

Rolling Deck to Repository (R2R) Program

Mission:

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

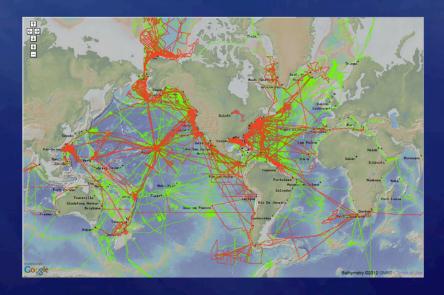
Funding:

NSF GEO Ocean+Polar Divisions ONR

Services:

- Publish master cruise catalog
- Organize, archive, and disseminate data+documentation
- Assess data quality
- Create post-processed and/or quality-controlled data products
- Support at-sea event logging

As of November 2014: 3,703 Cruises 17.5M Files Archived



New cruises since R2R launch in 2009

Additional/ legacy cruises







Program Team (LDEO, FSU, SIO, WHOI)



BCO-DMO

International Partners





Academic

Fleet Office

Fleet Operators



Disciplinary Data Systems



Geoinformatics Community





IEDA

Program Team



Institutional Leads R.Arko, LDEO Tech. Director S.Carbotte, LDEO Lead PI C.Chandler, WHOI S.Smith, FSU K.Stocks, SIO Prog. Coordinator

Staff Updates Thank you: A.Sweeney Welcome: C.Olson

Questions and comments info@rvdata.us http://rvdata.us/contact

Team Members present this week: R.Arko, D.Clark, V.Ferrini, C.Nobre, S.Smith, K.Stocks, L.Stolp



Past Year

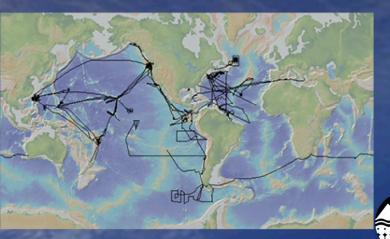
 Cataloged +archived data packages for 437 new cruises from 22 vessels

Poster: Clark et al.

- Produced quality-controlled navigation for 328 new cruises
- Assessed quality of 530 multibeam data sets to date
- Produced quality-controlled geophysical profiles (MGD77T files) for 92 cruises to date
- Produced routine quality-controlled near-real-time MET/TSG (SAMOS) for 10 university vessels
 Poster: Smith et al.
- Supported EventLogger deployment on 60+ cruises to date
- Operationalized quality assessment and post-processing of CTD profiles
 Poster: Nobre et al.



(cont.) Past Year



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

US Academic Flee

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:367241000 ICES:33AT IMO:910 Endeavor

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

Enviro

Response





Workforce **Development**

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



Developed by NOAA and the Ur with the U.S. Environmental Protection Agency, U.S. Coast Guard, and U.S. Department of Interior, ERMA provides environmental resource managers with the data necessary to make informed

decisions for environmental response. Learn how to reference ERMA in a bibliogram



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



2014-19 Work Plan

1. Routine Operation

- Upload, breakout, stage, release, and archive cruise data packages
- Populate R2R Catalog and standard publication services
- Assess quality of selected data types including annual reports to technicians
- Create post-processed and/or quality-controlled data products for shiptrack navigation, geophysical profiles, real-time MET/TSG (SAMOS), and CTD profiles
- Support at-sea EventLogger in network and laptop modes



2014-19 Work Plan (cont.)

2. Improve /extend services

- Break out additional post-cruise data sets: Met, TSG, Flowmeter, Fluorometer, pCO2, Transmissometer
- Launch new Web site with map/keyword search features etc
- Operationalize Vessel Device Editor
- Operationalize at-sea EventLogger +develop training materials
- Recruit additional vessels to SAMOS
- Operationalize QA for CTD and ADCP; develop new QA for Subbottom and Fluorometer
- Develop microserver to support both R2R EventLogger and science party apps
- Release portable code to generate Nav products
- Operationalize CTD post-processing; upgrade MGD77T files with Subbottom shotpoints
- Support rescue of legacy cruise data



2014-19 Work Plan (cont.)

3. Feedback

- Present results at science community meetings
- Annual working meetings with NOAA R2R Team and Data Centers
- Convene R2R Advisory Panels in 2015 and 2017



(Photo: Ellen Roosen, WHOI)



Related Efforts



1. Ocean Data Interoperability Platform (ODIP) work with European and Australian data managers



2. NSF EarthCube Council of Data Facilities, Technical Governance, and "Building Block" projects



3. Prototype development toward NOAA Cruise Catalog



Thank you.

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