

From Global to Coastal: Cultivating New Solutions and Partnerships
for An Enhanced Ocean Observing System

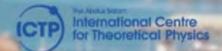
in A Decade of Accelerating Change



15th-17th August 2022 Trieste, Italy & Online







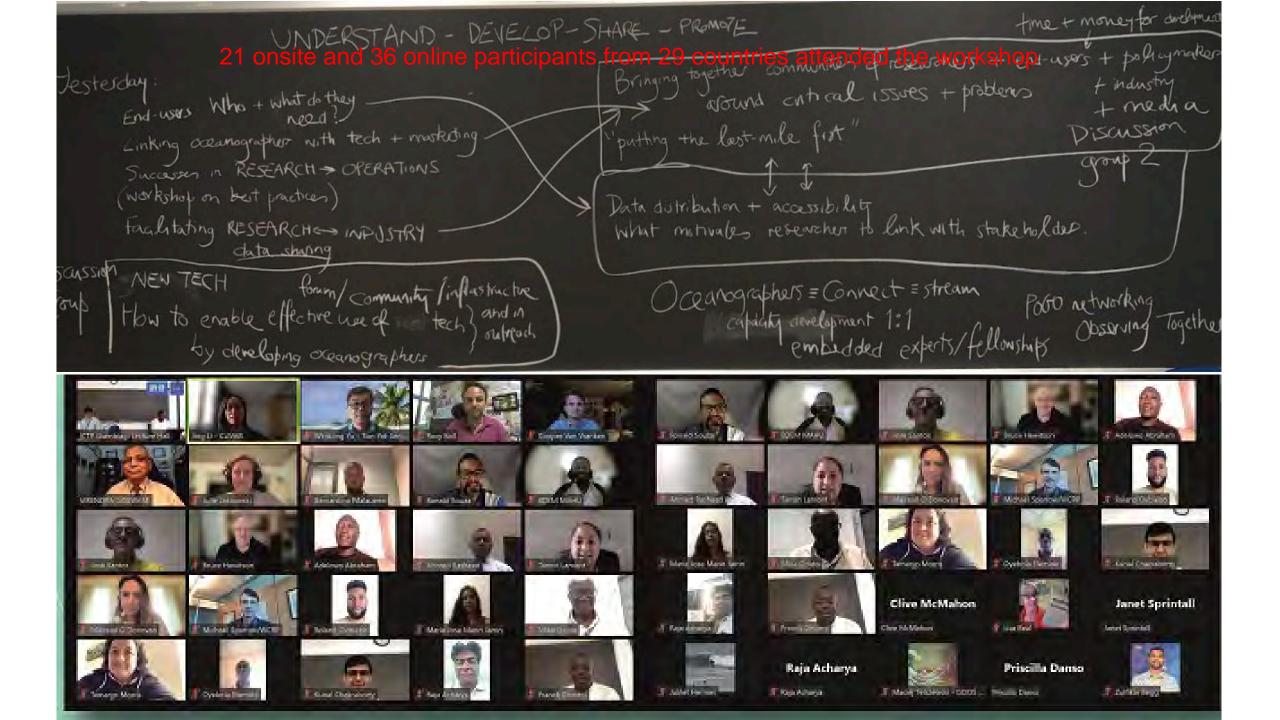




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Workshop Agenda: https://www.clivar.org/clivar-goos-workshop-agenda

Day 1: Ocean Observing Systems and the way forward

09:00 - 09:25 Opening session: Welcome from our sponsors and Aspirations for the Workshop (Chair: Lisa Beal)

- Vladimir Ryabinin (IOC-UNESCO, virtual) (Recording)
- Sonya Legg (CLIVAR SSG Co-chairs, virtual) (Slides | Recording)
- Welcome remarks from local host (Riccardo Farneti, ICTP, in-person) and organizing committee co-chairs (Edem Mahu/Weidong Yu, virtual) (Recording)

09:25 - 10:10 Plenary: Global and Regional Ocean Observing Systems (Chair: Riccardo Farneti - in person; Co-chair: Weidong Yu - Online)

Global and regional context

- Global Ocean Observing Co-design (Sabrina Speich, in-person) 15 mins (Slides | Recording)
- Indian Ocean Observing System (Juliet Hermes, in-person) 10 mins (Slides | Recording)
- TPOS Tropical Pacific Observing System (Sophie Cravatte, virtual) 10 mins (Slides | Recording)
- TAOS Tropical Atlantic Observing System (Regina Rodrigues, virtual) 10 mins (Slides | Recording)

10:10 -10:30 Coffee break (10 mins)

