

Jean-Pierre Gattuso
(2025-05-04)

CNRS Senior Research Professor (*Directeur de recherche CNRS de classe exceptionnelle*)
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Born 14 December 1958 in Antibes, France. French citizen. Married, no children.

Short biography

I am CNRS Research Professor at the Laboratoire d’Océanographie de Villefranche (Sorbonne University). I am also Associate Scientist at the Institute for Sustainable Development and International Relations (IDDRI-SciencesPo, Paris). My current research relates to the effects of ocean acidification and warming on marine ecosystems and the services that they provide to society. I also investigate ocean-based solutions to mitigate and adapt to climate change. I led the launch of the Ocean Acidification International Coordination Centre at the International Atomic Energy Agency. I coedited the first book on ocean acidification (Oxford University Press) and contributed to several IPCC products (AR5, Special Reports on 1.5°C of Warming, and on the Ocean and Cryosphere). I co-chair the [One Ocean Science Congress](#), a UN special event which will precede the 2025 United Nations Ocean Conference. I received the Vladimir Vernadsky medal of the European Geosciences Union, the Blaise Pascal medal of the European Academy of Sciences (of which I am an elected member), and the Ruth Patrick Award of the Association for the Sciences of Limnology and Oceanography. I am also an elected member of Academia Europaea. More information: <https://jpgattuso.github.io>.

Short curriculum vitae
Jean-Pierre Gattuso
(2025-05-04)

Educational background

- 1994: *Habilitation*, Biological Oceanography, University of Nice, France
- 1987: Ph. D., Biological Oceanography, University of Aix-Marseille II, France
- 1982: M. Sc. in Oceanography, University of Aix-Marseille II

Professional background

- 2015-present: Associate Scientist, Institute for Sustainable Development and International Relations, France
- 2005-present: Research Professor (*Directeur de recherche CNRS de classe exceptionnelle*), Laboratoire d'Océanographie de Villefranche, France
- 1998-2004: Group leader, Laboratoire d'Océanographie de Villefranche, France
- 1998-2004: Group leader, Monaco Scientific Center, Principality of Monaco
- 1990-1992: Research Scientist, CNRS and University of Perpignan, France
- 1988-1990: Postdoctoral Research Scientist, Australian Institute of Marine Science
- 1985-1987: Reader, University of Nice, France

Invited positions

- 2006-2011: Invited Professor, University of Shantou (China)
- 2005: National Center for Atmospheric Research (Boulder, Colorado)
- 2004: Visiting scientist, Rutgers University (New Jersey)

Awards

- 2024: Earth Science and Ecology and Evolution Leader Awards, Research.com
- 2023: Elected foreign member, Chinese Academy of Sciences
- 2020: Ruth Patrick Award, Association for the Sciences of Limnology and Oceanography
- 2018: Elected member, Academia Europaea
- 2014: Member, European Academy of Sciences
- 2014: Blaise Pascal Medal in Earth and Environmental Sciences, European Academy of Sciences
- 2012: Vladimir Vernadsky Medal, European Geosciences Union
- 2005: Union Service Award, European Geosciences Union
- 2002: Outstanding reviewer, Limnology & Oceanography
- 2001: Oceanography medal of the *Société d'Océanographie de France*

Research interests

- Carbon and carbonate cycling in coastal ecosystems
- Response of marine organisms and ecosystems to global environmental changes, including ocean acidification
- Ocean-based solutions to climate change

Editorial activities

- 2021-2024: Editor, *Cambridge Prisms: Coastal Futures*
- 2011: Editor of *Ocean acidification*, book published by Oxford University Press
- 2010-2022: Editor, *Biogeosciences*
- 2006-2010: Topic Editor, *The Encyclopedia of Earth*
- 2004-2009: Founding Editor-in-Chief, *Biogeosciences*
- 2002-2014: Biogeosciences Editor, *The Eggs*
- 2002-2004: Editor, *Surveys in Geophysics*
- 1997-2005: Editor, *Coral Reefs*

Selected professional activities

- 2024-present: Member, OceanObs'29 Ad-hoc Committee
- 2023-present: Co-chair, One Ocean Science Congress, UN Special Event of the 2025 United Nations Ocean Conference, Nice

