

NI Azores Ocean

"This multidisciplinary scientific research vessel aims to provide the Region with a technological platform for accessing the deep sea of the central North-East Atlantic, with particular focus on the Exclusive Economic Zone of the Archipelago."

President of the Regional Government of the Azores, José Manuel Bolieiro, June 28th, 2023



Vision

Ensure the best possible conditions for scientific research, leading to the acquisition of more and better scientific knowledge, enabling the creation of opportunities and securing a truly future-oriented economy through the promotion of the sustainable use of the oceans.

Ambition

- Multipurpose vessel, designed as a Taylor-made project, establishing itself as the benchmark for national maritime scientific research;
- Advanced standards and technological resources;
- High energy efficiency (IMO Tier III);
- Integrated information environment (Kongsberg standard);
- Permanent broadband data reception, processing, and transmission capabilities;
- Operational capacity for ROVs, AUVs, trawling (fisheries biology), and equipment deployment/recovery.

Crew



12 Crew members



10 Scientists

Equipment

- Information Management System - Kongsberg Geomatics;
- Synchronization System -Kongsberg K-SYNC;
- Scientific Sonar - Kongsberg EK80 18, 38, 70, 120, 200, 333 kHz, ADCP 150 kHz, WBAT 38, 70, 200 e 333 kHz;
- Sonar - Kongsberg SU90;
- Multibeam probe (10 m a 7000 m) - Kongsberg EM304 (1x1);
- Multibeam Probe (10 m a 500 m) - Kongsberg EM2040 MKII;
- Substrate Profiler - Kongsberg TOPAS PS18;
- Acoustic Positioning - Kongsberg HiPAP 502;
- Attitude Sensors -SEAPATH 380/R3;
- Trawl Net Monitoring System with Sonar - Kongsberg PX/TV80 e FX80;
- Automatic Water Sampling System - FERRYBOX;
- Meteorological Station -VAISALA.