10:30 - 12:00 Plenary: Rim-Nation and Small Island State Perspectives (8 mins each + 2 mins questions * 8=80 mins) (Chair: Kim Juniper; Co-chair: Weidong Yu)

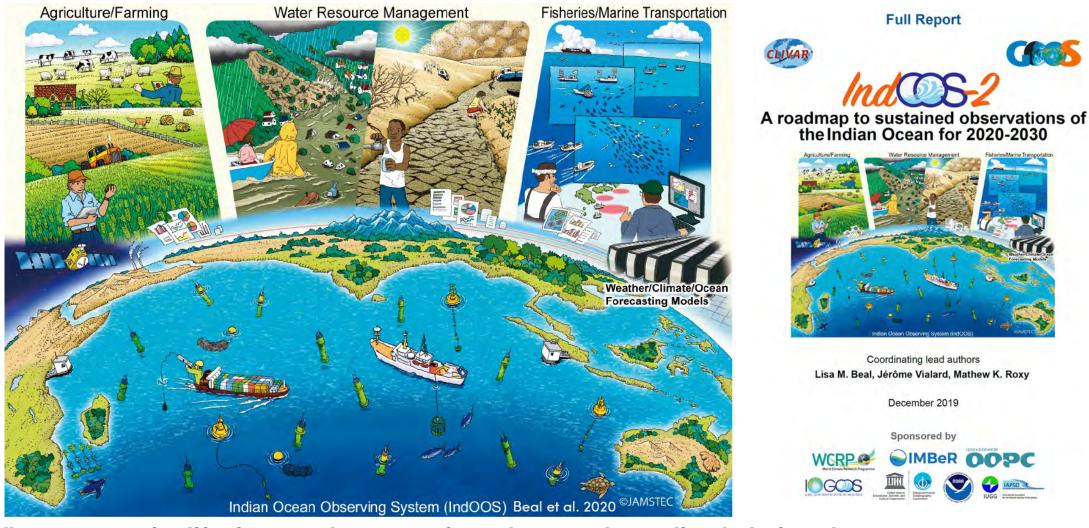
From Open Ocean to Coast

- Western Indian Ocean Mika Odido (IOC coordinator Africa, in-person) (Slides | Recording)
- Eastern Indian Ocean Nelly Florida (Indonesia, BMKG, in-person) (Slides | Recording)
- Northern Indian Ocean Ahmed Rasheed (Maldives Weather department, virtual) (Slides | Recording)
- Western Pacific Ocean Aileen Tan (Malaysia, in-person) (Slides | Recording)
- Eastern Pacific Ocean Jonathan Cedeño (ERFEN, virtual) (Slides | Recording)
- Eastern Atlantic Ocean Kwasi Appeaning Addo (Ghana, virtual) (Slides | Recording)
- Southwestern Atlantic Ocean: Leticia Cotrim Da Cunha (Brazil, in-person) (Slides | Recording)
- SIDs-Pacific Island Country Zulfikar Begg (Fiji, in-person) (Slides | Recording)
- Q & A session -10 mins

Group Discussion on thematical topics:

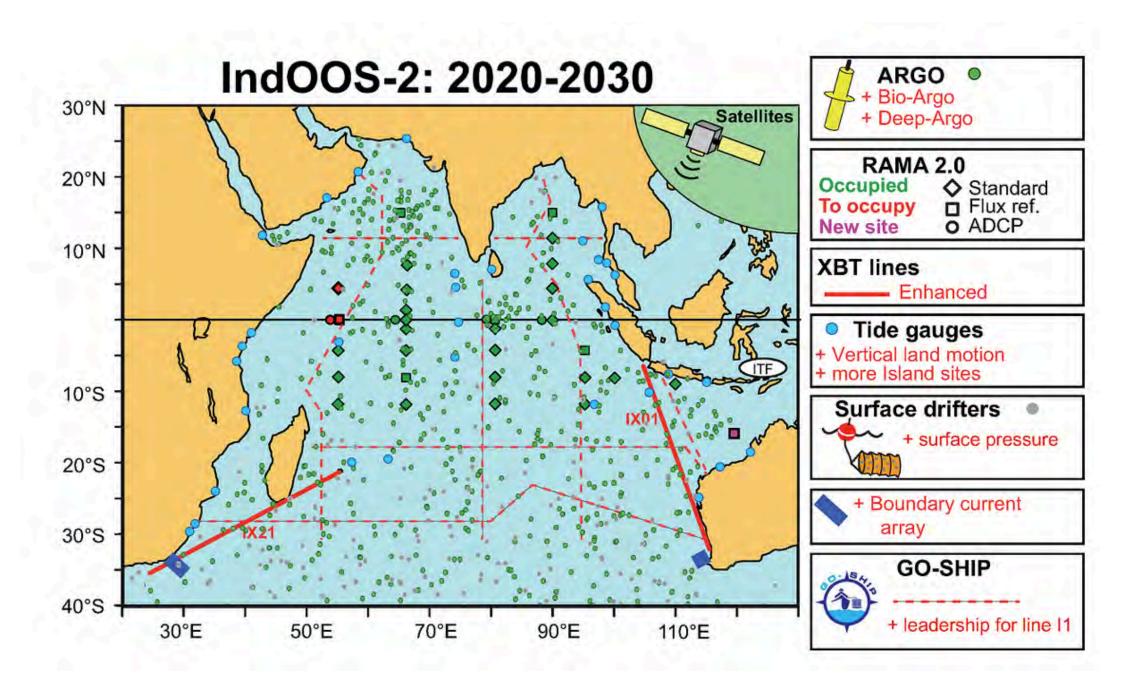
1. oceanographers' connection; 2. new technologies; 3. co-design stakeholders

