

NDSF Jason Update

NDSF NATIONAL
DEEP SUBMERGENCE
FACILITY



2026 Schedule



- ✓ Chave+Rapid Response, AT50-45, EPR
 - ✓ + Endurance Energy deployment
- ✓ Beinart, TN-452, Vent Snail Adaptation/Lau Basin
 - ✓ + Endurance Energy deployment
- Kelley, RR2607, Axial/OOI-RCA
- Wilcock, RR2608, Axial/COSZO
- Chadwick, RR2609, Axial
- Zumberge, RR2615, Kilauea GNSS-A
- Potemra, RR2616, ACO

Approx. 1/3rd of scheduled days completed

Statistics and Metadata Access

ndsf.who.edu/data

- Updated shortly after each expedition
- Historical reference
- Jason/Sentry/Alvin
- Jason:
 - Sealog
 - Config Pics
 - Dive Metadata

The screenshot shows the website for the National Deep Submergence Facility (NDSF). The page title is "Vehicle Dive Stats". A "Select Time Range" dropdown is set to "Current Year" with a sub-range of "(Jan 1, 2026 → May 19, 2026)". Below this, there are two tables: one for "Jason" (ROV) and one for "Sentry" (AUV). The Jason table shows 2 expeditions, 21 dives, an average max depth of -2,298 meters, 365 total dive hours, 298 total time on bottom hours, 17 average dive hours, and 14 average time on bottom hours. The Sentry table shows 1 expedition, 6 dives, an average max depth of -5,556 meters, 187 total dive hours, 160 total time on bottom hours, 31 average dive hours, and 27 average time on bottom hours.

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NDSF NATIONAL DEEP SUBMERGENCE FACILITY

ALVIN JASON SENTRY WAVEGLIDER DATA PLAN AN EXPEDITION NEWS & MEDIA

Vehicle Dive Stats

Select Time Range: Current Year (Jan 1, 2026 → May 19, 2026)

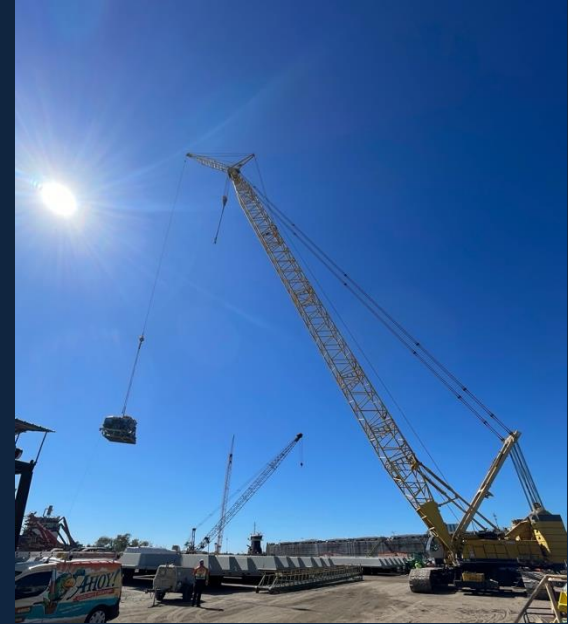
Jason	
Vehicle Type	ROV
Number of Expeditions	2
Number of Dives	21
Avg. Max Depth (meters)	-2,298
Total Dive Time (hours)	365
Total Time on Bottom (hours)	298
Avg. Dive Time (hours)	17
Avg. Time on Bottom (hours)	14

Sentry	
Vehicle Type	AUV
Number of Expeditions	1
Number of Dives	6
Avg. Max Depth (meters)	-5,556
Total Dive Time (hours)	187
Total Time on Bottom (hours)	160
Avg. Dive Time (hours)	31
Avg. Time on Bottom (hours)	27

Logistics

Logistics planning has been impacted by:

- delayed vessel schedule rollouts
- lack of significant logistics infrastructure in developing countries
- ocean freight carrier dependency



Appreciate the dedicated support
from ships/operators/schedulers
and our logistics team!



