

OceanSITES

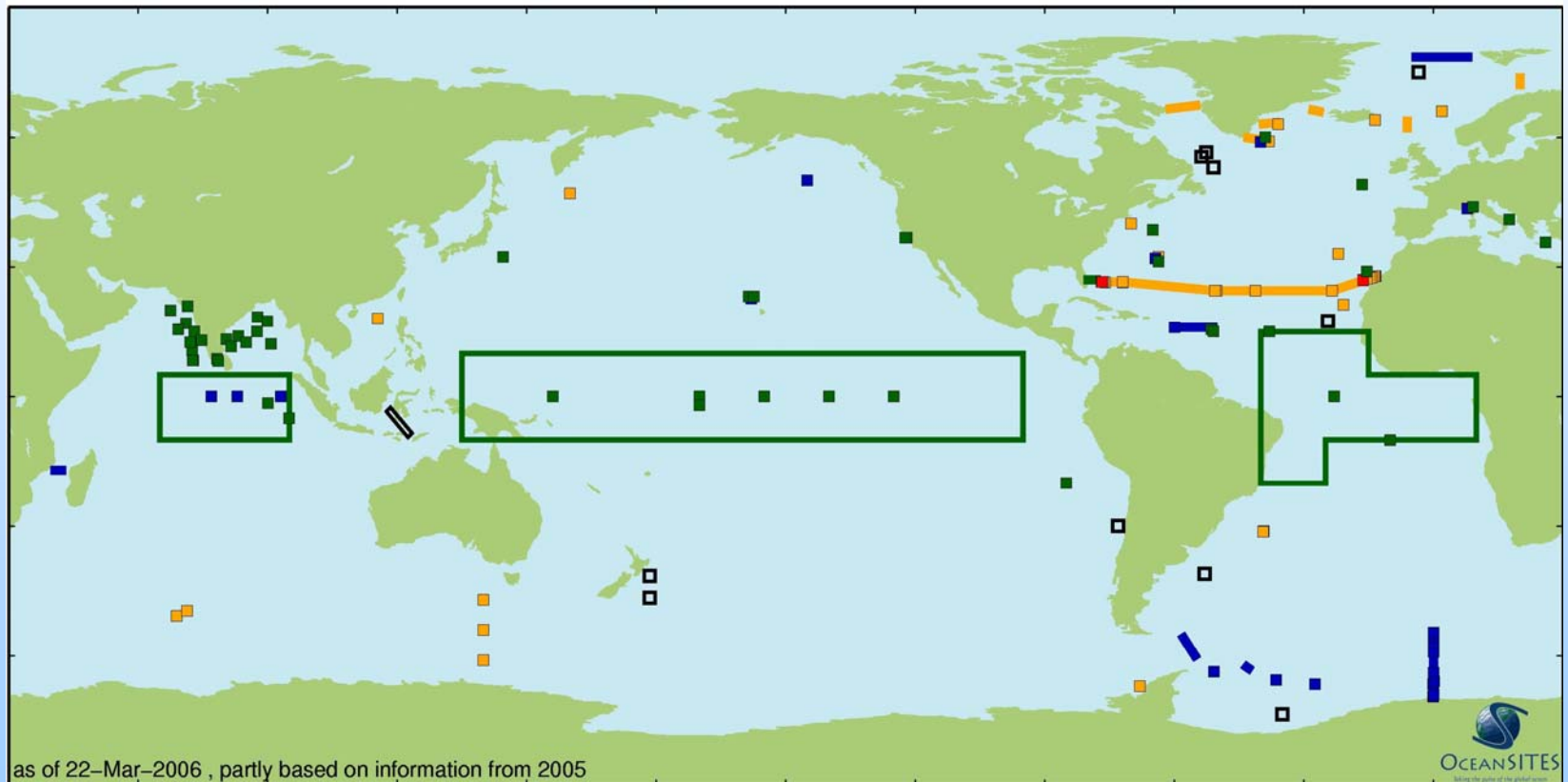
Taking the pulse of the global ocean



Continuous measurements from
the deep ocean in real time

Status and Developments

No update on system status due to lack of manpower... system probably similar

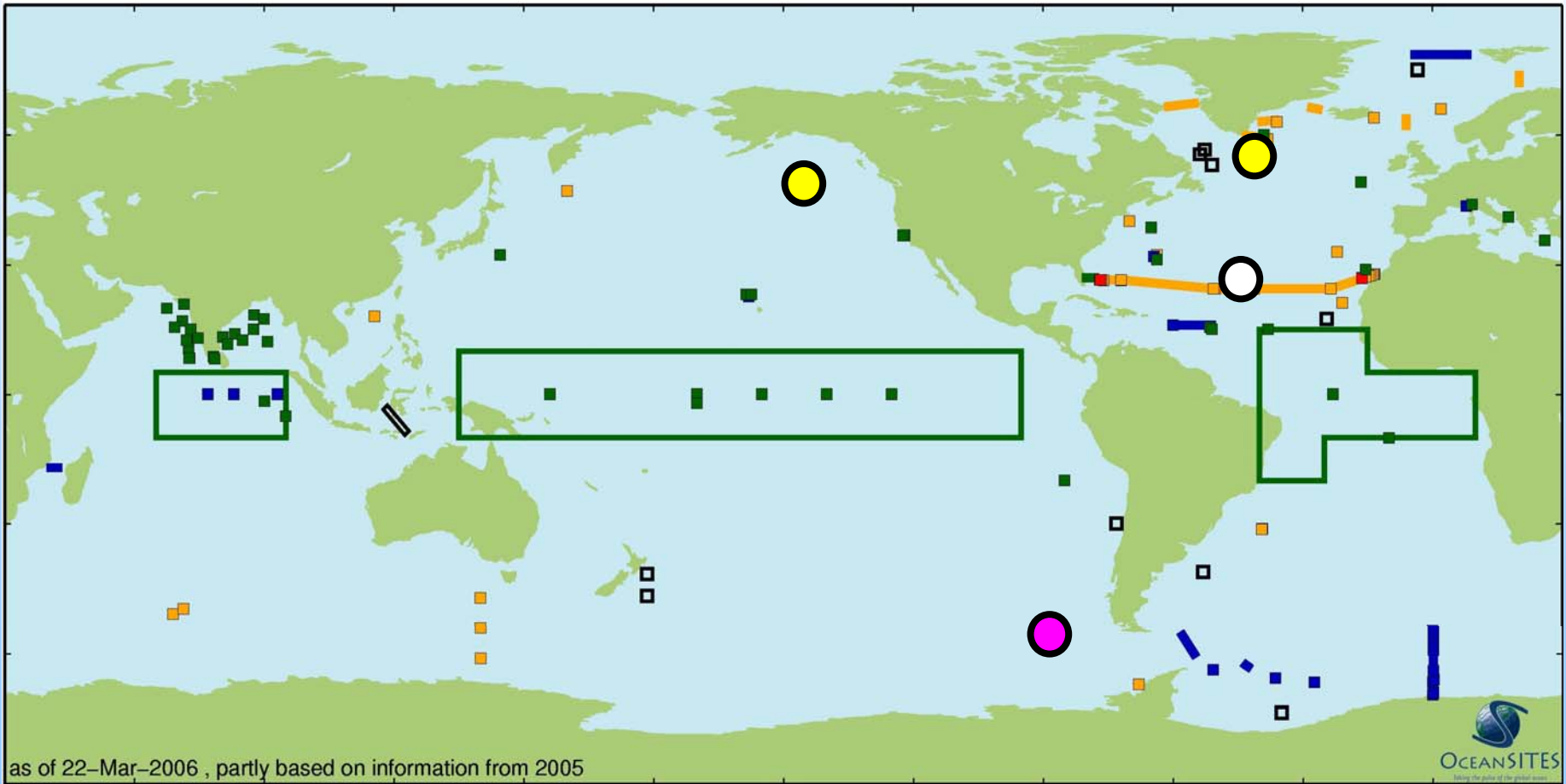


all data public

- | | |
|---|---|
| ■ partially realtime, data available | ■ delayed mode only, data available |
| ■ partially realtime, data not yet available | ■ delayed mode only, data not yet available |
| TAO / TRITON, PIRATA, Indian Ocean Array | data policy to be determined |

Some larger efforts being planned:

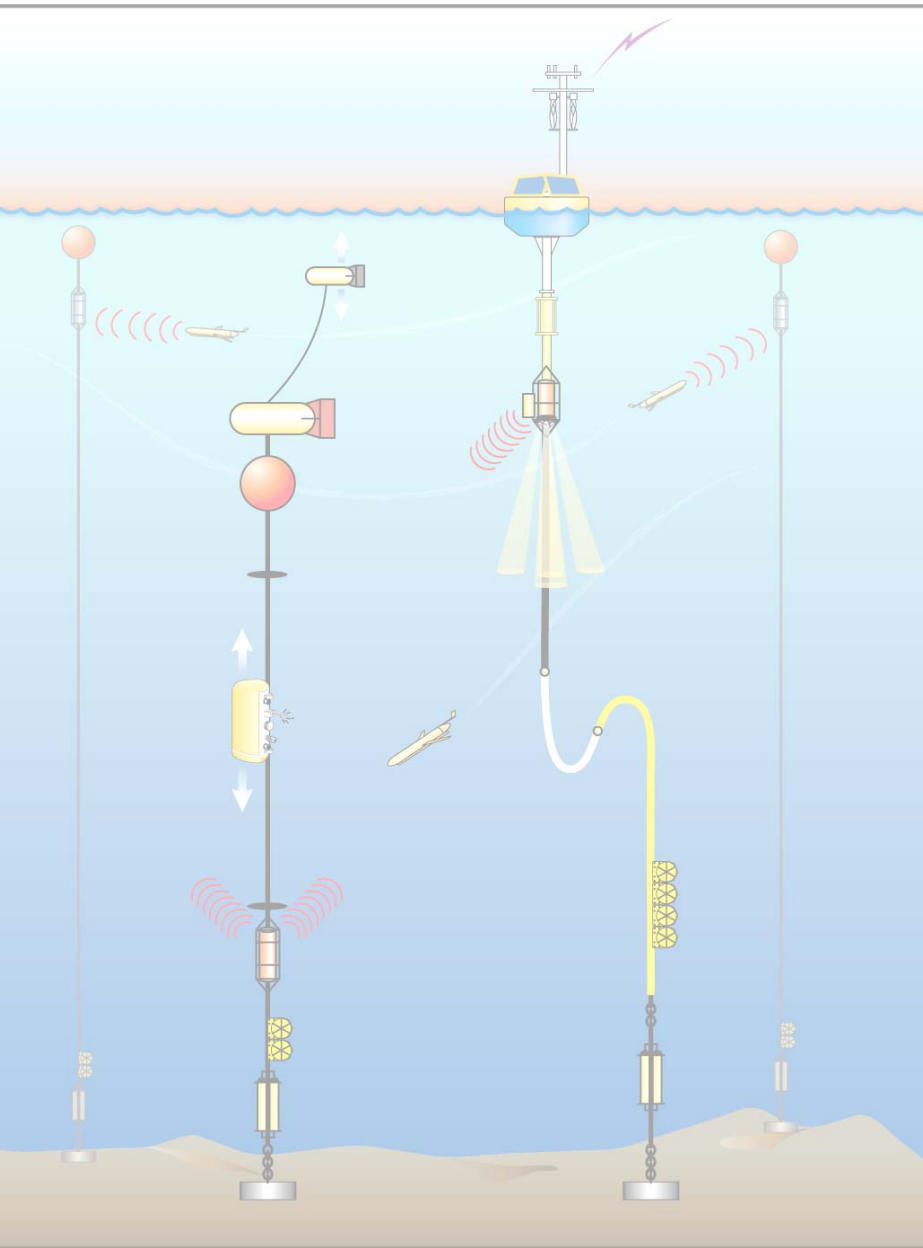
US/NSF funded ORION program....
currently 4 global sites being considered



