

Curriculum vitae *Updated 6 May 2023*

Name	FACUNDO MATIAS BARRERA PhD
Date of birth	07.03.1980
Nationality	Argentina
Affiliation	Centro Austral de Investigaciones Científicas (CASIC-CONICET)
Professional address	Av. B. Houssay 200. Ushuaia. Tierra del Fuego. Argentina. 2410. e-mail: facundobarrera182@gmail.com Fone: +54 9 291 4041276
Position	Deputy Research PI CASIC, CONICET. Argentina. Deputy Research PI Bariloche Foundation, FB-CONICET. Argentina. Associate Research Centro I-mar. ULagos, Chile.
Language	Spanish, English

Professional Backround

Degree in biological sciences. PhD in Biology. Posdoc in Biogeochemistry, Posdoc in Biogeosciences, part of them carried out in Germany. I have received numerous scholarships from national and international organizations. I am currently a researcher at the Austral Center for Scientific Research (CASIC, CONICET, Argentina), a researcher at the Bariloche Foundation (CONICET), an Associate Researcher (Centro I-mar, ULAGOS, Chile). I work on interdisciplinary issues associated with the biogeochemistry of land-ocean interactions, impacts on the health of socio-ecosystems. I participated and coordinated research projects with national and international entities, many of them financed by the EU, UNESCO, BMBF (Germany), among others. Previously, I was a researcher at the Climate and Resilience Research Center (CR)2, UChile-UdeC. Director of POSAR (Oceanographic Complex Buoy System). In academia I am an Assistant Professor at UCSC (Concepción, Chile) with experience in undergraduate teaching for Marine Biology and Environmental Chemistry. Human Resources Training in Marine Biology and Environmental Chemistry, Mg. in Marine Ecology and Mg. Environment. I did university management. Chief Scientist and Scientific Member of Oceanographic Expeditions in the South West Atlantic, Southern Pacific and North/Baltic Seas. PADI Dive Master, Scientific Diver and PADI Rescue. Nautical driver (Navy). I was coordinator of a Protected Natural Area and participated in work commissions for Safety and Environmental Protection (Navy). Private Zero Carbon environmental consultant. I like to work autonomously, but also forming teams in a harmonious way following established values and policies. I have good organizational, communication and leadership skills. My objective is to continue my development in the strategic field of project management, coordinating work teams and institutions to provide knowledge transfer and service provision, promoting sustainable planning and strategic environmental development.

Education and academic qualification**Qualification**

2023-curr	Deputy Research Bariloche. FB-CONICET. Argentina
2022-curr	Deputy Research Austral Center of Scientific Research. CASIC-CONICET. Argentina
2022-curr	Associate Research Centro I-mar. Universidad de Los Lagos. Chile
2020-2022	Deputy Research PI. Línea Zona Costera CR ²
2018-2022	Deputy Research PD. Biogeoquímica. Facultad de Ciencias, CIBAS-UCSC. Chile.
2017	Posdoc Biogeociencias, IADO-CONICET. Argentina-Alemania.
2015	PhD in Biology. Universidad Nacional del Sur (UNS) Argentina.
2008	Degree in Biological Sciences. or. Cellular and molecular biology. UNS. Argentina.

Fellowships

2015-2017	<i>Posdoctoral fellow. CONICET.</i> Biogeochemical of Organic Matter in Productivity Areas. Director: Priv. Doz Dr. R. J. Lara.
2013-2015	<i>PhD. fellow. TYPE II CONICET.</i> Topic: Biogeochemical of Organic Matter in Productivity Areas in the Southwestern Atlantic. Director: Priv. Doz Dr. R. J. Lara.
2009-2013	<i>PhD. fellow PRH-UNS 37. MICYT.</i> Topic: Biogeochemical of Organic Matter in Productivity Areas in the Southwestern Atlantic. Director: Priv. Doz Dr. R. J. Lara.

