Joint WMO–IOC Consultation Group on the Reform of JCOMM

Ariel Troisi, Louis W. Uccellini
Co-chair Presentation to the IOC Assembly
28 June 2019
Strategic Basis

WMO Strategic Plan and IOC Medium-Term Strategy

Interdisciplinary nature of future work
  • Weather, water, and climate linkages
  • Assuring Ocean-land-atmosphere-cryosphere coupling in forecast models

IOC and WMO positioned to address these future challenges and opportunities
Purpose of the Joint Consultation Group

i. Examine the proposal for the transition

ii. Consult WMO Members and IOC Member States

iii. Propose terms of reference for a [Joint Collaborative Board]

iv. Identify working arrangements and sponsorship for all bodies presently in JCOMM, the relationship between existing co-sponsored programmes (GCOS, GOOS, WCRP) and the proposed [Joint Collaborative Board], and any other jointly undertaken work

v. Identify and map all technical functions from the current JCOMM to IOC and WMO bodies, to insure the full functioning of all operational matters

vi. Develop a revised proposal and a recommendation for the way forward, to be submitted to both WMO Cg-18 and IOC-XXX
Participants

Co-Chairs
• Louis Uccellini, WMO PR USA
• Ariel Troisi, IOC Vice-Chair

Members
• Albert Martis, Curacao
• Xianghua Xu, China
• Johan Stander, JCOMM
• Michel Jean, WMO CBS
• Tom Cuff, JCOMM Services
• Monika Breuch-Moritz, IOC Vice-Chair
• Margareth Kyewalyanga, Tanzania
• Nadia Pinardi, JCOMM
• Yutaka Michida, IODE
• Alexander Postnov, TOWS-WG
• Stephen Briggs, GCOS
• John Gunn, GOOS
• Martin Visbeck, WCRP

Advisors
• Craig McLean
Key Outputs of the Consultation Group

• Joint WMO-IOC Collaborative Board Terms of Reference

• Draft parallel resolutions for Congress and IOC Assembly (IOC-XXX/5.1)

• Co-chairs Report (IOC/INF-1373)
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<thead>
<tr>
<th>IOC Assembly, EC (Assembly and Executive Council)</th>
<th>WMO Cg, EC (Congress and Executive Council)</th>
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<tbody>
<tr>
<td><strong>Observations</strong></td>
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<tr>
<td>• Observations to address ocean, weather, water, and climate applications and services</td>
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<tr>
<td><strong>Data</strong></td>
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<td>• Assured best practices and quality control in the collection, dissemination, sharing, and archival of ocean and weather observations and model data, for improved services</td>
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<td><strong>Forecast Systems</strong></td>
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<td>• Enable a fully coupled earth prediction capability for ocean, weather, water, and climate forecasts</td>
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<td><strong>Services</strong></td>
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<td>• Decision support services to save lives, improve health, protect property, and enhance sustainable economic development on the open ocean, in coastal zones, and in high latitudes, as well as over land</td>
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<td>• Forecast coastal inundation, whether due to hydrological conditions, storm surge, tsunamis, rising sea level, etc.</td>
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<td>• Safe and efficient ship routing, avoiding hazardous weather conditions at sea</td>
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<td>• Response to disasters at sea and in coastal zones, minimizing environmental damage</td>
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<td>• Build partnerships in high latitude observations, predictions, and forecasts of the maritime environment and over land</td>
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<td><strong>Research</strong></td>
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<td>• Identify and address gaps in our knowledge of the interaction among the cryosphere, ocean, and atmosphere impacting to support ocean, weather, water, and climate services</td>
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<td><strong>Capacity development</strong></td>
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<td>• Close the capacity gap in ocean, weather, water, and climate among member states</td>
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**Joint WMO-IOC Collaborative Board**

**Notional advisory areas**
Joint WMO-IOC Collaborative Board

Future landscape & Opportunities

• Maximize opportunities to co-design joint work to improve the provision of information and services for societal benefit

• Suggest initiatives to improve end-to-end links; enhance connections with research

• Influence how WMO and IOC jointly enable the delivery of information and services
Terms of Reference

Joint WMO-IOC Collaborative Board Mandate

Joint Collaborative Board

Strategic advice

- Joint collaborative strategy across full range of activities
- Advice on joint work to achieve relevant objectives
- Prepare coordinated draft resolutions/decisions

Scientific and technical recommendations

- Including proposing cross-cutting projects

Liaison

- Engage in liaison/consultation with stakeholders

External stakeholders (e.g. IMO)

GOOS
Global Ocean Observing System

GCOS
Global Climate Observing System

COIIS
Commission for Observation, Infrastructure and Information Systems

IODE
International Oceanographic Data & Information Exchange

TOWS
Working Group on Tsunamis and Other Hazards Related to Sea-Level Warning and Mitigation Systems

WCRP
Climate, Weather, Ocean and Related Environmental Services and Applications

IODE
International Oceanographic Data & Information Exchange

Associated research community

WCRP
Research Board

IOC
Assembly, EC
Assembly and Executive Council

WMO
Cg, EC
Congress and Executive Council

Terms of Reference

Scientific and technical recommendations

- Including proposing cross-cutting projects

Liaison

- Engage in liaison/consultation with stakeholders

External stakeholders (e.g. IMO)
Membership of the Joint WMO-IOC Collaborative Board is drawn from the governance and programmes of both organizations. The membership includes:

- **Co-chairs**: one WMO Vice-President and one IOC Vice-Chairperson.
- **At-large members**, taking into account geographic balance:
  - Three members of the WMO Executive Council (EC).
  - Three representatives of IOC Member States.
- Ten representatives of WMO and IOC scientific and technical bodies and programmes, including co-sponsored entities:
  - Representing leadership of activities in:
    1. Observations
    2. Data management
    3. Forecasting systems
    4. Services
    5. Research

The Joint WMO-IOC Collaborative Board is co-sponsored by the Assembly and Executive Council of the IOC and the Congress and Executive Council of the WMO. Its terms of reference, which are depicted in the diagram, outline the Board's role in various areas, including:

- **Observations**
- **Data**
- **Forecasting Systems**
- **Services**
- **Research**

The Board also focuses on capacity development, with representation from both the IOC and WMO, as well as the Research Board and co-sponsored entities.
Notional future home of JCOMM activities

- JCOMM Observations
- JCOMM Data Management
- JCOMM Services
- Joint Collaborative Board creates the opportunity for additional connections and activities
IOC Member State consultation

Fifteen MS provided comments to IOC Circular Letter

IOC Member States were positive about the creation of a proposed Joint Board and the opportunities

- recommendations of the Collaborative Board be submitted to governing bodies of IOC and WMO for final approval
- promote the integration of meteorological and oceanographic services
- support the ocean economy
- regional work
GOOS Steering Committee
1-3 May 2019

• Agreement to take on the Observations Coordination Group and the Expert Team on Operational Ocean Forecast Systems

• Welcoming increasing WMO engagement in GOOS, including development of a node of the GOOS Office at WMO
<table>
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<tr>
<th>Year</th>
<th>Event</th>
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<tr>
<td>2019</td>
<td>Apr: JCB&lt;br&gt;Oct: Preparatory meeting of TCs, RB, JCB</td>
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<tr>
<td>2020</td>
<td>Mar: JCB&lt;br&gt;May: GOOS-SC&lt;br&gt;Feb: TOWS-WG, IODE</td>
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<tr>
<td>2021</td>
<td>Apr: Joint TC meeting&lt;br&gt;May: GOOS-SC&lt;br&gt;Jan: TOWS-WG, IODE</td>
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