

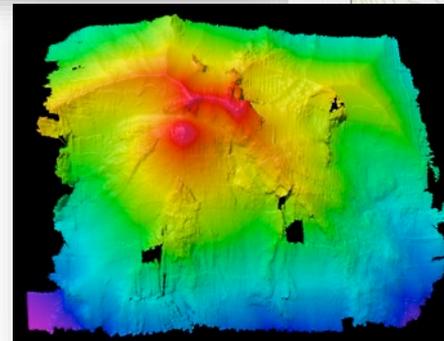
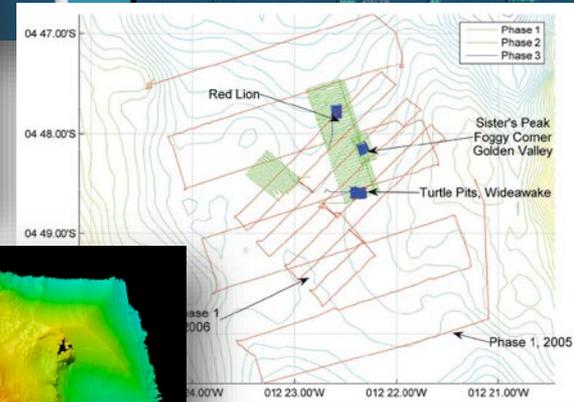
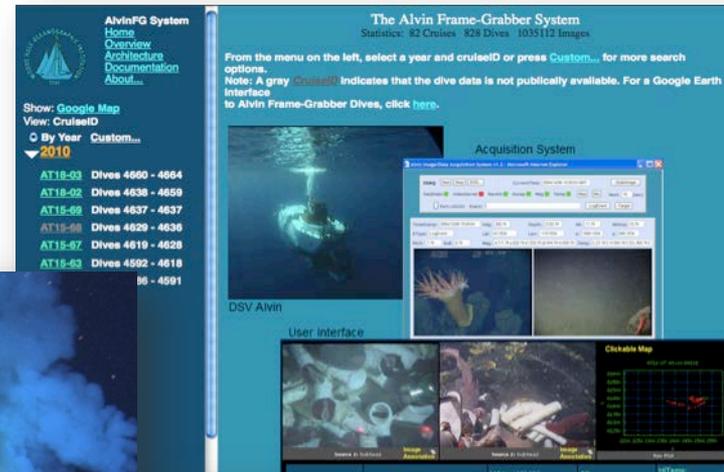
# Data Management

Vicki Ferrini

*Lamont-Doherty Earth Observatory*

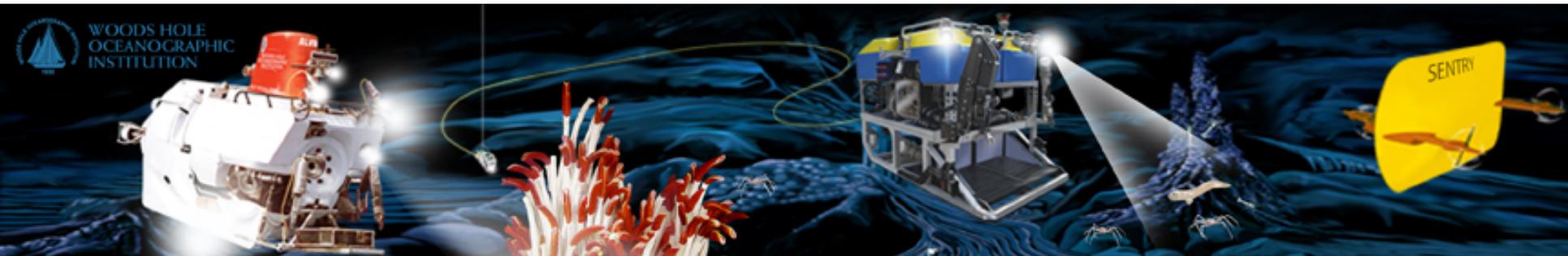
# NDSF Data Types

- Images & Video
- Raw data streams
  - Navigation
  - Sonar, CTD, subbottom
- First-order products
  - Grids & Images
  - Processed Navigation
  - Event Logs
- Science Party Instrumentation