Staffing

- The (necessary) staggered publishing of 2026 schedules, along with last-minute changes to mobilizations, has made it difficult to get our staffing rolled out for the whole year at once
- The mROV development has also partially contributed to the situation
- Acknowledge this has made it challenging for PI's to finalize their own staffing plans in some cases, we are working as quickly as possible to resolve



System Issues

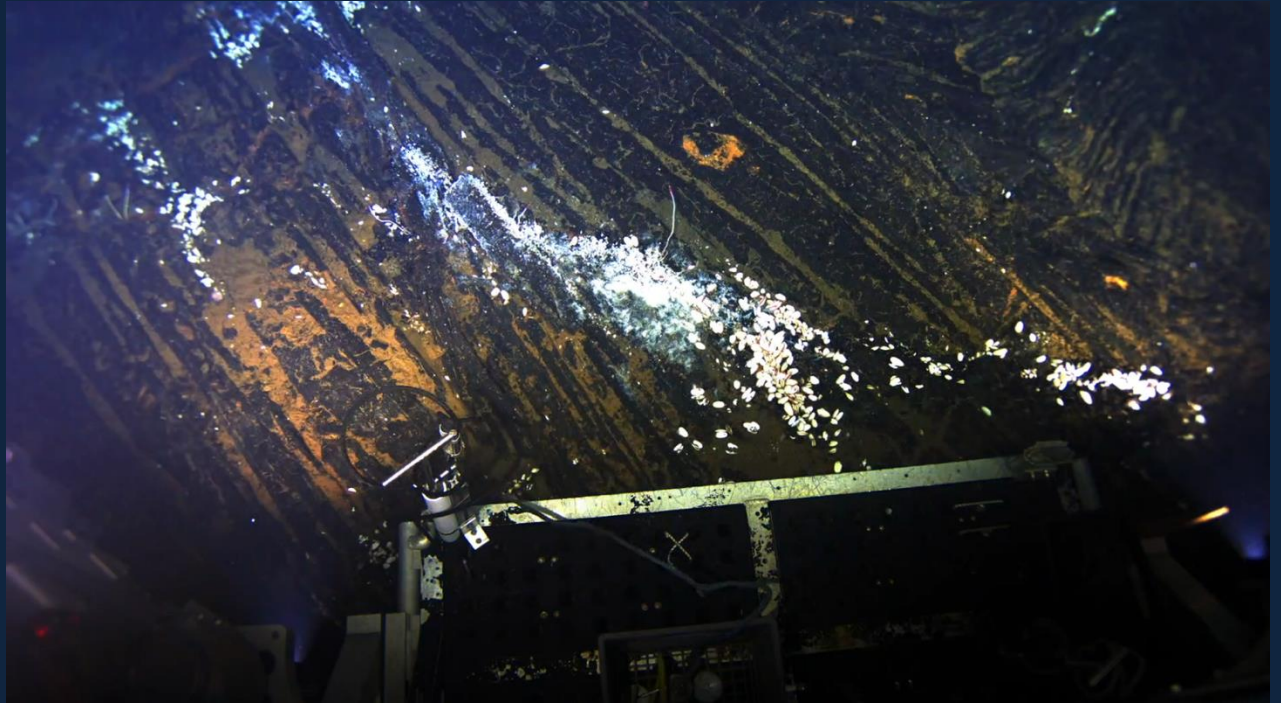
- Several unexpected vehicle power losses due to failing HV GFM card
- Blueview sonar failure, appears to be partially flooded
- Jason DP integration with TGT did not work, relied on calling moves to the bridge
- Swing arm function impacted by worn bushings and related components



Fixed Focus Camera Selected

Marine Imaging Technologies

- 24MP Fixed Focus
- Vehicle powered
- Ethernet comms
- Live view
- Intervalometer functionality
- Full resolution images captured internally or with topside software



Moving Forward

- Purchase in the works
- One camera plus cabling
- Possibly ready for late 2026 ops

Upcoming 2026/2027

- Heavy lift sled maintenance prior to Kelley
- Control van Jetway
 - Evaluation by vendor being scheduled soon to determine if permanently damaged or repairable
- Major RAPP Winch maintenance will start after Chadwick
 - Full tear down/mechanical overhaul
- Vehicle MP in winter 2027
 - Planning in development
- 2027 Schedule
 - Jason team is preparing to support interleaved Jason and mROV operations



