

**JOINT WMO-IOC TECHNICAL COMMISSION  
FOR OCEANOGRAPHY AND MARINE  
METEOROLOGY (JCOMM)**

Submitted by: **JCOMM-4/Doc. 5.2**  
WMO Secretary-General  
and UNESCO/IOC  
Executive Secretary

**FOURTH SESSION**

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**OPERATIONAL REQUIREMENTS AND WMO ROLLING REVIEW OF  
REQUIREMENTS****SUMMARY****ISSUE TO BE DISCUSSED:**

Contribution of JCOMM to the WMO Rolling Review of Requirements

**DECISIONS/ACTIONS REQUIRED:**

The Commission is requested to:

- (a) Request the Observations Programme Area (OPA) to:
  - make sure that the ocean observational requirements for the following applications areas are included in the OPA Implementation Goals:
    - Ocean Applications, including Met-Ocean Forecasts and Services, including marine services, marine hazards warning, ocean mesoscale forecasting, global and regional wave modelling, serving the needs of maritime transportation, fishing, and coastal and offshore areas activities;
    - Global Numerical Weather Prediction;
    - High Resolution Numerical Weather Prediction;
    - Synoptic Meteorology;
    - Seasonal to Inter-annual Forecasts;
    - Climate applications and services;
  - continue to evaluate the quality of wave observations, and the development of cost-effective wave observations from drifters through the DBCP-ETWS Pilot Project on Wave Measurement Evaluation and Test from Moored Buoys (PP-WET) and the DBCP Pilot Project on Wave Measurement from Drifters (PP-WMD) respectively;
- (b) Invite Members/Member States participating in JCOMM to:
  - to make precipitation measurements from moored buoys, including coastal moorings, tropical moorings, and OceanSITES;
  - complete the RAMA array of tropical moored buoys in the Indian Ocean;
- (c) Urge Members/Member States participating in JCOMM to:
  - to install barometers on all newly deployed drifters;
  - to make sure that all ocean observations related actions, which are part of the Implementation Plan for the Evolution of Global Observing Systems (EGOS-IP), are properly addressed once the new EGOS-IP is approved by the WMO Executive Council;
- (d) Approve the draft text for inclusion in the general summary of JCOMM-4 given in the Appendix.

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## **APPENDIX: DRAFT TEXT FOR INCLUSION IN THE GENERAL SUMMARY OF JCOMM-4**

### **5.2 OPERATIONAL REQUIREMENTS AND WMO ROLLING REVIEW OF REQUIREMENTS** *(agenda item 5.2)*

**5.2.1** The Commission recalled that operational observations requirements for marine services and forecasting systems, as well as ocean observations requirements for other applications areas (e.g. Numerical Weather Prediction – NWP), have been routinely managed through the WMO Rolling Review of Requirements.

**5.2.2** Considering that the requirements for climate monitoring (GCOS, see item 5.1) were already well taken into account as part of the JCOMM OPA Implementation Goals (OPA-IG), the Commission requested the OPA to make sure that the ocean observational requirements for the following applications areas are also included in the OPA-IG:

- i. Ocean Applications, including Met-Ocean Forecasts and Services, including marine services, marine hazards warnings, ocean mesoscale forecasting, global and regional wave modelling, serving the needs of maritime transportation (e.g. safety, routing), fishing, and coastal and offshore areas activities;
- ii. Global Numerical Weather Prediction;
- iii. High Resolution Numerical Weather Prediction;
- iv. Synoptic Meteorology;
- v. Seasonal to Inter-annual Forecasts;
- vi. Climate applications and services.

**5.2.3** In doing so, and taking into account the Statements of Guidance (<http://www.wmo.int/pages/prog/www/OSY/GOS-RRR.html#SOG> ) for the above application areas, and identified key gaps, the Commission recommended the following JCOMM response:

- i. OPA is requested to continue to evaluate the quality of wave observations, and the development of cost-effective wave observations from drifters through the DBCP-ETWS Pilot Project on Wave Measurement Evaluation and Test from Moored Buoys (PP-WET) and the DBCP Pilot Project on Wave Measurement from Drifters (PP-WMD) respectively;
- ii. Commission members are invited to make precipitation measurements from moored buoys, including coastal moorings, tropical moorings, and OceanSITES;
- iii. Commission members are urged to install barometers on all newly deployed drifters;
- iv. The RAMA array of tropical moored buoys in the Indian Ocean should be completed.

