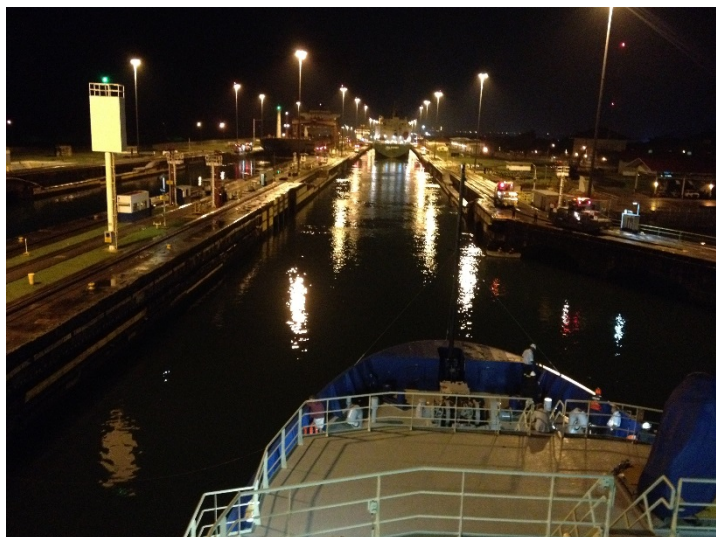




# NDSF 2015 Operator's Report

## R/V Neil Armstrong



**NEIL ARMSTRONG**  
WOODS HOLE MA



Panama Canal - Miraflores Locks, 11/24/15 23:00:38

- September 21 – Signed bareboat charter agreement
- September 23 – Formal handover from U.S. Navy to WHOI
- October 31 – Departure from Anacortes
- November 7-10 – San Francisco
- November 23-35 – Panama Canal
- December-February – Detyens shipyard, Charleston
- March-April – Science verification
- May – First science



# NDSF 2015 Operator's Report

## Nereus Legacy Fund

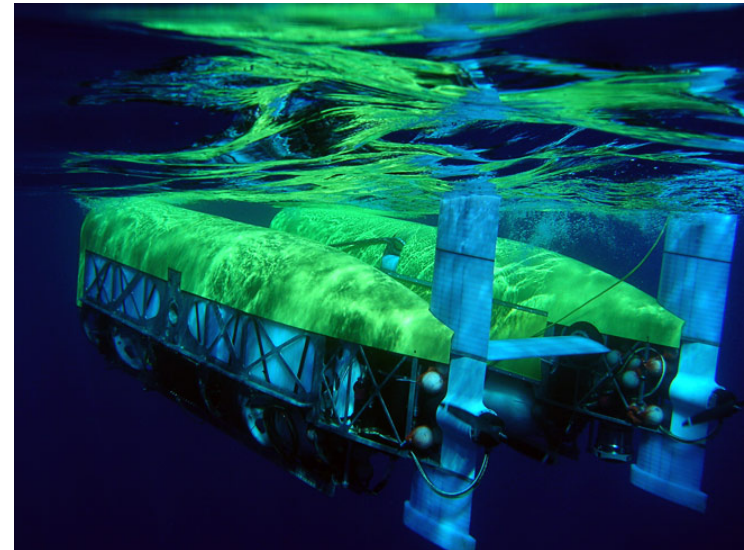


### NLF Guiding Principles

- Develop deep submergence technology with broad impact
- Enable new operational paradigms and open new realms to scientific enquiry
- Deliver deep submergence tools that enhance ocean science

### NLF Project Criteria

- Benefit a wide range of DSV users
- Provide synergistic opportunities (material or otherwise) between vehicles
- Provide leveraging opportunities for future growth
- Provide mechanism to continue development of forward-looking tools for deep submergence science



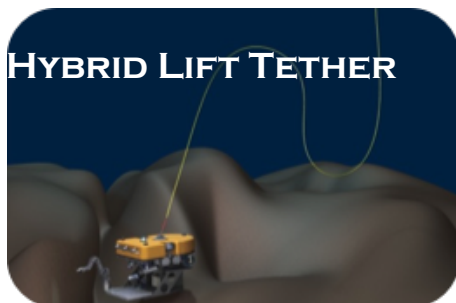


# NDSF 2015 Operator's Report

## NDSF Announcements



### HYBRID LIFT TETHER



**HYBRID LIFT TETHER** Complete the development of a hybrid lift tether begun as part of the *Nereid* HT vehicle project to enable single-body ROV operations.

### SENTRY ASV TENDER



**SENTRY ASV TENDER** Develop capability to autonomously monitor and control AUV *Sentry* to enable more efficient dual vehicle (or ship) operations by removing the need for a proximal surface vessel tender.

### ENGINEERING 6500M ALVIN



**6,500M ALVIN** Execute the necessary engineering studies that roadmap the final stages of the 6,500m upgrade. Conduct power model and energy analysis, conduct variable ballast and arrangement model trade studies.





# NDSF 2015 Operator's Report

## NDSF Announcements



**HADAL TECHNOLOGY** Ground-up, science-driven, phased hadal program leading towards vehicle development. Workshop to define science priorities, initial design of smart-lander followed by addition of mobile assets for hadal investigations.



**NUI TRANSITION** Transition NUI into a science-ready vehicle for routine high-latitude operations. Acquire/replace hardware and develop software to address issues from initial deployment in preparation for field trials.



**NDSF DATA CONVERGENCE & TELEPRESENCE** Develop a common automated data processing pipeline, data tracking and delivery system, determine benefits of telepresence-enabled on-shore data processing.