

**JOINT WMO-IOC TECHNICAL COMMISSION
FOR OCEANOGRAPHY AND MARINE
METEOROLOGY (JCOMM)**Submitted by: **JCOMM-4/Doc. 5.3**
WMO Secretary-General
and UNESCO/IOC
Executive Secretary

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Agenda Item: **5.3**Status: **DRAFT 1****REQUIREMENTS FOR INTEGRATED DATA PRODUCTS****SUMMARY****ISSUES TO BE DISCUSSED:**Future development for improved integrated satellite and *in situ* data and products**DECISIONS/ACTIONS REQUIRED:**

The Commission is requested to:

- (a) Request the Management Committee to:
 - enhance the partnership and interactions with the existing mechanisms for dealing with satellites and satellite products; and
 - ensure that appropriate areas of expertise are represented in TT-SAT to efficiently carry out the given tasks;
- (b) Decide that the TT-SAT replaces the previous Activity Leaders on Satellite Data Requirements, and that the chair of TT-SAT becomes a member of the Management Committee;
- (c) Request the cross-cutting Task Team on Satellite Data Requirements (TT-SAT) to:
 - lead intersessional activities to document JCOMM non-climate requirements, taking into account an integrated use of available *in situ* and satellite products;
 - develop and document best practices and standards for more homogeneous quality control of *in situ* and satellite data for use in integrated products;
 - coordinate the development of integrated *in situ* and satellite Surface Vector Wind (SVW) products, in close collaboration with the interested satellite and *in situ* communities;
 - appropriately document the outcome of its work, and to update the WMO Rolling Review of Requirement (RRR) and the Statement of Guidance (SoG) for Ocean Applications;
- (d) Approve the draft text for inclusion in the general summary of JCOMM-4 given in Appendix.

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

5.3 REQUIREMENTS FOR INTEGRATED DATA PRODUCTS (*agenda item 5.3*)

5.3.1 The Commission noted that a cross-cutting Task Team on Satellite Data Requirements (TT-SAT) was established during the past intersessional period to improve the integration of satellite and *in situ* data including real-time systems. The Commission agreed that the TT-SAT should replace the Activity Leaders on Satellite Data Requirements in each Programme Area, with the chair to be a member of the Management Committee. The Commission agreed that the TT-SAT should lead the intersessional activities to document JCOMM non-climate requirements, taking into account an integrated use of available *in situ* and satellite products.

5.3.2 The Commission, noting that *in situ* and satellite observations are complementary for most areas of met-ocean applications, agreed that further consistent quality control between *in situ* and satellite data must be promoted as a matter of priority, together with appropriate feedback mechanisms both ways. The Commission requested the TT-SAT, with appropriate programmes of WMO and IOC, to coordinate the development and documentation of best practices and standards with the OPA for *in situ* data, and the TT-SAT.

5.3.3 The Commission agreed that efforts should be made to improve integrated satellite and *in situ* data products, through gap analysis if necessary, to meet end user requirements. In this context, the Commission endorsed a proposed activity by the Management Committee for TT-SAT to coordinate the development of integrated *in situ* and satellite Surface Vector Wind (SVW) products, in close collaboration with the interested satellite and *in situ* communities. This would substantially improve operational applications (including those of NWP, maritime safety, sea state forecasting and warnings, and coastal applications) that provide societal benefit. The Commission requested the Management Committee to ensure, in designating task team membership, that appropriate areas of expertise would be represented in TT-SAT to efficiently carry out this task. The Commission also requested TT-SAT to appropriately document the outcome of its work, and to update the User Requirements documented in the WMO Rolling Review of Requirement (RRR) database and the Statement of Guidance (SoG) for Ocean Applications as needed.

5.3.4 The Commission agreed that JCOMM should maximize interactions with and utilization of the existing mechanisms for dealing with satellites and satellite products (e.g. CBS ET-SAT & ET-SUP, CEOS, CGMS), in order to streamline the Commission's activities in this area and to efficiently deliver the requirements identified for ocean data acquisition and improved applications for service delivery. In particular, the Commission agreed that better linkage was required between JCOMM and the various CEOS virtual constellation groups (e.g. tide gauge expert participation in the surface topography constellation). The Commission requested the Management Committee to enhance the partnership and develop joint activities with these groups.

REFERENCES FOR DOC. 5.3 (Not to be included in the final Meeting Report):

1. Abridged Final Report with Resolutions of the Sixteenth World Meteorological Congress (WMO-No. 1077)
2. Abridged Final Reports with Resolutions of the Sixty-second (WMO-No. 1059) and Sixty-third Sessions (WMO-No. 1078) of the WMO Executive Council
3. Abridged Final Reports with Resolutions and Recommendations of the First (WMO-No. 931), Second (WMO-No. 995) and Third (WMO-No. 1049) Sessions of JCOMM
4. Final Reports of the Eighth (JCOMM/MR-No.83) and Ninth (JCOMM/MR-No. 88) Sessions of the JCOMM Management Committee