Curriculum Vitae Dr. Narissa Bax

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Education: **Double BSc** Marine Biology, Ecology and Biodiversity at Victoria University of Wellington/Te Whare Wananga o te Upoko o te Ika a Maui, New Zealand, including a semester at the University of Hawai‘i at Mānoa. **BSc with Honours** Institute of Antarctic and Southern Ocean Studies, University of Tasmania, Australia
PhD Institute for Marine and Antarctic Studies (IMAS), University of Tasmania (Utas), Australia

Profile: Dr. Bax is a marine ecologist and deep-sea coral specialist with a research focus on polar and subpolar seabeds and how these biodiverse environments contribute to the carbon cycle in the context of climate change (Blue Carbon). The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services and the Intergovernmental Panel on Climate Change have acknowledged her research, citing the Bax et al. (2021) policy-science collaboration for the protection of Antarctic blue carbon in their joint report prior to COP-26. She presented on blue carbon at COP-27 in 2022, COP-29 in 2024 and COP-30 as part of a Deep Ocean Stewardship Initiative (DOSI) delegation. In 2023, she was honoured to be included in a Powerhouse Museum exhibition as one of Australia's leaders for 100 climate conversations, awarded the Deep Ocean Observing Strategy (DOOS) Future Leader in Deep-Sea Science (DOERs) Honorarium in 2022, and chosen as a DOOS Ambassador in 2025. She coordinates a sub-Antarctic eDNA study of giant kelp forests and a sub-Antarctic Blue Carbon and Natural Archives network. In 2024, Dr. Bax joined the Greenland Climate Research Centre, uniquely bridging the Arctic and Antarctic.
Research Statement: I have conducted research in remote, biodiverse regions, including Antarctica, the Falkland Islands (Islas Malvinas), Greenland, and Myanmar, with a primary focus on the intersection of science and policy in marine protected area management. This research combines ecology with complementary and collaborative techniques, like taxonomy, genomics, eDNA, geochemistry, geochronology, and habitat mapping, to build a comprehensive picture of ecosystem vulnerability. For example, my research in Greenland integrates ROV-collected specimens with pan-Arctic museum collections to map stylasterid coral distributions across the North Atlantic. By analysing coral skeletal mineralogy and establishing radiocarbon ages, this work aims to test hypotheses about the role of the Atlantic Meridional Overturning Circulation (AMOC) and the aragonite saturation horizon in creating deep-sea refugia. To ensure that results are directly applicable to policy and management, outputs will inform Greenland's Seafloor Management Plan, the protection of Vulnerable Marine Ecosystems (VMEs), and fisheries sustainability certifications (e.g., Marine Stewardship Council), all of which are critical to Greenland's economy, accounting for 80% of national exports. This research is also linked to an international network of natural history museums, geochemists, geochronologists, social scientists, economists, lawyers, and industry professionals who are working to standardise data collection for United Nations-level global observation and policy.
Teaching Statement: My teaching approach is directly transferable to supporting the next generation of scientists to solve the complexities of climate change and biodiversity loss, along with the strategic thinking needed to bring conservation frameworks into meaningful implementation. To accomplish this, I will structure my teaching around tangible, real-world challenges; for example, the management of the world's largest marine protected area, the Ross Sea, and the basis of the Antarctic Treaty and the UN's Biodiversity Beyond National Jurisdiction (BBNJ) Agreement, which came into effect in January 2026, will serve as a central case study for students to learn about the entire science-to-policy lifecycle. As an example, my decade of research and collaboration in the Antarctic and sub-Antarctic lends itself to engaging case studies for understanding deep-sea biodiversity, and my most recent collaborative publications on deep-sea mining and marine carbon dioxide removal (mCDR) directly address the scientific requirements of environmental impact assessments (EIAs) and the potential for climate-smart high-sea MPAs in relation to the core components of the BBNJ Agreement. My international student mentorship (Namibia, New Zealand, and the Netherlands), co-development of accessible, low-cost monitoring tools using AI and affordable cameras for locations such as Greenland, and participation in multiple diverse working groups all demonstrate my commitment to capacity building and the transfer of marine technology to future professionals who are strategic, collaborative, and empowered to protect our shared marine heritage.

Teaching Experience:
2009 – 2013 Molecular Ecology, Antarctic Masters of Science course at the University of Tasmania.
2010 Tutor at the University of Tasmania: first year undergraduate unit - Introduction to Antarctic Studies 1B.

2004 TEFL Certification, Phnom Penh, Cambodia at the Australian Centre of Education (ACE).
2003 TDM Language College Wuchang, Wuhan, China Job Title: English Teacher ages 5 – 12 years.

Students:

Pluto Liu, PhD in sub-Antarctic macroalgal genomics, University of Otago, New Zealand
Arisha September, MSc in macroalgal biodiversity, Kelp Blue, Namibia
Jens bjørnstad, MSc in Marine Sciences, Utrecht University, Netherlands. **Thesis:** Case study on the Marine Biodiversity in the Falkland Islands, A literature review of kelp forest biodiversity and eDNA data comparisons

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Current Research Funding:

BEAUT – Biodiversity of East Antarctica: Underwater and Terrestrial Australia (2023-2033) AUD$372,000
The potential of macroalgae in Greenland's fjords – missing links in blue carbon analysis (2024-2026) DKK100.000

Employment (2007 - 2023):