Job Background**Graduate Course**

2020-2022	Assistant Professor Lecturer Fundamental Limnology and Oceanography (Environmental Chemistry, UCSC)
2021-	Responsible Professor Lecturer Introduction to Marine Geology (Marine Biology, UCSC)
2019-2021	Assistant Professor Lecturer General Oceanography (Marine Biology, UCSC).
2008	Assistant Lecturer ADS Ultrastructure and Animal Cellular Biology. UNS, Argentina.
2005-2008	Assistant Lecturer Ultrastructure and Animal Cellular Biology. UNS, Argentina.

Postgraduate Course

2023-	Professor Lecturer in Climate, environment and health. Postgraduate course Pontificia Universidad Javeriana (Colombia). 08/2023.
2022	Professor Physical-biogeochemical processes in fjords ecosystems. Study cases of Patagonian and Swedish fjords. U. de Gothenbug y Ulagos, I-mar (Pto. Montt, Chile). 09/22.
2019	Professor Lecturer: Ocean-atmosphere interactions and biogeochemical processes in channels and fjords of Patagonia: Advances in the knowledge of southern oceanography. winter course U. de Los Lagos- I-mar (Pto. Montt, Chile).

Consulting

2023-curr	Scientific consultant in Zero Carbon (Environmental enterprise). Blue Carbon team leader
2021-2022	Scientific consultant, CAMANCHACA. Marine Biogeochemistry Team Leader

- 2020-2022** Scientific consultant, IFOP (Chile Government). Marine Biogeochemistry Team Leader
2020-2022 Scientific consultant, BLUMAR. Marine Biogeochemistry Team Leader
2018 Scientific consultant, The Conservation Land Trust (CLT).

Management and extension

- 2022** Member of the organizing committee. VI Congreso de Oceanografía Física, Meteorología y Clima del Pacífico Sur Oriental. Puerto Montt. Noviembre.
---- Member of the organizing committee of the XLI Congreso de Ciencias del Mar. Concepción.
2018 XII Seminarios en Ciencias y Tecnología en Ambientes Acuáticos. Centro I ~ Mar, Universidad de Los Lagos, Pto. Montt. Agosto
---- Reuniones de Coordinación de proyectos IFOP, I ~ Mar, CIBAS,
---- Ciclo de Charlas: Hacia un entendimiento integrado de la influencia hidroclimática en la interacción océano-tierra en la zona de fiordos Patagónicos de Chile. Fondo de Apoyo a Seminarios (FAS). DEAS UCSC. Académico Docente Colaborador. Comité Organizador.
2017 Member of the Safety and Environmental Protection Working Group of Marine Protected Areas. PNA - PAMPA AZUL.
2009 Full Member of Electoral College. UNS, Argentina.
2008-2010 Full Member of Departmental Council. UNS, Argentina.
2008-2010 Full Member of University Assembly. UNS, Argentina.

Formation of human resources (RR.HH)

Magister of science

- 2022** Mg in ecology science (UCSC). Sara Arenas-Uribe. Phytoplankton community in Reloncaví estuarine system: diversity and abundance associated to rivers input.
2021 Mg in environmental science (UCSC). Andrea Iturria. Dynamic of Organic Matter in Patagonian Fjords.

Professional qualification

- 2022** Marine Biologist (UCSC). Felipe Luna. Temporal changes in lipid biomarkers of phytoplankton in the Reloncaví Estuary System.
---- Environmental Chemistry (UCSC). Eduardo Pinto. Chromophobe dissolved organic matter (cDOM) and its relationship with the amount and type of organic matter in Patagonian fjords.
2021 Environmental Chemistry (UCSC). Ma. Agélica Muñoz. POCs seasonal changes in surface seawater in temperate non-glacier estuary (Patagonia-Chile).
2020 Marine Biologist (UCSC). Sebastián Giuliano Manríquez-Canese. Analysis of fatty acids in particulate organic matter input in ocean-land interactions.

