



*Instituto de Fomento Pesquero
Departamento de Operaciones Marinas*

IRSO 2024

Operation of Research Vessels in the South Pacific, Chile





About Us

Public Technological Institute of Applied Science

Instituto de Fomento Pesquero IFOP , Chile.



30 Offices

640
Profesionales

MISSION Generate applied scientific investigation of excellence by providing knowledge and information to advise the State's decision-making, contributing to the sustainability of fishing, aquaculture, and marine ecosystems.

VISION To be nationally and internationally recognized as a guarantor and technical reference in fisheries and aquaculture research applied to the sustainable use of aquatic resources and their ecosystems.

Strategic Objectives

- Generate and provide scientific knowledge and information.
- Ensure the dissemination, support, and quality of information.
- Provide technical and professional support in fishing and aquaculture.



Our work applied research

**FISHERIES INVESTIGATION
DIVISION**

- *Oceanography and environment*
- *Direct evaluations*
- *Fisheries evaluation*
- *Resource evaluation*
- *Sampling management*

**AQUACULTURE
INVESTIGATION DIVISION**

- *Hidriobiological health*
- *Repopulation*
- *Environment*
- *Experimental centers*



R/V Dra. Barbieri



R/V Abate Molina

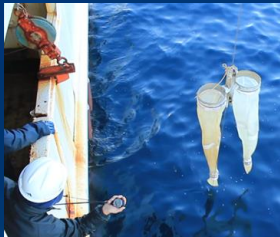
Since 1964



How we work *Marine Operations Department R/V*

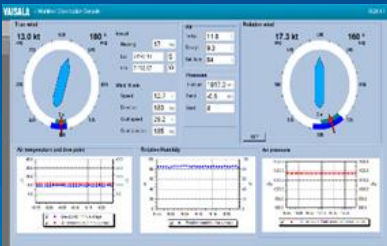
MAIN ACTIVITIES

Plankton



Fishing and direct sampling

Meteorology



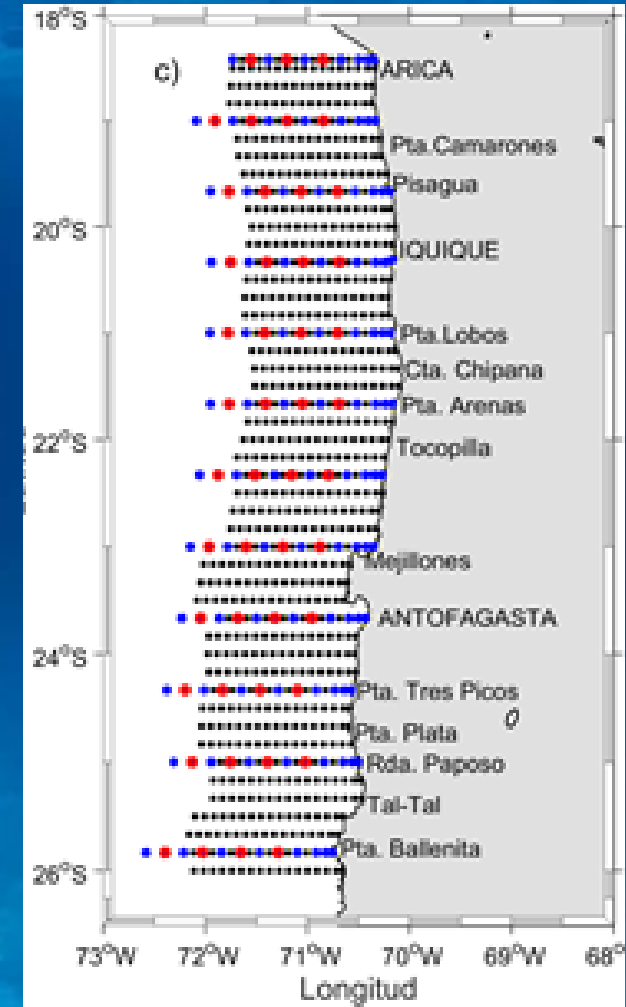
Oceanography



Mammals sighting



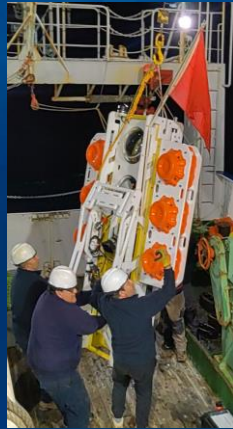
Hidroacoustic



Since 1964



R/V Abate Molina



Length 43,8 m
 Beam 8,3 m
 Draft 3,1 m (design)
 Velocity 8 knots
 Crew 15
 Scientist 15
 Construction 1990 Japan
 Shipyard Miho
 Upgrades 2010 and 2022

- Dry laboratory (Ctd's 911)
- Acoustic laboratory (Ek-60, sonar SX-90, TV80 captures sensors)
- Wet laboratory (SEANOSE system using superficial sensors)
- Fishing deck 50 m² (Pelagic and bottom trawling)
- Oceanographic winches
- Communications GMDSS, Internet Starlink, Inmarsat
- Capable of mooring work, ROVs, AUVs, Gliders, Core.



