGOS levels of integration and will be assisted by the Secretariat. The management group recommended that Dr James Rasmussen serve as the Conference Director and that Dr Sue Barrell OPAG-IOS Co-Chair serve as Conference Co-Director.

3.2 The session considered a draft provisional programme of the conference developed by the Secretariat and agreed that TECO-WIGOS should highlight major goals, planned and on-going activities of WIGOS ultimately aimed to the establishment of a comprehensive, coordinated and sustainable system of observing systems, ensuring interoperability between its constituent systems as identified by Cg-XIV. It also should highlight coordination of WIGOS activities with current and envisaged arrangements for planning and implementation of WIS. The TECO-WIGOS should reach NMHSs, Regional Associations and Technical Commissions concerned.

3.3 The management group also emphasized that although the content of TECO-WIGOS must be based on sound science and technology, it will deliver most benefit if speakers emphasize how the work they are describing benefits Members, and guidance to speakers should request them to do this. The management group strongly supported proposal that along with OPAG-IOS and OPAG-ISS, OPAG-DPFS and OPAG-PWS should contribute to the Conference, specifying expectations and requirements in their capacity of the end-users of WIGOS. The management group also agreed that it would be beneficial if each session will contain a question-and-answer session where a panel of experts would answer questions asked by participants. The outcomes of these discussions should be reflected in the Conference report. The management group felt that it would be beneficial to arrange during the conference an exhibition of equipment related to observing systems with examples of integration of different observing systems supported by WIS components. The management group recommended the Conference Committee to investigate this possibility with hosting party. In overall, TECO-WIGOS should clearly identify the CBS's leadership role and visibility within the implementation of WIGOS initiative.

3.4 The management group agreed that the Secretariat should issue the formal announcement and a call for papers of the TECO-WIGOS by mid-July 2008, with a view to collecting the presentation summaries from lecturers by January 2009. The draft programme of TECO-WIGOS, as reviewed by the management group, is reproduced in the annex to this paragraph. The management group recommended that the draft programme should be reviewed and finalized by the Conference Committee prior to release of call for papers. The session also noted that some additional input to the programme may be provided by the first session of the Sub Group on WIGOS (10-13 November 2008) and the second session of EC WG WIGOS-WIS (16-18 December 2008).

3.5 The management group noted that since there are no allocation within the regular budget to support the Conference, extra-budgetary sources of funding must be sought from outside of the Secretariat. The session recommended that the Conference Director and Co-director should work with the Secretariat to coordinate efforts to seek extra-budgetary resources including contributions from sponsors and donors.

4. CBS OPAG MEETING STATUS

4.1 Integrated Observing Systems (IOS)

4.1.1 The MG was informed on the activities carried out by OPAG-IOS since the MG-7 session including deliberations made by its expert teams and on the actions taken in response to the OPAG-IOS related Recommendations adopted by CBS-Ext.(06), details of which are presented in CBS/MG-8(RED)/Doc. 4.1. The MG was also informed that the fifth session of the ICT-IOS will hold a meeting in Geneva from 15 to 18 September 2008.

Expert Team on Evolution of the Global Observing System (ET-EGOS)

4.1.2 The Expert Team on Evolution of the Global Observing System held its third session in Geneva, from 9 to 13 July 2007 and will hold the fourth session in Geneva from 7 to 11 July 2008.

4.1.3 Considerable progress was made in collaboration with GEO/GEOSS, GAW, WWRP-THORPEX, International Polar Year (IPY), AMMA, AMDAR Panel and GCOS on activities related to OPAG-IOS. In this regard, the CBS MG noted that ET had recommended that the leadership of the current AMMA management group be progressively taken over by ASECNA on behalf of the West African NMHSs involved in AMMA and that ASECNA should work with two or three NWP centres to carry out detailed monitoring of AMMA radiosondes.

4.1.4 The MG noted the progress made in reviewing the WMO/CEOS database of user requirements for observations and of observing system capabilities and Statements of Guidance (SOGs) in 12 application areas. It appreciated development of the revised version of the Implementation Plan for Evolution of surface- and space-based sub-systems of the GOS (EGOS-IP) and a draft of a "Vision for the GOS in 2025".

