

lobal Ocean Observing System

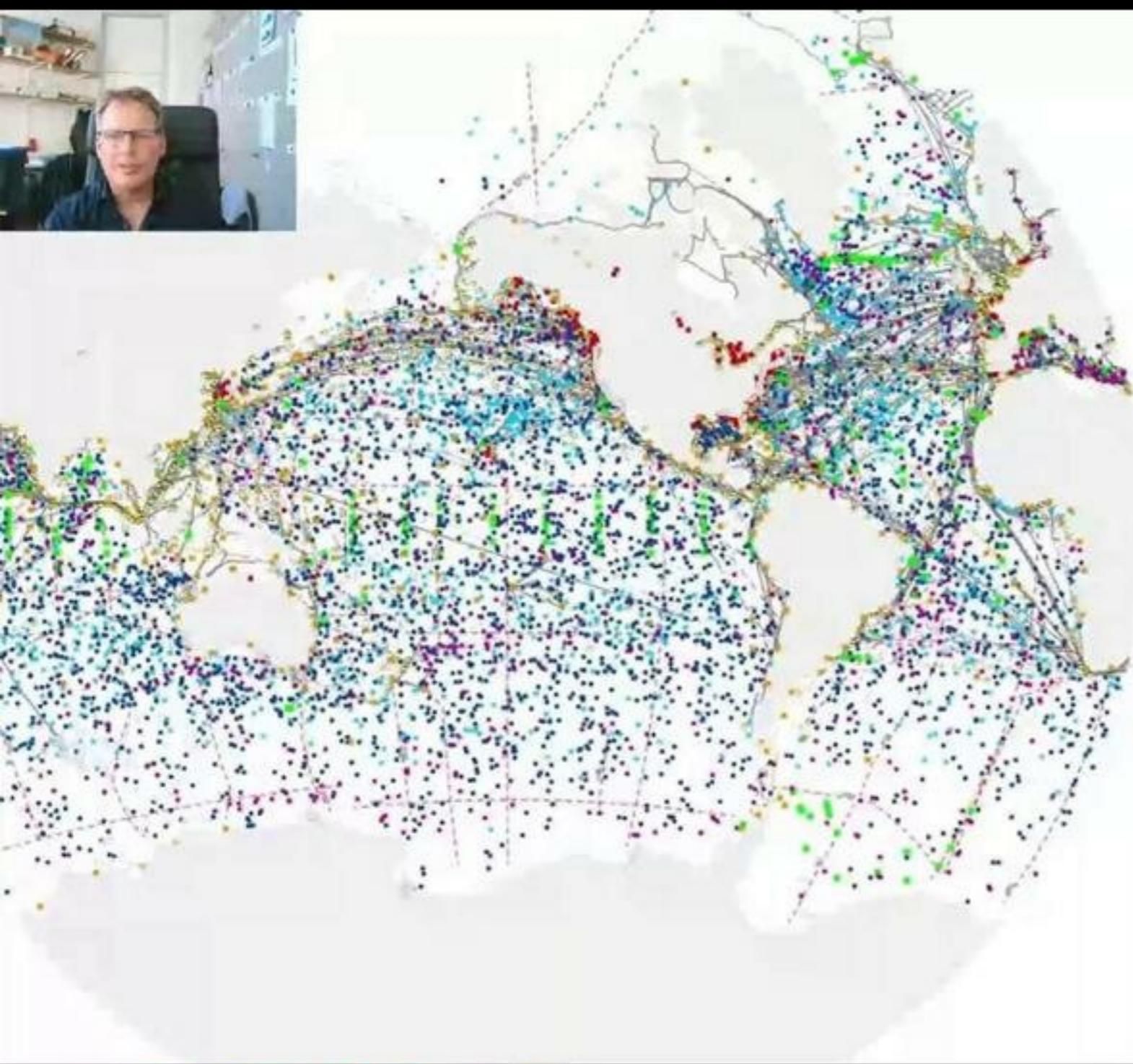
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The Global Ocean Observing System -GOOS

CLIVAR IORP POGO Regional training workshop on observing
the coastal and marginal seas in the western Indian Ocean

June 7, 2022

Toste Tanhua, GOOS co-chair



Global Ocean Observing System today

- 86 countries, 8000+ observing platforms, 12 global networks
- Ocean and marine meteorological EOVs and ECVs
- Mature networks such as Argo, VOS, and DBCP drifting and moored buoys, and emerging networks such as OceanGliders and AniBOS