- 2023-2025: Co-chair, International Advisory Committee of the project Ocean Negative Carbon Emissions (MOST ONCE and Global ONCE)
- 2022-2024: Member, ASLO Redfield Award Committee
- 2021-2024: Member, Scientific Advisory Board, Research Mission of the German Marine Research Alliance (Marine carbon sinks in decarbonisation pathways; CDRmare)
- 2021-present: President, Ocean Acidification & other ocean Changes – Impacts and Solutions (OACIS), Prince Albert II of Monaco Foundation
- 2021-present: Member, Scientific Committee, Ocean Solutions program, CNRS and Ifremer
- 2021-2022: Member, Scientific Committee, BNP Paribas Foundation
- 2021-present: Member, International Advisory Board of the Aqaba Marine Park, Jordan
- 2021-2020: Member, Agence de sécurité sanitaire, environnementale et de gestion des risques, Métropole Nice Côte d’Azur
- 2018-2022: Member, Scientific and Technical Advisory Committee, Copernicus Marine Environment Monitoring Service
- 2016-present: Member, Scientific Committee, Earth and Environment of the European Academy of Sciences
- 2015-2022: Regional expert group on climate in Provence Alpes-Côte d’Azur
- 2001: Founding President, Biogeosciences Division of the European Geosciences Union
- 2002: Founding member, European Geosciences Union (EGU)

Recent and current grants

- Carbon Sequestration in BLUE EcoSystems (C-BLUES), European Commission (2024-2027)
- Polar Ocean Mitigation Potential (POMP), European Commission (2024-2027)
- Guide to Best Practices for ocean alkalinity enhancement research, ClimateWorks Foundation (2022-2023)
- The future of Arctic coastal ecosystems - Identifying transitions in fjord systems and adjacent coastal areas (FACE-IT), European Commission H2020 (2020-2024)

Selection of key and recent papers—Complete list available here: <https://bit.ly/3BMZH3j>

- Google Scholar: 44783 citations; h-index: 100
- Web of Science: 245 items; 23,253 citations; h-index: 76
- Highly cited researcher in 2021 and 2022
- Research.com Ecology and Evolution leader (#388 in the world, #21 in France)
- Research.com Ecology and Evolution leader (#356 in the world, #13 in France)
- 10 highly cited papers¹.

- <2018 Gattuso J.-P., Frankignoulle M. & Wollast R., 1998. Carbon and carbonate metabolism in coastal aquatic ecosystems. *Annual Review of Ecology and Systematics* 29:405-434.
- Gattuso J.-P., Frankignoulle M. & Smith S. V., 1999. Measurement of community metabolism and significance of coral reefs in the CO₂ source-sink debate. *Proceedings of the National Academy of Science U.S.A.* 96:13017-13022.
- Gattuso J.-P. & Buddemeier R. W., 2000. Ocean biogeochemistry: calcification and CO₂. *Nature* 407:311-312.
- Gattuso J.-P. & Hansson L. (eds.), 2011. *Ocean acidification*, 326 p. Oxford: Oxford University Press.
- Kroeker K., Kordas R., Crim R., Hendriks I., Ramajo L., Singh G., Duarte C. & Gattuso J.-P., 2013. Impacts of ocean acidification on marine organisms: quantifying sensitivities and interaction with warming. *Global Change Biology* 19:1884-1896.
- Wong P. P., Losada I. J., Gattuso J.-P., Hinkel J., Khattabi A., McInnes K., Saito Y. & Sallenger A., 2014. Coastal systems and low-lying areas. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 361-409. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- Gattuso J.-P., Hoegh-Guldberg O. & Pörtner H.-O., 2014. Coral reefs. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects.*

¹Highly cited papers received enough citations to place them in the top 1% of their academic field based on a highly cited threshold for the field and publication year.

Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, pp. 97-100. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.

