



NDSF Data Management Data Mgmt Subcommittee



- Andrew Maffei / Vicki Ferrini / Scott McCue developed template to clearly represent current vehicle data/metadata products for DESSC user community:
 - Draft versions of *Jason* / *Sentry* vehicles matrices now available for DESSC review.
 - New *Alvin* data products next, after feedback received

NDSF Data Management Review: *Update*

V.L. Ferrini & A. Maffei

NDSF Data Management Review

Motivation

- Community feedback re: data quality, delivery and storage
- Online documentation describing data products available from the NDSF
- Compliance with 2011 [NSF Data Policy](#) & increasing demands on PIs w.r.t. data documentation and submission
- Efficiencies gained by documenting metadata describing data acquisition which are critical to data preservation and re-use
- General goal of achieving cross-NDSF consistency w.r.t. data management and data products wherever possible, within funding constraints.
- Help identifying future data directions for NDSF data efforts based on the needs of its user community

NDSF Data Management Review

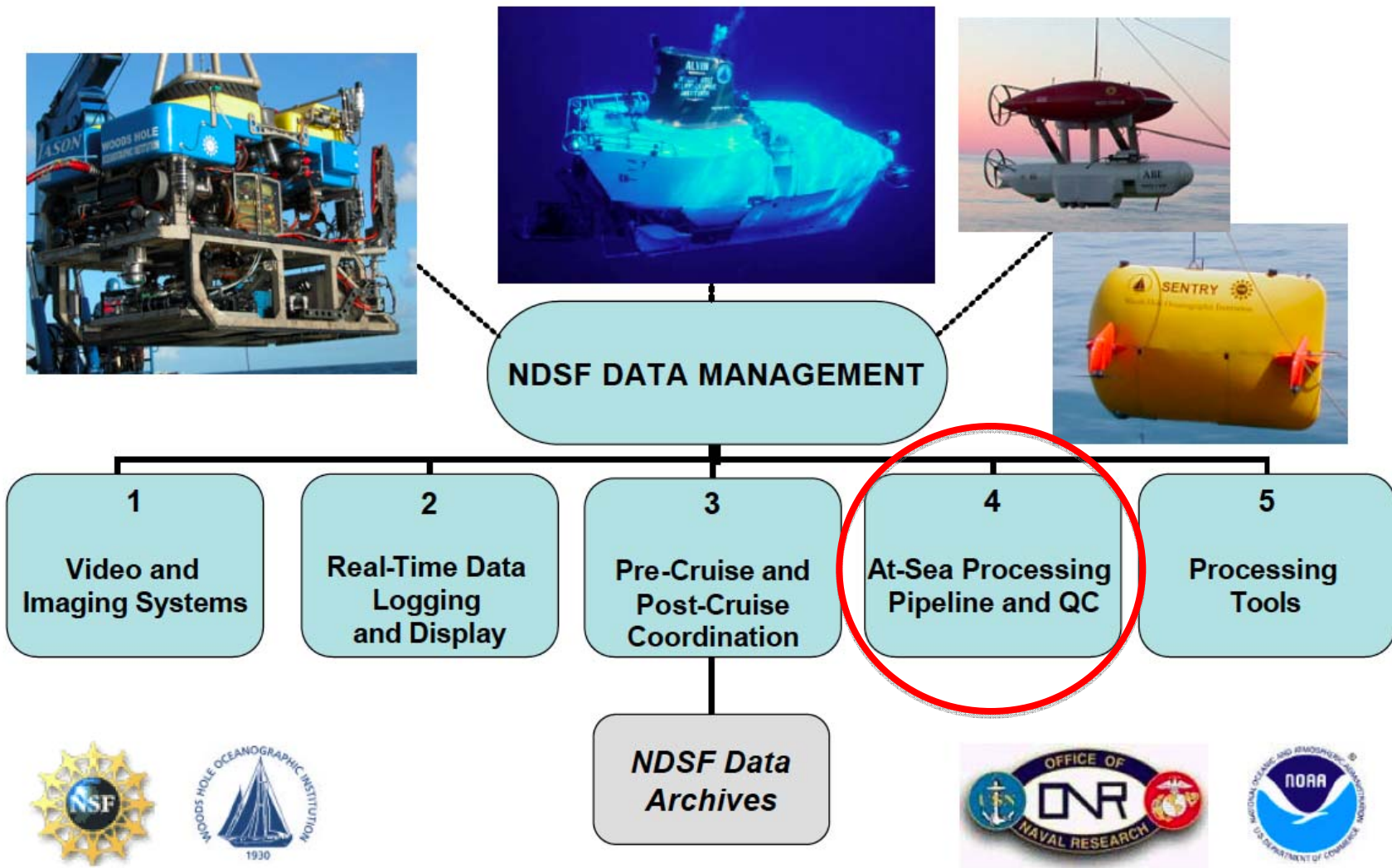
Approach

- (1) Document & Compare NDSF Data Products & Documentation for each vehicle (including metadata, documentation, data quality, & at-sea data planning, processing & delivery)
- (2) Identify potential synergies with related ongoing community data efforts (e.g. R2R, MAC, SESAR, MGDS, etc) especially w.r.t. best practices for QA/QC, data documentation, etc.
- (3) Consider the long-term fate of data (e.g. archive, rescue, access, etc).
- (4) Report – summarize findings and recommendations