"The weather forecasting systems will run off the rails if they don't have the surface pressure information over the ocean to constrain them"

- Lars Peter Riishojgaard, Director of the Earth System Branch WMO



Global Ocean Observing System

Steering Committee

Scientific oversight

Expert Panels

Physics



Biogeochemistry



Biology and Ecosystems



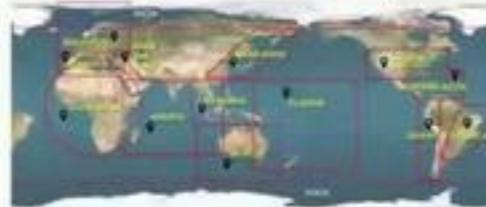
Observation coordination

Global observing networks and platforms



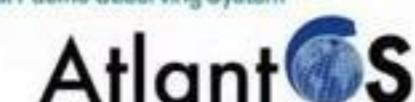
Regional and National organizations

GOOS Regional Alliances (GRAs)



Project development

Improving through innovation and renovation



Major delivery areas

1. **Climate:** climate change modeling, warming, acidification
2. **Real time services:** weather forecasts and early warning for ocean related hazards, maritime economy
3. **Ocean health:** productivity, species diversity and resilience

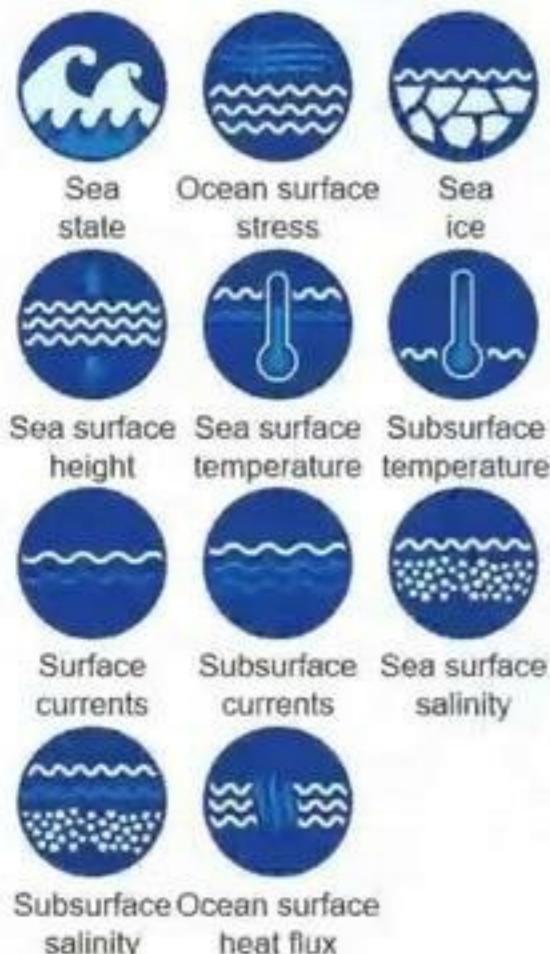
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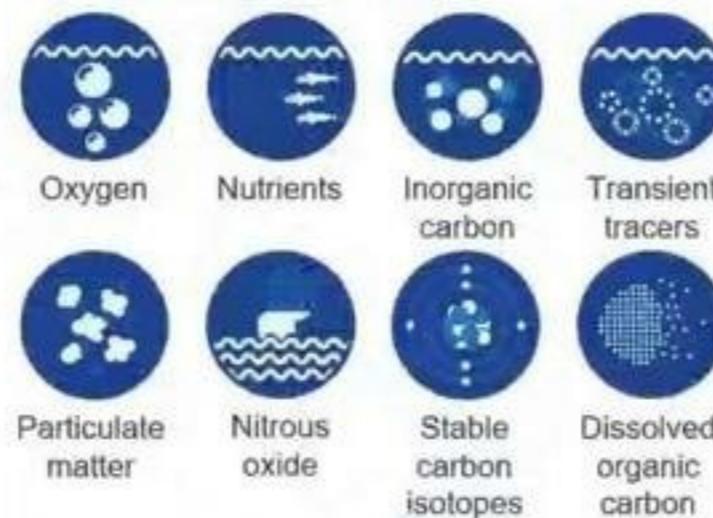