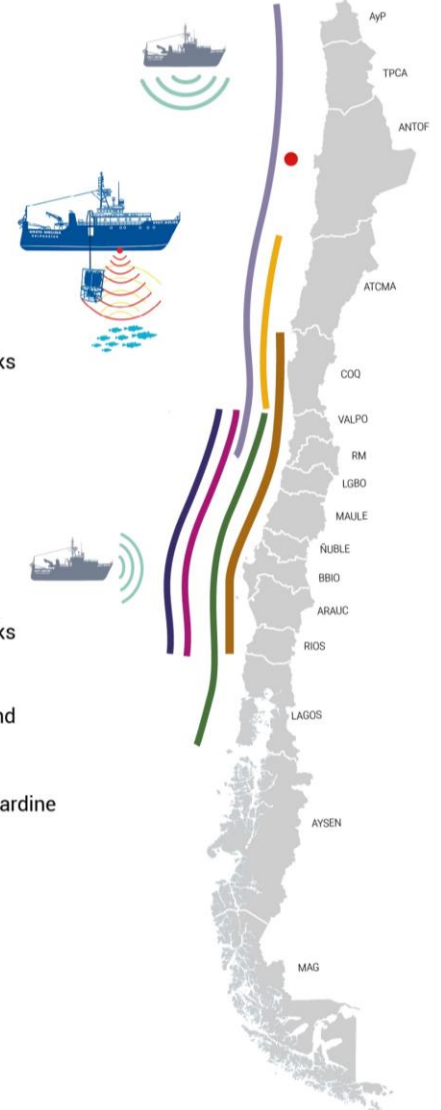
R/V ABATE MOLINA

PROYECTED CRUISES 2024

192 Days of operation | 7 Cruises

ANNUAL

- Hydroacoustic evaluation of sardine and anchovy stocks between the V and XIV regions of Chile / 30 days. Summer
- Hydroacoustic evaluation of the northern anchovy recruitment between the III and IV regions of Chile / 26 days.
- Hydroacoustic evaluation of the jack mackerel between the XV and V regions of Chile/ 43 days.
- Hydroacoustic evaluation of sardine and anchovy stocks between the V and XIV regions of Chile/ 30 days. Autumn
- Hydroacoustic evaluation of common hake between the IV and XIV regions of Chile / 32 days.
- Evaluation of the spawning stock of anchovy and common sardine between the V and X region of Chile / 19 days.
- Oceanographic expedition in the Atacama Trench II region of Chile / 10 days.





R/V Dra. BARBIERI



Length 30.2 m
 Beam 9 m
 Draft 3 m (design)
 Speed 10 knots
 Crew 12
 Scientist 8
 Construction 2022 Chile
 Shipyard ASENAV, Chile



- Dry laboratory (Ctd's 911)
- Acoustic laboratory (Ek-80, sonar SX-90, ADCP, TV80)
- Wet laboratory (SEANOSE system using superficial sensors)
- Fishing deck 50 m² (Pelagic and bottom trawling)
- Oceanographic winches



