

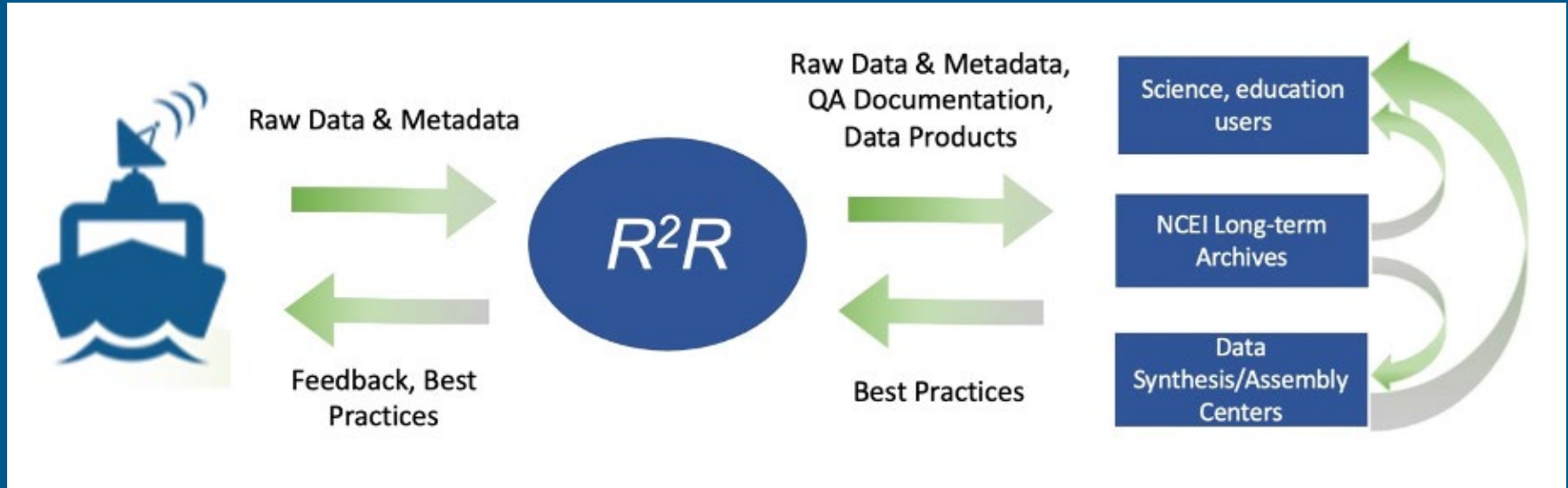
Rolling Deck to Repository (R2R)