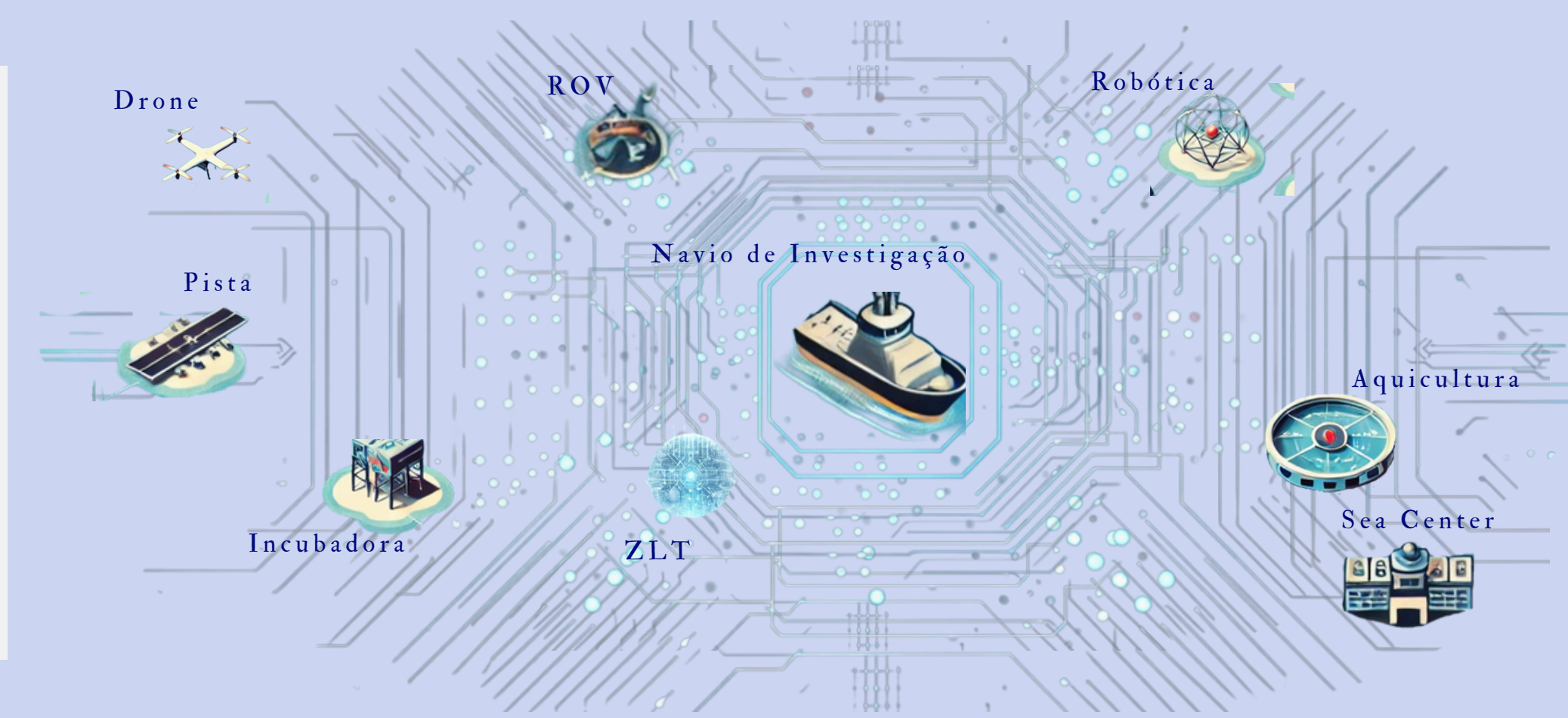
Capabilities

- Operational autonomy up to 4,000 miles / 15 days of operation;
- State-of-the-art diesel-electric propulsion (less 90% NOx);
- High-resolution mapping and bathymetry, up to 5,000 m depth;
- Prospecting, monitoring and biological exploration with superior quality;
- Collaboration in the formation of maritime and scientific assets;
- Accommodation capacity with cabins for maximum capacity (30), classrooms, laboratories (dry and wet) and data center, integrated with a communications system;
- Missions to support the entire spectrum of the Blue Economy - maritime archaeology, renewable energy, submarine cables, aquaculture, diving, among others.

NI Azores Ocean

"The vessel will operate, equipped to the highest level in the technological field, and will serve a purpose beyond just the Azores Sea, becoming a 'true asset for the entire country'."