- Gattuso J.-P., Brewer P., Hoegh-Guldberg O., Kleypas J. A., Pörtner H.-O. & Schmidt D., 2014. Ocean acidification. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 129-131. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- Gattuso J.-P., Magnan A., Billé R., Cheung W. W. L., Howes E. L., Joos F., Allemand D., Bopp L., Cooley S., Eakin C. M., Hoegh-Guldberg O., Kelly R. P., Pörtner H., Rogers A. D., Baxter J. M., Laffoley D., Osborn D., Rankovic A., Rochette J., Sumaila U. R., Treyer S. & Turley C., 2015. Contrasting futures for ocean and society from different anthropogenic CO₂ emissions scenarios. *Science* 349:aac4722.
- Orr J. C., Epitalon J.-M. & Gattuso J.-P., 2015. Comparison of ten packages that compute ocean carbonate chemistry. *Biogeosciences* 12:1483-1510.
- Riebesell U. & Gattuso J.-P., 2015. Lessons learned from ocean acidification research. *Nature Climate Change* 5:12-14.
- Magnan A. K., Colombier M., Billé R., Hoegh-Guldberg O., Joos F., Pörtner H.-O., Waisman H., Spencer T. & Gattuso J.-P., 2016. Implications of the Paris Agreement for the ocean. *Nature Climate Change* 6:732-735.
- Kapsenberg L., Alliouane S., Gazeau F., Mousseau L. & Gattuso J.-P., 2017. Coastal ocean acidification and increasing total alkalinity in the northwestern Mediterranean Sea. *Ocean Science* 13:411-426.
- 2018** Bittig H. C., Steinhoff T., Claustre H., Fiedler B., Williams N. L., Sauzède R., Körtzinger A. & Gattuso J.-P., 2018. An alternative to static climatologies: robust estimation of open ocean CO₂ variables and nutrient concentrations from T, S, and O₂ data using Bayesian neural networks. *Frontiers in Marine Science* 5:328.
- Boyd P. W., Collins S., Dupont S., Fabricius K., Gattuso J. P., Havenhand J., Hutchins D. A., Riebesell U., Rintoul M. S., Vichi M., Biswas H., Ciotti A., Gao K., Gehlen M., Hurd C. L., Kurihara H., McGraw C. M., Navarro J. M., Nilsson G. E., Passow U. & Pörtner H.-O., 2018. Experimental strategies to assess the biological ramifications of multiple drivers of global ocean change - a review. *Global Change Biology* 24:2239-2261.
- Cramer W., Guiot J., Fader M., Garrabou J., Gattuso J.-P., Iglesias A., Lange M. A., Lionello P., Llasat M. C., Paz S., Peñuelas J., Snoussi M., Toreti A., Tsimplis M. N. & Xoplaki E., 2018. Climate change and interconnected risks to sustainable development in the Mediterranean. *Nature Climate Change* 8:972-980.
- Gattuso J.-P., Magnan A. K., Bopp L., Cheung W. W. L., Duarte C. M., Hinkel J., Mcleod E., Micheli F., Oschlies A., Williamson P., Billé R., Chalastani V. I., Gates R. D., Irisson J.-O., Middelburg J. J., Pörtner H.-O. & Rau G. H., 2018. Ocean solutions to address climate change and its effects on marine ecosystems. *Frontiers in Marine Science* 5:337.
- Orr J. C., Epitalon J.-M., Dickson A. G. & Gattuso J.-P., 2018. Routine uncertainty propagation for the marine carbon dioxide system. *Marine Chemistry* 207:84-107.
- 2019** Abram N., Gattuso J.-P., Prakash A., Chen L., Chidichimo M. P., Crate S., Enomoto H., Garschagen M., Gruber N., Harper S., Holland E., Kudela R. M., Rice J. D., Steffen K. & von Schuckmann K., 2019. Framing and context of the report. In: Pörtner H.-O., Roberts D., Masson-Delmotte V. & Zhai P. (Eds.), *Special Report on Ocean and Cryosphere in a Changing Climate*, pp. 73-129. Geneva: Intergovernmental Panel on Climate Change.
- Bitter M. C., Kapsenberg L., Gattuso J.-P. & Pfister C. A., 2019. Standing genetic variation fuels rapid adaptation to ocean acidification. *Nature Communications* 10:5821.
- IPCC, 2019. Summary for Policymakers. In: Pörtner H.-O., Roberts D. C., Masson-Delmotte V., Zhai P., M T., Poloczanska E., Mintenbeck K., Nicolai M., Okem A. & Petzold J. (Eds.), *IPCC Special Report on the Ocean and Cryosphere in a Changing Climate*, pp. 3-35. Geneva: Intergovernmental Panel on Climate Change.
- Magnan A. K., Garschagen M., Gattuso J.-P., Hay J. E., Hilmi N., Holland E., Isla F., Kofinas G., Losada I. J., Petzold J., Ratter B., Schuur T., Tabe T. & van de Wal R., 2019. Integrative cross-chapter box on low-lying islands and coasts. In: Pörtner H.-O., Roberts D., Masson-Delmotte V. & Zhai P. (Eds.), *Special Report on Ocean and Cryosphere in a Changing Climate*, pp. 657-674.