**5.2.4** The Commission emphasized the importance of an integrated approach between in situ and satellite observations when considering requirements. Noting with appreciation that the WMO-CEOS database now contained a new sub-set relevant to marine meteorology and operational oceanography, allowing an accurate assessment of how the existing in situ ocean observing system was addressing JCOMM's own service requirements for such data, the Commission requested the Services and Forecasting Systems Programme Area (SFSPA) to ensure that the set of observational data requirements to support met-ocean applications continues to be reviewed, and updated, especially in light of satellite products data requirements. Further noting that the SFSPA had participated in the WMO/CBS Rolling Review of Requirements (RRR) process and that an updated Statement of Guidance (SoG) for Ocean Applications had been produced (JCOMM-4/BM.5.4), the Commission requested that the existing SoG should continuously be kept updated *[see also JCOMM-4/Doc.8.1].*

**5.2.5** The Commission recalled that the Implementation Plan for the Evolution of Global Observing Systems (EGOS-IP), managed through the Commission for Basic Systems (CBS), was currently being drafted. This would be an important reference document in providing Members with clear and focused guidelines and recommended actions in order to stimulate cost-effective evolution of the observing systems. The Commission noted that good progress has been made in developing the new version of the EGOS-IP in response to the Vision of the GOS in 2025, WIGOS needs, GFCS requirements, and Ocean Application requirements. The Commission particularly thanked Dr Ali Mafimbo (Kenya) and the SFSPA for their substantial efforts in this regard. The Commission urged Members/Member States to make sure that all ocean observations related actions which are part of the EGOS-IP should be properly addressed once the new EGOS-IP is approved by the WMO Executive Council (in principle EC-65 in 2013).

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**REFERENCES FOR DOC. 5.2 (Not to be included in the final Meeting Report):**

1. Abridged Final Report with Resolutions of the Sixteenth World Meteorological Congress (WMO-No. 1077), paragraphs 2.5.19 – 2.5.21, 3.1.1.5 – 3.1.1.6, 4.4, and Resolutions 3 and 24
2. Abridged Final Reports with Resolutions of the Sixty-second (WMO-No. 1059), paragraphs 2.5.5 – 2.5.7, 3.4.20 – 3.4.26, 4.2.46-4.2.50, and Resolution 4, and Sixty-third Sessions (WMO-No. 1078) of the WMO Executive Council
3. Abridged Final Report with Resolutions and Recommendations of the First (WMO-No. 931), Second (WMO-No. 995) and Third (WMO-No. 1049) Sessions of JCOMM  
[http://www.jcomm.info/index.php?option=com\\_oe&task=viewDoclistRecord&doclistID=112](http://www.jcomm.info/index.php?option=com_oe&task=viewDoclistRecord&doclistID=112)
4. Summary Report of the Forty-third (IOC/EC-XLIII) Session of the UNESCO/IOC Executive Council
5. Summary Report of the Twenty-sixth (IOC-XXVI) Session of the UNESCO/IOC Assembly
6. Final Reports of the Eighth (JCOMM/MR-No.83) and Ninth (JCOMM/MR-No. 88) Sessions of the JCOMM Management Committee  
[http://www.jcomm.info/index.php?option=com\\_oe&task=viewDocumentRecord&docID=6397](http://www.jcomm.info/index.php?option=com_oe&task=viewDocumentRecord&docID=6397)  
[http://www.jcomm.info/index.php?option=com\\_oe&task=viewDocumentRecord&docID=7803](http://www.jcomm.info/index.php?option=com_oe&task=viewDocumentRecord&docID=7803)
7. Final Report of the Fourth Session of the JCOMM Observations Coordination Group (JCOMM/MR-No. 85)  
[http://www.jcomm.info/index.php?option=com\\_oe&task=viewDocumentRecord&docID=7652](http://www.jcomm.info/index.php?option=com_oe&task=viewDocumentRecord&docID=7652)
8. Final Report of the Sixth Session of the CBS Expert Team on the Evolution of Global Observing Systems (ET-EGOS-6)  
<http://www.wmo.int/pages/prog/www/CBS-Reports/documents/ET-EGOS-6-Final-Report.pdf>
9. Draft Implementation Plan for the Evolution of Global Observing Systems (EGOS-IP)  
<ftp://ftp.wmo.int/Documents/PublicWeb/www/gos/egos-ip/>
10. **JCOMM-4/BM.5.2:** Operational requirements and WMO Rolling Review of Requirements – Statement of Guidance for Ocean Applications, and critical non-climate observational variables of interest to JCOMM