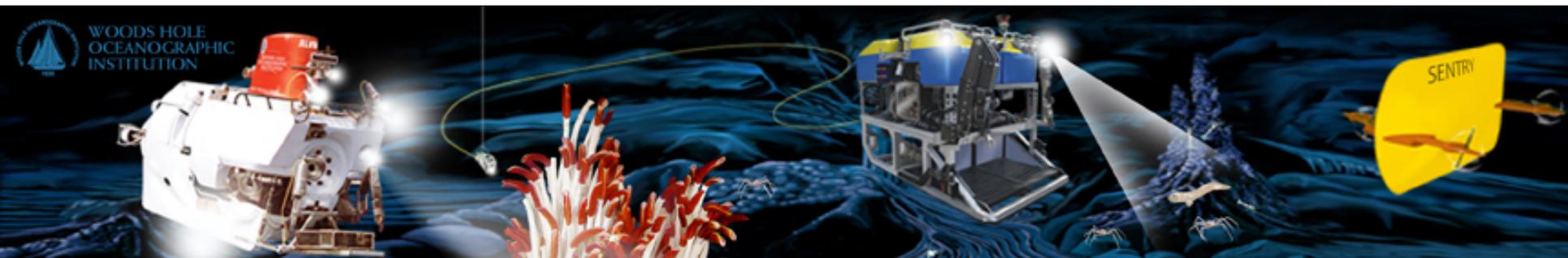
# Data Access and Discoverability

- **2013** Piloted transfer of some underway and first-order data products to MGDS ([www.marine-geo.org](http://www.marine-geo.org))
  - Bathymetry
  - Navigation
  - Sidescan
  - Subbottom
- **2014** new pre-cruise data release form developed
  - Authorize the transfer of NDSF data to MGDS
  - Uphold PI data embargoes



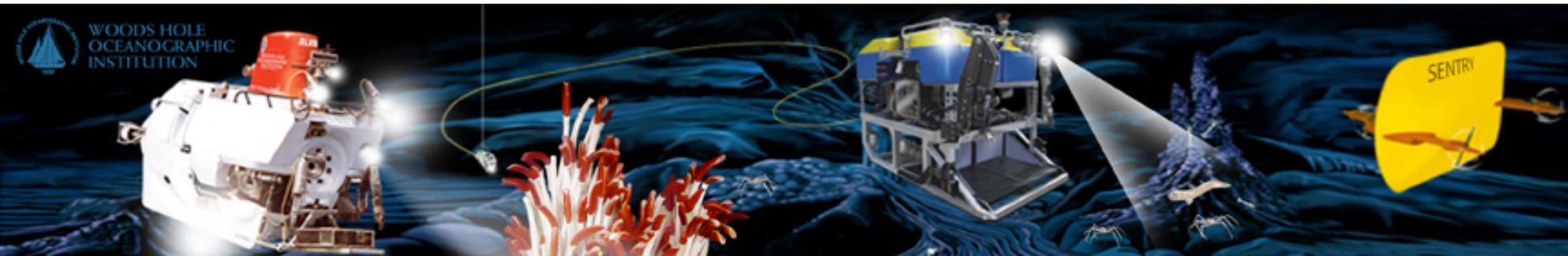
# Cross-Vehicle Consistency

- Improve data management efficiency
- Consistently deliver data products that are familiar to users
  - Formats, naming conventions, organization
- Enable programmatic metadata generation across NDSF assets wherever possible



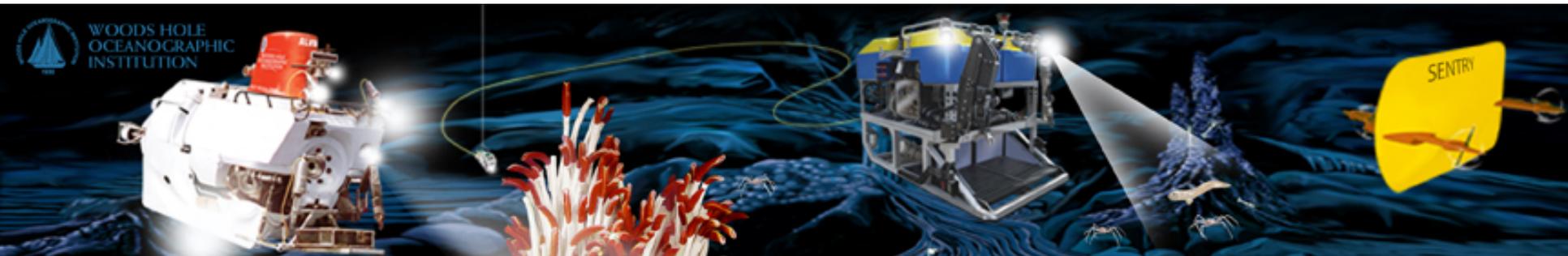
# Cross-Vehicle Consistency: Status

- Internal WHOI-NDSF mini-workshop
- NDSF developing 'roadmap' towards greater symmetry in data processing, formatting, and delivery across vehicle systems.
  - Prioritized list of activities will be undertaken as resources are available
  - Migrate Jason and Alvin navigation processing algorithms to be similar to those used by Sentry
  - Some independence in data practices will be necessary between vehicles



# Video Workshop ?

- Many issues we confront in the ocean science community with respect to video are being actively addressed in other industries
  - Video logging, frame rates, formats, compression , etc.
  - Metadata standards
  - Geospatial integration
- Common standards will move toward a common goal of broad public access to distributed video content for scientific research and public outreach



# Video Workshop – Strategy

- Vehicle operators, data managers, scientists from the oceanographic research community  
(e.g. NDSF, Ocean Exploration Trust, NOAA, MBARI, HURL, Schmidt Ocean Institute, IEDA...)
- Technical specialists from industry
  - television and film
  - video streaming
  - geospatial software

