



SCHMIDT



OCEAN
INSTITUTE

R/V FALKOR (too)

2025 UNOLS RVOC Update

Operations



Operations

- 8 science cruises
 - 254 days at sea for science
 - 216,000 square kilometers seafloor mapped
 - 141 ROV dives
 - 7 square kilometers mapped with the ROV
 - 204 science party members
- 30 *countries*
- 114 *institutions*
- 46% *regional*
- 51% *women*
- 4/4 *men/women CSs*



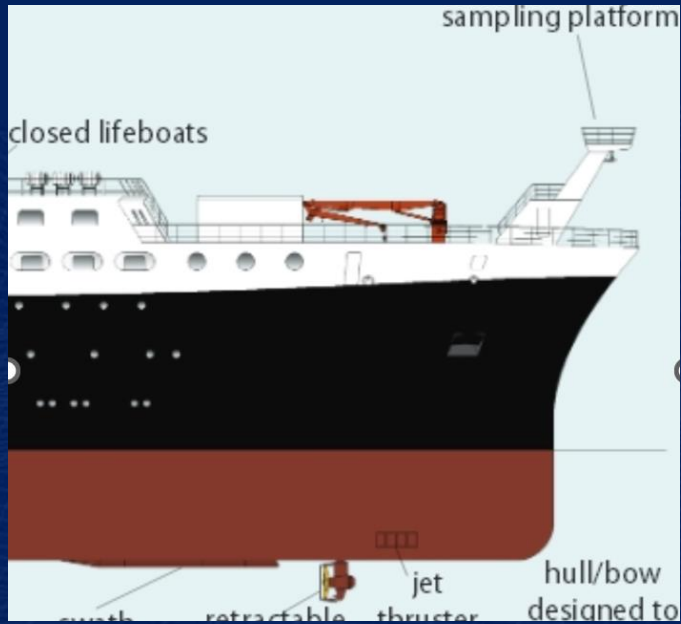
Technical

Bow – modification to “science bow”