4.1.5 The MG was informed on the preliminary outcomes of the Fourth WMO Workshop on "The impact of various observing systems on numerical weather prediction" (Geneva, 19-21 May 2008).

Expert Team on Requirements for Data from Automatic Weather Stations (ET-AWS)

4.1.6 The Fifth session of the Expert Team on Requirements for Data from Automatic Weather Stations (ET-AWS-5, Geneva, 5-9 May 2008).

4.1.7 The MG noted progress made on all issues under the ET-AWS responsibility. Recommendations were prepared for the consideration by the ICT-IOS and CBS-XIV regarding number of addresses issues, such as the Functional Specifications for Automatic Weather Stations, the Requirements for a robust AWS suitable particularly to remote location, Guidelines and procedures to assist in the transition from manual to automatic surface observing stations, Basic set of variables to be reported by a standard AWS for multiple users, and Advances in AWS technology. The MG also noted a proposal of the ET to identify a method to be used for the selection of observing stations in RBSN/RBCN and for the continuous optimization of these networks.

ET-SAT and ET-SUP

4.1.8 The third ET-SAT and ET-SUP meetings were held on 3 to 7 September 2007, partly as a joint session of the two expert teams. The joint session discussed the re-design of the space-based GOS, the gap analysis, and the preliminary draft Vision for the GOS to 2025 prepared by ET-EGOS-3. The session emphasized that the vision should translate requirements into observing

strategies and should describe the optimal achievable scenario for the next two decades. The increasing number of space-faring WMO Members who will contribute to the space-based GOS by 2025 enables to satisfy a wider range of requirements than at present if global efforts are optimized. Attention was required to ensuring data quality, comparability (through calibration) and accessibility throughout WMO Members. Many capabilities currently relying on R&D missions without any long-term commitment would in future be required on an operational basis. The session emphasized the role of WMO to facilitate this process of transition from R&D missions to operations.

4.1.9 The session encouraged WMO and co-sponsored programmes to initiate or continue their actions to identify requirements for space-based data and products. It reviewed the evolution of the concept of Regional Specialized Satellite Centres for Climate Monitoring (R/SSC-CM).

4.1.10 Implementation status and plans of the IGDDS and RARS projects were reviewed. The session encouraged on-going actions to fill the coverage gaps in the RARS over Africa, Central America, the Western Indian Ocean and the Pacific. About IGDDS, it focused on the gathering of regional and interregional user requirements for data access and expressed a strong view that "GEO imagery over the region" should be provided in every region on all components of the IGDDS, including through DVB-S satellite broadcast service.

4.1.11 The session considered the outcome of the recent Virtual Laboratory Management Group meeting (VLMG-3), emphasized the role of Regional Focus Groups and reviewed progress towards their establishment involving all VL partners.

4.1.12 In view of the important developments regarding the space-based GOS and the forthcoming CGMS Meeting, Consultative Meeting and other meetings of interest including CBS in March 2009, ET-SAT and ET-SUP will hold a fourth session during the first week of September 2008, while pursuing activities in the inter-session period.

WIGOS

4.1.13 The MG noted the activities of the OPAG-IOS related to WIGOS, namely ET- -3 involvement in the preparation of four WIGOS pilot project proposals and the active involvement of the OPAG-IOS chairperson in the First meeting of the Ad-Hoc CBS/CAS Expert Group on "Joint GOS-GAW Pilot Project to accelerate implementation of WIGOS/WIS" (Geneva, 25 – 27 March 2008).

GRUAN

4.1.14 The MG was informed on the activities related to the establishment of the GCOS Reference Upper Air Network (GRUAN). The MG supported the selection of the proposed initial GRUAN sites and agreed that that these initial invitations be made based on the existing framework for the larger GCOS Upper Air Network, essentially identifying a reference component of GUAN (and RBCN). The observing practices will be finalized in collaboration between CBS and AOPC and included in the WMO regulatory material (Manual and Guide on GOS). The formal approval of the GRUAN concept should be done at CBS-XIV.

