

IOCARIBE -  GOOS



unesco

Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

INTERNATIONAL MARINE SCIENCE CONFERENCE ON IOCARIBE GOOS

JOHN CORTINAS, PHD

DIRECTOR, NOAA ATLANTIC OCEANOGRAPHIC
AND METEOROLOGICAL LABORATORY

VICE - CHAIR, IOCARIBE - GOOS

Ocean Observations



Why are Ocean Observations Important?



Study and
Understand
Ocean Currents



Improve Weather
& Climate
Forecasts



Observe and
Detect Climate
Change



Support the
Blue
Economy



Monitor Ocean
Acidification &
Water Quality

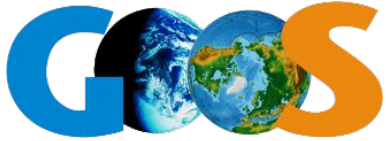


Validation for
Satellite
Observations

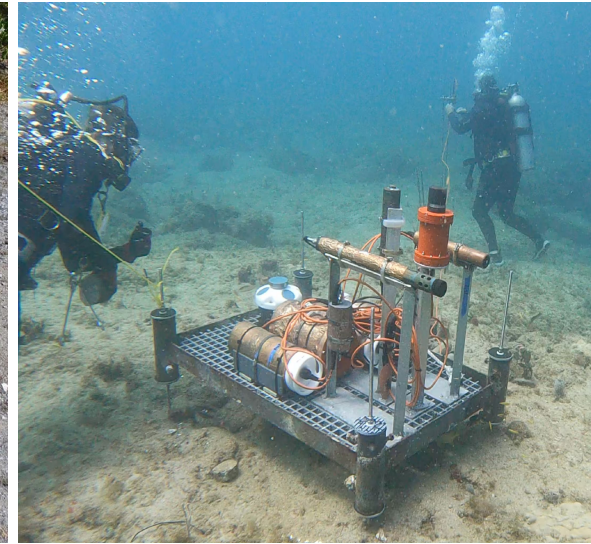


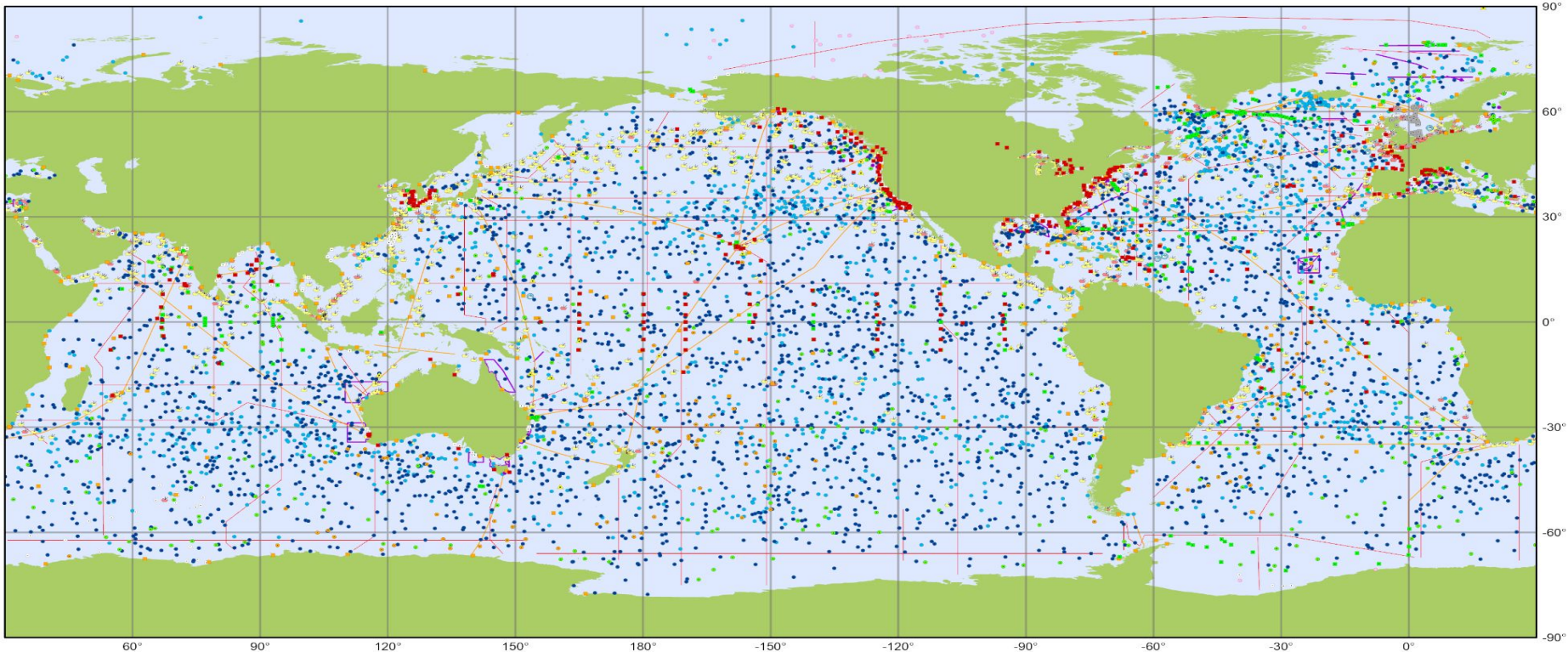
Improve Safety
and
Protection

Global Ocean Observing System



Vision: By 2030, we will have a truly global ocean observing system that delivers the essential information needed for our sustainable development, safety, wellbeing and prosperity.





Global ocean observing system