Current Status and New Developments

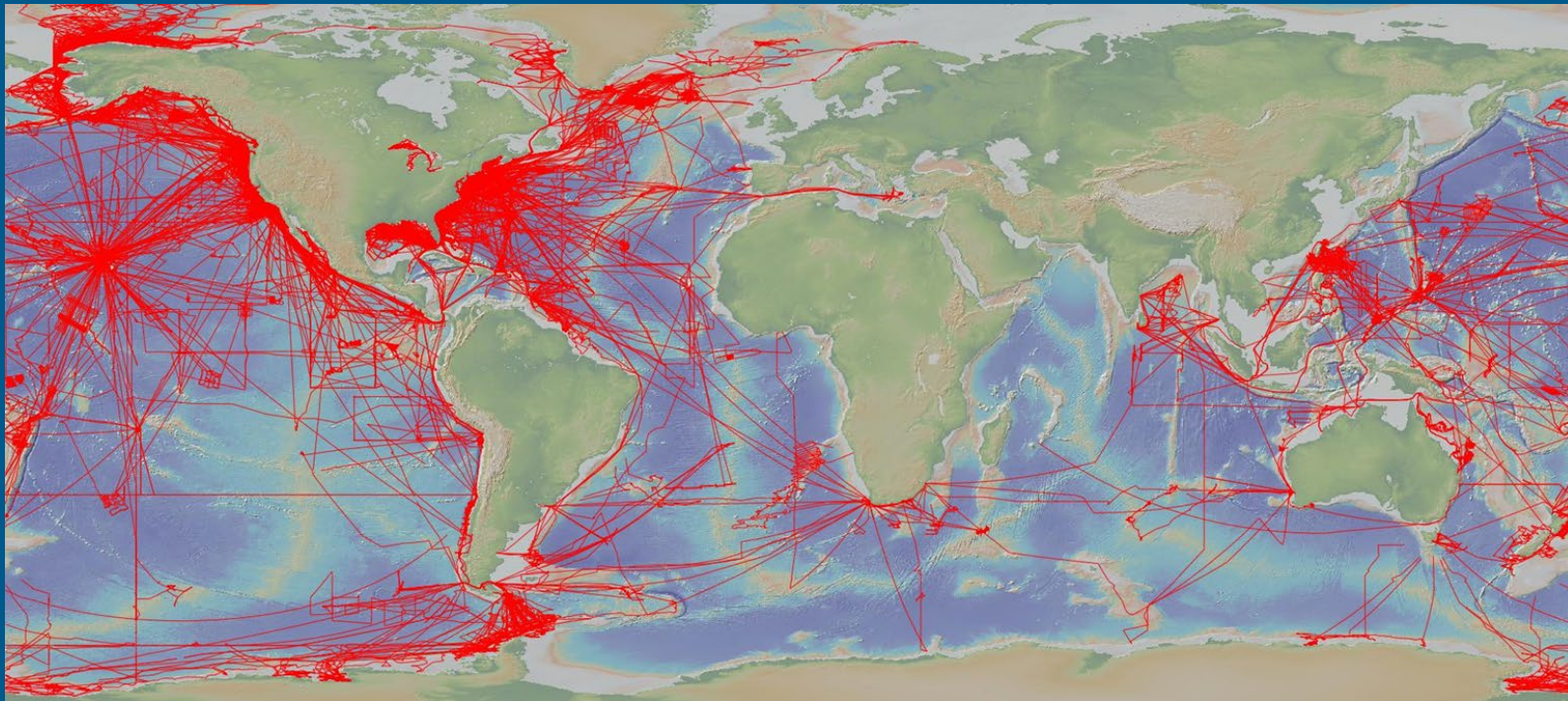
*E. Miller, S. O'Hara, D. Clark, R. Hudak, S. Smith, K. Stocks, L. Stolp, R. Uribe, V. Ferrini, S. Carbotte
LDEO, FSU, SIO, WHOI