JASON Personnel

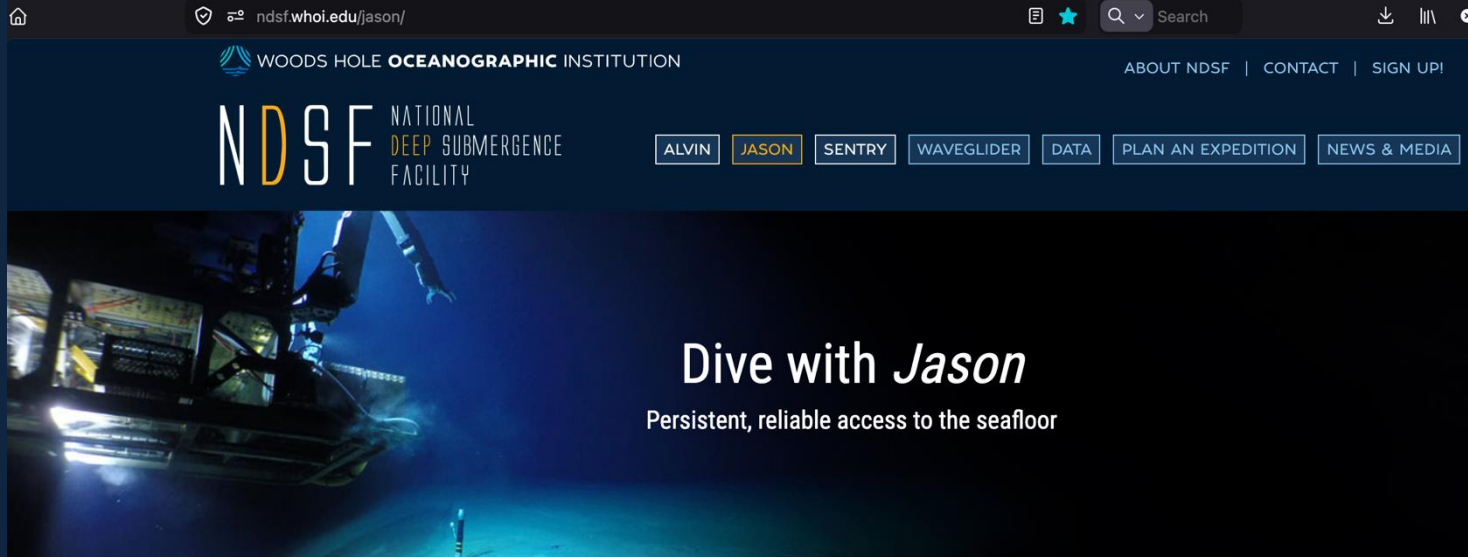
Fred Denton – Mechanical Engineer
Adam Ensminger – Electrical Engineer
Mario Fernandez – Expedition Leader/Mechanical Eng.
Chris Hadalton – Electrical Engineer
Peter Hall – Mechanic
Tim Joyce – Software Engineer
Chris Judge – Electrical/Expedition Leader
Kevin Kavanagh – Logistics
Ben Pietro – Logistics
Akeli Kevis-Sterling – Expedition Leader
Scotty McCue – Data Engineer
Jeremy Paulus – Mechanical Engineer
James Pelowski – Data Engineer
Hugh Popenoe – Electrical Engineer
Amanda Sutherland – Mechanical Engineer/Data
Ben Tradd – Expedition Leader/Mechanical
Tom Trudel – Mechanical Engineer
Isaac Vandor – Software Engineer
Korey Verhein – Electrical Engineer
Ronnie Whims – Mechanic



mROV Support

Jason Engineering and technical personnel continue supporting mROV development, which includes upcoming sea trials

ndsf.who.edu/jason



ROV JASON

- » [Team](#)
- » [Capabilities](#)
- » [Specifications](#)
- » [Systems, Sensors & Sampling](#)
- » [User Supplied Equipment](#)
- » [Data](#)

ROV Jason

Jason is a remotely operated vehicle (ROV) system designed and built by WHOI's Deep Submergence Laboratory and funded by the National Science Foundation to allow scientists to have access to the seafloor without leaving the deck of a ship.

Jason can be operated as either a two-body or a single-body ROV, depending on mission requirements. A 10-kilometer (6-mile) reinforced fiber-optic cable delivers electrical power and commands from the ship to the vehicle, which then returns data and live video imagery throughout a multi-day dive.

Jason Dive Stats

Vehicle Type	ROV
Number of Expeditions	154
Number of Dives	1,760
Avg. Max Depth (meters)	-1,748
Total Dive Time (hours)	25,111
Total Time on Bottom (hours)	20,326

