

RCRV Project Update for RVOC

NSP

Daryl Swensen, Transition to Operations Coordinator, 01 May 2024







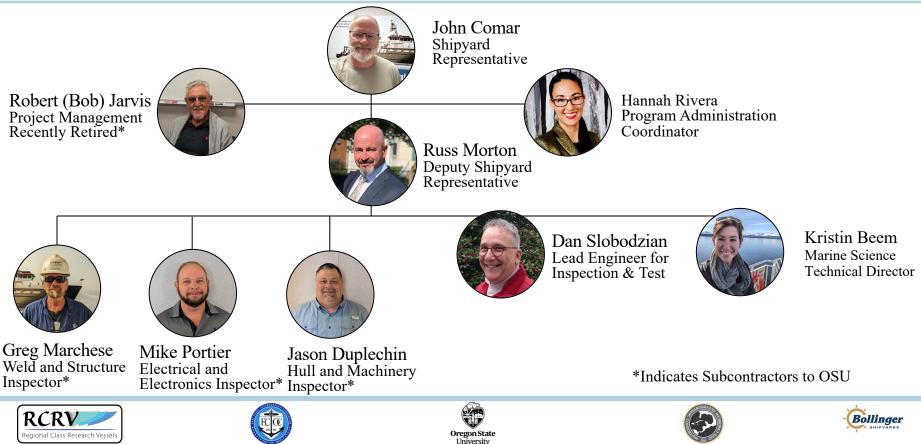








Regional Class Research Vessel -Project Field Office- Bollinger Shipyard- Houma, LA





Regional Class Research Vessel Transition to Operations Phase IV



Daryl Swensen Transition to Ops. Coordinator



Chris Romsos Datapresence Systems Engineer



Jasmine Nahorniak Assistant Datapresence Systems Engineer



2

James Caison Design Specialist



Don Hilliard Fleet Engineer



Yvan Alleau Logistics Specialist



7

Kris Saathoff Buyer

TBD: Position Open Data Systems Specialist











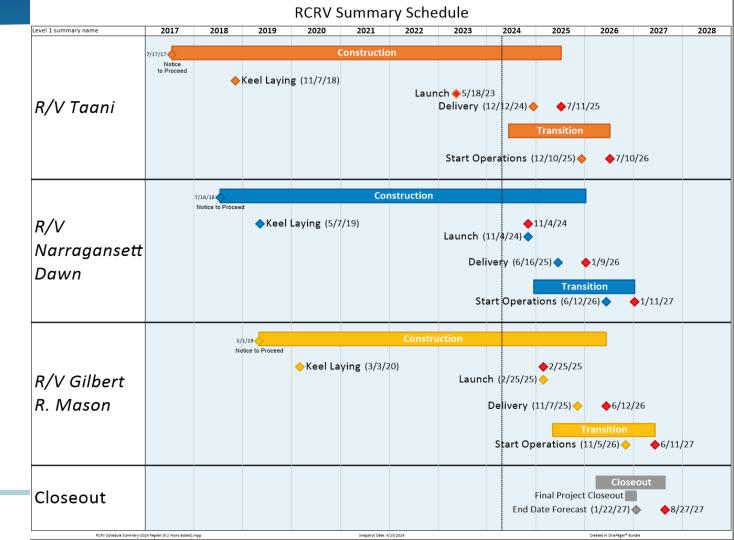


Shipyard Baseline Schedule

Estimated Schedule Delivery

R/V Taani 07/11/2025 R/V Narragansett Dawn 01/09/2026 R/V Gilbert R. Mason 06/12/2026







Vessel Updates



















- Launch June 2023
- Subcontractor Work
 - Wiring, Insulation, Painting
- Pipe Flushing
- Insulation and Joiner Work
- OHS equipment installation and alignment
- Wire Pulling
 - o 157 km of cable required
 - o 25% Completed
- Misc. Paint Work











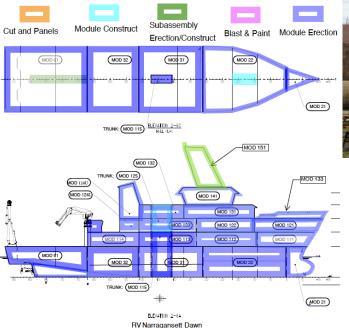




R/V Narragansett Dawn



- March 2024
 - Superstructure Erected to Hull
- Sonar Flat Assembly
- Preparation for Z-Drive Installation
 - Week of (04/29)
- Piping Work Various Modules
- Outfitting Ongoing Various
 Modules
- Painting Work
- Aluminum Centerboard Blast and Paint
- OHS Equipment Delivered











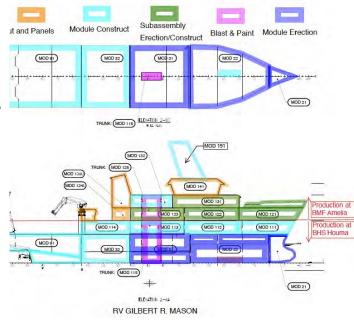






R/V Gilbert R. Mason

- Welding Work and Module Assembly
- Modules In Cut and Panel
- Aluminum Centerboard Blast and Paint
- Piping Work Various Modules
- Outfitting Ongoing Various Modules
- Painting Work
- Aluminum Centerboard Blast and Paint
- OHS Equipment Delivered

