4.2 Information Systems and Services (ISS)

4.2.1 The MG noted and supported the report on activities and schedule of meetings of the teams and related events that are planned to take place before the CBS-XIV (March 2009), as included in CBS/MG-VIII/Doc. 4.2 (1). It agreed that the ICT-ISS session should be planned in October 2008, in order to enable the MG session planned in November 2008 to review the outcome from all OPAGs as regards the proposed new OPAGs structure.

Data management

4.2.2 Fifteenth Congress noted that the implementation of the migration to Table Driven Code Forms (TDCF), which began on 2 November 2005, was slower than anticipated. It strongly supported the initiative taken by the CBS to increase the awareness of the benefit of the migration by the NMHSs. In this respect, a document called "Migration Guidance", which had been prepared with the support of the CBS Coordination Team on Migration to TDCF (CT-MTDCF) (see <http://www.wmo.int/pages/prog/www/WMOCodes/MigrationTDCF/Plan/MIGRATION%20GUIDANCE.doc>), was dispatched to the WMO Members. The Management Group agreed that the migration should be driven by the requirements of the WMO Members (e.g. with the implementation of new observing instruments) and that the plan for the migration should be reviewed by the CT-MTDCF accordingly.

4.2.3 Metadata are essential for the operation of the WIS GISCs and DCPCs. The Management Group stressed the importance for WMO Members to start creating and maintaining the metadata associated to the data and products that they prepare as contributions to the implementation and operation of WMO Programmes, in particular those that they insert into the GTS, and to make the metadata available to the GISCs and DCPCs, following relevant recommendations of the IPET-MI. It stressed the need to take into account the requirements for the provision of metadata when planning and implementing projects such as WIGOS projects.

Procedure for the direct adoption of amendments to the Manuals on Codes, GOS, GDPFS and GTS between CBS sessions

4.2.4 The MG, at its seventh session (Geneva, June 2007), agreed to test the direct adoption of recommendations for amendments to the Manuals between CBS sessions with a view to saving time during the CBS sessions and reducing the delays in the approval of the amendments. It agreed to implement a pilot project for the amendments related to the Manual on Codes.

4.2.5 Through WMO letter No. OBS/DR/DRC dated 11 April 2008, the members of CBS were invited to consider draft procedures for the direct adoption of amendments to the Manual on Codes between CBS sessions and to concur with the organization of a pilot project to test the draft procedures. The Secretariat received replies from 20 Permanent Representatives of Members with WMO or members of CBS. Noting the consensus on the draft procedures and the pilot project and comments received, the Management Group agreed that the pilot project be carried out as soon as possible before CBS-XIV, to invite the chair of the OPAG-ISS to report on the results of the pilot project to CBS-XIV and to invite the ET-DRC to:

- consider the question of the dates of implementation of the amendments depending on the complexity of the amendments;
- review the use of the three procedures (fast track procedure, procedure for adoption during CBS sessions and procedure for adoption between CBS sessions) and develop recommendations for the conditions for use of these respective procedures to be submitted to CBS-XIV, depending on the types of amendments, in particular taking due account of the advantage of a fast adoption of the amendments, the possible requirement for the adoption of amendments by all WMO Members or still by CBS;
- consider reviewing the fast track procedure, for example allowing that the president of CBS directly approves certain amendments.

4.3 Data-Processing and Forecasting System (DPFS)

4.3.1 Significant progress has been made by the OPAG on DPFS since CBS-MG7, including the work on Extended and Long-range Forecasting, Very Short-range Forecasting, Emergency Response Activities, and in Severe Weather Forecasting through the Severe Weather Forecasting Demonstration Project (SWFDP) Steering Group and the SWFDP RA I Regional Subproject

Management Team. The ICT is planned to meet in the week of 29 September 2008 to develop the input of the OPAG to CBS-XIV.

4.3.2 The Severe Weather Forecasting Demonstration Project, SWFDP, in its first regional subproject (6 countries in southeast Africa) has been completed, with generally very positive feedback. The Project's Steering Group met in March 2008 and recommended two new subprojects, one in each of RA III and V, as well as the extension of the RA I subproject to the SADC countries. It also recommended enlarging the scope of the projects to a joint DPFS-PWS undertaking, in close cooperation with the DRR programme. EC-LX will consider proposals to allocate additional funding for these projects.

