



United Nations  
Educational, Scientific and  
Cultural Organization



Intergovernmental  
Oceanographic  
Commission



Sustainable  
Development  
Goals

*One Planet, One Ocean*

# 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
- **Margareth Kyewalyanga**, Tanzania
- **Nadia Pinardi**, JCOMM

## Members

- **Albert Martis**, Curacao
- **Xianghua Xu** China
- **Johan Stander**, JCOMM
- **Michel Jean**, WMO CBS
- **Tom Cuff**, JCOMM Services
- **Monika Breuch-Moritz**, IOC Vice-Chair
- **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)

**IOC**

**Assembly, EC**

Assembly and Executive  
Council

**WMO**

**Cg, EC**

Congress and Executive  
Council

## Joint WMO-IOC Collaborative Board

### Notional advisory areas

#### Observations

- Observations to address ocean, weather, water, and climate applications and services

#### Data

- Assured best practices and quality control in the collection, dissemination, sharing, and archival of ocean and weather observations and model data, for improved services

#### Forecast Systems

- Enable a fully coupled earth prediction capability for ocean, weather, water, and climate forecasts

#### Services

- 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
- Forecast coastal inundation, whether due to hydrological conditions, storm surge, tsunamis, rising sea level, etc.
- Safe and efficient ship routing, avoiding hazardous weather conditions at sea
- Response to disasters at sea and in coastal zones, minimizing environmental damage
- Build partnerships in high latitude observations, predictions, and forecasts of the maritime environment and over land