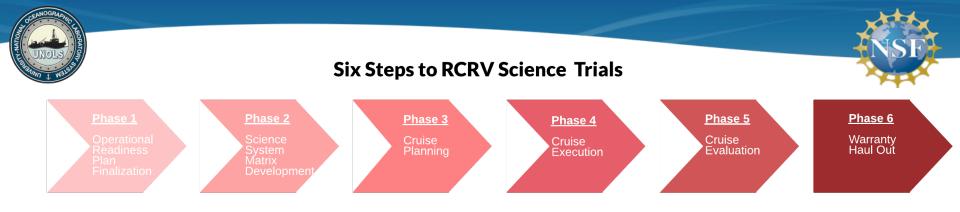
Phase IV Activities

- High Level Activities and Milestones
 - Crew Hiring, Orientation and Training
 - Post-Delivery Outfitting
 - Vessel Familiarization
 - Transit to Home Port
 - Operation and Science Trials
 - Warranty Haul-out
 - NSF Inspection
 - Start of Operations





| TaskName | Start Date | End Date | Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Cet Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Apr May Jun Jul Aug Sep Oct Nov Dec Jan Apr May Jun Jul Aug Sep Oct Nov Dec Jan Apr May Jun Jul Aug Sep Sep Jun Jul Aug Jun Jul Apr Jun Jun |
|--|------------|----------|--|
| R/V Taani Transition to Operations | 12/27/24 | 07/13/26 | |
| Start of Transition to Operations | 12/27/24 | 12/27/24 | |
| Pre-Delivery Support | 12/27/24 | 07/10/25 | |
| Engineer, Mate and Technician at Shipyard Office | 12/27/24 | 12/27/24 | |
| Crew Readiness | 12/27/24 | 07/10/25 | |
| Engineer, Mate and Technician for Inspection and Familiarization | 12/27/24 | 07/08/25 | |
| Full Crew Complement Hired | 03/27/25 | 03/27/25 | |
| New Crew Orientation and Training | 03/27/25 | 05/22/25 | |
| Crew to Shipyard Office | 05/22/25 | 05/22/25 | |
| OSU Crew at Shipyard Office for Familiarization and Training | 05/23/25 | 07/10/25 | |
| Delivery | 07/11/25 | 07/11/25 | |
| Outfitting, Operator and Science Trials | 07/11/25 | 07/13/26 | |
| Post Delivery Outfitting and Crew Familiarization at Shipyard | 07/11/25 | 09/04/25 | |
| Outfitting at BHS | 07/11/25 | 08/21/25 | |
| Crew Familiarization from Deep Water Access Dock | 08/22/25 | 09/04/25 | |
| Transit to Newport, Oregon | 09/05/25 | 10/02/25 | |
| Deepwater Trials #1 TA2403A | 09/05/25 | 10/02/25 | |
| Acoustic Testing | 09/05/25 | 09/22/25 | |
| Port Stop Puerto Rico | 09/23/25 | 09/25/25 | |
| OHS Testing | 09/26/25 | 10/02/25 | |
| Transit to Homeport TA2404A | 10/03/25 | 11/04/25 | |
| Home Port Arrival | 11/04/25 | 11/04/25 | |
| Home Port Ceremonies | 11/05/25 | 11/18/25 | |
| Vessel Cleanup and Preparation | 11/05/25 | 11/11/25 | |
| Official Ceremonies | 11/12/25 | 11/18/25 | |
| Local Outfitting, Operator and Science Trials | 11/19/25 | 04/28/26 | |
| Outfitting at Home Port | 11/19/25 | 12/30/25 | |
| Operator and Science Trials | 12/31/25 | 04/28/26 | |
| General Operations #1 TA2407A | 12/31/25 | 01/13/26 | |
| Shoreside Preparation | 01/14/26 | 01/20/26 | |
| Science #1 Physical TA2408A | 01/21/26 | 02/03/26 | |
| Shoreside Preparation | 02/04/26 | 02/10/26 | |
| Science #2 Biological TA2408B | 02/11/26 | 02/24/26 | |
| Shoreside Preparation | 02/25/26 | 03/03/26 | |
| Science #3 Chemical TA2409A | 03/04/26 | 03/17/26 | |
| Shoreside Preparation | 03/18/26 | 03/24/26 | |
| Science #4 Geological TA2410A Shoreside Preparation | 03/25/26 | 04/07/26 | |
| Science #5 Education TA2410B | 04/08/26 | 04/14/26 | |
| | 04/13/26 | 07/13/26 | |
| Warranty Haulout, and NSF Inspection | 04/29/26 | 05/05/26 | |
| Preparation for Shipyard | 05/06/26 | 05/05/26 | |
| Transit to Shipyard | 05/06/26 | 06/02/26 | |
| Warranty Haulout | 06/03/26 | 06/09/26 | |
| Transit from Shipyard Dockside Preparation for NSF Inspection | 06/03/26 | 06/09/26 | |
| NSF Inspection | 06/10/26 | 06/23/26 | |
| Final Dockside Preparation for Operations | 06/24/26 | 07/13/26 | |
| | 07/13/26 | 07/13/26 | |
| Start of Operations | 01113/20 | 01113/26 | |