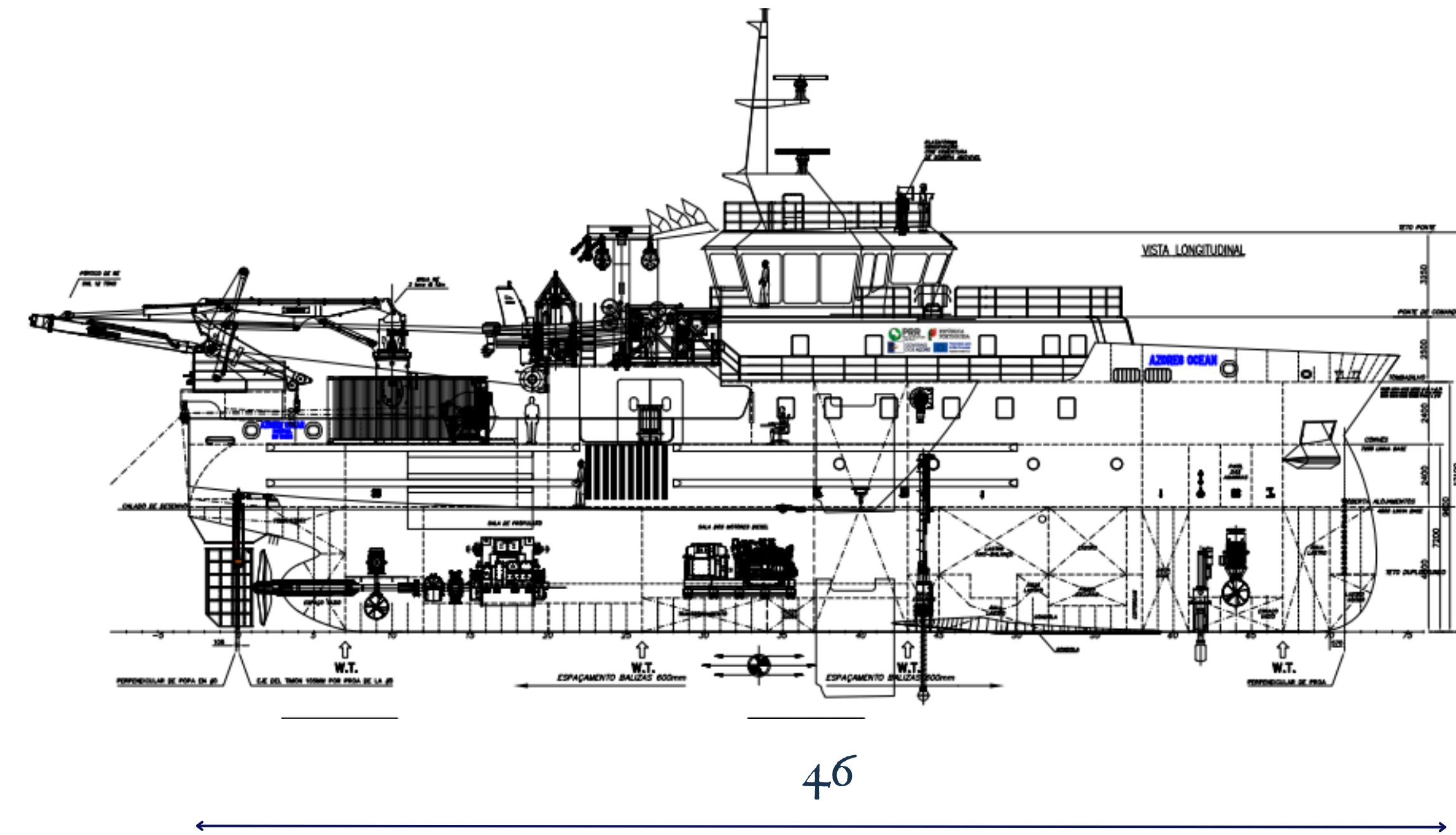
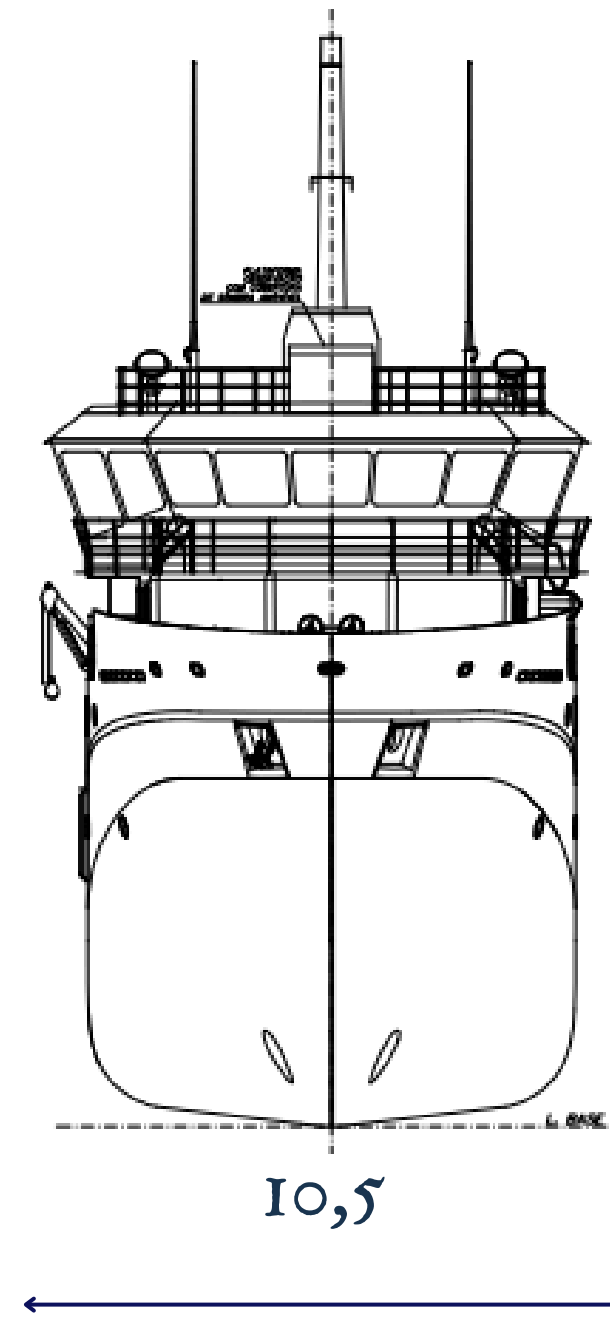
Regional Secretary for the Sea and Fisheries, Mário Rui Pinho



