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COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMMME AREA GROUP ON
INTEGRATED OBSERVING SYSTEMS

ITEM: 2

**SECOND AD HOC IPET-OSDE WORKSHOP ON
OBSERVING SYSTEM NETWORK DESIGN**

Original: ENGLISH

GENEVA, SWITZERLAND, 2-4 FEBRUARY 2015

GUIDANCE FROM THE IPET-OSDE CHAIRPERSON

(Submitted by John Eyre (United Kingdom), Chair, IPET-OSDE)

SUMMARY AND PURPOSE OF DOCUMENT

The document provides guidance from the IPET-OSDE Chairperson, including his report on the development of Observing System Network Design principles and guidance, and role of the workshop in the context of the IPET-OSDE work plan for CBS.

ACTION PROPOSED

The Meeting is invited to note the information contained in this document when considering its recommendations.

DISCUSSION

1. An *ad hoc* workshop on Observing System Design (OSDW1) was held, under the auspices of the CBS OPAG-IOS Inter-Programme Expert Team on the Observing System Design and Evolution (IPET-OSDE), at the WMO Headquarters in Geneva, Switzerland from 12 to 14 November 2013 and was chaired by the Chair of the IPET-OSDE, Dr John Eyre (United Kingdom). A full report on the workshop is available at:

<http://www.wmo.int/pages/prog/www/CBS-Reports/IOS-index.html>.

2. OSDW1 reviewed specific past, present and planned observing system activities related to observing system design, covering: (i) surface-based observing systems; (ii) surface marine observations; (iii) design activities under the WMO Space Programme, in particular undertaken by the Coordination Group for Meteorological Satellites (CGMS), and with some additional information provided on the Architecture for Climate Monitoring from Space; (iv) the WMO-IOC-UNEP-ICSU Global Climate Observing System (GCOS) network design; (v) an update on the development of the Global Framework for Climate Services (GFCS) with focus on observational issues; and (vi) plans for observations within the Global Cryosphere Watch (GCW). The workshop also reviewed the status of relevant observing system network design (OSND) activities within WMO Programmes, WMO Regions and relevant international organizations and groupings (such as ECMWF and EUMETNET), including impact studies relevant to OSND.

3. OSDW1 developed a substantial body of material from which Observing System Network Design (OSND) Principles and additional OSND guidance material could be extracted. OSDW1 also agreed a roadmap for further development of the OSND Principles and associated guidance material.

4. Following OSDW1, work on developing the OSND Principles and associated guidance material proceeded according to the agreed roadmap. A set of OSND Principles was extracted from the material generated at OSDW1, by separating out "design principles" from guidance on how such principles should be interpreted or executed. Useful material was also identified which, although not relevant to network design, may be relevant to observing system design in general. The draft OSND Principles and associated guidance were sent to all OSDW1 participants for review, and they were revised following comments received.

5. A version of the draft OSND Principles was prepared for the third session of the ICG-WIGOS (Geneva, 10-14 February 2014). ICG-WIGOS noted the progress on the draft OSND Principles.

6. The draft OSND Principles and associated guidance material were presented and discussed at IPET-OSDE1 (Geneva, 31 March – 3 April 2014). Minor revisions were made. On 4 April 2014, the revised version of the draft OSND Principles was submitted to the WIGOS Task Team on Regulatory Material. In this way, this version of the Principles formed part of the draft WIGOS Manual considered by the Presidents of Technical Commissions and was also sent to WMO Members for review. IPET-OSDE1 also considered and revised the roadmap prepared by OSDW1.

7. The latest version of the OSND Principles, as incorporated in the draft WIGOS Manual, is presented in Doc.3, along with the associated draft guidance material as developed at and following OSDW1. The roadmap for these activities is presented in Doc.8.

8. Proposed objectives and tasks for OSDW2:

- Consider the OSND Principles – their review status and any comments received. Propose any changes needed. (Agenda item 3)
- Recall the OSND draft guidance material developed at and following OSDW1. (Agenda item 3)

- Consider the status and plans for WIGOS documentation as a whole and the proposed role of the OSND Principles and OSND guidance material within the overall WIGOS framework. (Agenda items 4 and 5)
- Consider other available material relevant to the development of OSND guidance material, which might be available from a diverse range of sources. (Agenda item 6)
- Continue work on the development of OSND guidance material, improving and extending existing material, as allowed by the time constraints of the meeting. (Agenda item 7)
- Develop a plan and timetable for further development of OSND guidance material, with the aim of having a complete draft ready for IPET-OSDE2 (early 2016). (Agenda items 8 and 9)
- Prepare text to summarise the status and plans for these activities for presentation at ICG-WIGOS-4, 16-20 February 2015. (Agenda item 9)

9. Other options

It is possible that the scoping of OSND guidance material may prove difficult because of uncertainties in the plans for development of other strands and layers of WIGOS documentation. If this is found by the meeting to be a major issue, then it may be more productive for the meeting to spend some of its time of drafting proposals for the structure of relevant parts of WIGOS documentation, for consideration by ICG-WIGOS-4.