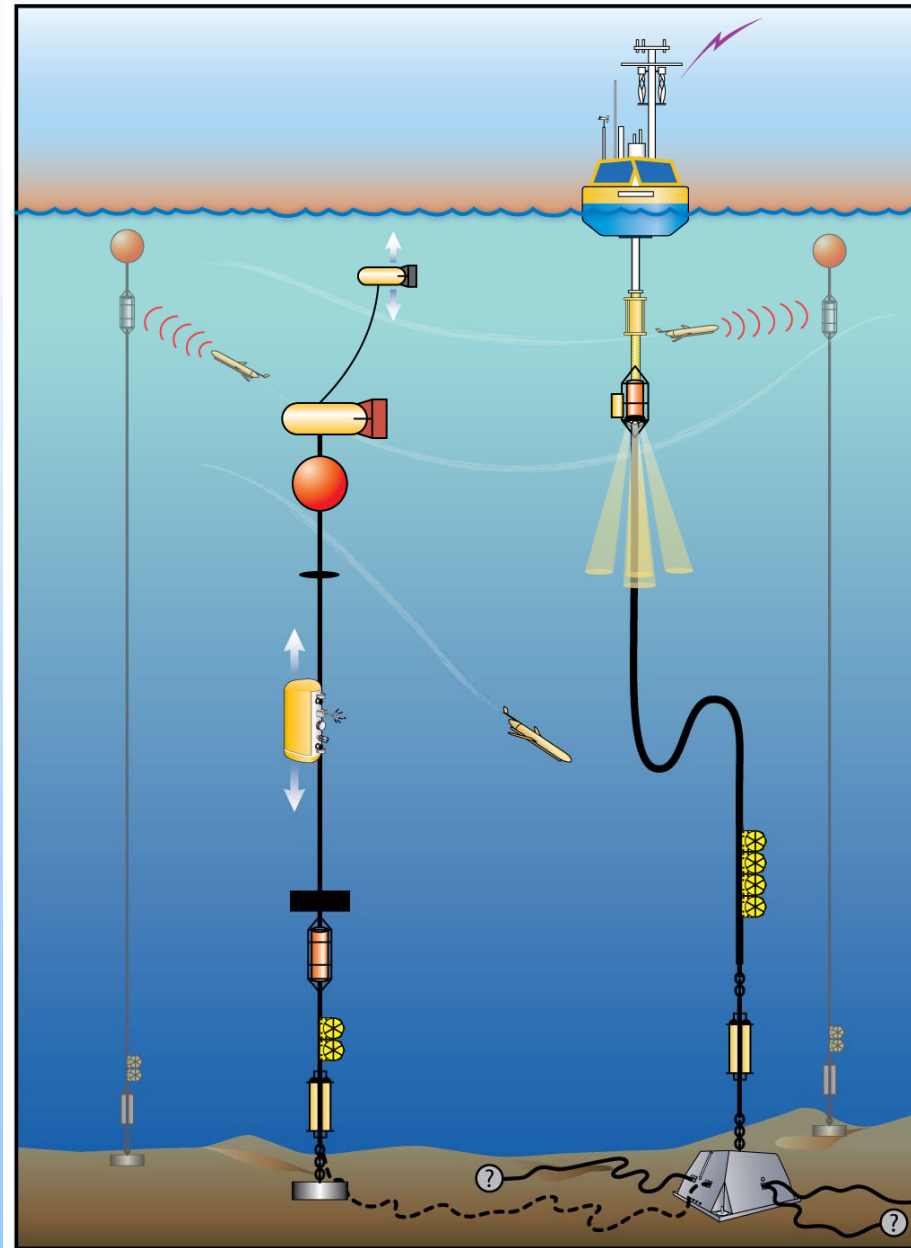
as of 22-Mar-2006 , partly based on information from 2005

Ambitious infrastructure at each site, all INTERACTIVE...