Degree of science

- 2022** Marine Biologist (UCSC). Luciano Alarcón. Lipid biomarkers in particulate matter along the saline front of the Reloncaví Estuary System.
2021 Environmental Chemistry (UCSC). Eduardo Pinto Muñoz. Seasonal variability of Chromophobe Dissolved Organic Matter (cDOM) in the Reloncaví Estuarine System (SER).
2020 Environmental Chemistry (UCSC). Lidia San Martín Lara. Temporal variation of the pigmented phytoplankton biomass in the Reloncaví Estuarine System.
---- Environmental Chemistry (UCSC). Emerson Rivera. Flujos de sedimentos en el Fiordo del Seno de Reloncaví.
---- Marine Biologist (UCSC). Constanza Bernal. Quantification and distribution of Bacteria of the genus *Vibrio* in the Reloncaví Sound, North Patagonia (Chile).
---- Marine Biologist (UCSC). Antonia Padilla. Oceanographic conditions and distribution of phytoplankton biomass in the Magdalena Sound and Puyuhuapi Fjord, Aysén Region, Chilean Patagonia.
2020 Marine Biologist (UCSC). Sebastián Giuliano Manríquez-Canese. Analysis of fatty acids in particulate organic matter input in ocean-land interactions.
---- Environmental Chemistry degree thesis (UCSC). Ma. Agélica Muñoz. POCs seasonal changes in surface seawater in temperate non-glacier estuary (Patagonia-Chile).

Graduate/postgraduate thesis jury

- 2021** Marine Biology qualification (UCSC). Constanza Bernal. Análisis bibliográfico de la bacteria del géneo *vibrio* spp. Marino en América del Sur.
2018 Titular Jury of PhD, Lic. Carolina Kahl. Dynamic of CO₂ in the Southwestern Atlantic. Universidad de Buenos Aires.

Research Background

Partner Investigator (PI) in the following projects

- 2023-2026** IR FONDECYT N°11230767 (Chile): Macromolecular characterization, transformation and remineralization of organic matter in Reloncaví estuarine system as perspective on expected future regional mechanisms of blue carbon sequestration.
2023- IR RTI-2/22 (Chile). Use of biogeochemical molecular markers in land-ocean interactions and their impact on the socio-ecosystem balance of the Reloncaví Estuary System.
2020-curr Estimation of the dissolved oxygen consumption rate in the water column and marine sediments in fjords of Patagonia. Los Lagos University-IFOP (Fisheries Development Institute).
2019-curr PROJECT_077: FjordFlux. Dynamic Effects of glacial melting and human impact on fjordic ecosystems of the Beagle Channel and the Chilean fjord system of Southern Patagonia. AWI.
2019-2023 IP-IGCP-UNESCO Project. Paleogeological history of toxic phytoplankton during the anthropocene in Patagonia: past context for future aquaculture

- 2018-2022** PI FONDECYT 3180307 CL. Hydroclimatic influence on estuarine-land interactions in northern Chilean Patagonia (Reloncaví fjord): Impacts on organic matter, sustainable resources, and human health.
- 2015-2017** PD-PI-CONICET. Organic matter pools in frontal areas of Southwestern Atlantic: structure and function of micro-, nanoparticles and macromolecules. Adviser: Priv. Doz Dr. R. J. Lara (IADO-CONOCET-UNS).
- 2016-2018** PIDDEF 2014/2017-12 ARG. Dynamic and carbon fluxes in the Argentine Sea: seasonal variation and exchange with the deep ocean.
- PICT 0426-2015. ARG. Biogeochemistry of organic matter and their relationships with *Vibrio* spp. in the Estuary of the Río Negro and maritime fronts of influence.
- PICT0302-2015 ARG. Static Holocene and climatic cycles in the Argentinean Sea. Relation to global climate change.
- 2015-2017** Al/14/06 ARG-DE. Productive zones of the Southwest Atlantic: Importance of microplankton, nanoparticles and macromolecules for the marine food web and human health.
- 2015-2016** CONICET-ANII A/U-2015 ARG-URU. Biogeochemistry of micro- and nanoparticles in Southwest Atlantic frontal areas: influence on characteristics and distribution of organic matter and potentially pathogenic organisms.
- 2014-2017** PICT-13-1241 ARG. Biogeochemistry of micro and nanoparticles in frontal areas of the Southwest Atlantic: influence on characteristics and distribution of organic matter and potentially pathogenic organisms.
- 2012-2013** Al/11/03-ARG11/021 ARG-DE. Interactions between biogeochemistry and plankton composition of the Argentine continental shelf.
- 2011-2014** PICT11-0467 ARG. Influence of climatic change on the land ocean interaction and its impact on the organic matter and the living resources in the transition zone of the South Buenos Aires and Norpatagonia regions.
- 2011-2013** 253/2008 IP-PRH-2007-Nº 37 ARG. Study of the biogeochemical dynamics of the organic matter in the Argentine Sea.

