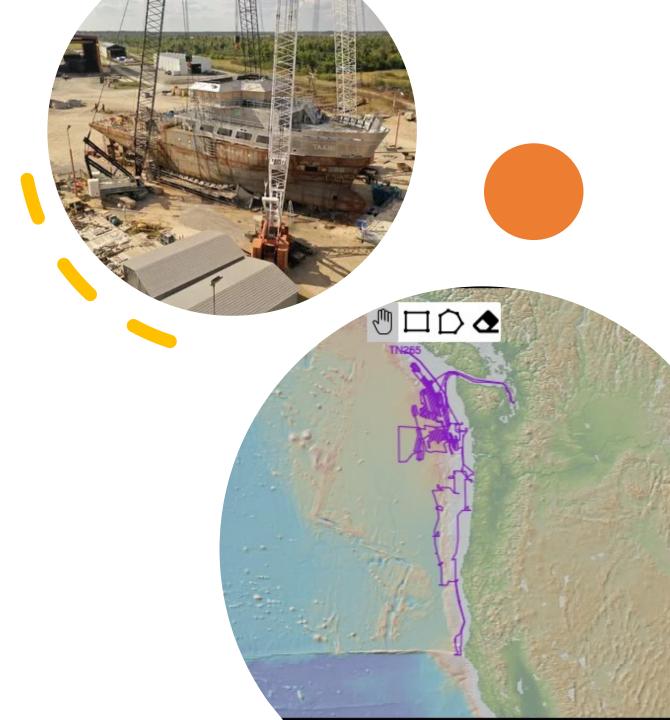


My Perspective as:

- Facility User 2002-2015
 - Active Tectonics,
 - Paleoseismology,
 - Seabed Mapping
- Facility Design & Construction
 - RCRV Project 3 vessel build







Some Background About the ARF

The ARF is organized as a distributed laboratory system.

Coordination of facility access is managed by UNOLS

Its primary function is to provide platforms that can be used to conduct experimental research and explorations at-sea.

The ARF is not an Observing System per se, but ARF vessels are configured with resident scientific sensor equipment.

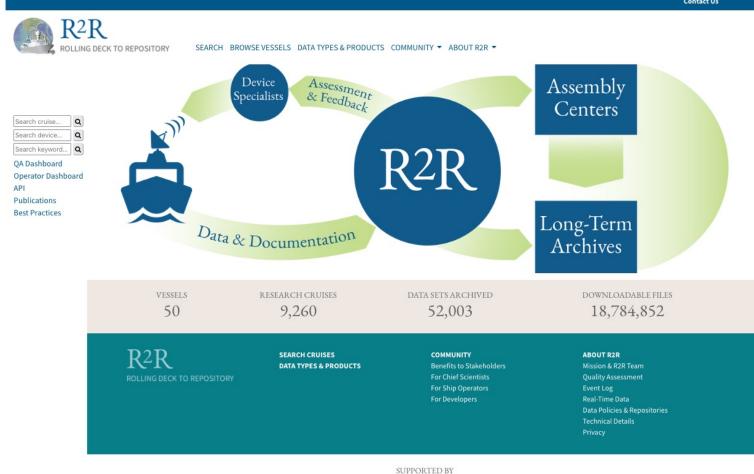


Underway Data -

All vessels collect data from a suite of resident instrumentation:

- Meteorologic/Atmospheric
- Surface Seawater Properties
- Seawater Profile Data
- Acoustic Seabed and Sub-seabed Data
- Acoustic Mid-water Data

Post-Cruise delivery via Hard Drive, SFTP, Cloud, Globus













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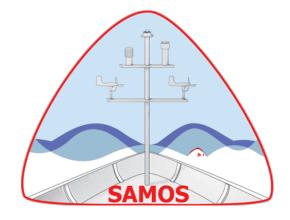
Continuous Observation Data — Subset of Underway



Meteorologic/Atmospheric

Binned (reduced, 1min) and emailed daily to SAMOS

Raw data to R2R – post cruise terrestrial transfer

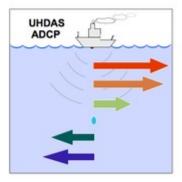




Acoustic Doppler Current Profilers

Reduced to graphics and statistics, emailed daily to UHDAS

Raw data to R2R – post cruise terrestrial transfer

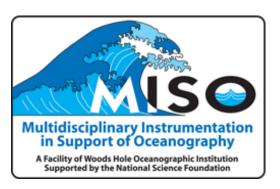




Gravimeters

Local raw data storage. No ship to shore exchange.

Raw data delivered to R2R – post cruise terrestrial transfer



PI Data-

In addition to the resident instrument systems (underway data) ARF vessels also collect data and observations from equipment and individuals from the visiting science teams.

This data generally does not end up in the archival pipeline managed by the vessel operator.

Instead, in most circumstances, PI's maintain management responsibility for the data they generate on from their own independent systems.

Bring Your Own [

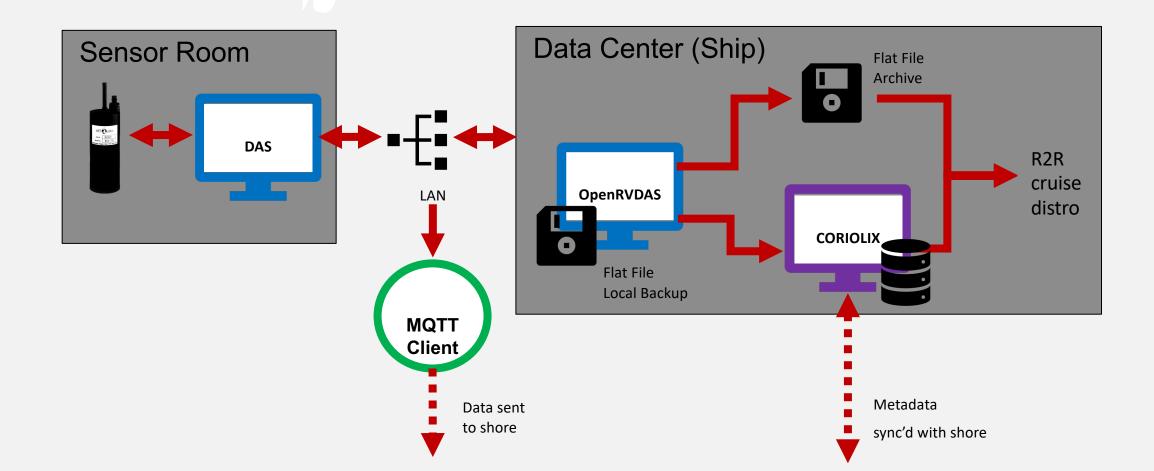
Enabling Technology / Paradigm Change





CORIOLIX

Shipside Overview



Shoreside Overview