Geneva: Intergovernmental Panel on Climate Change.

- 2020** Duarte C. M., Agustí S., Barbier E., Britten G. L., Castilla J. C., Gattuso J.-P., Fulweiler R. W., Hughes T. P., Knowlton N., Lovelock C. E., Lotze H. K., Predragovic M., Poloczanska E., Roberts C. & Worm B., 2020. Rebuilding marine life. *Nature* 580:39-51.
- Fourrier M., Coppola L., Claustre H., d'Ortenzio F., Sauzède R. & Gattuso J. P., 2020. A regional neural network approach to estimate water-column nutrient concentrations and carbonate system variables in the Mediterranean Sea: CANYON-MED. *Frontiers in Marine Science* 7:620.
- Gattuso J.-P., Gentili B., Antoine D. & Doxaran D., 2020. Global distribution of photosynthetically available radiation on the seafloor. *Earth System Science Data* 12:1697-1709.
- Teixidó N., Caroselli E., Alliouane S., Ceccarelli C., Comeau S., Gattuso J.-P., Fici P., Micheli F., Mirasole A., Monismith S. G., Munari M., Palumbi S. R., Sheets E., Urbini L., De Vittor C., Goffredo S. & Gambi M. C., 2020. Ocean acidification causes variable trait shifts in a coral species. *Global Change Biology* 26:6813-6830.
- 2021** Gattuso J.-P., Epitalon J.-M., Lavigne H. & Orr J., 2021. seacarb: seawater carbonate chemistry. R package version 3.2.16. <https://CRAN.R-project.org/package=seacarb>
- Gattuso J.-P., Williamson P., Duarte C. & Magnan A. K., 2021. The potential for ocean-based climate action: negative emissions technologies and beyond. *Frontiers in Climate* 2:575716.
- Kleypas J., Allemand D., Anthony K., Baker A. C., Beck M., Hale L. Z., Hilmi N., Hoegh-Guldberg O., Hughes T., Kaufman L., Kayanne H., Magnan A., Mcleod E., Mumby P., Palumbi S., Richmond R., Rinkevich B., Steneck R. S., Voolstra C. R., Wachenfeld D. & Gattuso J.-P., 2021. Designing a blueprint for coral reef survival. *Biological Conservation* 257:109107.
- Magnan A. K., Pörtner H.-O., Duvat V. K. E., Garschagen M., Guinder V. A., Hoegh-Guldberg O., Zommers Z. & Gattuso J.-P., 2021. Estimating the global aggregated risk of anthropogenic climate change. *Nature Climate Change* 11:879-885.
- 2022** Duarte C. M., Gattuso J.-P., Hancke K., Gundersen H., Filbee-Dexter K., Pedersen M. F., Middelburg J. J., Burrows M. T., Krumhansl K. A., Wernberg T., Moore P., Pessarrodona A., Bachmann Ørberg S., Pinto I. S., Assis J., Queirós A. M., Smale D. A., Bekkby T., Serrão E. A. & Krause-Jensen D., 2022. Global estimates of the extent and production of macroalgal forests. *Global Ecology and Biogeography* 31:1422-1439.