4.3.3 Considerable progress has been made, jointly with CCI, on the criteria and tasks attached to the new function of Regional Climate Centre (RCC), involving the OPAG and its Expert Team on Extended and Long-range Forecasting. CBS-XIV will be asked to consider and approve these criteria, which will be used for the designation of RCCs as part of the GDPFS. The Management Group recalled the procedure for designation of Centres of the GDPFS as part of the established technical regulations (Manual on the GDPFS), and in the case of RCCs, will require the nomination by the relevant Regional Association and require the approval of CCI and CBS.

4.4 Public Weather Services (PWS)

4.4.1 The Chair of the OPAG on PWS provided a brief account on progress in the work of the OPAG. He recalled the decision taken at the ICT-PWS in June 2007, and reported to MG-7, that the OPAG would not schedule regular ET meetings between that time and CBS-XIV. This was because the work of the ETs consequent to the TORs agreed at CBS XIII was well advanced with a number of Guidance Documents in late stages of drafting. The resources thus saved were put towards an extra meeting of the ICT-PWS which had taken place in May 2008.

4.4.2 The Task Force on Social and Economic aspects of PWS was described; this body had recently been renamed the WMO Forum: Social and Economic Applications and Benefits of Weather, Climate, and Water Services. The remit of the Forum was broader than the area of responsibility normally covered by the OPAG, as it encompassed Hydrology and Climatology among others. Thus, the Forum would sit outside the OPAG. The Forum may well be a conduit to valuable advice on user needs when considering the design of WIGOS and also of WIS.

4.4.3 One Expert Group (EG) had been convened since MG-7; this was a once-off Expert Group on Probabilistic Forecasting, comprising experts active in both the OPAG on PWS and the OPAG on DPFS. The task of this EG was to review and complete a Guideline document on the communication of forecast uncertainty which had been drafted by ET-COM. The EG met in Shanghai, China in September 2007; the Guidelines had since been published as PWS-18.

4.4.4 The OPAG-PWS Chair described the "Learning-through-Doing" demonstration project concept which had been developed by the ICT; aimed at improving the interaction between forecast users and forecast providers. This concept had been taken up by Chile who had organised a project of this type. This is being supported by the Ibero-American Conference of Directors, led by INM Spain; the Chief of PWS had recently returned from a kick-off workshop. The idea was to leverage the meagre resources available to PWS to the greatest extent possible; the OPAG defined the parameters for the project concept but each project was funded and managed at regional or local level.

4.4.5 A similar approach was being taken in the extension of the SWFDP to include PWS aspects. This was so that the improvements in forecast and warnings services generated by the SWFDP might be more effectively communicated to end-users. The existing project in SE Africa was being extended while new projects which were planned would be joint DPFS-PWS enterprises.

4.4.6 The OPAG had become involved in the Multi Hazard Early Warnings Systems Demonstration Project which was focussed on the EXPO 2010 in Shanghai. A demonstration

project in Nowcasting Services had been devised as part of this overall effort; this was entitled WENS. The ICT would provide some members for the Scientific Steering Group of WENS (which would be Co-Chaired by the OPAG Chair), while the Working Group would be primarily constituted of those based locally in Shanghai. The OPAG was also involved in the "Pavilion Project"; this was a pavilion jointly planned for the EXPO by WMO and CMA to showcase the world of Meteorology. The role of the OPAG would be to encourage and facilitate engagement with the pavilion by weather broadcasters from around the world. The OPAG ICT had met with members of the Huafeng Group, the audio-visual arm of the CMA, to advance these plans.

4.4.7 Finally the OPAG Chair noted that the WWIS website, established as a PWS initiative and operated by Hong Kong China, with assistance from other Members for different language versions, had been awarded the "Stockholm Prize" in the environment category for excellence in an IT project. This prize came from outside the world of meteorology, and was a welcome endorsement from the user community.