#### Research

- 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

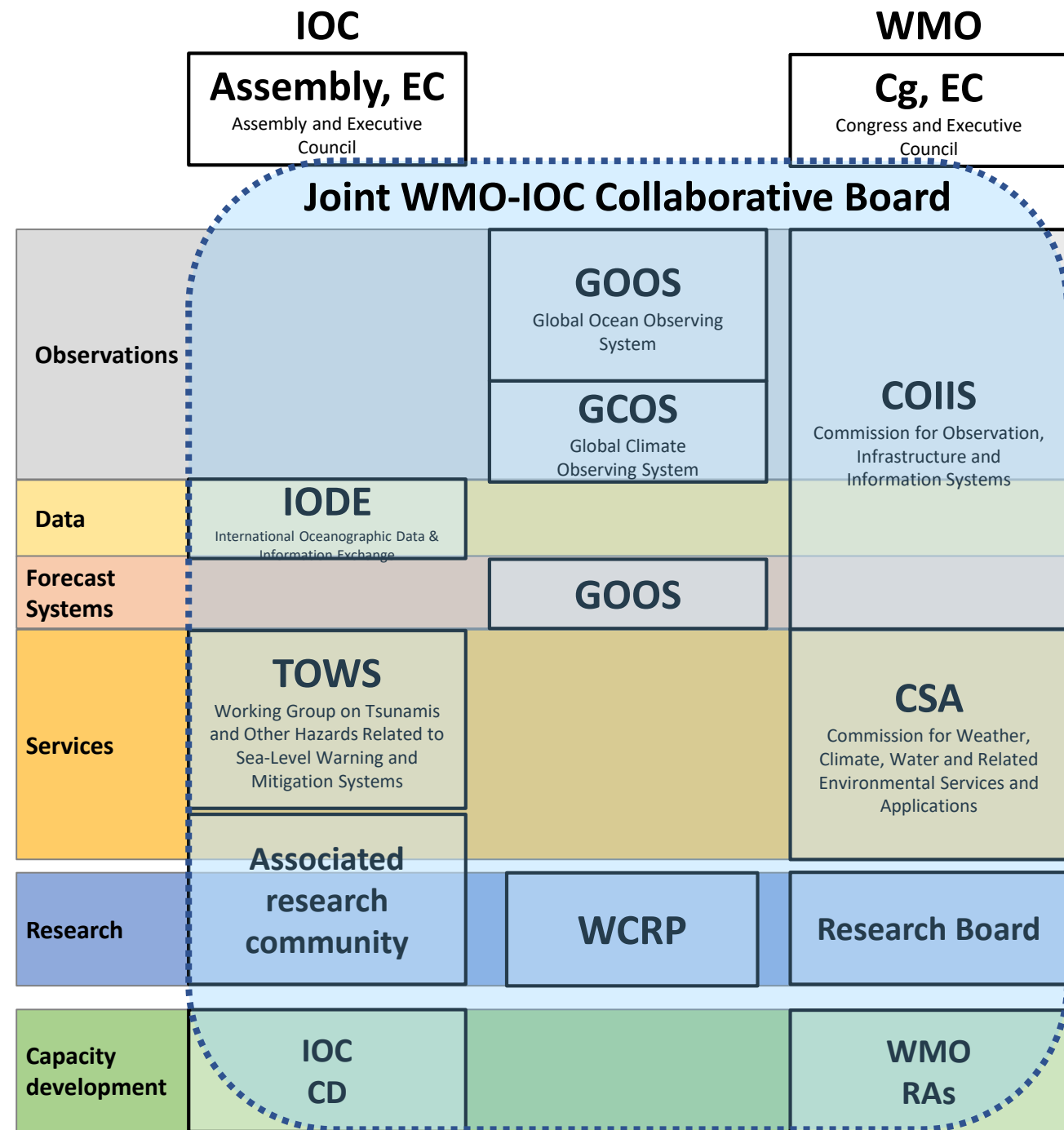
#### Capacity development

- Close the capacity gap in ocean, weather, water, and climate among member states

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)

