



<https://eos.org/editors-vox/the-complexity-of-clouds-circulation-and-climate>

AOPC



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1. To maintain and periodically review the list of GCOS Atmospheric ECVs
2. To **liaise with relevant stakeholder bodies** in order to determine and maintain the requirements for data to monitor, understand and predict the dynamical, physical and chemical state of the atmosphere and its interfaces on climate relevant time scales, on both global and regional levels
3. To advocate for the establishment, re-establishment and maintenance of integrated observing systems to **provide long-term, high-quality, consistent data and information** to meet those requirements according GCOS monitoring principles
4. To propose and promote the **establishment of new systems, or enhancements to current systems and practices**, to address identified deficiencies
5. To review the **current state and identify gaps and inadequacies** of the atmospheric component of the global observing system
6. To promote the maintenance of sustainable long-term observation networks and the use of the best practices
7. To promote the rehabilitation of relevant historical data sets



OOPC

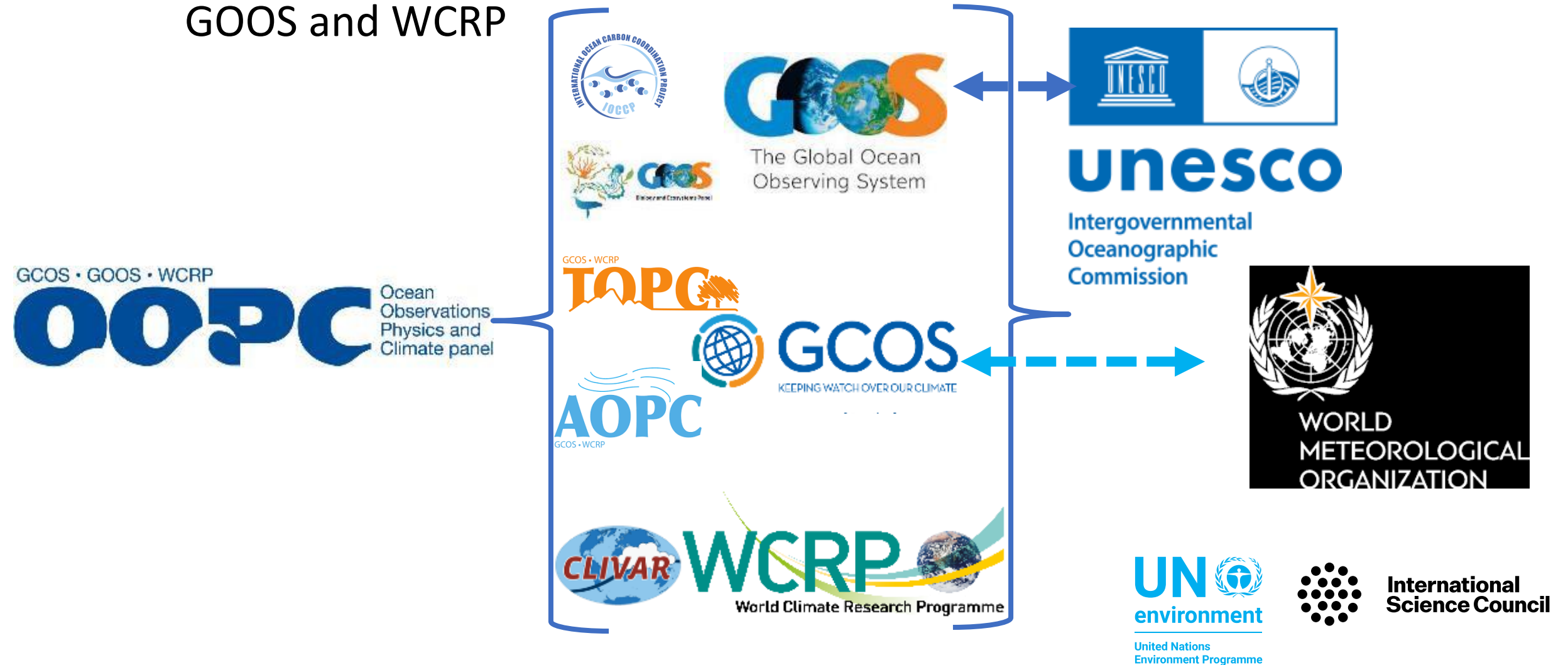
GCOS • GOOS • WCRP

OOPC Ocean
Observations
Physics and
Climate panel



OOPC complex family life

OOPC has multiple connections with other expert panels in GCOS, GOOS and WCRP



OOPC complex family life

OOPC oversees

- the Ocean component of **GCOS** and
- the physical variables for **GOOS**,
- while defining sustained ocean observing requirements for **WCRP**