Partner Investigator (PI) in Technical projects

- 2020-curr** IFOP- ULAGOS (I-Mar). Rate consumption of dissolved oxygen estimation in seawater and marine sediments in fjords of Patagonia, stage I.

Field experience

- 2022** Administración Parques Nacionales – Consejo Nacional de Investigaciones Científicas y Técnicas: Área Marina Protegida Yaganes AMPY1-2022 Tres dominios. Research team member.
- 2019** Research team member. Fjords of Chilean Patagonia. U. de Los Lagos.
- 2017** **Chief scientist.** IADO-PNA 0917. NORTHPATAGONIA. MVO "Dr. Bernardo Houssay"-PNA
- 2016** Research team member. NORTHPATAGONIA. MVO "Dr. Bernardo Houssay"-PNA.
- Research team member. PACES program. Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI). RK UTHÖRN
- **Chief scientist.** IADO-PNA 0116. SWA-ANTARTIC. MVO "Dr. Bernardo Houssay"-PNA.
- 2015** **Chief scientist.** RINCON- SHELF BREAK. IADO-PNA 0915. MVO "Dr. Bernardo Houssay"-PNA.
- 2013** **Chief scientist.** RINCON-2013. MVO "Dr. Bernardo Houssay"-PNA.
- 2012** Research team member. PATAGONIA AUSTRAL. R/V CONICET-ARA Puerto Deseado.
- Research team member. BEAGLE-IADO. R/V CADIC-CONICET.
- 2010** Research team member. RINCON-2010. R/V CONICET-ARA Puerto Deseado.
- 2009** Research team member. CONCACEN-2009. R/V CONICET-ARA Puerto Deseado.

Honors and Awards

- 2008** First Prize: Microcrystalline Fluorescent Variety of α -Quartz(SiO_2) in Electric Organs of *Psammobatis extenta* (Garman, 1913) (BATOIDEA: Rajidae). XI Morphological Science Argentine Congress, I International Congress in Morphological Science in Investigation and Education, I Histotechnologists.

Fellowships to international academic's exchange (most relevant)

- 2017** AWI-Germany. Samples analysis Marine Biogeochemistry. Write manuscript and project cooperation. Support: MINCYT-BMBF. Dr. B. Krock and B. Koch.
- 2016** AWI-Germany. Samples analysis and training Marine Biogeochemistry. Support to Interdisciplinary Modelling of Climate Change in Coastal Western Antarctica (IMCoNet), 7th Framework Programme of the European Union (FPEU). Dr. B. Krock and B. Koch.
- 2014** IIBCE-Uruguay. Training in Marine molecular microbiology. Support to Project BID-PICT 456 (ANPCYT-MINCYT). Dr. C. Etcheverhere.
- 2013** CABBIO Course (Argentine-Brazilian Center of Biotechnology), Uruguay. Training in molecular microbiology. Fellowship of III Regional School of Microbiology.
- 2013** ZMT, Germany. Samples analysis and training Marine Biogeochemistry. Support to Project Al/11/03-ARG11/021 (MINCYT-BMBF). Dr. R. J. Lara.
- AWI, Germany. Samples analysis and training in Ecology Chemistry. Support to Project Al/11/03-ARG11/021 (MINCYT-BMBF). Dr. B. Krock.
- 2012** CURE, Uruguay. Samples analysis and training in Marine Microbiology. Project IP-PRH-2007-Nº37. Dr. C. Alonso.
- 2010** ZMT, Germany. Samples analysis and training in Marine Biogeochemistry. Project IP-PRH-2007-Nº37. Dr. R. J. Lara.