IOC

### Assembly, EC

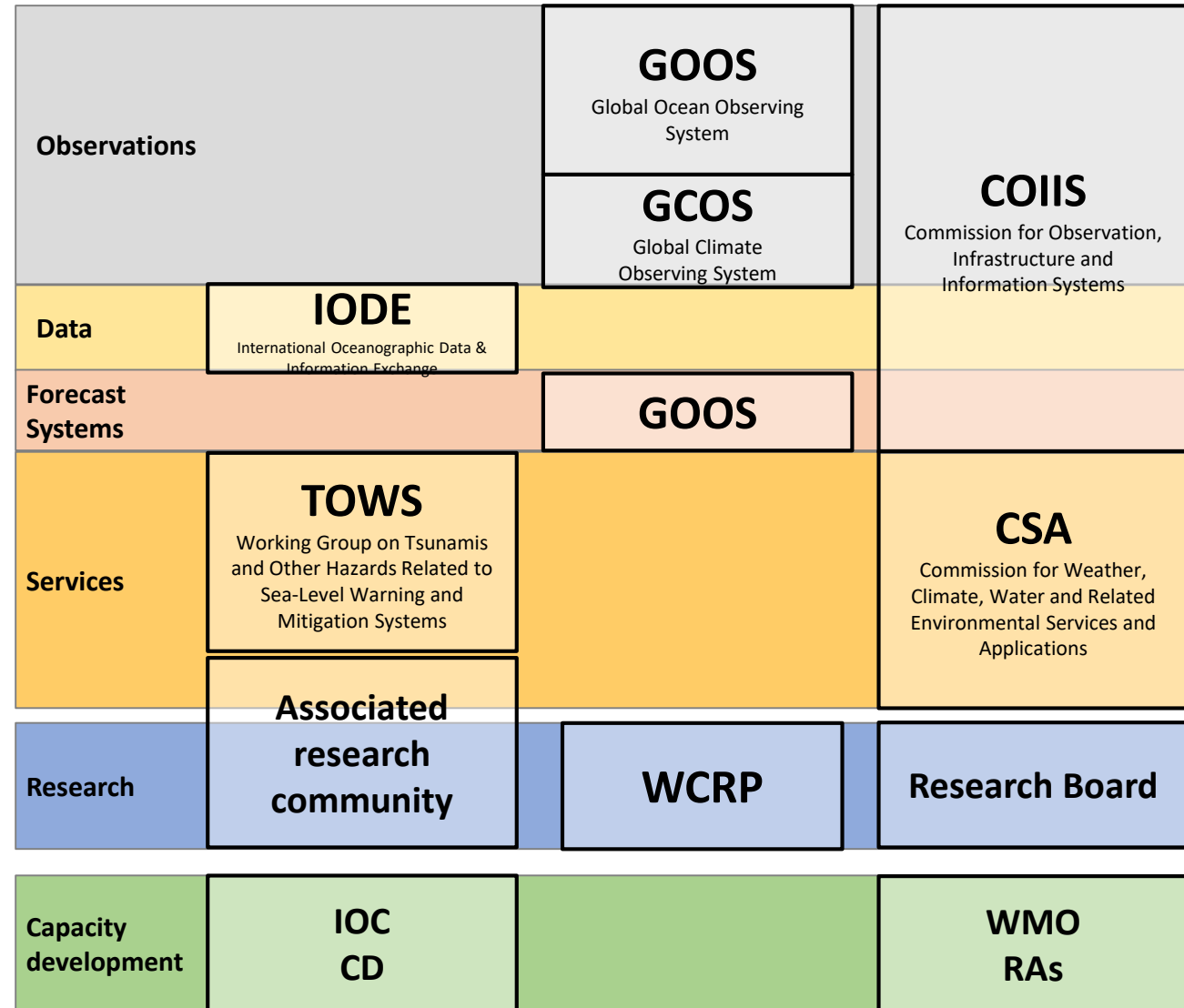
Assembly and Executive Council

WMO

### Cg, EC

Congress and Executive Council

co-sponsored





# Terms of Reference

Joint WMO-IOC Collaborative Board

## Membership

Joint WMO-IOC Collaborative Board

### Membership drawn from IOC and WMO governance and programmes

- **Co-chairs:** one WMO Vice-President, one IOC Vice-Chairperson
- **At-large members**, taking into account geographic balance
  - Three members of the WMO 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