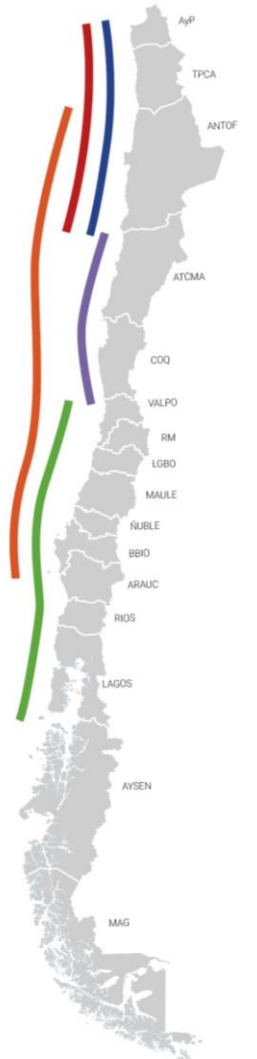
R/V Dra. BARBIERI

PROYECTED CRUISES 2024

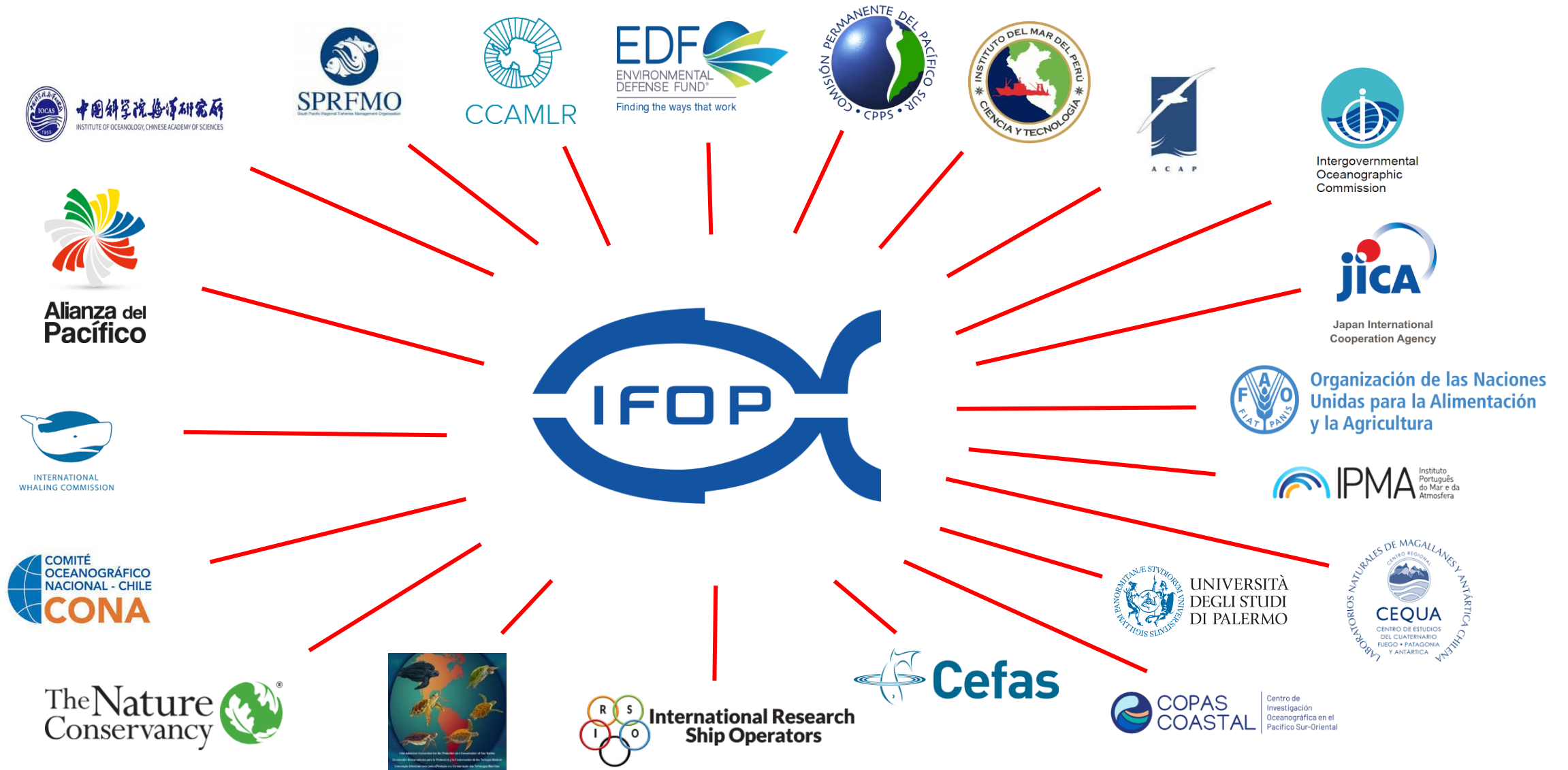
150 Days of operation | 5 Cruises

ANNUAL

- Evaluation of the spawning stock of anchovy between the III and IV regions of Chile.
- Evaluation of the spawning stock of anchovy and common sardine between the V and X regions of Chile.
- Hydroacoustic evaluation of anchovy recruitment between the XV and II regions of Chile.
- Monitoring of bio-oceanographic conditions and evaluation of the anchovy spawning stock between the XV and II regions of Chile.
- Direct evaluation of yellow langostino, red langostino and shrimp between the II and VIII regions of Chile.