Class

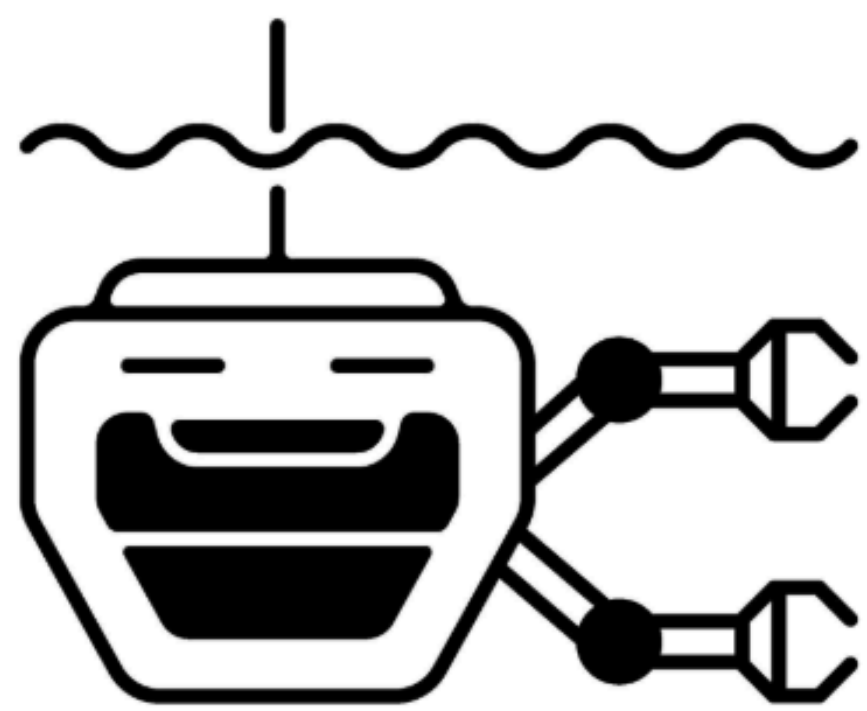
Bv Class

I Hull Mach, Special Service-Research Vessel, Unrestricted Navigation, Dynapos Sam, Aut-ums, Mon-Shaft, Cleanship Inwatersurvey, Greenpassport EU, Comf-Noise 2, ComfVib 2, Smart, Internal Conectivity



Modules

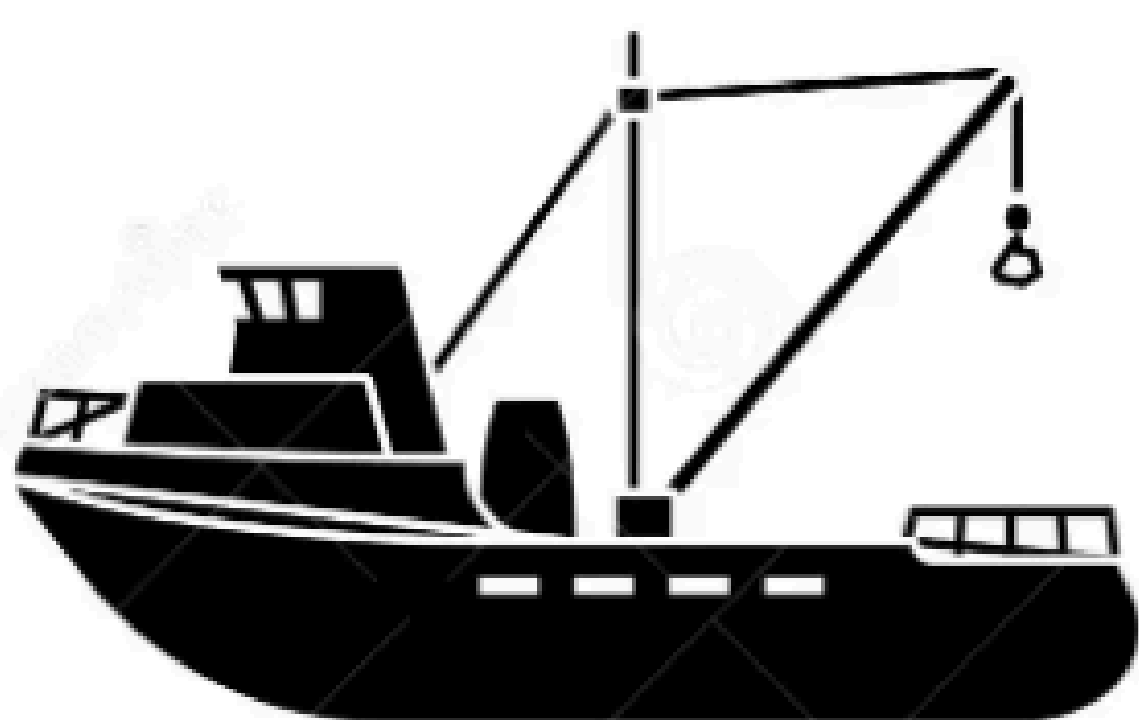
ROV



- Observe the seafloor, fauna, habitats and the interactions between them up to 3,000 metres;
- Selectively collect geological samples from the seafloor and gather information through sampling and inventory.

Purpose: study and protect the marine environment, ecosystems, biodiversity and other natural resources, both living and non-living, promoting the "good environmental status".

Trawl



- Increase scientific research focused on mesopelagic and bathypelagic ecosystems (water column between 200 and 1000 m, and between 1000 and 3000 m)

Purpose: study key environments in the functioning of oceanic ecosystems, through the collection of essential information on the biology and ecology of organisms, contributing to their better conservation and the sustainable management of marine resources.



Regional Secretariat for the Sea and Fisheries



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