- Fourrier M., Coppola L., d'Ortenzio F., Migon C. & Gattuso J.-P., 2022. Impact of intermittent convection in the northwestern Mediterranean Sea on oxygen content, nutrients and the carbonate system. *Journal of Geophysical Research- Oceans* 127:e2022JC018615.
- Williamson P. & Gattuso J.-P., 2022. Carbon removal using coastal blue carbon ecosystems is uncertain and unreliable, with questionable climatic cost-effectiveness. *Frontiers in Climate* 4.
- Fourrier M., Coppola L., d'Ortenzio F., Migon C. & Gattuso J.-P., 2022. Impact of intermittent convection in the northwestern Mediterranean Sea on oxygen content, nutrients and the carbonate system. *Journal of Geophysical Research- Oceans* 127:e2022JC018615.
- Lebrun A., Comeau S., Gazeau F. & Gattuso J.-P., 2022. Impact of climate change on coastal Arctic benthic communities. *Global and Planetary Change* 219:103980.
- 2023** Boyd P. W., Claustre H., Legendre L., Gattuso J.-P. & Le Traon P.-Y., in press. Operational monitoring of open-ocean carbon dioxide removal deployments: detection, attribution, and determination of side-effects. *Oceanography* 36:2-10.
- Gattuso J.-P., Alliouane S. & Fischer P., 2023. High-frequency, year-round time series of the carbonate chemistry in a high-Arctic fjord (Svalbard). *Earth System Science Data* 15:2809-2825.
- Jiang L.-Q., Dunne J., Carter B. R., Tjiputra J. F., Terhaar J., Sharp J. D., Olsen A., Alin S., Bakker D. C. E., Feely R. A., Gattuso J.-P., Hogan P., Ilyina T., Lange N., Lauvset S. K., Lewis E. R., Lovato T., Palmieri J., Santana-Falcón Y., Schwinger J., Séférian R., Strand G., Swart N., Tanhua T., Tsujino H., Wanninkhof R., Watanabe M., Yamamoto A. & Ziehn T., 2023. Global surface ocean acidification indicators from 1750 to 2100. *Journal of Advances in Modeling Earth Systems* 15:e2022MS003563.
- Jiang L., Subhas A., Basso D., Fennel K. & Gattuso J.-P., 2023. Data reporting and sharing for ocean alkalinity enhancement research. *State of the Planet Guide to best practices in ocean alkalinity enhancement research*. doi:10.5194/sp-2-oae2023-13-2023.
- Oschlies A., Stevenson A., Bach L. T., Fennel K., Rickaby R., Satterfield T., Webb R. & Gattuso J.-P., 2023 (eds). *Guide to Best Practices in Ocean Alkalinity Enhancement Research (OAE Guide 23)*. 2-oae2023p. Copernicus Publications. doi:10.5194/sp-2-oae2023.