- Operations and Science Trials Matrix
- Crew and Marine Technician training and familiarizations with vessel(s)
 - \circ 2-3 extra crew before ACCU
- Testing and baseline verification of vessel systems, science mission equipment and sensors
- At sea cruise testing for planning, operations, documentation and efficiency prior to funded science.
- Identify warranty deficiencies, regional differences and vessel enhancements.
- Warranty haul-out punch list.





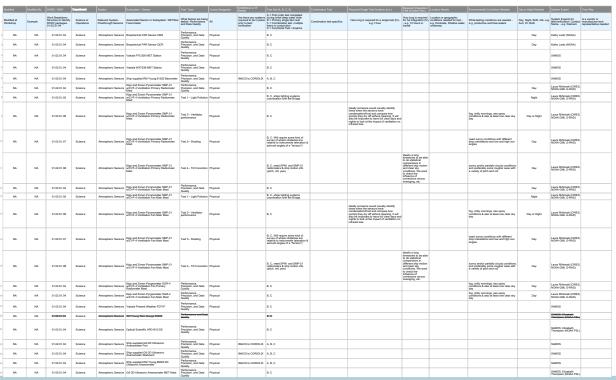








Opps and Sci Trials Matrix Combined (RevC)











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University



Operation and Science Trials

| Trials Cruise | Operations and Science Focus Areas | Days (MOB & Sea)* | Ports | Chief Scientist(s)/ Lead MarTech | Expert Support |
|--|--|-------------------------|--|--|---|
| Deepwater Trials Leg#1 | EM2024 & EM304 patch tests, ADCP speed testing and centerboard position effects, noise monitoring, and sonar performance, bubble sweep-down | 12 | Gulfport to San Juan, Puerto Rico | Ethan Roth/ Emily Shimada | J. <u>Hummon</u> (ADCP), MAC, J. Beeson, KUTI, MacGregor |
| Deepwater Trials Leg#2 | Deep-water OHS equipment (hydrographic and ocean winches, portable and main A-frames, spooling 6 km, auto features), TOPAS, USBL | 8 | San Juan to San Juan, Puerto Rico | Ethan Roth/ Emily Shimada | J. Beeson, MacGregor tech, MarTechs |
| Transit to Homeport | Satellite comms, anti-roll tank tuning, workboat, atmospheric and flow-through sensors, CTD/rosette, <u>datapresence</u> (CORIOLIX) | 23 | San Juan to Panama City to Newport | Maureen Conte/ Brandon <u>D'Andrea</u> | C. Reimers, C. Romsos, MarTechs |
| General Operations | Crew training, in port winch spoil swapping, centerboard sensor swap, van integration, crane operations, docking, safety and emergency drills | 10 | Newport to Newport | William Fanning/ Brandon <u>D'Andrea</u> | Additional Crew and MarTechs |
| Science #1- Physical | Regional validation and intercalibration of atmospheric and flow-through sensors, ADCP, T-chain towing, dynamic positioning, marine mammal observations | 15 | Newport to Newport | Jack Barth/ Emily Shimada | NOAA and SAMOS, MMI? |
| Science #2- Biological | EK-80 validation, towing of different net systems including MOCHNESS, ISIS, sample collection work flow, science freezers and refrigerators, Hazmat, incubator pumps | 15 | Newport to Newport | Carin <u>Ashjian</u> , Maria Kavanaugh/ Sam Richardson | EK-80 Expert |
| Science #3- Chemical | Over-boarding of OOI equipment (e.g., AUVs, gliders, small moorings), operate all ship sensors over transects, use lab vans, fume hoods, CTD and discrete sample collections | 15 | Newport to Newport | lan Black and Tyler Peterson | J. <u>Fram</u> , OOI Techs, K. Buck |
| Science #4- Geological | Multiple van integration, maximum science loading, synthetic tension members, PCDRM installation, piston coring, <u>multicoring</u> , multibeam data collection, EM 712 on transducer pole | 20 | Newport to Newport | Mo Walczak, Jeff Beeson/ Sam Richardson | Allied Technicians, MARSSAM |
| Science #5- Education & Outreach | Small ROV operations, Telepresence, USBL, Personnel van integration, public tours | 10 | Newport to Newport | Andrew Thurber, Tracy Crews/ Tyler Peterson | ROV support team, D. Coleman (URI) |

*Phase IV Schedule – will be adjusted based on final cruise plans





SAMOS





AM

MMIT



Webcam 01 Webcam 02 Webcam 03 Webcam 04 Webcam 05 Webcam 06 Webcam 08

RVOC Update

Regional Class Research Vessel Program- Oregon State University

May 01, 2024