May 2021

In situ operational platforms monitored by OceanOPS

Mobile systems

- Core floats - Argo
- Deep floats - Argo
- Biogeochemistry floats - Argo
- Underwater gliders - OceanGliders
- Drifting buoys - DBCP

Fixed systems

- Polar buoys - DBCP
- Animal borne sensors
- ▲ Tsunameters - DBCP
- Offshore platforms - DBCP
- Moored buoys - DBCP

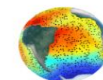
Ship based measurements

- Ocean reference stations - OceanSITES
- Sea level gauges - GLOSS
- High Frequency radars
- Manned weather stations - SOT/VOS
- Automated weather stations - SOT/VOS

- Radiosondes - SOT/ASAP

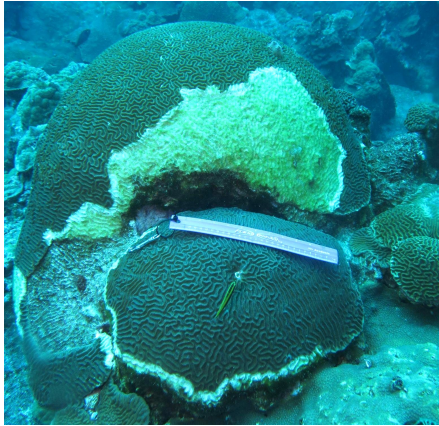
Reference lines and areas

- Repeat hydrography - GO-SHIP
- eXpendable BathyThermographs - SOT/SOOP
- Sampled sites - OceanGliders



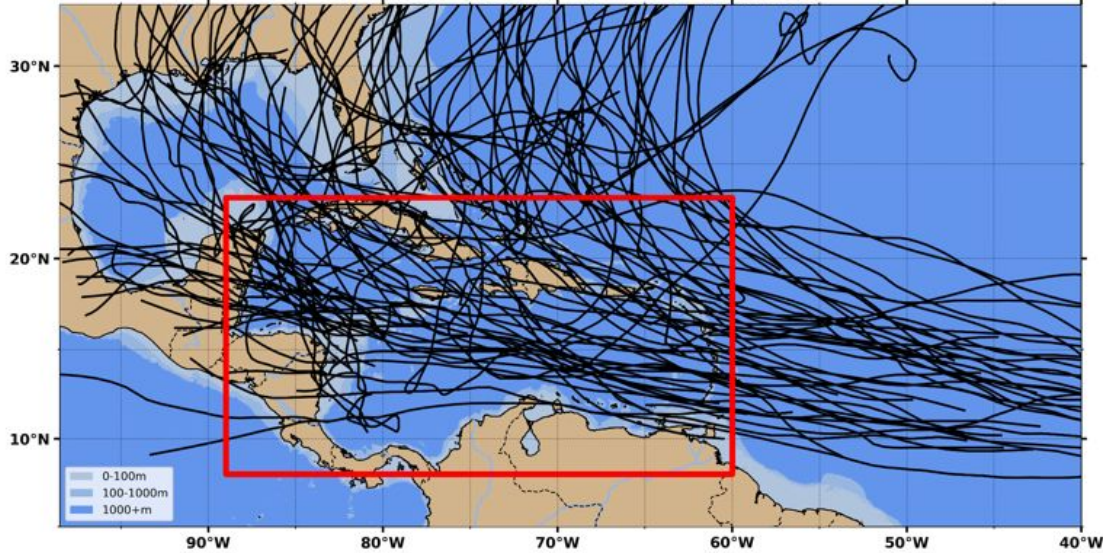
Tropical Atlantic & Caribbean

Climate change, weather, marine resources, energy, tourism, marine spatial planning