Professional Training Courses (most relevant)

- 2021** Analysis of oceanographic variables with a multidisciplinary approach. Baja Marine Science Project. Mexico
- 2019** Instruments and Methodologies for a Climate Observatory and its Impact on Human Health (DOC8800901). UBA. Argentina
- 2018** Advanced in aquatic ecosystems and resource management: use and applications of stable isotopes, fatty acids and diet DNA to understand trophic ecology. Universidad de Concepción, Chile.
- 2016** Bacteriophages as a model for the analysis of large-scale biological data. UBA. Argentina

2015	Marine Front Ecology. UNS. Argentina.
2013	III Regional School of Microbiology. CABBIO Course. Uruguay.
2012	Multivariate Analysis Explorer. UNS. Argentina.
2011	Acquisition/Processing Oceanographic Data. Univ. Nac. MdP. INIDEP. Argentina.
----	Techniques for Digital Image Processing. UNS. Argentina.
----	Analysis of Variance - ANOVA. UNS. Argentina.
----	Course of Flow Cytometry. International Society of Analytical Cytology. Argentina.
----	Methodology Research Problems of Natural Sciences. UNS. Argentina.
----	Geochemistry of Stable Isotopes (O, H, C y S). UNS. Argentina.
2010	Multivariate Data Analysis Applied to Ecology. UNS. Argentina.
----	Microbial Ecology of Aquatic Environmental. UBA. Argentina.
2009	Role of Plankton in Aquatic Systems Biogeochemical Cycles. UdeLaR. Uruguay.

Peer review

2020	Frontiers in Marine Science
----	Frontiers in Earth Science
2019	Latin American Journal of Aquatic Research. LAJAR
2018	Marine Ecology Progress Series. MEPS

References

Prof. Dr. Sergio Contreras. Universidad Católica de la Santísima Concepción. Alonso de Ribera 2850 - Concepción – Chile. Tel.: +56 41234 5272. scontreras@ucsc.cl

Dr. Bernd Krock. Alfred-Wegener-Institute, Helmholtz Centre for Polar and Marine Research. Am Handelshafen 12, 27570 Bremerhaven. Germany. Tel.: +49-471-4831-2055. Bernd.krock@awi.de

Scientific Production

Publications: Journals (20), Chapters Books (1), Congresses and Meetings (+30), Technical Reports (+20) and Divulgation Works (1).