Acoustic/inductive subsurface communication, battery powered



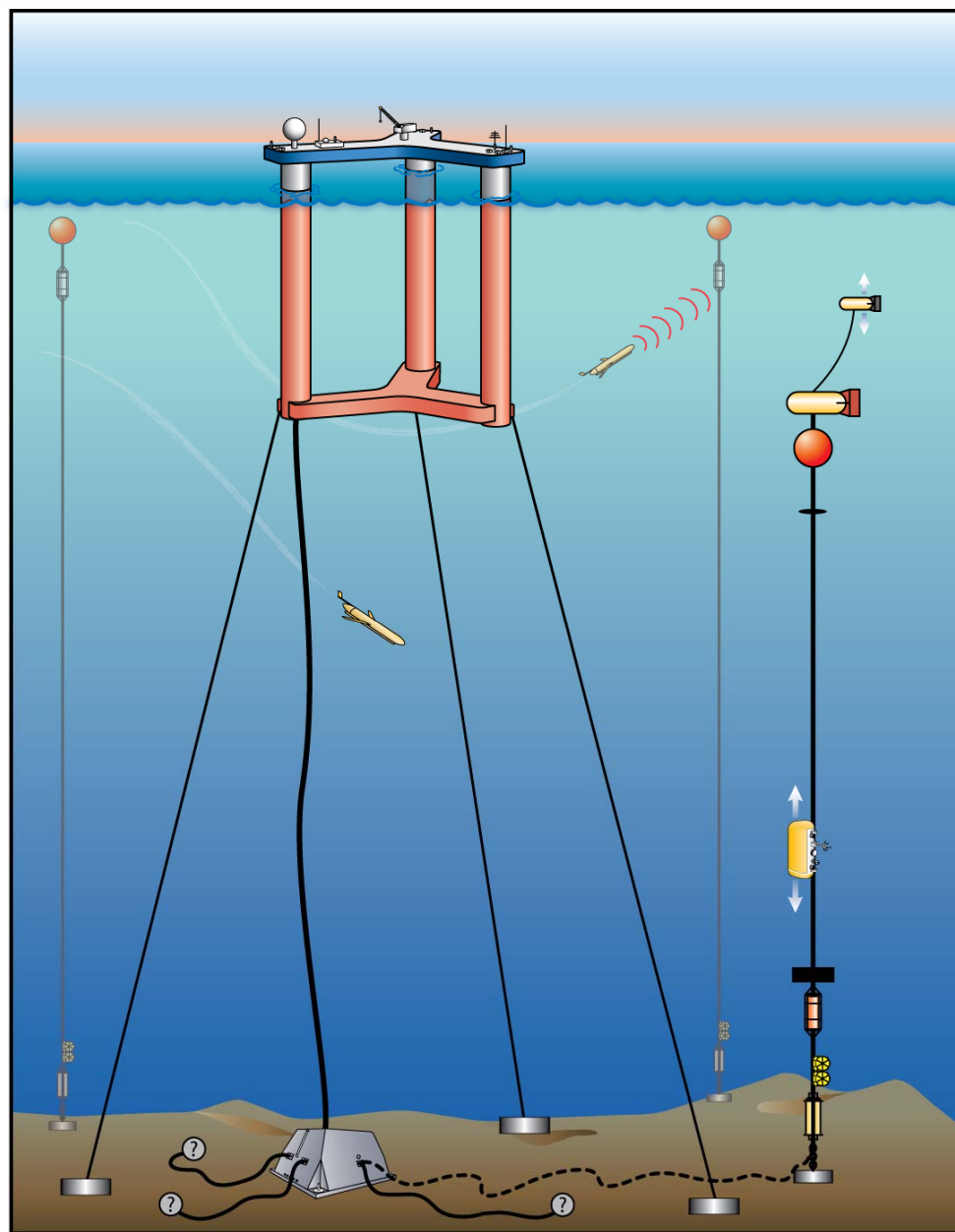
Electro-optical-mechanical cable to seafloor, Delivering power and high data rate...



ORION mid-Atlantic Ridge site:

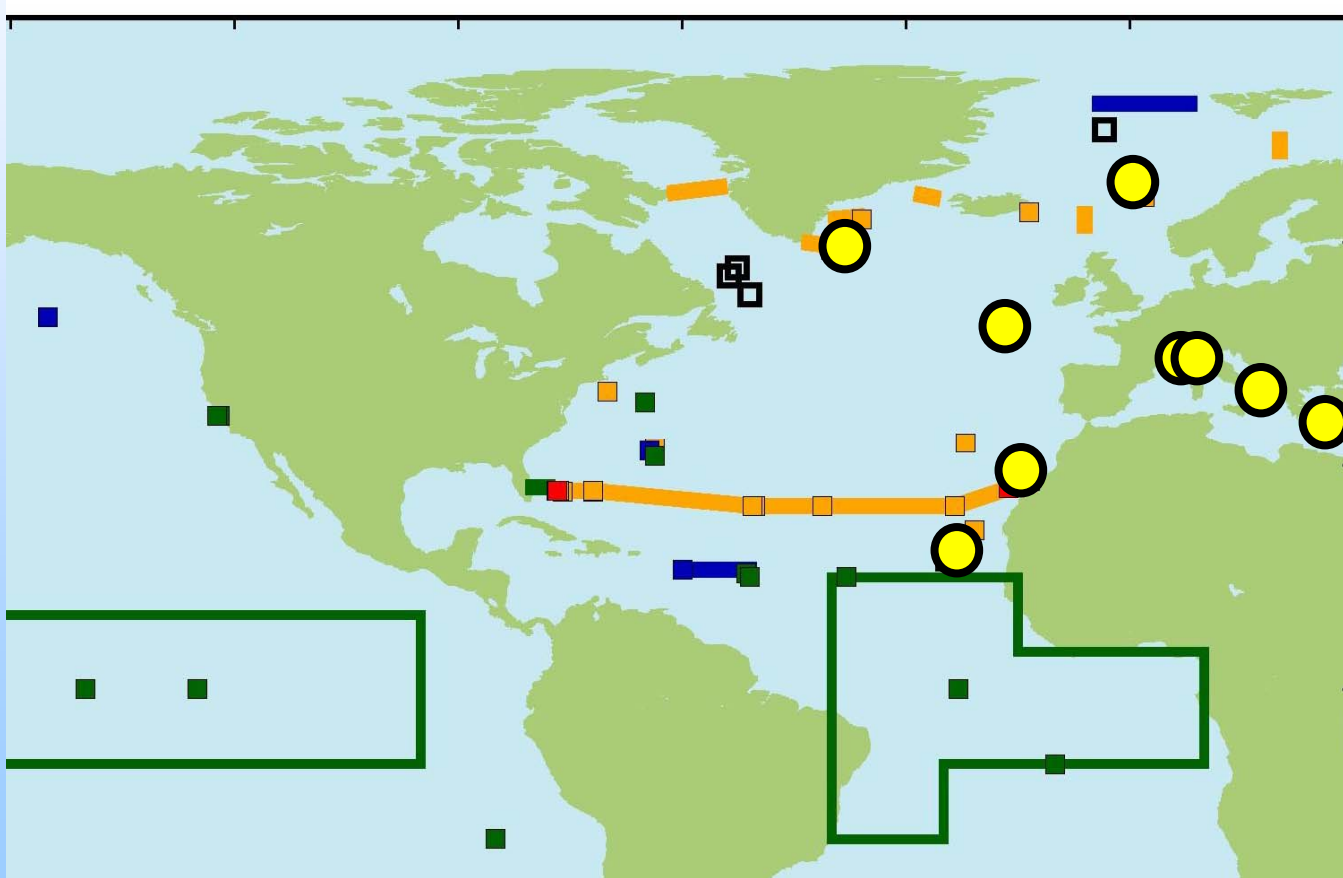
- Large 3-legged SPAR buoy planned
- kW power and Gigabaud to seafloor
- advanced atmospheric measurements
- borehole geophysical sensors

Platform donated from oil industry
(scaled-down model), 8Mio\$ value



EuroSITES initiative (nearly funded)

will integrate 11 existing timeseries, coordinate the technology, operation, data management, and exploitation



Various other new developments:

- Indonesian Throughflow now operationally supported by NOAA (4 sites)
- Indian Ocean mooring network growing
- PAPA mooring installed now
- Boundary Current methodology being built (CORC, see science talk)
- some locations are in trouble (e.g. Bermuda BTM)
- enhanced interaction with wave and carbon community under way (e.g. jointly sponsored IOCCP/OceanSITES biogeochemical timeseries workshop next year)

Data Management

- **Format was established and being tested with some sites**
- **FTP site exists at Coriolis, still in test-mode**
- **Real-time data “exist” in OceanSITES format for KEO, enhanced TAO/PIRATA buoys, ANIMATE system**
- **Delayed-mode data “exist” for MOVE, hydrographic BATS and HOT data**
- **expected soon: WHOI moorings, IfM Kiel Labrador sea mooring, Mediterranean sites**

Issues / Management

- **A project office and management support is critically needed. Discussions are under way to explore whether JCOMMOPS can step in.**
- **For *data management*, Coriolis needs a GDAC partner in the US. Project office needs to chase after data suppliers.**
- **system is very heterogeneous, have to strive for more comparable “observatories” to be able to really merge the data as a SYSTEM**
- **Cooperation with DART network ?**