5. CBS PROGRAMME ALIGNMENT WITH THE WMO STRATEGIC PLAN AND WMO OPERATING PLAN INCLUDING MONITORING AND EVALUATION

5.1 The session discussed CBS's role in the new WMO strategic planning system. In particular, the session discussed how to increase the effectiveness and visibility of the Commission including possible changes in the structure of the Commission, nomination and appointment of experts for ETs, ICTs and Rapporteurs. The session discussed the need to develop a CBS vision of indicators for strategic planning since it was noted that the present indicators in the WMO Operating Plan are only for the WMO Secretariat and do not appropriately articulate a WMO-wide Operating Plan and thus should be reviewed and updated where required.

5.2 The session was informed of the results of the last session of the WMO Bureau (January 2008) that stressed, in particular, the need for the development by Technical Commissions in their working plans to include:

- (a) their contribution to the overall plans of the Organization;
- (b) the need for revision of the role, mandates and structure of auxiliary bodies of Technical Commissions for their adaptation to the strategic trusts and the expected results;
- (c) development and implementation of the monitoring system for evaluation of WMO activities; and
- (d) elaboration of an approach to develop the next WMO Strategic plan.

5.3 The MG extensively discussed contributions and input that were expected from CBS in the framework of the WMO Strategic and Operational Plans. The following approach was considered most suitable:

- The Vice President of CBS, with assistance of the Secretariat, would prepare a draft discussion paper, to be ready by end of September. The paper would then be circulated to the MG for comments with a view to its submission to the next MG session.

6. DATE AND VENUE FOR THE NEXT SESSION OF THE CBS MANAGEMENT GROUP

6.1 The MG felt that it was necessary to convene another meeting of the MG before the end of 2008 to consolidate the outcome of various CBS Expert Teams and to further discuss their composition and needs in order to make adjustments in the current structure of the OPAGs. Thus, it agreed to have the ninth session from 13 to 15 November 2008 (starting the afternoon of the 13th immediately after the Sub-Group on WIGOS and requested the Secretariat to identify the necessary financial resources and arrange for the venue of the session. The MG also agreed to

seek economies in individual travel and per diem requirements, where possible, to allow for a full MG session.

7. OTHER BUSINESS

7.1 CBS Certificates

7.1.1 The CBS-MG reviewed a proposal of a format of a CBS President Certificate to be used for the recognition of significant contributions by experts to CBS activities between two CBS sessions (four years). It also noted some preliminary nominations received from OPAG Chairpersons.

7.1.2 Following a discussion on the form and way the Certificates should be presented, the MG agreed on a need to develop guidelines, including definite criteria, to be used for the selection and submission of nominations for the recognition of significant contributions. The draft guidelines should be prepared by the OPAG Chairpersons, under the coordination of the PWS OPAG Chair with assistance of the Secretariat, for adoption by the President not later than mid September 2008. The nominations should be submitted to the President by 1 November 2008.

7.1.3 The MG agreed that the selection of nominees will be done at the next CBS-MG meeting (November 2008). It is expected that the Certificates will be awarded at CBS-XIV.

7.2 Access to the WMO Mandatory Publications related to the World Weather Watch (WWW)

7.2.1 Since 15 April 2008, the procedures to access the Manuals on Codes, GDPFS, GOS and GTS, and the operational information as parts of the WMO Mandatory Publications on the WMO server include a log-in procedure. The Management Group felt that the WMO Mandatory Publications should be freely accessible at least by the National, Regional and International organizations/entities that are contributing to the implementation/operation of WMO Programmes. Some of those entities contribute to the development and updates of the WMO Mandatory Publications. The Management Group agreed on the following recommendations for the free access to the WMO Mandatory Publications related to WWW:

- (a) Free access should be granted to international and regional organizations/entities that are contributing to the implementation/operation of the WMO Programmes, for example:
 - Centres having a role given by WMO Technical Commissions in the implementation and operation of WMO Programmes and co-sponsored Programmes, such as World and Regional Radiation/ Instrument/Climate/Hydrological Centres or World/Regional Specialized Meteorological Centres (as already recognized), as well as International organizations operating these centres, such as EUMETSAT and ECMWF.
 - Regional entities, such as ASECNA, ACMAD, AGRHYMET.
- (b) WMO Members should be encouraged to provide free access to the national organizations/entities that are contributing to the implementation/operation of the WMO Programmes.
- (c) Members of the expert teams established by all Technical Commissions should have free access to the WMO Mandatory Publications, as required to carry out the tasks assigned by the Technical Commission.