Why do we monitor and forecast these changes?



What counts in life is not the mere fact that we have lived. It is what difference we have made to the lives of others that will determine the significance of the life we lead, Mandela

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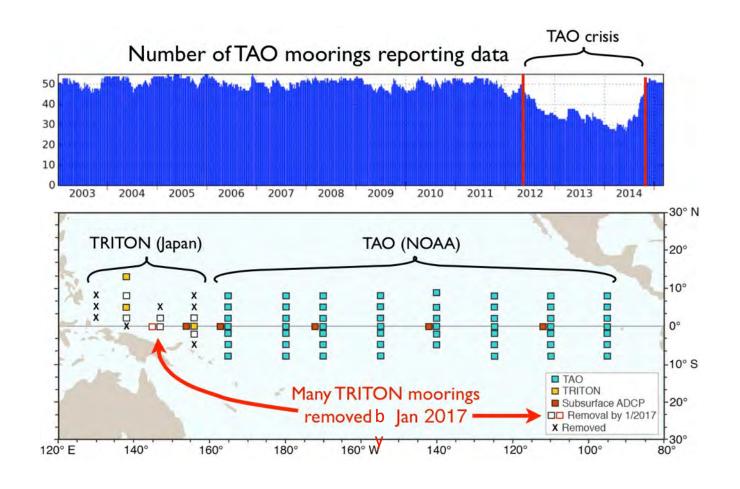




Sophie Cravatte IRD, New Caledonia



TPOS2020 began in a crisis (2014)





The crisis showed the risk to ENSO prediction.

TPOS2020 started:

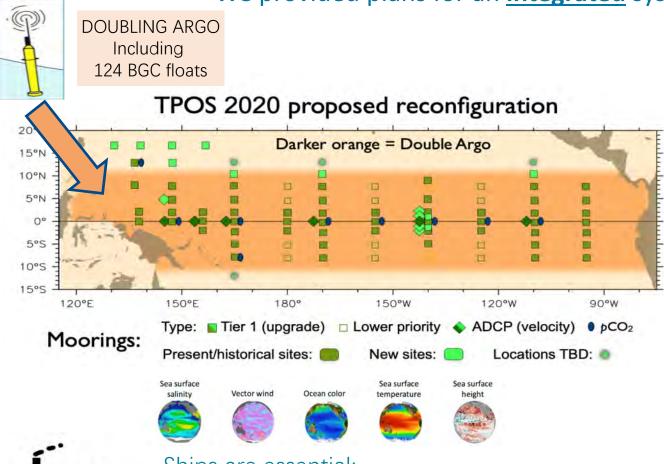
to build a more modern, robust and resilient system, meeting the needs of research and forecasting systems, considering:

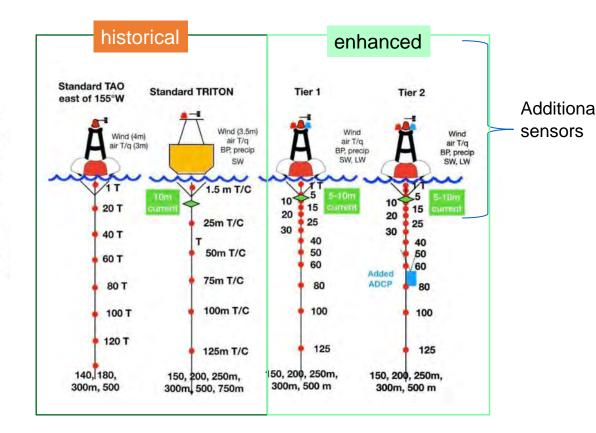
- New technical possibilities
- New scientific issues
- New model and DA developments



