BOON: A BOUNDARY OCEAN OBSERVING NETWORK

Current BOON is 81 lines and areas. Global coverage target is 100 sustained observing lines and areas by 2030.

- Sea Surface Temperature
- Subsurface Temperature
- Sea Surface Salinity
- Subsurface Salinity
- Oxygen
- Surface currents
- Subsurface currents
- Nutrients
- Particulate matter
- Dissolved Organic carbon
- Phytoplankton biomass & diversity
- Zooplankton biomass & diversity
- Fish abundance & distribution
- Ocean Color
- Ocean Sound

*Essential Ocean Variables
A KEY EMERGING GLOBAL NETWORK FOR OCEAN BOUNDARY MONITORING

Why ocean boundaries?
- Society feels the effects of ocean variability through boundaries
- Ecosystems are highly impacted by human activities in these zones
- Extreme weather and marine events affect billions of people who live and work near the coast
- Boundaries have high economic value for coastal communities

Why gliders & boundaries?
- Gliders connect the coast and open ocean
- Gliders capture physical, biogeochemical and biological variability
- Gliders sample across high gradients, along swift currents and in extreme weather conditions
- Gliders effectively integrate with other ocean boundary monitoring systems and ocean models

Next Steps
- Highlight the need for a sustained glider network
- Work to develop monitoring capability in under sampled areas
- Link to forecasting systems
- Develop regional products

OceanGiders: our task teams aim to enhance the global ocean observing system*
- **Boundary Current** - Sustained glider observations in the ocean boundaries
- **Storms** - Increase extreme weather forecast with unique ocean observations
- **Water Transformation** - Monitor shelf/open sea water formations & variability
- **Ocean Health & Ecosystems** - Observe variability, change and stress in habitats
- **Data Management** - Harmonise globally and support implementation
- **Best Practices** - Support efficiency, harmonisation and capacity development

*JCOMM Observation Coordination Group (OCG) adopted OceanGiders as an ‘emerging’ network in 2016.

Can we help you develop new glider lines?
contact@oceangliders.org