8. CLOSURE OF THE SESSION

The meeting was closed on Tuesday, 17 June 2008, at 13:13 hours.

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Technical Conference¹		
Organizational preparation	deadline	comments
Decision on topic Designation of Conference Director and Conference committee	D -12 months D -12 months	Done Decision expected by MG-June 2008
Conference organization, agenda, sessions	D -10 months	Proposal to MG-June 2008
Call for presentations, posters, call for financial contributions	D -8 months	-
Consolidated list of presentations & lecturers	D -3 months	-

CBS Session¹		
Administrative procedures		
Offer to host Conference	D -300 days	received
SG informs all Members of proposed session	D -240 days	-
Members inform of intent to participate	D -180 days	-
Procedures for visa etc confirmed by host	D -135 days	-
Notification to Members of date & place	D -120 days	-
Support Services		
Preparation interpreters contracts	D -8 months	Delay increases costs
interpreters contracts	D -6 months	Delay increases costs

Organizational preparation		
Draft future work programme and draft OPAG structure (ETs)	D -6 months	MG and OPAGs
Call for experts' nomination to participate in OPAGs and ETs	D -4 months	With a view to OPAGs & ET membership
Finalization prov. agenda	D -4 months	Draft from MG-VII
Organization of CBS session (committees' chairs, time plan, etc)	D -2 months	-
CBS Operational Planning Framework document	D -3 months	MG responsibility (ref MG-VII)
Technical preparation		
OPAG-IOS ETs	D -3 months	Meetings planned
OPAG-IOS ICT	D -2 months	Session planned mid-September
OPAG-ISS ETs	D -3 months	Meetings planned
OPAG-ISS ICT	D -2 months	Session planned November
OPAG-DPFS ETs	D -3 months	Meetings planned
OPAG-DPFS ICT	D -2 months	Session planned end-September
OPAG-PWS ETs	D -3 months	Meetings planned
OPAG-PWS ICT	D -2 months	Session in May 2008

¹ Status on 23 June 2008: D -9 months(D-270days) prior to the Technical Conference (23-24.03.09) and CBS-XIV (25.03 - 2.04.09)

Draft Provisional Agenda for CBS-XIV

- 1. OPENING OF THE SESSION**
- 2. ORGANIZATION OF THE SESSION**
 - 2.1 Consideration of the report on credentials
 - 2.2 Adoption of the agenda
 - 2.3 Establishment of committees
 - 2.4 Other organizational questions
- 3. REPORT BY THE PRESIDENT OF THE COMMISSION**
- 4. REVIEW OF DECISIONS OF CONGRESS AND THE EXECUTIVE COUNCIL RELATED TO THE COMMISSION**
- 5. STATUS OF WORLD WEATHER WATCH IMPLEMENTATION AND OPERATION**
- 6. WORLD WEATHER WATCH PROGRAMME AND SUPPORT FUNCTIONS, INCLUDING THE REPORTS BY THE CHAIRS OF THE OPEN PROGRAMME AREA GROUPS**
 - 6.1 Integrated Observing Systems (IOS)
 - 6.2 Information Systems and Services (ISS)
 - 6.3 Data-Processing and Forecasting System (DPFS), including Emergency Response Activities
 - 6.4 Operational Information Service (OIS)
 - 6.5 System support activities, including technical cooperation
- 7. WMO SPACE PROGRAMME**
- 8. PUBLIC WEATHER SERVICES, INCLUDING THE REPORT BY THE CHAIR OF THE OPEN PROGRAMME AREA GROUP**
- 9. WMO INFORMATION SYSTEM**
- 10. WMO INTEGRATED GLOBAL OBSERVING SYSTEM**
- 11. OTHER CROSS-CUTTING ACTIVITIES**
 - 11.1 Group on Earth Observations
 - 11.2 Disaster Risk Reduction
 - 11.3 Quality Management Framework
 - 11.4 THORPEX
 - 11.5 IPY
- 12. CBS PROGRAMME AND PLANNING**
 - 12.1 Long-Term Planning Relevant to the Commission
 - 12.2 Future Work Programme
 - 12.3 Review of Previous Resolutions and Recommendations of the Commission and Relevant Resolutions of the Executive Council
 - 12.4 Working Methods and Adoption of Non-Controversial Standards between Sessions
 - 12.5 Date and Place of the Extraordinary Session 2010