*presenter

Our Mission

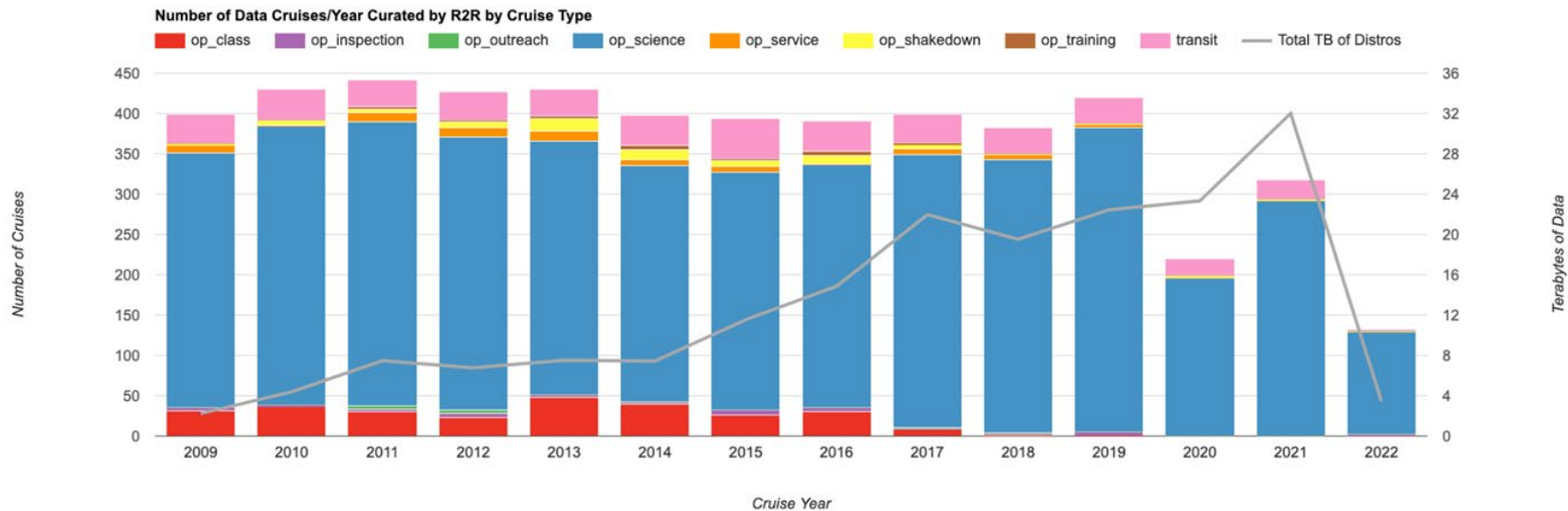


Data You Contribute Circles the Globe



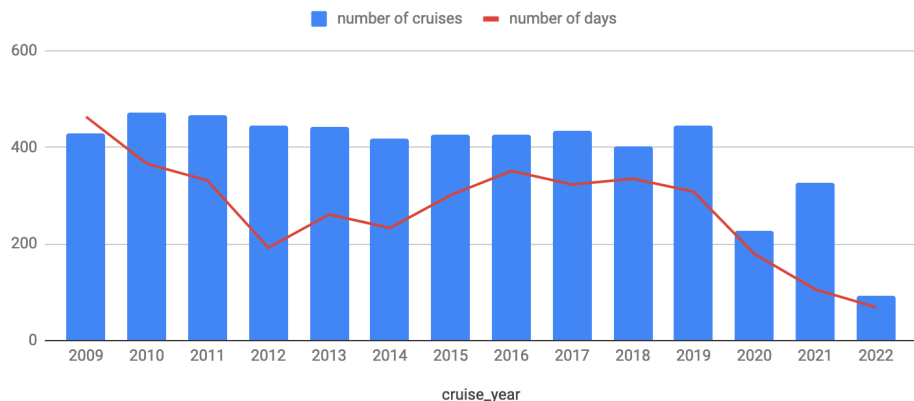
R2R makes your data available to all

Cruises & Data Volumes at R2R

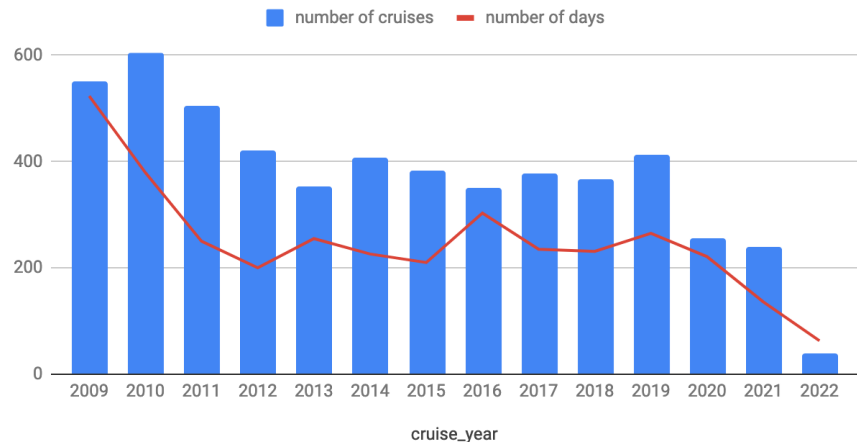


Arrival of Data to R2R

Number of days between end of cruise and ingestion of metadata into R2R

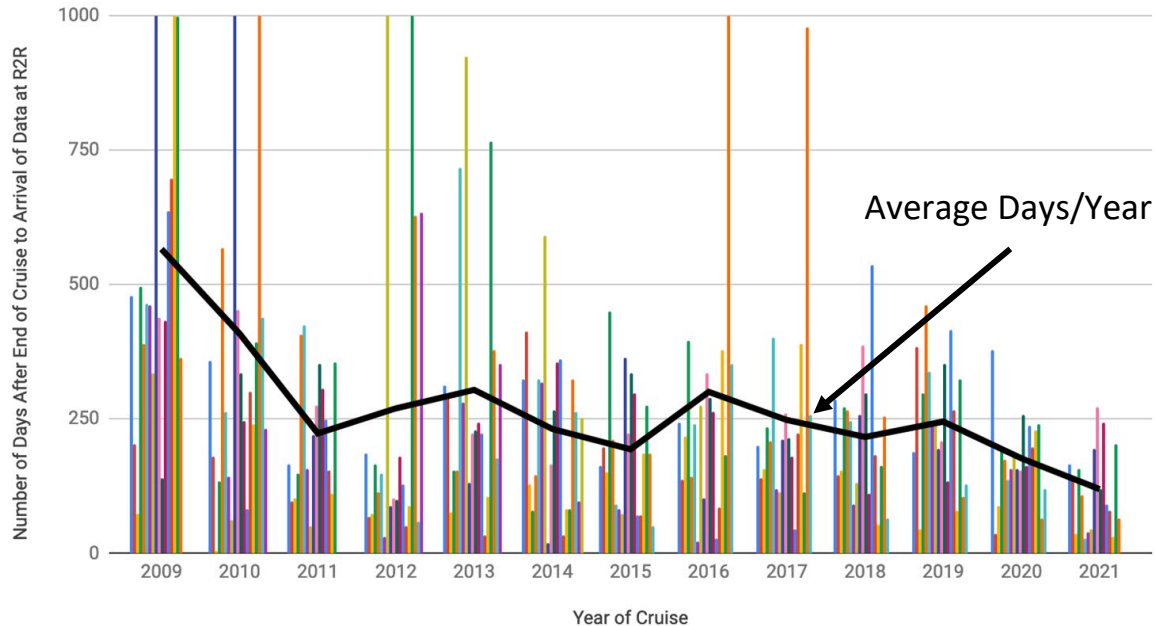


Number of days between end of cruise and arrival of distro at R2R



Arrival of Data to R2R Varies by Vessel

Arrival of Data to R2R Over Time by Vessel



Some operators have more difficulty getting data to R2R quickly.

Remember that the data isn't archived properly until it reaches R2R.

We offer multiple methods for transfer of data. What can we do to make it faster and easier for you?

Current Data Transmission Methods

R2R accepts data and metadata using many methods

- Globus
- SFTP
- FTP
- Cloud downloads
- USB drives via mail
- Email
- Dropbox
- ...

Review of Data Transmission Methods

<u>Transfer Method</u>	<u>Pros</u>	<u>Cons</u>
Globus	<p>Faster than SFTP, no need for a paid subscription to push data to us</p> <p>Interrupted transfer are resumed automatically</p>	<p>Requires system configuration by IT</p> <p>Operator will require a paid option for R2R to pull data.</p> <p>R2R hopes to setup a push option that would be free for users</p>
SFTP	<p>Secure, relatively quick transfer times, reliable, we pull from you</p>	<p>Requires system configuration on your end (we do not have a space you can push to that is secure)</p>
Cloud downloads (dropbox, google, box, ...)	<p>Easily adaptable depending on what the operator is already utilizing, use of Rclone has made these downloads more traceable</p>	<p>Have encountered some issues with interrupted data uploads/losing files & directories, as well as corrupting data on download, some require paid subscriptions</p>
