

# Rolling Deck to Repository (R2R) Program

Mission:

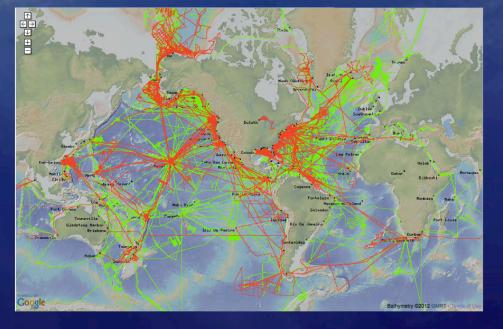
Stewardship of routinely-acquired environmental sensor data +documentation from U.S. academic research fleet

### Funding:

**NSF Ocean+Polar Divisions** 

### Services:

- Publish master cruise catalog
- Organize, archive, and disseminate data+documentation
- Assess data quality
- Create quality-controlled products (nav, r/t met, geo, ctd)
- Support at-sea eventlogger



As of October 2014: 3,686 Cruises 17.4M Files Archived



Lamont-Doherty Earth Observatory Columbia University | Earth Institute



Program Team (LDEO, FSU, SIO, WHOI)



International Partners





**IEDA** 

Disciplinary Data Systems



Geoinformatics Community



National Data Centers



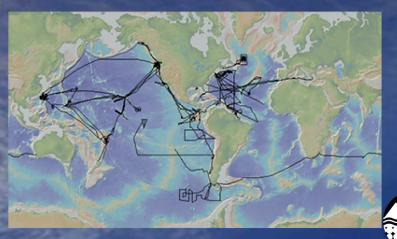
Academic

**Fleet Office** 

Fleet

Operators

# **R2R** Impacts



As of 2014, R2R has contributed IEDA 100+ multibeam cruises to the GMRT global bathymetry compilation

US Academic Flee

MSI:36724 Endeavor

MSI:30347

F.G. Walton S

MMSI 367020910 ICF

Kalmikal-o-Kanalo

MMSI:303165000 ICES Kilo Moana

Laurence M. Gould

MMSI:36676 New Horizon

MMSI:303273000

MMSI:367246000 ICES:316N IMO:7738618 Badio:KCE.

Enviro

Response





### Workforce **Development**

R2R student fellows work with EU+AU developers on interoperable data systems



Agency, U.S. Coast Guard, and U.S. Department of Interior, ERMA provides environmental resource NOAA Mussel Watch Program, which monitored contaminant levels managers with the data necessary to make informed decisions for environmental response.



R2R provides GeoRSS feed with ship positions + cruise catalog links to ERMA



#### R2R Program Update

# Looking Ahead

- 1. Continue operation of R2R core data stewardship +publication services.
- 2. New development including:
  - Operational quality assessment for CTD, ADCP, Fluoro data
  - Recruit additional vessels to SAMOS
  - Shipboard microserver to host EvLogger +science apps
- 3. Participate in NSF EarthCube Council of Data Facilities, Technical Governance, and "Building Block" projects.
- 4. Prototype development toward NOAA Cruise Catalog.
- 5. Convene community Advisory Panel meetings in 2015, 2017.