IOC

WMO

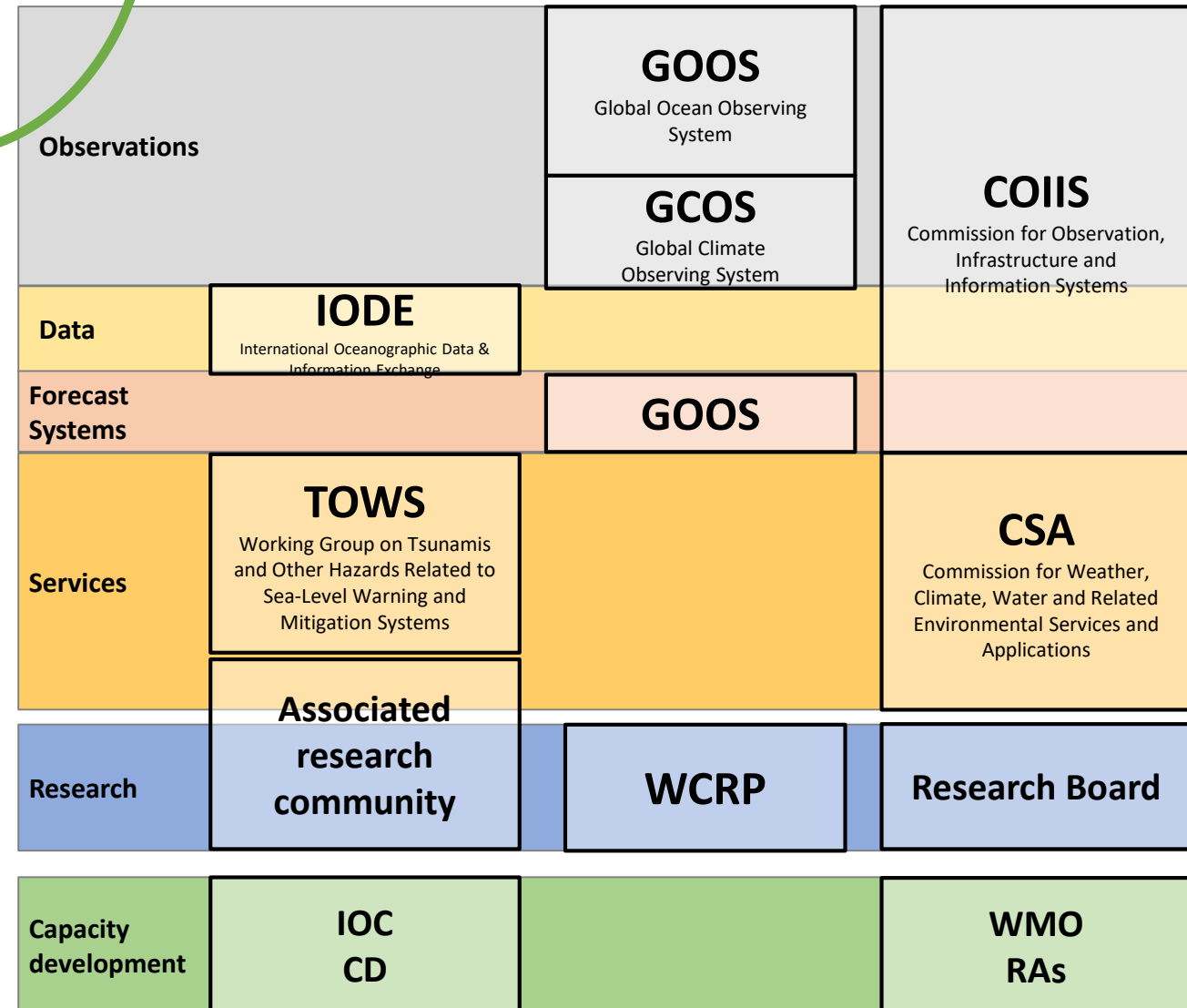
#### Assembly, EC

Assembly and Executive Council

#### Cg, EC

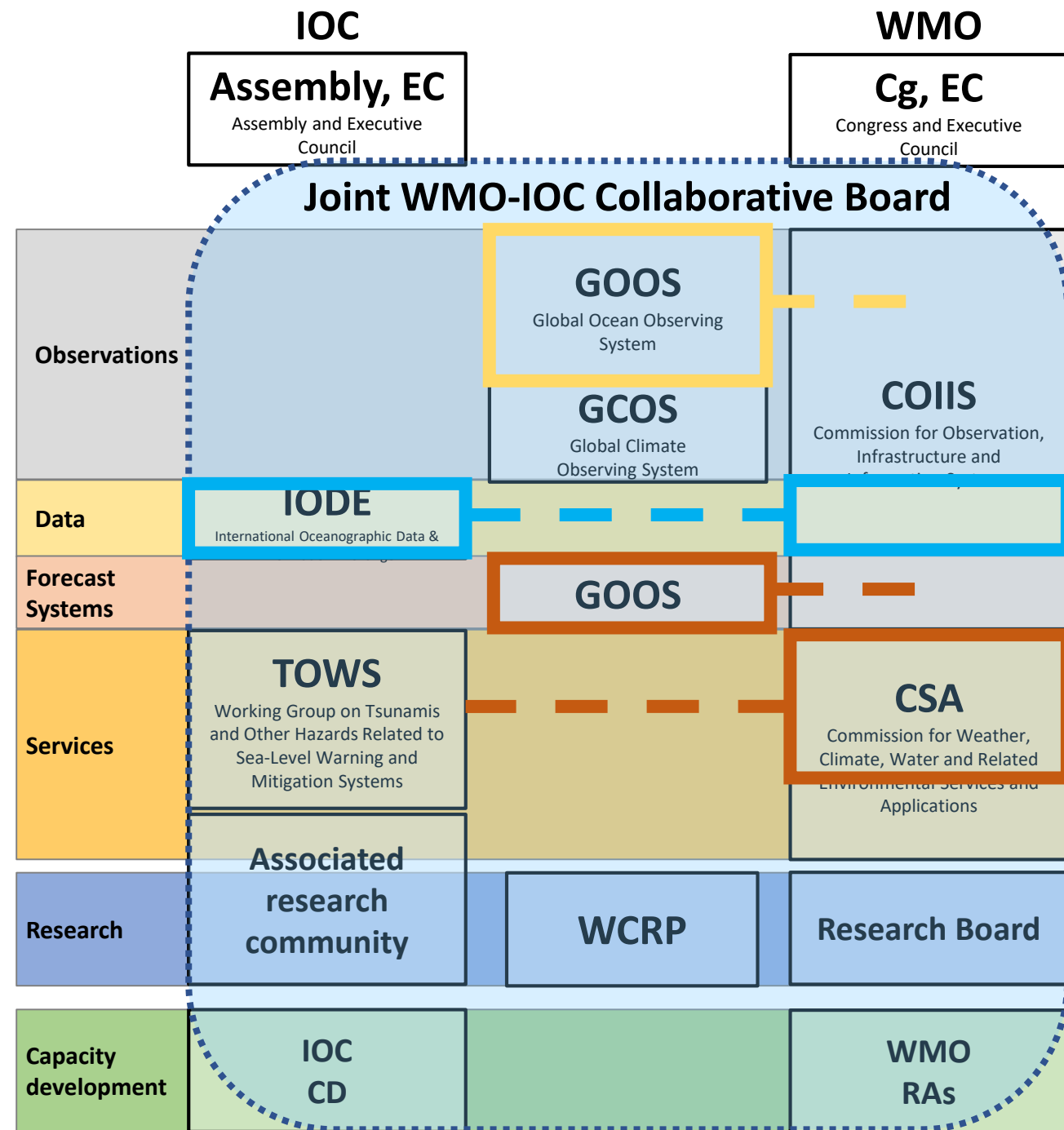
Congress and Executive Council

co-sponsored



# 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**

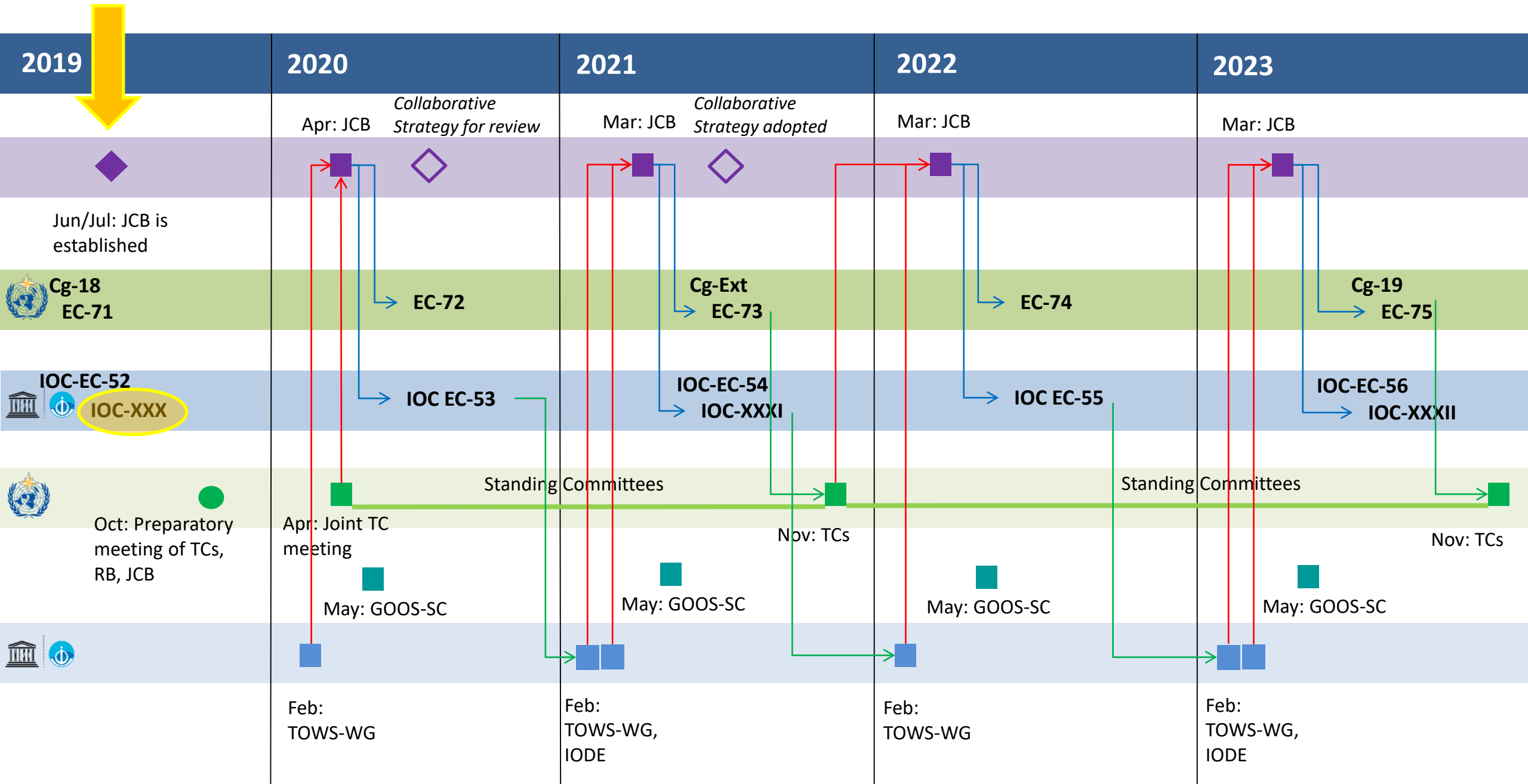
# GOOS Steering Committee

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



# Suggested 2019-2023 timeline of the Joint WMO-IOC Collaborative Board







United Nations  
Educational, Scientific and  
Cultural Organization



Intergovernmental  
Oceanographic  
Commission



Sustainable  
Development  
Goals

*One Planet, One Ocean*