Support the value chain “observation/data – science/knowledge – service/policy”

Meghan Cronin



Stefan Kern



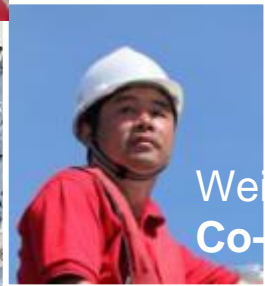
Sabrina Speich
Co-chair



Lijing Cheng



Weidong Yu
Co-chair



Antonio Espejo



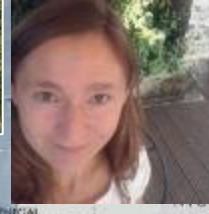
Tony Lee



Hao Zuo



Karina von Schukmann



Katrin Schroeder



Rick Lumpkin



NEW Member
Being recruited



Tammarn Morris

Peter Oke



OOPC duties

- **Assessment of Ocean Observing System to meet user requirements**
 - Global integration of parts (i.e. Basin systems, and topical systems, platforms)
 - Assess, review and prioritize requirements for EOVs and ECVs
 - Identify gaps
 - Promote consistency of EOVs/ECVs across the observing system
- **Coordination/integrate with other organisation and community panels**
- **Review/Evaluation** of the observing system
- **Advocacy** for the Ocean Observing System
- Work with OCG and regional bodies to **coordinate observing networks**



TOPC

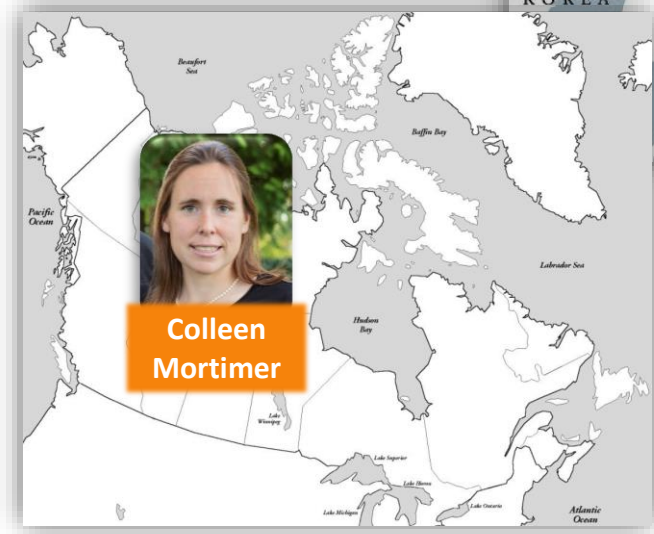
Terrestrial Observation
Panel for Climate

GCOS • WCRP





Should change soon selecting non-European females experts!



- To define and maintain terrestrial ECVs
- To assess and monitor adequacy of terrestrial observing networks
- To advocate for the establishment and maintenance of international climate data centres
- To ensure overall consistency among relevant terrestrial climate observing systems
- To link between data suppliers and users, to ensure that climate data and observations are: of the highest quality based on agreed metrics; collected and archived in accordance with the highest standards of practice; freely accessible
- To publish and update GCOS studies and planning documents
- To instigate the establishment of working groups and other initiatives for pursuing TOPC goals
- By networking and collaborating with relevant research communities, operational organizations, data users, and other stakeholders
- By linking with other GCOS panels, WCRP and GCOS sponsors
- By responding to assignments from the GCOS Steering Committee

Hydrosphere



Cryosphere



Biosphere



Anthroposphere





TOPC THANKS!