13. **ELECTION OF OFFICERS**
 14. **OTHER BUSINESS**
 15. **CLOSURE OF THE SESSION**
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WORLD METEOROLOGICAL ORGANIZATION

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Provisional TECO-WIGOS Programme



WORLD METEOROLOGICAL ORGANIZATION
Weather Climate Water

*Commission for Basic
Systems*

Technical Conference
WMO Integrated Global Observing Systems (WIGOS)

Dubrovnik, Croatia, 23-24 March 2009

Conference Committee

Conference Director - Dr James Rasmussen

Co-Director - Dr Sue Barrell (Australia)

Members of the Conference Committee: Mr H.H. Ciappesoni (Argentina), F. Uirab (Namibia), Mr T. Sutherland (British Caribbean Territories), Mr J.R. Mukabana (Kenya), Mr M. Ostojski (Poland), Dr J. Love (Australia), Dr A. Divino Moura (Brazil), Dr J. Purdom (USA), Dr J. Eyre (UK), Dr A. Zaitsev (Russian Federation), Mr Fred Bransky (USA), Mr Peiliang Shi (China), Mr G. Fleming (Ireland), Mr B. Strauss (France), D/OBS, C/PO WIGOS (WMO Secretariat)

PROGRAMME

Session 1	Lectures	Posters
Session 2	Lectures	Posters

Note: most files are in PDF version. If you need the Acrobat Reader, [please click here](#)

Monday - 23 March 2009

10h00-10h10	OPENING	Mr A.I. Gusev <i>President of CBS</i> (Russian Federation)
10h15-11h00	Conference Goals: WIGOS - Crossroad for WMO, A historical perspective [PDF, PowerPoint]	Conference Director

SESSION 1 - GOVERNANCE AND MECHANISMS FOR THE IMPLEMENTATION OF WIGOS CONCEPT

Co-chairs: Mr T. Sutherland (British Caribbean Territories), Mr J.R. Mukabana (Kenya)

11h00-11h30	Session 1- Keynote: WIGOS as a challenging initiative of WMO [PDF, PowerPoint]		Dr A. Divino Moura <i>Chair, EC WG WIGOS-WIS</i> (Brazil)
11h30-11h50	1(1)	WIGOS Development and Implementation Plan (WDIP) [PDF, PowerPoint]	(Expert nominated by EC WG WIGOS-WIS) TBD
11h50-13h30	LUNCH BREAK		
13h30-13h50	1(2)	WIGOS Concept of Operations [PDF, PowerPoint]	(Expert nominated by OPAG-IOS) TBD
13h50-14h10	1(3)	WIS Project and Implementation Plan [PDF, PowerPoint]	Prof G.-R. Hoffman, <i>Vice-president of CBS</i> (Germany)
14h10-14h30	1(4)	WIGOS: Requirements for Instruments and Methods of Observations (Integration on the instrument level) [PDF, PowerPoint]	Dr J. Nash, <i>President of CIMO</i> (UK)
14h30-14h50	1(5)	WIGOS: Requirements for Data Dissemination and Exchange (Integration on the WIS level) [PDF, PowerPoint]	(Expert nominated by ICG-WIS and OPAG-ISS) TBD
14h50-15h10	1(6)	WIGOS: Requirements for end-products quality assurance (Integration on the QMF level) [PDF, PowerPoint]	Dr A.Zaitsev, <i>CBS Rappporteur on QMF</i> (Russian Federation)
15h10-15h30	Questions and Answers		
SESSION 2 - WIGOS PILOT AND DEMONSTRATION PROJECTS-CONTRIBUTION OF REGIONAL ASSOCIATIONS AND TECHNICAL COMMISSIONS <i>Co-chairs:</i> Mr H.H. Ciappesoni (Argentina), F. Uirab (Namibia),			
15h30-15h50	2(1)	Session 2- Keynote: WIGOS Pilot and Demonstration Projects - Purpose [PDF, PowerPoint]	Conference Co-Director
<i>WIGOS Pilot Projects (PPs)</i>			
15h50-16h10	2(2)	Joint GOS-GAW Pilot Project to accelerate	(Expert nominated by