In Scientific Journals (Published) last 8 year

1. Mantilla Caicedo G., Rusticucci M., Suli S., Dankiewicz V., Ayala S., Caiman A., Díaz M., Fonta S., Chesiñi F., Jimenez Buitrago D., **Barrera F.** (2023). Spatio-temporal multidisciplinary analysis of environmental and sociodemographic conditions to explore the COVID-19 early evolution in urban sites in South America. HELIYON-D-21-10765. [10.1016/j.heliyon.2023.e16056](https://doi.org/10.1016/j.heliyon.2023.e16056)
2. Linford P., Pérez-Santos I., Montero P., Díaz P., Aracena C., Pinilla E., **Barrera F.**, Castillo M., et al., (2023). Oceanographic Processes Favoring Deoxygenation Inside Patagonian Fjords. *egusphere*-2023-706. *Submitted*.
3. Placencia J.A., Muñoz M.A., **Barrera F.**, Pérez-Santos I., Montoya D., Linford P. (2023). Seasonal changes of the Organochlorine Pesticides (OCPs) in surface waters of a Patagonian fjord. *Journal: Marine Pollution Bulletin*, MPB-D-22-02384. *Submitted*
4. Almundoz G.O., Fabro E., Sprong P., **Barrera F.**, Mascioni M., Antoni J., Ferrario M., Metfies K. (2023). Metabarcoding and microscopy characterization of planktonic protists from frontal areas of the Argentine Sea *JPR-2022-137*. *Submitted*
5. Baldrich A.M., Díaz P.A., Álvarez G., Pérez-Santos, Schwerter C., Díaz M., Araya M., Nieves M.G., Rodríguez-Villegas C., **Barrera F.**, Fernández-Peña C., Arenas-Uribe S., Navarro P., Reguera B. (2023). *Dinophysis acuminata* or *Dinophysis acuta*: what makes the difference in highly stratified fjords?. *Marine Drugs*. doi.org/10.3390/md21020064
6. Díaz P.A., Pérez-Santos I., Basti L., Garreaud R., Pinilla E., **Barrera F.**, Tello A., Schwerter C., Arenas-Uribe S., Soto-Riquelme C., Navarro P., Díaz M., Álvarez G., Linford P.M., Altamirano R., Mancilla-Gutiérrez G., Rodríguez-Villegas C., Figueroa R.I. (2023). The impact of local and climate change drivers on the formation, dynamics, and potential recurrence of a massive fish-killing microalgal bloom in Patagonian fjord. *Sci Total Environ* 2022 Dec 29;161288. DOI: [10.1016/j.scitotenv.2022.161288](https://doi.org/10.1016/j.scitotenv.2022.161288)
7. Pérez-Santos I., Díaz P.A., Silva N., Garreaud R., Montero P., Henríquez-Castillo C., **Barrera F.**, Linford P., Amaya C., Contreras S., Aracena C., Pinilla E., Altamirano R., Vallejos L., Pavez J., Maulena J. (2021). Oceanography time series reveals annual asynchrony input between oceanic and estuarine waters in Patagonian fjords. *STOTEN* <https://doi.org/10.1016/j.scitotenv.2021.149241>
8. Aguirre C., Garreaud R., Belmar L., Farías L., Ramajo L., **Barrera F.** (2021). High-frequency variability of the surface ocean properties off central Chile during the upwelling season. *Frontiers Marine Science*. DOI: [10.3389/fmars.2021.702051](https://doi.org/10.3389/fmars.2021.702051)
9. Baldrich AM., Pérez-Santos I., Álvarez G., Reguera B., Fernández-Peña C., Rodríguez-Villegas C., Araya M., Alvarez F., **Barrera F.**, Karasiewicz S., Díaz PA. (2021). Niche differentiation of *Dinophysis acuta* and *D. acuminata* in a stratified fjord. <https://doi.org/10.1016/j.hal.2021.102010>
10. Kremp A., Hansen P.J., Tillmann U., Savela H., Suikkanen S., Voß D.; **Barrera F.**, Jacobsen H.H., Krock B. (2019) Distributions of three *Alexandrium* species and their toxins across a salinity gradient suggest an increasing impact of GDA producing *A. pseudogonyaulax* in shallow brackish waters of Northern Europe HARALG-D-19-00032. <https://doi.org/10.1016/j.hal.2019.101622>
11. Garzón-Cardona, J.E., Martínez, A., Pantoja, S., Guinder, V., Koch, B., Krock, B., **Barrera, F.**, Lara, R., 2019. Linking optical and chemical signatures of dissolved organic matter in the southern argentine shelf: distribution and bioavailability. *J. Mar. Syst.* 195, 74–82. <https://doi.org/10.1016/j.jmarsys.2019.03.010>
12. **Barrera, F.**, Lara, R.J. Krock B., Garzón Cardona, J.E., Fabro, E., Koch, B.P. (2017). Factors influencing characteristics and distribution of organic particles and macromolecules in the Pacific-Atlantic connection. *J. Mar. Syst.*, 175, 36-45. <https://doi.org/10.1016/j.jmarsys.2017.07.004>
13. Cardona Garzón, J.E., Martínez, A.M., **Barrera, F.**, Pfaff, F., Koch, B.P., Freije, R.H., Gómez, E.A., Lara, R.J. (2016). The Pacific-Atlantic connection: biogeochemical signals in the southern end of the Argentine shelf. *J. Mar. Syst.*, 163, pp. 95-101. <https://doi.org/10.1016/j.jmarsys.2016.07.008>

