Objective: suggestions for themes and projects for upcoming proposal

**Climate Research and Impacts**
- Empirical measures from multiple platforms for ocean turnover, air-sea coupling, circulation model validation

**Ocean and Coastal Observations**
- Technology development for interdisciplinary studies
- Increase monitoring of coastal zone

**Environmental Chemistry**
- Climate predictions and validations across scales: S2S to climate (decadal), historical/paleo climate to forecasts
- Impacts and understanding of climate changes

**Seafloor Processes**
- Interaction of solid earth and ocean
- Impacts of vents and seeps on chemistry and communities

**Marine Ecosystems**
- Expand scope and improve model predictions with move to ecosystem predictions
- Impacts and understanding of climate changes

**Tsunami Observations and Modeling**
- Tsunami forecast models and impacts on environments and communities

**Protection and Restoration of Marine Resources**
- Ecosystem-based fisheries management
- Impacts of mineral and energy extraction