**Data Management/Interoperability**

**HOW** Create Data management WMO/IOC technical WG (ensure cross pollination in existing groups) JCB sub-group/Task Team

**WHEN**

**WHAT** ToRs of WG on Data Management

**WHO** JCB to suggest members from WMO and IOC to the Governing Bodies; WMO (Jeremy Tandy) WMO (Paula Sierra)

**GOALS/KPIs** Implementation plan; WMO/IOC Interoperable Data System for Oceanography and Marine Meteorology

**FEASIBILITY** Very! Build on existing structures

**GOVERNANCE** Integrate with governance of the existing structures

**Why:**

* WIS-ODIS link
* Already happening, but pushing data into – it is an issue
* GTS is going down, WIS 2.0 is replacing

**How?**

* Highlight the importance of the link
* Reporting to JCB is desired
* Timeline needed
* Asking for a presentation to JCB later in 2024
* Marine Climate Data Centers – what to do with senm?
* Setup a committee between technical groups of WMO and IOC
* Ocean Data Conference – Present from WMO (Champika)

**Capacity Development**

**HOW** Use existing frameworks/pathways—possibly a Task Team or group

**WHEN**

**WHAT** Joint Capacity Development

**WHO** 1) Audience—National Agencies-🡪 regional audience (teaching the teachers)

2) content coordinator—global and regional specific agencies in consultation with countries and regional agencies

**GOALS/KPIs** Improve national capacity in Oceanography and Meteorology

**FEASIBILITY** Building on existing structures/links

**GOVERNANCE** Integrate within current structures

1. Joint Met + Ocean training center

* Provide Technical Guidance
* Develop training materials for ocean observations
* Cooperate between WMO Regional Training Centers and IODE Training Centers
* BMKG has both – could be a test case
* India could be another test case
* Caribbean test case

2. IOC has a capacity building group (20-24 October 2024) & WMO has capacity building group

* JCB can remind them to cooperate
* JCB member to be a member of WMO/IOC capacity building groups
* WMO represent a IOC group and vice versa

**Coastal and Maritime Resilience**

**HOW**  Integrate IOC in Early Warnings for All; IOC/WMO collaboration into MHEWS implementation

**WHEN**

**WHAT** Early Warning for All—1) integrate IOC into pillar 2; 2) expansion of EW4All to ALL hazards within the purview of IOC and WMO (i.e. oceanographic; marine biodiversity/ecological)

**WHO** 1) JCB recommendation on IOC involvement

*JCB to identify topics that IOC is already working on with respect to EW4All and recommend these to be integrated withing the framework of EW4All.*

2) Members of communities with Secretariat support (coordination) [i.e. CoastPredict, TOWS, TRRP, SC-MMO]

**GOALS/KPIs** IOC/WMO collaboration; increased visibility of IOC in EW4All

**FEASIBILITY** yes, needs coordination

**GOVERNANCE** Fit into existing structures

* How can JCB help?
* Data/obs
* Modelling with ESM
* Meteotsunami - tsunami warnings
* Already working hard on other aspects
* Note the importance of EEC obs and legal framework in UNCLOS
* Encourage VOS + SOOP through both WMO and IOC
* Obs needed to make coastal forecasts and verify them
* Support and acknowledgement of work happening for marine coastal + marine services RRR
* Important on all timescales, including climate change

**How?** Ask IOC to help/make decision on EW4ALL

**Who?** Allie

**GBON**

**HOW** Convene Ocean modeling community to assess which EOV network (requirement) can significantly improve OFS?

Combine GBON and GOOS somehow on this topic?

**WHEN**

**WHAT** Include sub-surface physical ocean variables (already in WMO data policy) [sea level, open ocean, OA] ETOOFS identifies EOV for model improvements; Mandate for operational ocean prediction

**WHO** Expert Team on Operational Ocean Forecasting System; GPC (WMO); WIPPS (WMO) and WIGOS; WWRP and WCRP, RRR (ETMOR)

**GOALS/KPIs** WMO to approve ETOOFS guidelines (recognize and endorse)

**FEASIBILITY** very complex

**GOVERNANCE** Advice to WIGOS to expand GBON to more EOVs

**Doesn’t have ocean. Things to be added:**

* Sea Level
* Whole ocean profile
* T, S, C

**When?**

* Do some scoping before congress
* October INFCOM MG meeting

**Why?**

* Coordinate more operational
* Density, raising profile
* Cover more of the planet

**How?**

* Involve GOOS in GBON discussion
* Ask INFCOM to act + IOC?

**Questions?** Open ocean/High Seas

**Who?** Toast, Estelle (Michel)

**Overall thoughts:**

* Governance + Advocacy
  + Building trust between communities:
  + Ensuring existing ocean/weather mechanisms/groups are fully engaged advancing each other
  + JCB component reps advocating weather/ocean culture/collaboration
* Engaging private sector
* Building (met/ocean) bridges at the regional and national levels
* Sustainability of observing systems
* Convergence of international policies, best practices of data exchange
* Are there current issues that need to be considered urgently?
  + Advocate need for tsunami/storm surge service integration
  + Advocate narrative of sustainability & efficacy of observing system as critical infrastructure for Social and Sustainable Economic benefit
    - leverage OECD insight
* Ensure mechanisms/groups (ETOOFS, ….) talking across weather / ocean
* How do we ensure that JCB advice is taken into consideration by the various met/ocean entities/groups ?
* Ocean Decade is architecting and advancing the ocean prediction value chain with standards, best practices, mechanisms….
* **Ensuring these are complementary to WMO approaches for a joint earth system approach**.