Rolling Deck to Repository (R2R)
Vision

“the academic fleet as an integrated global observing system”

R2R proposes an evolution in data management for U.S. academic research vessels, providing a “direct pipeline” for routine underway cruise data and documentation from operating institutions to a central repository.
Goals

- Migrate all routine “underway” data to long-term repositories
- Create catalog of cruises and standard products
- Assess data quality and provide timely feedback to operators
Status

- 18 vessels currently submitting data (14 UNOLS + 4 allied)
- 1,400+ cruises inventoried
- 4.8+ million data files archived

Atlantis
Barnes
Cramer
Endeavor
Healy
Ka'imikai
Kilo Moana
Knorr
Langseth
Melville
Oceanus
Point Sur
Revelle
Seamans
Sharp
Smith
Thompson
Wecoma
Device Types

- ADCP
- Anemometer
- CTD
- Echosounder
- Expendable Probe
- Flowmeter
- Fluorometer
- GPS
- Gravimeter
- Gyrocompass
- Magnetometer
- MetStation (pressure, temperature, humidity)
- MRU
- Multibeam
- pCO2
- Radiometer
- Rain Gauge
- Speed Log
- SSV
- Subbottom
- Thermometer
- Transmissometer
- TSG
- Winch

General Classes:
- Geophysical
- Oceanographic
- Meteorological
- Navigational
Next Steps

1. Bring remaining UNOLS vessels into Catalog
   (Atlantic Explorer, Blue Heron, Cape Hatteras, New Horizon, Pelican, Sproul, Savannah)

2. Continue ship visits and development work e.g. SAMOS realtime data protocol

3. Create new “Cruise Report” Web form (jointly with UNOLS Office) to capture cruise identifier, personnel list, ancillary awards
Thank you.