

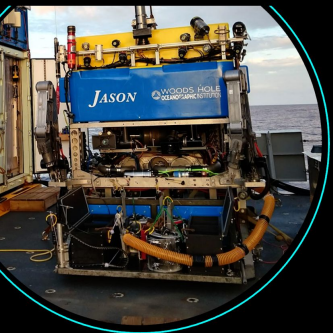
DeSSC New User Program (NUP):

Facilitate the success of Deep-Submergence early career researchers

Program Goals:

- 1) Demystify the process (proposal through post cruise) of accessing and using the nations deep-submergence assets
- 2) Encourage new users to reach out to operators and programs early and often
- 3) Excite early career scientists about deep-sea research
- 4) Connect new users to the diversity of groups that can fund their research or support their research
- 5) Increase the efficiency of new PIs and Chief Scientists
- 6) Welcome all researchers into the best scientific community

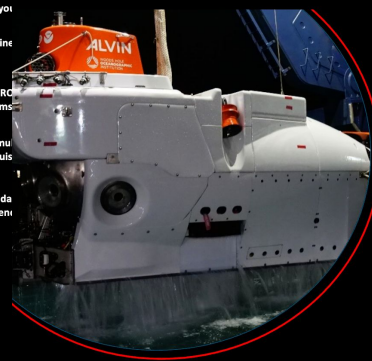




Jason is a remotely operated vehicle (ROV) system designed and built by WHOI's Deep Submergence Laboratory and funded by the National Science Foundation to allow scientists to have access to the seafloor without leaving the deck of a ship.

Matt Heintz - ROV Jason Program Manager

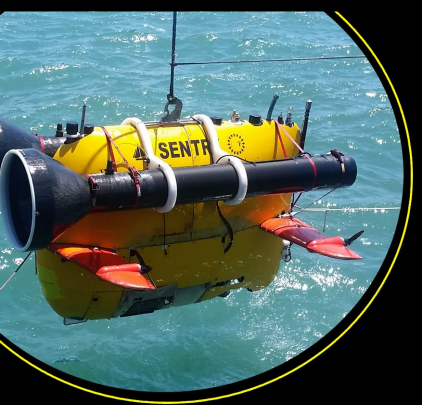
- 1 ROV's are dragging a ship along with them, making them slower moving than an untethered vehicle, this slower pace is more than made up for by working around the clock, i.e. longer dives are more efficient
- 2 ROV are more effective when they work 24-hour ops, use of elevators helps bring samples up while keeping the ROV down on long dives
- 3 Jason has done dives as long as 7 days and covered hundreds of km on a single dive
- 4 Jason brings 8-10 operators
- 5 Jason operators typically joined by 3 scientists, w.
- 6 When you learn that you
- 7 Start with a brief outline meetings to discuss
- 8 Include ROV and non ROV the ship in these comm
- 9 Make sure you have m that time into your cru
- 10 If integrating nonstanda requirements early, sen



6500m depth rated DSV, capable of large payloads with an extensive sensor and imaging suite. Missions last approx. 9 hours (avg 6 hrs on bottom).

Bruce Strickrott - DSV Alvin Program Manager

- 1 Connect with the Alvin Team to discuss your goals and objectives
- 2 Schedule multiple pre-cruise conversations with our team
- 3 Ask us for engineering guidance for new samplers or sensors
- 4 Every fifth dive of a voyage is a Pilot in Training dive (1 PIT seat)
- 5 Work with our team to obtain NAVY dive clearances
- 6 Deck test your samplers in sea water before the cruise
- 7 Work with our at-sea leads to prioritize your dive objectives
- 8 Maps for navigation need positional info (.gnd or corner locations)
- 9 Equipment used in-hull needs special testing
- 10 External equipment housings need special testing



6000m depth rated AUV, capable of large payloads with an extensive sensor suite. Missions last from 20 to 30 hours depending on payloads and sensor package. AUV Sentry is designed for rough terrain and low altitude surveys.

Sean Kelley - AUV Sentry Program Manager

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2023 NUP – Non Meeting Linked

1.5 day workshop for advanced NUP

At WHOI/NDSF

NDSF and WHOI heavily involved

NSF, NOAA, OET, SOI

Lectures by Scientist and operators

10 things you need to know

Post NUP Survey

Do you feel the interaction with the Vehicle operators were a significant benefit for this workshop?

100% Yes



“DeSSC has been one of the most welcoming and encouraging programs for early career scientists”

“You make new users feel very welcome + supported!”

“Thank you sooo much for this workshop, as a new user it has been empowering”

“I feel it is wonderful you are so open to new explorers/researchers & providing opportunities for their voices to be heard”

Meeting associated

- 1) 0.5 day workshop for New Users
- 2) Associated with Ocean Sciences or AGU (swap every year)
- 3) Followed by 1 day DeSSC Community Meeting
- 4) NDSF/Agency Reps/DeSSC
- 5) UNOLS/NSF covers travel costs
- 6) ~20 participants
- 7) Continue to interact throughout meeting week (informal)