Essential Ocean Variables (EOVs)

Physics



Biogeochemistry



Biology & ecosystems



Cross-disciplinary





The GOOS 2030 Strategy

Vision

A truly global ocean observing system that delivers the essential information needed for our sustainable development, safety, wellbeing and prosperity

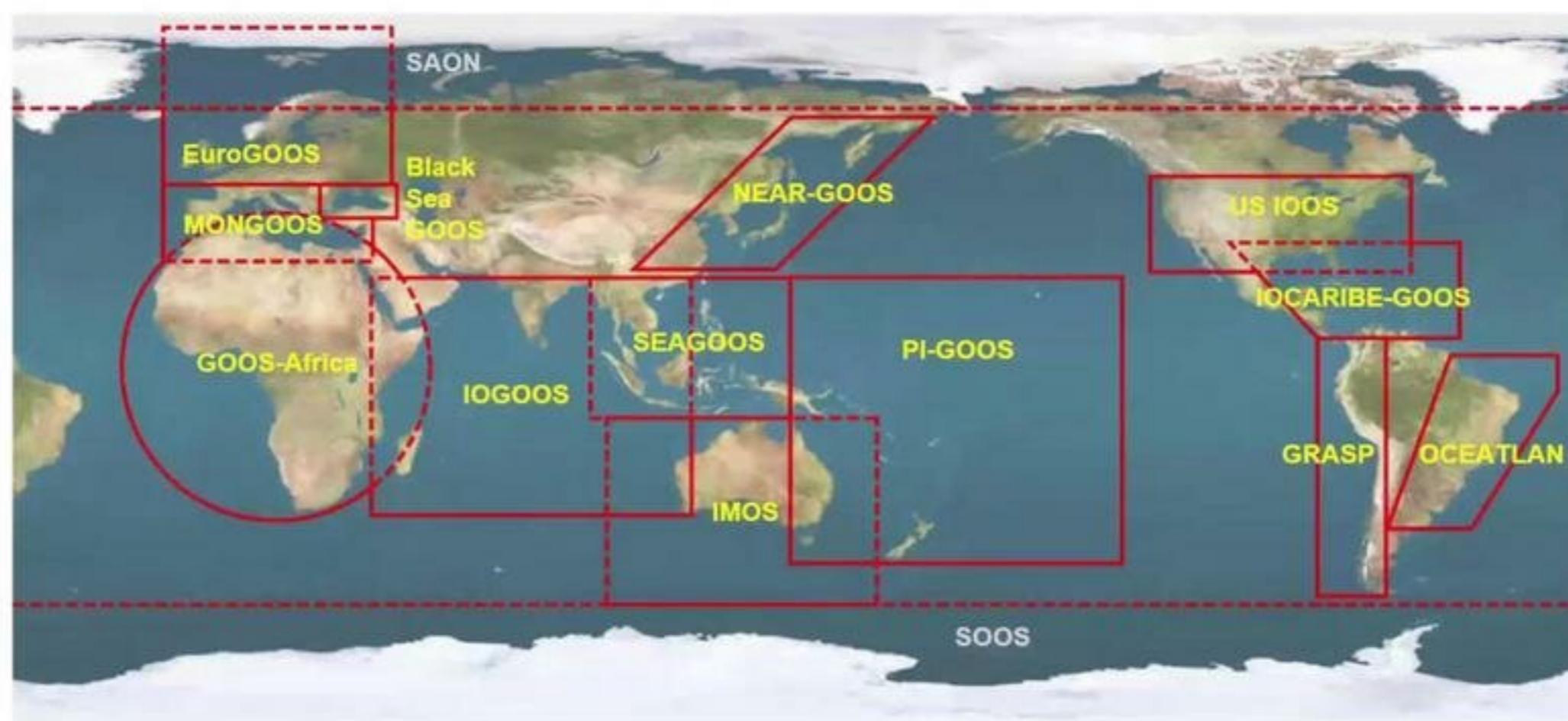
Mission

To lead the ocean observing community and create the partnerships to grow an integrated, responsive and sustained observing system



goosocean.org/2030strategy

Regional Alliances, and collaborating regional observing systems – One mechanism for regional implementation of GOOS





The Global Ocean Observing System

Thank you

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