		implementation of WIGOS/WIS [PDF, PowerPoint]	CAS) TBD
16h10-16h30	2(3)	Initiation of a Global Hydrologic Network addressing a GCOS Requirement [PDF, PowerPoint]	(Expert nominated by CHy) TBD
16h30-17h00	2(4)	Integration of AMDAR into WIGOS [PDF, PowerPoint]	(Expert nominated by AMDAR Panel) TBD
17h00-17h20	2(5)	Elaborating on the Underpinning/cross-cutting Role of the Instruments and Methods of Observation Programme and CIMO in the Context of WIGOS [PDF, PowerPoint]	(Expert nominated by CIMO) TBD
17h20-17h40	2(6)	Integration of Marine Meteorological and Other Appropriate Oceanographic Observation Systems into WIGOS [PDF, PowerPoint]	(Expert nominated by JCOMM) TBD
17h40-18h00		Questions and Answers	

Tuesday - 24 March 2009

SESSION 2 (cont'd) - WIGOS PILOT AND DEMONSTRATION PROJECTS-CONTRIBUTION OF REGIONAL ASSOCIATIONS AND TECHNICAL COMMISSIONS

Co-chairs: Dr Alexander Zaitsev (Russian Federation),, *Mr M. Ostojski (Poland)*

WIGOS Demonstration Projects (DPs)

09h00-09h20	2(8)	DP in Kenya (RA I) [PDF, PowerPoint]	Mr William Nyakwada (Kenya)
09h20-09h40	2(9)	DP in Namibia (RA I) [PDF, PowerPoint]	(Namibia) TBD
09h40-10h00	2(10)	DP in Morocco (RAI) [PDF, PowerPoint]	Mr Mohamed Nbou (Morocco)
10h00-10h20	2(11)	DP in Republic of Korea (RA II) [PDF, PowerPoint]	Mr Byunghyun Song (Republic of Korea)
10h20-10h40	2(12)	DP in Brazil (RA III) [PDF, PowerPoint]	(Brazil) TBD

10h40-11h00	2(13)	DP in the USA (RA IV) [PDF, PowerPoint]	(USA) TBD
11h00-11h20	2(14)	DP in Australia (RA V) [PDF, PowerPoint]	(Australia) TBD
11h20-11h40	2(15)	DP in the Russian Federation (RA VI) [PDF, Power Point]	(Russian Federation) TBD
11h40-12h00	2(16)	Spare slot (Industry&Manufacturers) [PDF, PowerPoint]	(HMEI)
11h40-12h00		Questions and Answers followed by Confernece Discussion on importance of WIGOS and CBS's leadership role within the core of contributing Commissions	Conference Director and Co-Director
12h20-12h40		Review and approve Conference Declaration	President and Vice-President CBS

POSTERS SESSIONS

POSTERS	SESSION 1 - GOVERNANCE AND MECHANISMS FOR THE IMPLEMENTATION OF WIGOS CONCEPT	
<i>P1(1)</i>		
<i>P1(2)</i>		
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POSTERS	SESSION 2 - - WIGOS PILOT AND DEMONSTRATION PROJECTS- CONTRIBUTION OF REGIONAL ASSOCIATIONS AND TECHNICAL COMMISSIONS	
<i>P1(1)</i>		
<i>P1(2)</i>		
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