NDSF Operator's Report

NDSF Vehicle Operations Summary











Alvin Operations Summary



2 cruises

Alvin/Sentry engineering Popping-Rocks

45 total operating days
34 Kurz cruise
11 Engineering cruise

27 total dives 18 Kurz (3400 to 3800m)

9 Engineering (929 to 4402 m)

197 hr total time submerged4:32 average total bottom time5:38 average bottom time Kurz







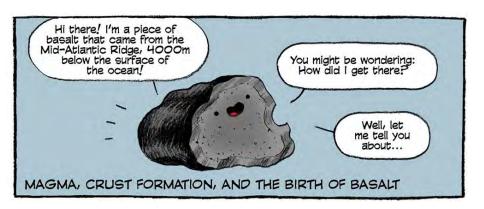




Alvin Highlights

Engineering Series – Bruce Strickrott

- Operations in Veatch Canyon & Bermuda Area
- PIT training/systems engineering on all dives
- First test of new Alvin thruster (to full cert depth)
- New computers and touch screen interfaces
- First dives Commodore Stephen Mack (DEVRON 5)
 Captain Al Lunt, Masako Tominaga,
- Superb photography by Lu Lamar
- No major problems excellent preparation for Kurz





Popping Rocks – Mark Kurz

- Operations in Mid-Atlantic
- First solo series for new EL Todd Litke
- Successfully implemented reduction in transit times
- No major vehicle problems, no lost dive time
- OV test dive at end of series
- Executed draft procedure for Alvin/AUV joint ops









JASON Operations Summary

- 38 operating days
- 2 cruises
- □ Brothers Volcano 5 dives (J2-1037 1041)
- □ Jason Engineering | dive (J2-1042)
- 119.3 total on bottom hrs
- Longest: 49 hrs
- Average: 19.87 hrs
- Vessels used: Thompson, Revelle



Photos by Erik Olsen









JASON Highlights

- New Control Vans received great feedback
- Humphris to Brothers Volcano on Thompson in 2-body
- JASON program convened "Science ROV Cable Torque Workshop"
- Engineering Cruise successfully established single-body operation procedure





Photo by Erik Olsen











Sentry Operations Summary

- 45 operating days
- 2 cruises

Engineering, PoppingRocks2

- 26 dives
- Total survey time: 211 hrs
- Average dive time: 10 hr
- 700 km of survey
 - Vessels used: Atlantis

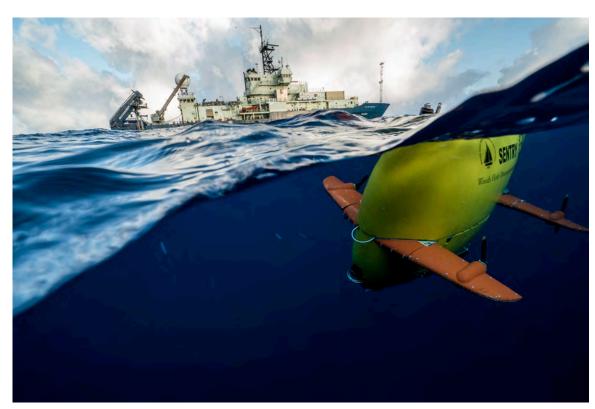


Photo by Lu Lamar









Sentry Highlights

Engineering Cruise highlights

- 1. 7 Engineering Dives Completed
- 2. ROS software tested and qualified for science operations
- 3. Syntactic foam (50 lb science payload increase)
- 4. Improved surface communications link between ship and Sentry with new tail fin.

Kurz Cruise highlights

- 1. Flawless cruise for Sentry with no hardware or software failures
- 2. 17 Dives completed, no aborts or delayed dives
- 3. Waveglider integration into Operations program
- 4. Concurrent operations with Alvin
- 5. Sidescan Processing software upgrade and pipeline improvements implemented.
- 6. 33 hour multibeam dive covering 70km of terrain