- Oschlies A., Bach L., Rickaby R., Satterfield T., Webb R. M. & Gattuso J.-P., 2023. Climate targets, carbon dioxide removal and the potential role of ocean alkalinity enhancement. In: Oschlies A., Stevenson A., Bach L., Fennel K., Rickaby R., Satterfield T., Webb R. M. & Gattuso J.-P. (Eds.), *Guide to best practices in ocean alkalinity enhancement research*. doi:10.5194/sp-2-oea2023-1-2023.
- Schlegel R., Bartsch I., Bischof K., Bjørst L., Dannevig H., Diehl N., Duarte P., Hovelsrud G., Juul-Pedersen T., Lebrun A., Merillett L., Miller C., Ren C., Sjer M., Søreide J. & Gattuso J.-P., 2023. Drivers of change in Arctic fjord socio-ecological systems: examples from the European Arctic. *Cambridge Prisms: Coastal Futures* 1:e13. doi:10.1017/cft.2023.1.
- Schlegel R. W. & Gattuso J.-P., 2023. A dataset for investigating socio-ecological changes in Arctic fjords. *Earth System Science Data* 15:3733-3746.
- 2024** Attard K., Singh R. K., Gattuso J.-P., Filbee-Dexter K., Krause-Jensen D., Kühl M., Sejr M. K., Archambault P., Babin M., Bélanger S., Berg P., Glud R. N., Hancke K., Jänicke S., Qin J., Rysgaard S., Sørensen E. B., Tachon F., Wenzhöfer F. & Ardyna M., 2024. Seafloor primary production in a changing Arctic Ocean. *Proceedings of the National Academy of Science U.S.A.* 121:e2303366121.
- Deprez L., Leadley P., Dooley K., Williamson P., Cramer C., Gattuso J.-P., Rankovic A., Carlson E. L. & Creutzig F., 2024. Sustainability limits needed for CO₂ removal. *Science* 383:484-486.
- Filbee-Dexter K., Pessarrodona A., Pedersen M. F., Wernberg T., Duarte C. M., Assis J., Bekkby T., Burrows M. T., Carlson D. F., Gattuso J.-P., Gundersen H., Hancke K., Krumhansl K. A., Kuwae T., Middelburg J. J., Moore P., Bachmann Ørberg S., Queirós A. M., Serrão E. A., Smale D. A., Pinto I. S., Suzuki N. & Krause-Jensen D., 2024. Carbon export from seaweed forests to deep ocean sinks. *Nature Geoscience* 17:552-559.
- Hulver A. M., Carbonne C., Teixidó N., Comeau S., Kemp D. W., Keister E. F., Gattuso J.-P. & Grottoli A. G., 2024. Elevated heterotrophic capacity as a strategy for Mediterranean corals to cope with low pH at CO₂ vents. *PLoS ONE* 19:e0306725.
- Hurd C. L., Gattuso J.-P. & Boyd P. W., 2024. Air-sea carbon dioxide equilibrium: Will it be possible to use seaweeds for carbon removal offsets? *Journal of Phycology* 60:4-14.
- Pernet F., Dupond S., Gattuso J.-P., Metian M. & Gazeau F., 2024. Cracking the myth: Bivalve farming is not a CO₂ sink. *Reviews in Aquaculture*.
- Schlegel R. W., Singh R. K., Gentili B., Bélanger S., Castro de la Guardia L., Krause-Jensen D., Miller C. A., Sejr M. & Gattuso J.-P., 2024. Underwater light environment in Arctic fjords. *Earth System Science Data* 16:2773-2788.
- Teixidó N., Carlot J., Alliouane S., Ballesteros E., De Vittor C., Gambi M. C., Gattuso J., Kroeker K., Micheli F., Mirasole A., Parravacini V. & Villéger S., 2024. Functional changes across marine habitats due to ocean acidification. *Global Change Biology* 30, e17105. doi:10.1111/gcb.17105.
- 2025** Boyd P. W., Gattuso J.-P., Dai M., Legendre L., Satterfield T. & Webb R., 2025. The need to explore the potential of marine CDR – A guide for policy makers. 12 p. New-York: Sabin Center for Climate Change Law, Columbia Law School. doi:10.5281/zenodo.14692650
- Carlot J., Galobart C., Gómez-Gras D., Santamaría J., Golo R., Sini M., Cebrian E., Gerovasileiou V., Ponti M., Turicchia E., Comeau S., Rilov G., Tamburello L., Pulido Mantas T., Cerrano C., Ledoux J. B., Gattuso J.-P., Ramirez-Calero S., Millan L., Montefalcone M., Katsanevakis S., Bensoussan N., Garrabou J. & Teixidó N., 2025. Vulnerability of benthic trait diversity across the Mediterranean Sea following mass mortality events. *Nature Communications* 16:1571.
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- Lebrun A., Miller C., Gazeau F., Urruti P., Alliouane S., Gattuso J.-P. & Comeau S., in press. Tolerance

of organisms composing an Arctic kelp community to ocean warming and marine heatwaves. *Journal of Ecology*.

- Metzl N., Fin J., Lo Monaco C., Mignon C., Alliouane S., Bombled B., Boutin J., Bozec Y., Comeau S., Conan P., Coppola L., Cuet P., Ferreira E., Gattuso J.-P., Gazeau F., Goyet C., Grossteffan E., Lansard B., Lefèvre D., Lefèvre N., Leseurre C., Petton S., Pujo-Pay M., Rabouille C., Reverdin G., Ridame C., Rimmelin-Maury P., TERNON J.-F., Touratier F., Tribollet A., Wagener T. & Wimart-Rousseau C., 2025. An updated synthesis of ocean total alkalinity and dissolved inorganic carbon measurements from 1993 to 2023: the SNAPO-CO2-v2 dataset. *Earth System Science Data* 17:1075-1100.
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