

SENTRY UPDATE

NDSE NATIONAL
DEEP SUBMERGENCE
FACILITY



OPERATIONS SUMMARY 2026

10 Dives	TN449	Tominaga	R/V Thompson	JQZ
5 Cruises	TN452	Beinart	R/V Thompson	Tonga[w/JASON]
159 Ops days	NA180	Mariana-I	E/V Nautilus	Mariana trench
120 h of Survey	NA181	Mariana-II	E/V Nautilus	Mariana trench
	RR2609	Chadwick	R/V Revelle	Axial



LIFETIME STATS

801 Dives
84 Cruises
23,511 Km coverage
10k Hours in the water



2026 OPERATIONS HIGHLIGHTS

Gravimeter integration - First time collecting deep gravimeter data at 5500m

Shipping challenges from Cape Verde to Guam

5500m Depth operations on tominaga

30-36h dives on Tominaga cruise

SyPRID sampler re-integration and collections at Lau Basin



ENGINEERING UPDATES



- Mission controller dev
- Maintenance Period
- Motor Controller Error handling
- Battery housing fabrication
- Foam replacement
- Servo dev
- Thruster 6km Updates and testing (**PCAR 2024**)
- Wireless hardware replacement
- Water Column Driver (**PCAR 2024**)
- Documentation updates (**PCAR 2025**)

SENTRY STAFFING

SUPPORT PERSONNEL

- Sean Kelley – Program Manager
- Justin Fujii – Mechanical Engineer
- Zac Berkowitz – Electrical Engineer
- Matt Silvia – Mechanical Engineer
- Mike Skowronski – Electrical Engineer
- Renee Gruner-Mitchell – Mechanical Engineer
- Isaac Vandor – Software Engineer
- Tim Joyce – Software Engineer
- Chris Thierauf – Software Engineer
- Allisa Dalpe – Software Engineer
- Noah Bourassa – Mechanical Engineer

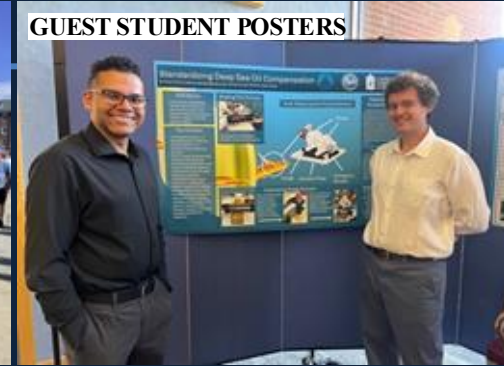
GUEST STUDENTS & INTERNS

- Mardann Philemon (UMD) – Spring 2026 (Blue Econ.)
- Charlotte Stieve (NEU) – SPRING 2026 (CO-OP)

WHOI SCIENCE STROLL



GUEST STUDENT POSTERS



JHU TEST TANK