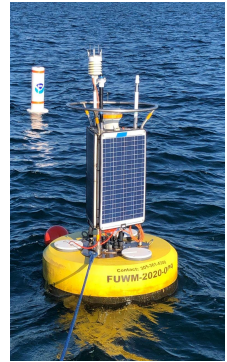
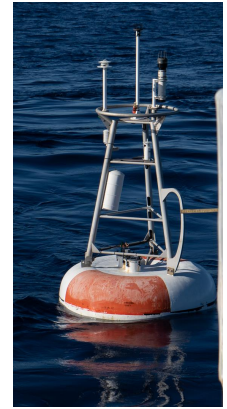
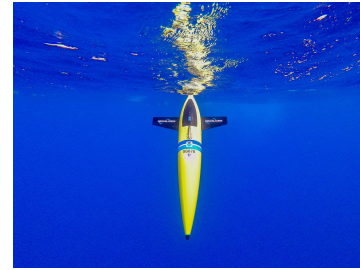
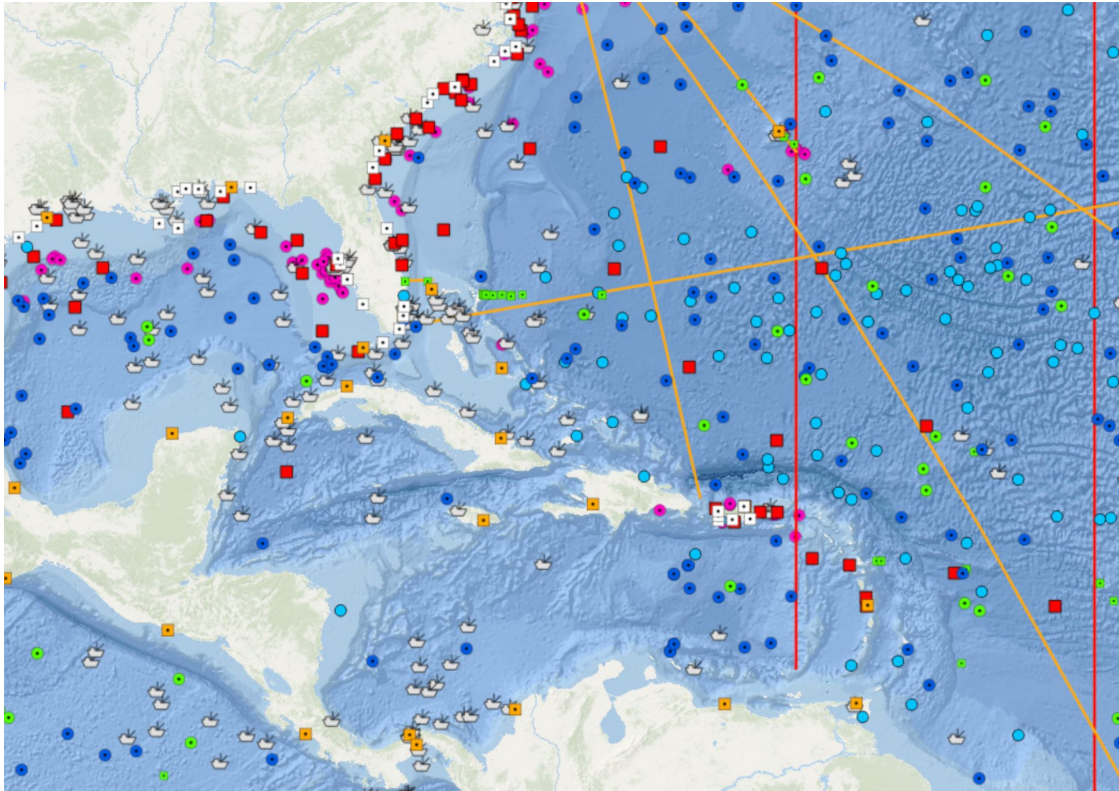


Tropical Atlantic & Caribbean

Caribbean - 2000 to 2022 - 99 Hurricanes



Current Observations



Today's Meeting

- 09:00 - 10:00 **Introductions & Opening Remarks**
- 10:00 - 10:45 **GOOS Program Overview & Regional Alliances**
- 11:00 - 12:00 **IOCARIBE Programs and Decade Actions in the TAC Region**
- 13:00 - 15:00 **Leveraging regional and international networks and furthering engagement**
- 15:30 - 16:45 **Open Discussion and Recommendations for the 17th Session of IOCARIBE**
- 16:45 - 17:00 **Closing**

Meeting Outcomes

- Raise awareness of the importance of ocean obs in the TAC
- Recommend governance
- Identify way forward





Thank you
Muchas gracias
Merci beaucoup

John Cortinas
john.cortinas@noaa.gov