14. Tillmann U, Borel C.M., **Barrera, F.**, Lara R.J., Krock B., Almundoz G.O., Trefault N. (2016). *Azadinium poporum* from the Argentine Continental Shelf, Southwestern Atlantic, produces azaspiracid-2 and azaspiracid-2 phosphate. *Harmful Algae*, Vol 51, 40–55. <https://doi.org.dti.sibucsc.cl/10.1016/j.hal.2015.11.001>
15. Krock B., Borel C.M., **Barrera, F.**, Tillmann U., Fabro E., Almundoz G., Ferrario M., Garzón Cardona J.E., Koch B., Alonso C., Lara R.J. (2015). Analysis of the hydrographic conditions and cyst beds in the San Jorge gulf, Argentina, that favour dinoflagellate population development including toxicigenic species and their toxins. *Journal of Marine Systems*, vol. 148: 86 – 100. <https://doi.org.dti.sibucsc.cl/10.1016/j.jmarsys.2015.01.006>

Book Chapters

1. Prado Figueroa M., Barrera F., Schmid G. (2002). Rayas eléctricas de la ría de Bahía Blanca: los electrocitos y la contaminación por aluminio. Memorias del archivo de la ciudad de Bahía Blanca. Ed. Bahía Blanca: Ediuns. Tomo III: 107-114.

Congresses and Scientific Meetings (last 10 year)

