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## Chamber of Deputies Fisheries Commission President visits remodeled Abate Molina Scientific Vessel

On April 13th. María Candelaria Acevedo, Fisheries, Aquaculture and Maritime Interests Commission President, along with other authorities from fisheries sector, they toured the new Abate Molina Scientific Vessel facilities, which underwent repairs to improve IFOP workers habitability.

The ship remained 6 months in a shipyard in Puerto Montt, in which it was completely renovated.

Changes made to the ship consisted of more functional and modern furniture for the kitchen, bathrooms, laboratories, complete floors transformation, electronic equipment, satellite television installation, lights remodeling.



The Deputy explained, "I was quite satisfied with the remodeling that was carried out on the scientific ship so that it can meet the objectives for which it was remodeled, but also provide comfort, quality and dignity to its workers who are carrying out this important research work for our country.

Luis Parot IFOP Director added, "I am very happy that IFOP's workers have a more comfortable, more modern ship, with more space to carry out their daily activities, they remain on board for up to 40 days, therefore it was very necessary that Abate habitability conditions were improved.



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## JICA-Chile representatives visit MACH project's associated centers and laboratories

Algae Monitoring project in Chile (MACH) arises as a Chilean-Japanese collaboration, financed with Science and Technology for Sustainable Development Associative Research Program (SATREPS) resources from Japan's Government, through its International Cooperation Agencies (JICA) and Science and Technology Agency (JST).

Japan is represented by the Universities of Hiroshima, Kyoto and Okayama, as well as National Fisheries Science Research Institute from Chile, for its part, is represented by Universities De la Frontera Antofagasta, Los Lagos and Fisheries Development Institute through its Center for Harmful Algae Studies (CREAN). This project also has the approval, sponsorship and participation of national institutions such as the Undersecretariat for Fisheries and Aquaculture (SUBPESCA), the National Fisheries and Aquaculture Service (SERNAPESCA), Ministry of Health and the Chilean Agency for International Development Cooperation. (AGCID). Likewise, it has the collaboration of the Salmon Technological Institute (INTESAL) and Mussel Farming Technological Institute (INTEMIT).

This scientific consortium aims to monitor and study Harmful Algal Blooms processes (HAB) on Chilean coast under Humboldt current and the southern fjord system influence, to achieve a forecast model for certain blooms, using an approach based on microalgae knowledge and interaction and environmental bacteria associated with microalgae, using tools from microbiology, molecular biology, DNA sequencing and bioinformatics.

On Wednesday, April 20th and Thursday, April 21st, the resident representative of Japan's International Cooperation Agency (JICA), Mr. Shoji Ozawa, and the deputy representative, Mrs. Toshimi Kobayachi, visited laboratories associated Algae Monitoring centers in Chile (MACH facilities, <https://www.mach-satreps.org/project/es/project/>), with the aim of reviewing and discussing agreements and objectives agreed by all the academic, political and private institutions that make up MACH project, for its execution during the 2022 period.



In this context, JICA-Chile representatives visited Applied Microbial Ecology Laboratory (EMALab) at the Universidad de la Frontera (UFRO) facilities during Wednesday 20th morning, led by Dr. Milko Jolquera, MACH project scientific director. Other visits to UFRO were to the Bioresources Scientific and Technological Nucleus (BIOREN) and the Research and Postgraduate Vice-Rector. On Wednesday afternoon, JICA representatives went to Universidad de Los Lagos, Osorno campus, to visit Dr. Gonzalo Gajardo's laboratory he is MACH researcher and head of the Genetics, Aquaculture & Biodiversity laboratory. After this meeting, they visited the research and postgraduate vice-rectory.



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On Thursday 20th, morning, JICA representatives visited Fisheries Development Institute (IFOP) offices, to meet with Dr. Leonardo Guzmán, head of the aquaculture division, and Dr. Oscar Espinoza, IFOP Center for of Harmful Algae Study (CREAN) director, both researchers MACH. Associated. After these meetings, they visited CREAN center, to tour its facilities and talk with various work teams. These teams and the analyzes carried out in the center are a fundamental part of taking samples for monitoring microalgae in the South and Austral macrozones, and part of these data are used for the studies carried out in the MACH project, in conjunction with the aforementioned institutions.

## Carolina Lang IFOP's Researcher is part of REDICEC new Directory

REDICEC is a non-profit entity that seeks to create and expand research links between Chile and Canada. It is made up of Chilean researchers linked to different universities in Canada and Chile.

Its main mission is to build strategic and interdisciplinary alliances contributing to development of research in various knowledge areas of, and to support its members, as well as those who come to Canada for the first time, to join the net's scientific dissemination and social activities .

In its 9-year history, REDICEC has successfully positioned itself and has been recognized for Chilean Networks (ReCh) active participation and for developing dissemination activities such as biennial Colloquiums and Webinars.



"REDICEC has a special value for me, being in Chile I looked at the work of this organization with great interest. Then, as soon as I arrived in Canada, REDICEC supported me in my beginnings, which is essential for those who are new to a foreign country and culture, so I became a member and participated in the different dissemination activities that the Network has to offer.

Today, as part of REDICEC 2022-2024 directive staff, I have taken on a great personal and professional challenge, but also a great commitment. I am convinced that my participation in the board will allow me to use skills acquired in my professional career, and to develop new ones, such as leading a research network, working in a scientific interdisciplinary environment and collaboration importance among world networkse in research matters" explained Carolina Lang.

Redicec 2022-2024 Directive Board is made up of:

- Carolina Lang as Executive Director (Vancouver- University of British Columbia)
- Marcelo Balboa as Planning and Strategies Director (Quebec- Université Laval)
- Hernán Morales as Finance Director (Universidad Catolica de la Santísima Concepción- Chile)
- Arturo Pérez as Communication and Public Relations Director (Edmonton- University of Alberta)







## IFOP's Abate Molina Scientific vessel, goes out to investigate common anchoveta and sardine between the Valparaíso and Los Lagos regions

On May 2nd, from Valparaíso's port, Abate Molina scientific vessel set sail to characterize and evaluate of anchoveta and common sardine resources stock present between the Regions of Valparaíso and Los Lagos, based on hydroacoustic methods, during maximum recruitment and in the immediate fall period.

For 29 days, IFOP professionals and technicians will carry out this scientific journey led by Fisheries Engineer Álvaro Saavedra (cruise's head) and Enrique Quiero, ship's captain .

The cruise's specific objectives are:

- To estimate anchoveta and common sardine resource stock size and its spatial distribution in the period of maximum recruitment to the fishery present in the study area.
- To characterize and analyze, in a space-time context, evaluated stocks demographic composition and its interannual variation by means of biological indicators.
- To characterize and analyze bio-oceanographic conditions present in the study area and their relationship with resources spatial distribution.
- To characterize anchoveta and common sardine resources aggregations in the study area.
- To analyze interspecific relationships from echograms detected spatial distributions.