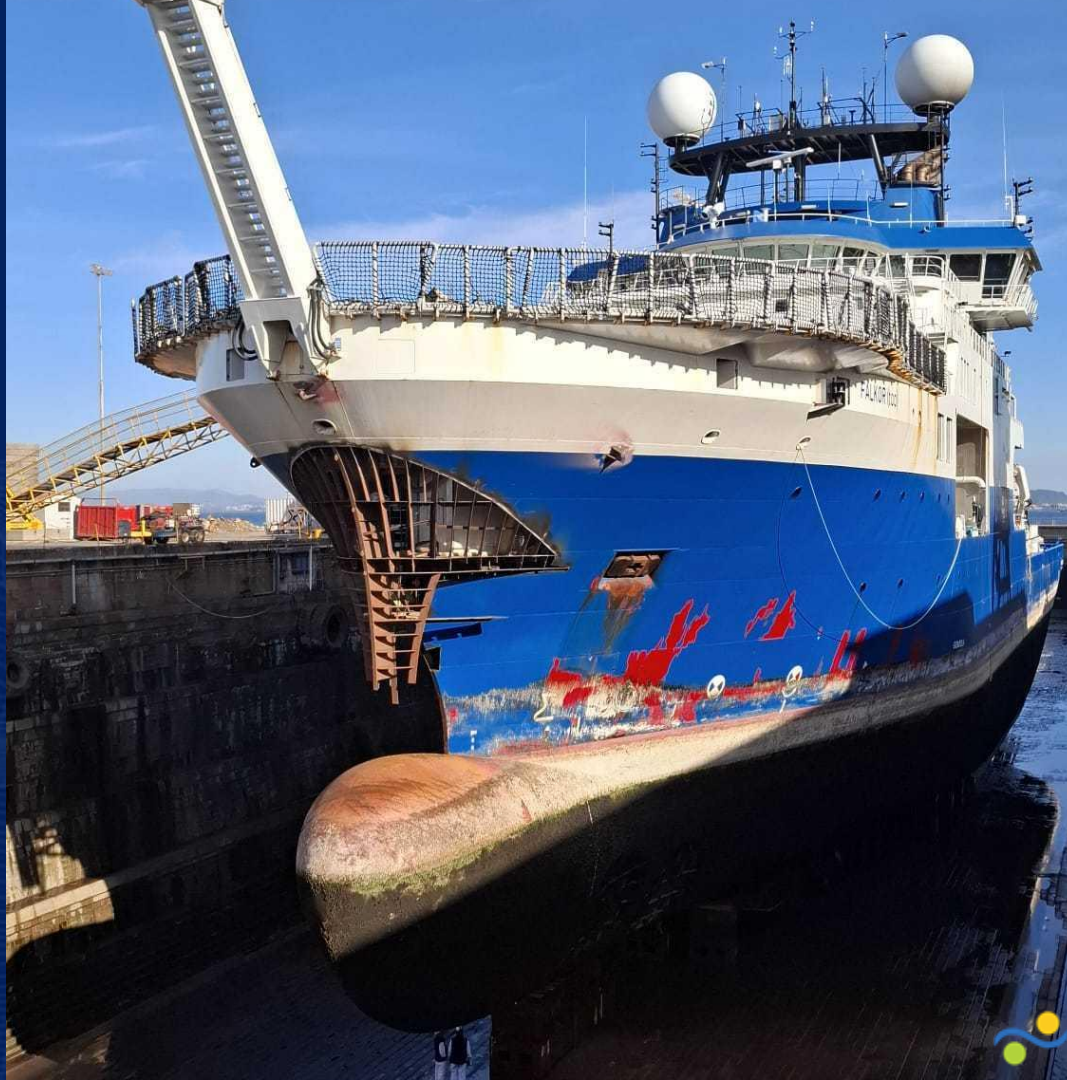


Technical

RRS *Discovery*'s “science bow”



Technical ASMAR Shipyard Talcahuano, Chile



Safety & Medical

- **Emergency Room Doctor**
Contractor for high-risk cruises
- **Wilderness First Responder Course**
Deck Officers
- **Remote Support**
RRS Sir David Attenborough



Safety & Medical

- Remote Support

RRS Sir David Attenborough



New Stuff

- Satellite Comms

Starlink High Performance (x4)

\$30,000/mo - unlimited MB



OneWeb (x1)

\$15,000/mo - unlimited MB



VSAT (x2)

\$5,000/mo - 2MB



New Stuff

- Liquid Nitrogen Generator

F-DGSi CRYOGEN.10-RA
(air cooled)

nitrogen gas cooled to -196°C to
produce liquid nitrogen

10L per day



New Stuff

ROV – *Blue Robotics “BlueROV2”*



New Stuff

- AUV

Kongsberg HUGIN Superior 6000



Software Tools

- Hours of Rest
workrest
- Fuel Savings & Predictive/Preventative Maintenance
ioCurrents
- Wire Log
Unisea
- Shipyard Planning
Maindeck (Unisea)
- Cruise Planning
MFP



New Initiatives



12 MARCH 2025

Schmidt Ocean Institute, a key player in ocean exploration

This non-profit organization supports ocean research and exploration with advanced technology, pioneering research, and open knowledge sharing.



New Initiatives

ISO 27001

Information Security Management System
DNV GL

Einhorn Engineering

Maximum Capability Documents
Lifting Appliance Inspections



Permits



Permits

- Peru
denied & detained
- UK / Argentina / US
unintended trifecta
- Chile
a sick Admiral, but the Observer sailed anyway
- Antarctica
challenging process



People



People

- Ship

37 Crew (x2) - 21 Countries

ROV Pilots (x4 FTE)

- Shore new positions

Port Captain

Procurement & Logistics Specialist

Deputy IT Manager

Artist-at-Sea Manager

+ Mechanical Engineer

+ Data Solutions Engineering



Crew Benefits

- “Green Benefit” EV/hybrid car purchase or lease
\$10,000 (every 4 years)
- Continuing Education
\$3,000 (annual)
- Fly Anywhere
- New York Times
all digital access



Outreach





In the Frost Planetarium



NAUTILUS & UNESCO ARTIST AT SEA SCHMIDT OCEAN INSTITUTE

In the vast expanse of our blue planet,
artists and scientists emerge
as interlocking, vibrant shapes to connect
the mysteries of our Ocean.
Their vision illuminates, enabling
us to preserve our world
through renewed forces.

The Schmidt Ocean Institute stands
at the forefront of this mission,
bridging the artists with the analytical.
Because their research reveals what we need,
they create a unique confluence
of pioneering marine scientists
and visionary artists.

NAUTILUS & UNESCO
at
THE PHILIP AND BETICA RAU
MUSEUM OF SCIENCE
ON ALEXANDER WALK OF THE
Artist at Sea Exhibit
at
First Science
and Conference
The Blue Paradox
in the First Planetarium



One
Ocean

Seven
Continents



One
Decade

Seven
Topics





Now accepting **Expressions of Interest** for 2027+

<https://schmidtocean.org/apply/>