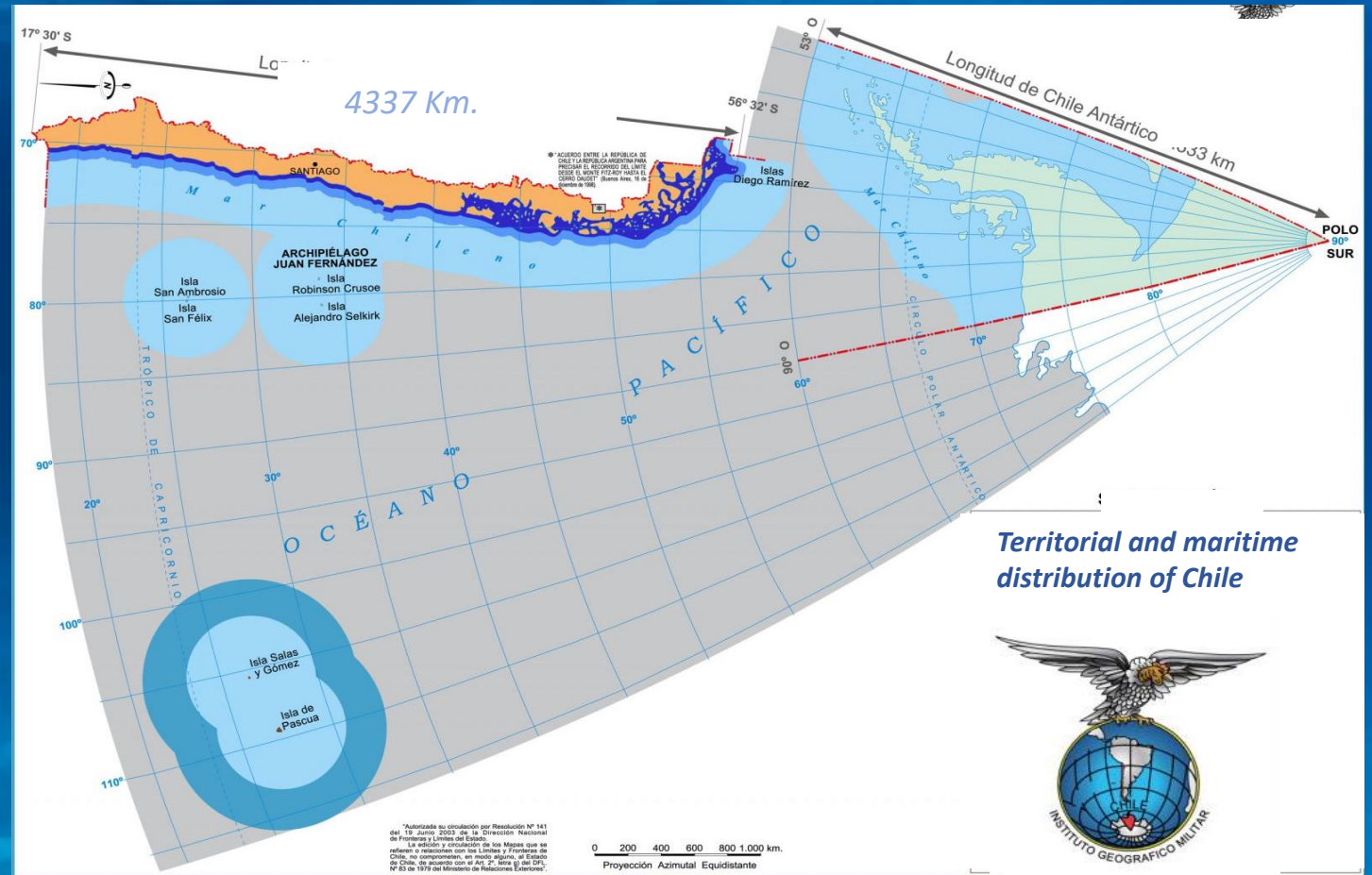
National and International Network





Future challenges

- Implementation of Gliders, ROVs, AUVs.
- Coordination and cooperation of scientific fleets in Chile and South America.
- Implementation of an ocean research vessel to work around Easter Island, Archipelago Juan Fernández, Salas y Gómez Islands, and southern Austral zone.



Territorial and maritime distribution of Chile



Since 1964