TPOS2020 recommendations for the Backbone

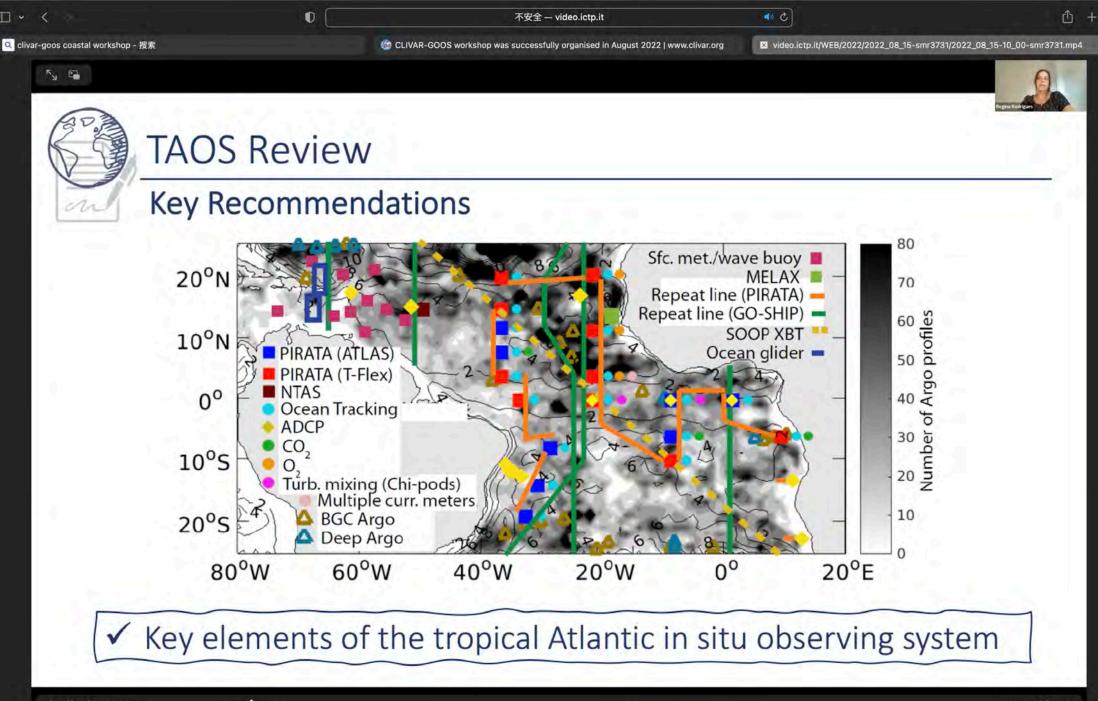
We provided plans for an **integrated** system responding to multiple needs



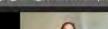


Ships are essential:

- BGC suite along moorings servicing lines
- Underway pCO₂









TAOS Review

Final Considerations



Biggest success, transition to a vision of an integrated fit-for-purpose TAOS

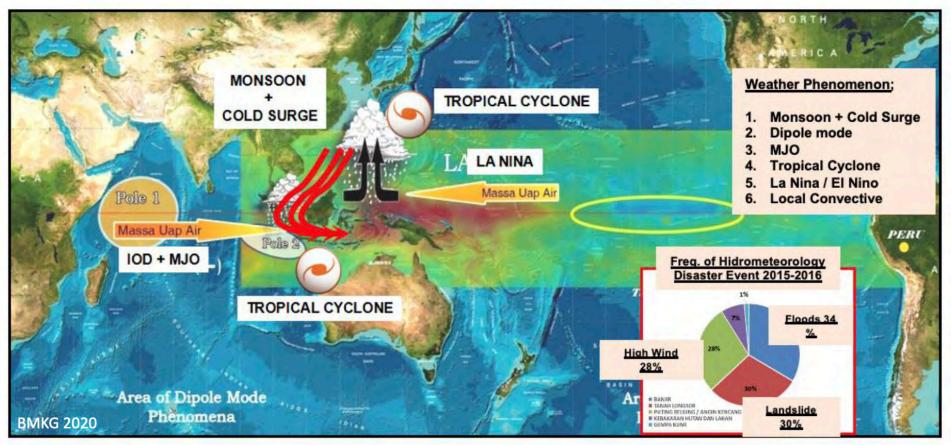


Least success, stakeholder engagement and the integration of the EOVs/ECVs requirements



Progress can be made toward an multi-purpose TAOS, but we need to be realistic and define priorities!

