

NDSF Jason Update

N D S F

NATIONAL
DEEP SUBMERGENCE
FACILITY



JASON Ops Summary



2025 Review

- **69 lowerings, 414h03m in-water, 292h54m on-bottom**
- **J. Potemra, SKQ202508S, ACO**
- **T. Frank, AR89, Lucky Strike**
- **D. Kelley, AT50-41, Axial/OOI**
- **K. Dorgan, SR2524, CA Seabed**

JASON Personnel Update

SUPPORT PERSONNEL

Fred Denton – Mechanical Engineer

Adam Ensminger – Electrical Engineer

Mario Fernandez – Expedition Leader/Mechanical Engineer

Chris Hadalton – Electrical Engineer

Tim Joyce – Software Engineer

Chris Judge – Electrical/Expedition Leader

Kevin Kavanagh – Logistics

Ben Pietro – Logistics

Akel 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

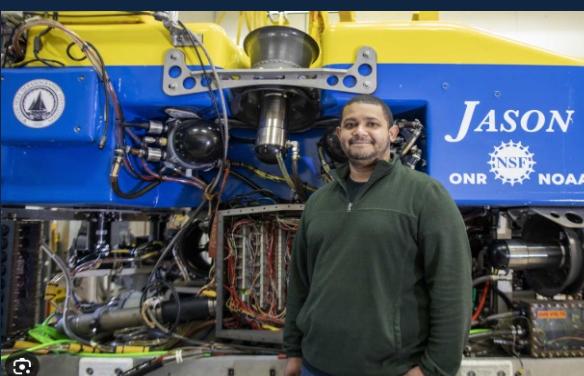
Tom Trudel – Mechanical Engineer

Isaac Vandor – Software Engineer

Korey Verhein – Electrical Engineer

Ronnie Whims – Mechanic

Retired: Tito Collasius (July 2025)



MROV Support

- Jason Engineering and technical personnel supporting mROV project

Jason Management

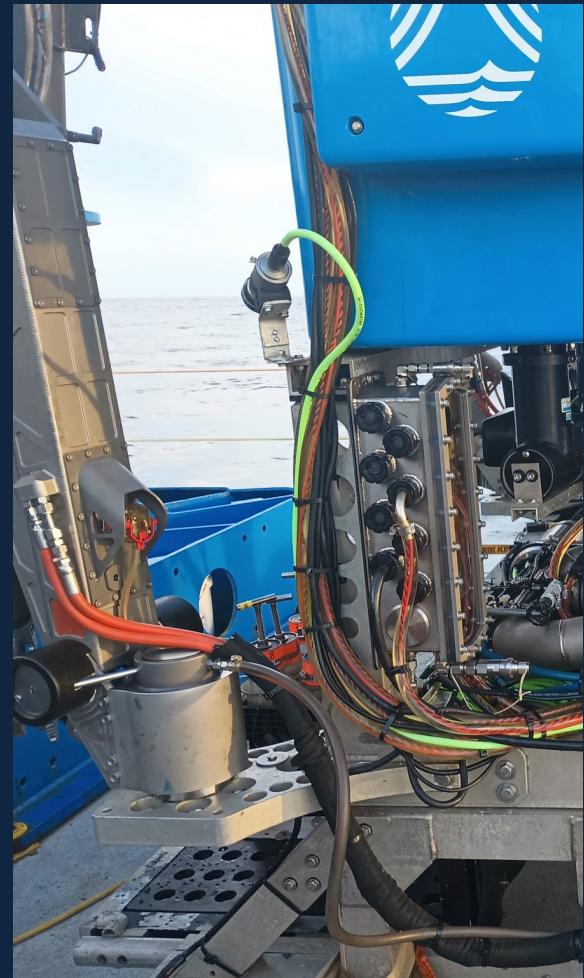
- Matt Heintz retired January 2025
- Chris Taylor has taken the role as Jason Group leader

JASON Debriefs

- **Sikuliaq/Potemra**
 - Had cable termination and unexpected power system issues which delayed leaving port, then weathered out
 - Had to use 2-body mode due to ACO depth, this itself was not a weather-related limitation
- **Salley Ride/Dorgan**
 - Limited berthing, Tina to discuss potential to reduce sci watch standers from 3 to 2
 - Crowded back deck
 - USBL Navigation, initial struggles with HIPAP system and DP control from the van
- **Lasers**
 - We have two sets, one set was at WHOI for pressure test and calibration

JASON Maintenance/Updates

- **Before Frank**
 - Replaced topside Jason transformer in control van
- **Before Kelley**
 - Serviced heavy lift sled
 - Replaced aux science jboxes on vehicle
 - Installed pressure tolerant Ethernet switch in aux jbox
- **After Kelley (Control vans only)**
 - Control van exterior metal work
 - Router replacement and other data systems maintenance
 - Control van jetway repairs performed
- **RAPP 843 cable was lubricated near the end of Dorgan**



Fixed Focus Camera Update

Possible camera selection determined

Marine Imaging Technologies (MIT)

- 24MP Fixed Focus
- Vehicle powered
- Ethernet comms
- Live view
- 6500m rated
- Full resolution images captured internally or with topside software
- Option for battery powered autonomous operation
- Small form factor housing
 - 4 in wide x 11 in long



Further Evaluation on Kelley

- No integration issues
- Essentially plug and play with Jason's Ethernet Telemetry
- Seawater leak (via BH conn) occurred, was fixed but limited test time
- Provided good imagery
- Some camera settings and vehicle positioning need dialing in
- Next steps
 - Evaluate collected imagery
 - Review plan fwd, further testing/implementation

Fixed Focus Camera Update



WHOI NQSF Update

- WHOI capital investment in test tower for East Coast Winch Pool to load test winches
- Design scope expanded to also support load testing with Jason RAPP winch
- Allows load testing without having to use the NPC crane
- 20,000 SWL capable



- Major RAPP Winch maintenance is being reviewed for 2026
- Working out testing of control van Jetway
- UFO, looking at pump alternatives (down to 1 pelagic pump)
- Pre-cruise planning process, bringing pre-cruise checklist more clearly into process (PCAR '24)
- Schedule
 - Chave, Atlantis, EPR
 - LIBS, Rapid Response, Endurance Energy
 - Beinart, Thompson, Vent Snail Adaptation
 - Zumberge/Wilcock, Revelle, COSZO/Seafloor Optical
 - Chadwick & Co., Revelle, Axial
 - Additional cruises also being worked on by scheduler