Physical drive	<p>Can receive large swath of cruises at once (especially with unreliable network connections)</p>	<p>Less convenient for frequent data transfer, if there's a mistake/data is missing it takes more time to fix the issue, delivery delays, must be mounted in-person</p>

New Distro File Request Tool

R2R Cruise Page

CRUISE DATA AT OTHER SYSTEMS

Additional Cruise Information

SCIENCE PARTY

FUNDING AWARDS

FILE MANIFEST

REQUEST DISTRO FILES

Thermometer, Water



R2R

ROLLING DECK TO REPOSITORY

SEARCH BROWSE VESSELS DATA TYPES & PRODUCTS QA DASHBOARD COMMUNITY ABOUT R2R

Distro File Request for Cruise AT42-17

Home / distro_request/AT42-17

CRUISE ID
AT42-17

SUMMARY

Project: Collaborative Research: Pythias Oasis - Access to Deep Subduction Zone Fluids
Cruise Type: op_science
DOI: [10.7284/908574](https://doi.org/10.7284/908574)
Vessel: Atlantis
Chief: Kelley, Deborah

This is a list of all files in the data distribution for the selected cruise that are not available and downloadable on the R2R website. Please fill out the contact information below and then select the data you wish to request. We will contact you about the request and we need to clear release of the data with the chief scientist.

Name:

Email:

Main purpose:

Commercial Research Personal Other

Requested data:

Click on the submit button after selecting files below.

Submit

Request entire cruise distro (1785 files, total size: 1.52GB)

or select from below (click on folder icon to expand/contract, click on file or directory name to select):

AT42-17

Name:

Email:

Main purpose:

Commercial Research Personal Other

Requested data:

Click on the submit button after selecting files below.

Submit

Request entire cruise distro (1785 files, total size: 1.52GB)

or select from below (click on folder icon to expand/contract, click on file or directory name to select):