COMPLEXITY OF ATMOSPHERIC-OCEANIC









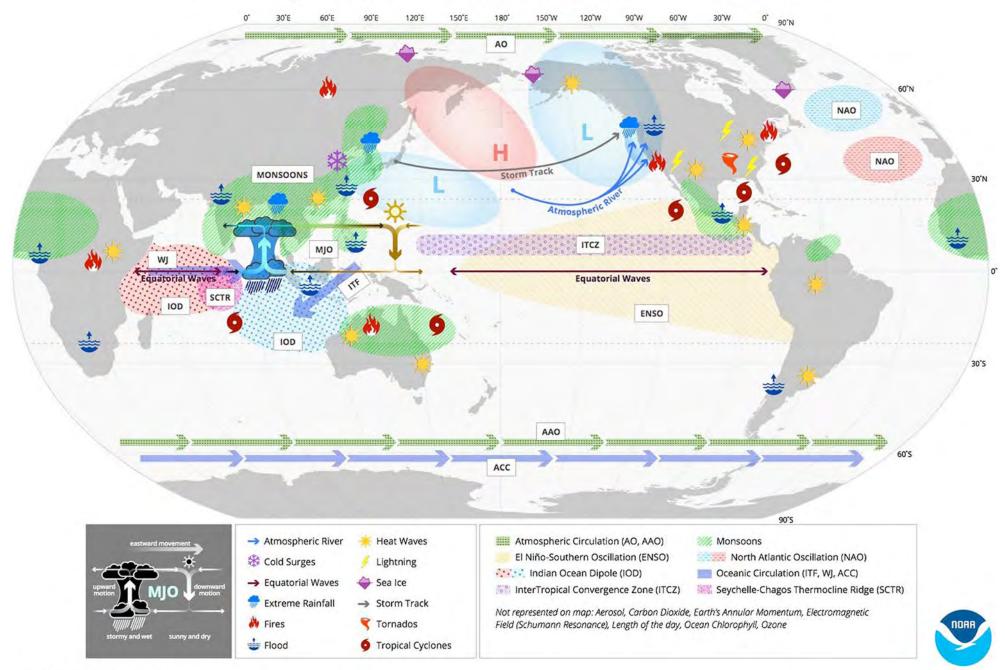








MADDEN-JULIAN OSCILLATION (MJO): GLOBAL IMPACTS





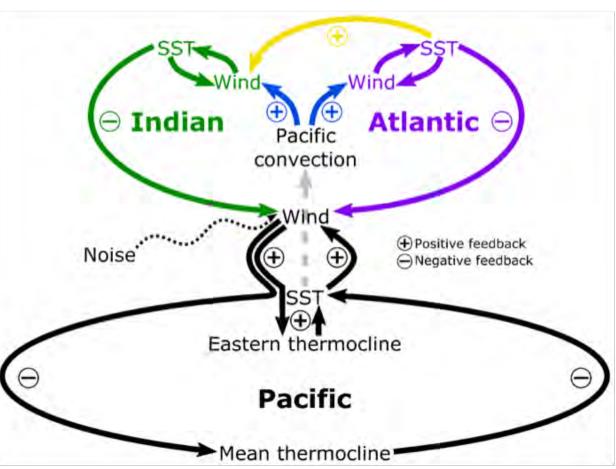
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CLIVAR Exchanges

Special Issue: WCRP-CLIVAR Workshop on Climate Interactions among the Tropical Basins



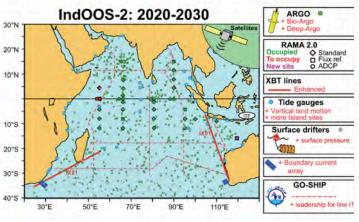


CLIVAR/IOC-GOOS Indian Ocean Region Panel

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Pacific Region Panel

About Us





Individually we are a drop, together we are a fit-for-purpose ocean observing system

CLIVAR/CliC/SCAR Southern Ocean Region Panel

About Us



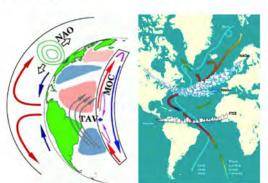
CLIVAR /CliC Northern Oceans Region P Atlantic Region Panel

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Proposal to debate:

Tropical ocean observing systems are evolving into a very good shape to explore the idea as the protocol of real one integrated tropical ocean observing system, based on the experience from IndOOS, TPOS and TAOS?