**Consider potential budgetary impacts throughout*

NDSF Data Management Structure

DESSC
November 2006



**slide & concept presented at DESSC 11/2006, 12/2007, 06/2008* 16

Data Management Review: *Phase* *1*

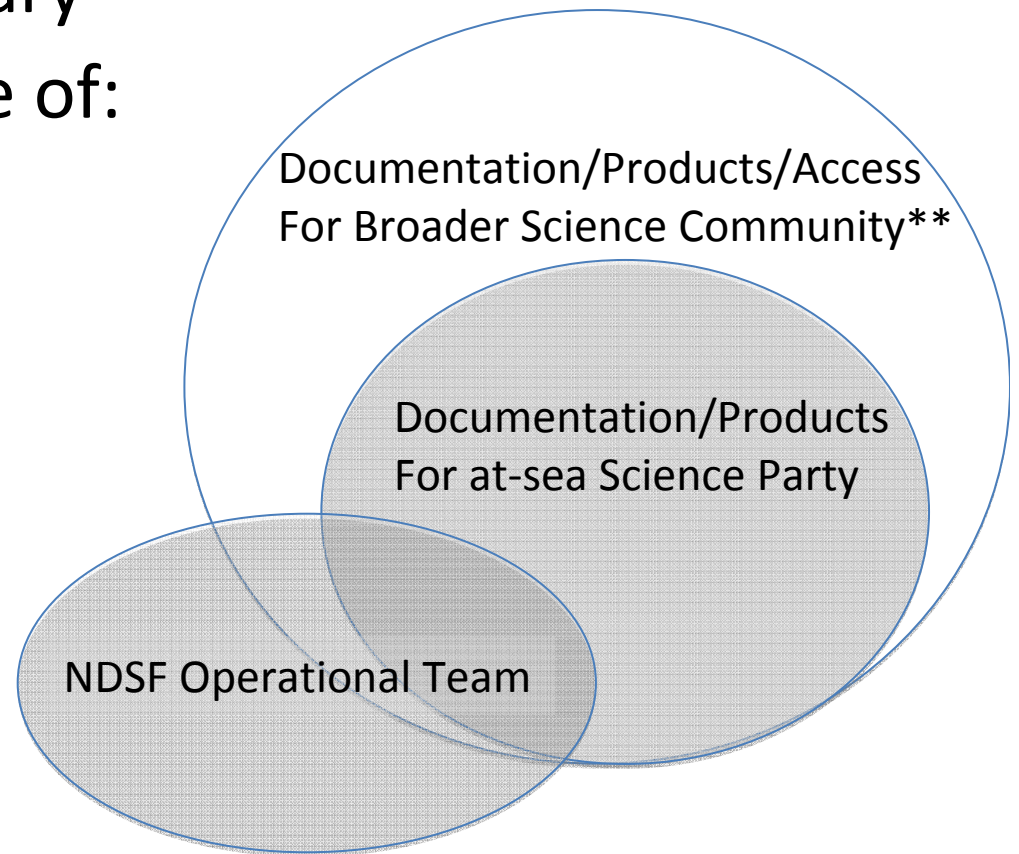
- Focus on At-sea Processing Pipeline and QC
 - *Goals:*
 - Review status of at-sea data handling, products, and documentation from perspective of at-sea scientists
 - Identify consistencies/inconsistencies across vehicles
 - *Approach:*
 - Document Current Data Deliverables (Jason & Sentry)
 - Formats, quality, at-sea processing, handover procedures
 - Cruise, Dive, & Data Documentation
 - Present to DESSC for Review & Recommendations

Draft NDSF Data Deliverable Spreadsheet

- Review spreadsheet
 - rows/columns
 - content
- Feedback?
- Suggestions?
- Preliminary Comparisons across vehicles?

Summary of Data Products Review – *Data Products: Next Steps*

- Finalize Data Products Spreadsheet and Summary
- Review from perspective of:
 - At-sea science user's operational needs
 - Scientist's data reporting requirements**
 - NDSF Operational Team members
- Look for Synergies
- Long-term fate of data
- Potential Budget Implications



***Includes archives & downstream scientists*

Data Management Review – *Proposed Timeline*

- June 2012 – Present status/approach/goals to DESSC
 - Discuss, Review, Revise
 - Make sure we're on the right track
- Summer 2012 – Finalize recon & documentation phase
 - Work with NDSF & DESSC
 - Include examples of documentation
 - Add *Alvin* to deliverables spreadsheet
 - Identify synergies with other community data efforts (e.g. R2R, MAC, SESAR, MGDS, etc)
 - Consider potential budgetary implications
 - Consider long-term fate of data

Data Management Review – *Proposed Timeline*

- Summer/Fall 2012 – Work with NDSF to review material & assemble **draft** Report
- Fall 2012 –
 - Present written **draft** Report to DESSC for review
 - Feedback from DESSC for Recommendations
 - Produce **Final Report** in advance of Fall DESSC meeting.