1. P. Linford, I. Pérez-Santos, P. Montero, C. Aracena, F. Barrera, P. Díaz, I. Montes, E. Pinilla, C. Schwerter, Gabriel Soto, Sara Arenas-Uribe, Pilar Navarro, Guido Mansilla, Robinson Altamirano. Oceanographic processes favoring hypoxia and low dissolved oxygen water in Patagonian fjords. Oxygen.
2. Verónica V., Suli S., Rusticucci M., Mantilla Caicedo G., Ayala S., Caiman P.A., Díaz M., Fontán S., Chesini F., Jiménez-Buitrago D., Barreto Pedraza L.R., Barrera F. (2022). Spatio-temporal analysis of climatic conditions to explore the covid-19 early evolution in urban sites in south America. XI Congreso Argentino de Meteorología. Mendoza, Argentina.
3. Altamirano Robinson, Díaz Patricio, Pérez-Santos Iván, Barrera Facundo, Toledo Pamela, Schwerter Camila, Linford Pamela, Arenas-Uribe Sara, Navarro Pilar, Mancilla-Gutiérrez Guido, Díaz Manuel, Matamala Thamara, Artal Osvaldo, Pinilla Elías. Circulación superficial en la región sureste del Seno Reloncaví empleando derivadores lagrangianos. Congreso Ciencias del Mar 2022, Concepción, Chile.
4. Arenas-Uribe Sara, Schwerter Camila, Navarro Pilar, Mansilla Guido, Linford Pamela, Pinilla Elias, Contreras Sergio, Espinoza-González Oscar, Patricio Díaz, Pérez-Santos Ivan, Barrera Facundo. Comunidad fitoplanctónica del sistema estuarino Reloncaví. Cambios espaciotemporales debido a condiciones oceanográficas e hidroclimáticas. Congreso Ciencias del Mar 2022, Concepción, Chile.
5. Arenas-Uribe Sara, Barrera Facundo, Pérez-Santos Ivan, Pinilla Elias, Iturria Andrea, Manriquez Sebastián, Contreras Sergio. Dinámica biogeoquímica de la materia orgánica en el Sistema Estuarino Reloncaví. Congreso Ciencias del Mar 2022, Concepción, Chile.
6. Barrera Facundo, Díaz Patricio, Pérez-Santos Iván, Arenas Sara, Schwerter Camila, Altamirano Robinson, Mancilla-Gutiérrez Guido. Sources and pools of particulate organic matter in northern Patagonian Fjords. Congreso Ciencias del Mar 2022, Concepción, Chile.
7. Barrera Facundo, Díaz Patricio, Pérez-Santos Iván, Arenas-Uribe Sara, Schwerter Camila, Navarro Pilar, Altamirano Robinson, Mancilla-Gutiérrez Guido, Tello Alfredo, Sandoval Alondra. Molecular biogeochemical tracking of organic matter in a meridional Fjord (Comau, North Patagonia) with high anthropogenic pressure. Congreso Ciencias del Mar 2022, Concepción, Chile.
8. Díaz Patricio, Pérez-Santos Iván, Barrera Facundo, Basti Leila, Garreaud René, Pinilla Elías, Schwerter Camila, Arenas-Uribe Sara, Álvarez Gonzalo, Navarro Pilar, Altamirano Robinson, Mancilla-Gutiérrez Guido, Díaz Manuel, Tello Alfredo, Sandoval Alondra, Figueredo Rosa. Floración ictiotóxica de Heterosigma akashiwo en fiordo Comau, Patagonia Chilena: Forzantes ambientales, dinámica e impactos. XLI Congreso Ciencias del Mar 2022, Concepción, Chile.
9. Navarro Pilar, Pinto Nicolás, Arenas-Uribe Sara, Schwerter Camila, Altamirano Robinson, Mancilla-Gutiérrez Guido, Sandoval Alondra, Díaz Patricio, Pérez-Santos Iván, Barrera Facundo. Variabilidad espacio-temporal de la Materia Orgánica Disuelta Cromofóbica (cDOM) en la Patagonia Norte. XLI Congreso Ciencias del Mar 2022, Concepción, Chile.
10. Pérez-Santos Iván, Díaz Patricio, Barrera Facundo, Toledo Pamela, Schwerter Camila, Linford Pamela, Arenas-Uribe Sara, Navarro Pilar, Altamirano Robinson, Mancilla-Gutiérrez Guido, Díaz Manuel, Matamala Thamara, Sandoval Alondra, Artal Osvaldo, Pinilla Elías. Potencial impacto al medio marino por el colapso de un centro de cultivo de salmones en aguas profundas del Seno Reloncaví, Patagonia norte. XLI Congreso Ciencias del Mar 2022, Concepción, Chile.
11. Schwerter Camila, Pérez-Santos Iván, Castillo Manuel, Landaeta Mauricio, Díaz Patricio, Barrera Facundo, Linford Pamela, Altamirano Robinson, Vallejos Luis, Mancilla Guido. Régimen de circulación y su relación con el viento y las mareas en el Canal Tenglo, Patagonia norte. XLI Congreso Ciencias del Mar 2022, Concepción, Chile.
12. Mantilla Caicedo G., Rusticucci M., Suli S., Dankiewicz V., Ayala S., Caiman A., Díaz M., Fonta S., Chesini F., Jimenez Buitrago D., Barrera F. (2021). Análisis multidisciplinario espacio-temporal de las condiciones socioambientales para explorar la evolución temprana del COVID-19 en sitios urbanos de América del Sur I Congreso Virtual Iberoamericano de Salud Ambiental. Rio Grande, Brazil.
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I declare that all the information that I have provided here is correct