- AT42-17
 - at42-17_cruise_letter.pdf (Size: 121.37kB, Checksum: 33f2c3c0505d7118eec724b657a44e6f3)
 - at42-17.md5deep (Size: 0B, Checksum: d41d8cd98f00b204e9800998ecf8427e)
 - CRUISE_ID (Size: 8B, Checksum: b0da34b25e3663998c9b77ea5f821e5d)
 - cruise.metadata (Size: 46B, Checksum: 1ea1d200368d97f657cae134b6f3f7fb)
 - ctd
 - diskinfo.txt (Size: 1.52kB, Checksum: 9a1b7260e861ea1cf08003f81f5bc465)
 - disc
 - hdep_files.txt (Size: 819B, Checksum: d1827af0317702f37113fee32b054d9a)
 - cruise.metadata (Size: 1.96kB, Checksum: 305bf5d7fb9a76c6f933bd1a0cfcf9)
 - dslog_data_descriptions.xls (Size: 24.5kB, Checksum: 37326f5849afccc37c019c0778c6e15e)
 - gravimeter.txt (Size: 1.72kB, Checksum: 023ab5f8ebc871026ab350528410244f)
 - knudsen.txt (Size: 424B, Checksum: a575a6367a40f4cfd70357035cfc2b1)
 - magnetometer.txt (Size: 615B, Checksum: 80e50057f4c4e15e2d858619f1e5d028)
 - multibeam
 - r2r
 - shiptrack
 - underway

Users can now request any file or folder from a cruise data distribution!

API Services

Get information and data about:

- Cruises
- Devices
- File Manifests
- Filesets and Products
- Documentation
- Vessel Operator Summaries
- Vocabularies
- ... and more

Explore services at [R2R API Services](https://www.rvdata.us/about/technical-details/services/api) to see everything that is available.

GET /cruise/ Finds cruises based on parameters

Base URL: <https://service.rvdata.us/api/cruise/>
Examples:
* https://service.rvdata.us/api/cruise/?cruise_id=LMG1901
* https://service.rvdata.us/api/cruise/?cruise_type=op_science&keyword=penguin
* [https://service.rvdata.us/api/cruise/?spatial_bounds=POLYGON\(\(-20.393 63.906,-20.393 40.526,22.497 40.526,22.497 63.906,-20.393 63.906\)\)](https://service.rvdata.us/api/cruise/?spatial_bounds=POLYGON((-20.393 63.906,-20.393 40.526,22.497 40.526,22.497 63.906,-20.393 63.906)))

Parameters Cancel

Name	Description
cruise_id string <small>(query)</small>	The cruise ID
<input type="text" value="cruise_id"/>	
vessel_shortcode string <small>(query)</small>	The short name of the vessel
<input type="text" value="Palmer"/>	
cruise_doi string <small>(query)</small>	The cruise DOI suffix (the part after 10.7284/)
<input type="text" value="cruise_doi"/>	
cruise_type string <small>(query)</small>	The cruise type
<input type="text" value="cruise_type"/>	
date date <small>(query)</small>	Only display cruises that are at sea during this date
<input type="text" value="date"/>	
keyword string <small>(query)</small>	Search cruises by keyword - can filter on multiple keywords using a comma separated list
<input type="text" value="keyword"/>	
spatial_bounds string <small>(query)</small>	Search cruises that intersect a WKT polygon
<input type="text" value="spatial_bounds"/>	

Acknowledgements

 COLUMBIA CLIMATE SCHOOL
LAMONT-DOHERTY EARTH OBSERVATORY



 SCRIPPS INSTITUTION OF
OCEANOGRAPHY

Providing access to and ensuring
the preservation of national
oceanographic research data.



We're hiring a Systems Analyst/Programmer!

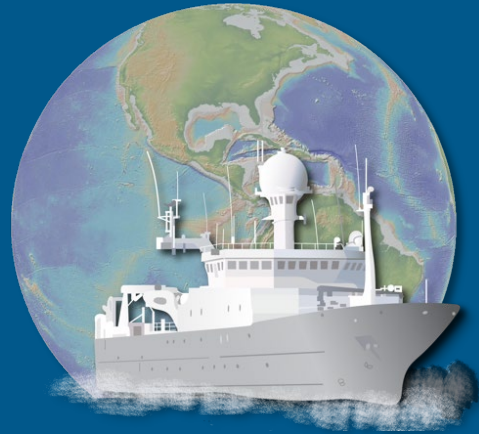
Responsibilities:

- Work on the development of software tools for front-end and back-end applications (using Javascript, Python, and/or Java)
- Troubleshoot and resolve moderate to complex logic problems
- Support all phases of testing leading to deployment
- Address UI/UX needs of applications/systems
- Maintain and develop tools for:
 - Data curation
 - API-based search and discovery of geospatial data
 - (Meta)data exchange and data system interoperability
 - Exploring and visualizing earth science data, including web map interfaces and Desktop tools



Scan code to be
brought to job posting!

Questions, Comments, Suggestions?



Contact us:

- Email info@rvdata.us
 - Visit www.rvdata.us
-  @R2RData