2023 - 2026 Greenland Institute of Natural Resources, Greenland Climate Research Centre, Nukk, Greenland
2021 - 2023 South Atlantic Environmental Research Institute, Stanley, Falkland Islands
2020 Australian Antarctic Division, Environmental Protection and Change Program, Hobart, Tasmania, Australia
2018 - 2020 Australian National Fish Collection, Commonwealth Scientific and Industrial Research Organisation, Marine and Atmospheric Research, Hobart, Tasmania, Australia
2017 Commonwealth Scientific and Industrial Research Organisation project: seafloor geological characterisation of the Great Australian Bight submarine canyons, potential hydrocarbon seeps and volcanic seamounts - hard coral identification **2016 Australian Faunal Directory -** Taxonomic editor for Hydrozoans
2016 Fauna and Flora International, Myanmar - Project manager for the Mienmahla Kyun Wildlife Sanctuary Conservation Program, Ayerwaddy Delta, Myanmar. Responsible for the 5-year management plan for Meinmahla Kyun ASEAN Heritage Park (finalised in collaboration with government, community, local and international NGOs in 2016, and contributing to Ramsar designation for the region in 2017)
2015 University of Tasmania: genetics to inform habitat dependence/independence for conservation management
2009 Antarctic Climate and Ecosystems Cooperative Research Centre: Technician investigating implications of ocean acidification for micro-benthic organisms in the Southern Ocean
2008 Caribbean Coral Reef Ecosystems, Smithsonian Institute, Carrie Bow Cay, Belize. Research assistant
2007 – 2008 Smithsonian Tropical Research Institute, Bocas del Toro, Panama. Research assistant
2007 National Oceanic and Atmospheric Administration: GIS mapping to assess the abundance of *Lingula reevii*, a lophophorate brachiopod with a highly disjunct distribution, and *Montipora dilatata*, a rare coral species at the Hawaii Institute of Marine Biology

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Polar Field Work:

2009/10 Biologist on the **Australian Antarctic Division** marine science project: Southern Ocean calcareous zooplankton response to ocean acidification
Biologist on the **Australian Antarctic Division** marine science project: Impacts of trawling on benthic habitats in the sub-Antarctic and high Antarctic
2010/11 Biologist on the **Muséum National d'Histoire Naturelle** research project: Radiation and Evolution in Terre Adelie, Dumont d'Urville, Antarctica
2011 Biologist on the **Scripps Institution of Oceanography** research project: Genetic connectivity along the Scotia Arc. R/V Nathaniel B Palmer research expedition NBP 11-05
2013 Technician on the L'Astrolabe **CSIRO** project in collaboration with The **Antarctic Climate and Ecosystems Cooperative Research Centre**, **Australian Antarctic Division** and **Institute Polaire Français**
2017 Principle Investigator during leg 3, and benthic ecologist during leg 2 for the **Antarctic Seabed Carbon Capture Change** project during the **Antarctic Circumnavigation Expedition**
2021 Principle Investigator, **Mesophotic research voyage to Bird Island**, a Marine Managed Area, Falkland Islands
2023 BlueCea carbon stock and diversity in East Greenland, Sermilik and Ammassalik fjords
2023 Principle Investigator **Sub-Antarctic eDNA** program for the Falkland Islands, Crozet, Amsterdam, Saint Paul and Kerguelen Islands
2024 Standard hydrografi and BlueCea carbon stock and diversity, Faroe Islands shelf
2024 DeepTrace carbon stock and diversity in East Greenland, tracing changes in biodiversity and species composition from the coast along the shelf and into the deep sea of the continental slope

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Media and Public Engagements:
The deep sea and the Arctic must be included in efforts to tackle climate change The Conversation **(2025)**
Deep Ocean Observing Strategy (DOOS) future leaders in ocean observing **(2025)**
This deep-sea worm creates a toxic yellow pigment found in Rembrandt and Cézanne paintings Nature News **(2025)**
Blue Carbon in Greenland interview in Oceanographic Magazine **(2024)**
Interview on Blue Carbon for Faroese TV **(2024)**
Falkland kelp eDNA project featured by Nature Metrics **(2024)**
100 Climate Conversations, presented by the Powerhouse Museum **(2023)**
Falkland Kelp eDNA project featured in French national television series on TF1 **(2023)**
Falkland Kelp eDNA project launch in Monaco for Ocean Week **(2023)**
The Deep-Sea, the Climate and the Next Generation. COP-27 Climate Education Hub on Earth Day **(2022)**
Podcast: Talk Nerdy with Cara Santa Maria **(2021)**
Press release: Oceans for life: building a sustainable and equitable blue economy **(2021)**
Asia Times: Myanmar's stunning biodiversity at risk after coup **(2021)**
The Conversation: Myanmar's coup is a blow to democracy, and the nation's stunning biodiversity **(2021)**
Media release: International legal protection proposed for Antarctica's carbon reduction role **(2020)**
Buzzfeed: In Antarctica, The #MeToo Movement Faces Unique Hurdles **(2020)**
Wired opinion: we need to protect Antarctic Blue Carbon **(2019)**
Women in the Arctic and Antarctic March profile and field-work reflections interview **(2019)**
Hobart Magazine science interview March edition and Carbon Pricing, Part II **(2019)**
Exhibition opening for the artist Wendy Steinberg 'Creatures of the Deep' at the Salamanca Arts Centre **(2018)**
D Barnes., C Sands., **N Bax**., R Downey., C Held., O Hogg., C Moreau., B Moreno & M Lund Paulsen **(2017)**
Blue carbon, cold water - nature's fightback against climate change Darwin Initiative Newsletter August.
Al Jazeera English **(2017)** https://www.youtube.com/watch?
D Barnes., C Sands., **N Bax**., R Downey., C Held., O Hogg., K Minin., C Moreau., B Moreno & M Lund Paulsen **(2016)** Guest post: An Antarctic voyage in search of blue carbon. The Carbon Brief
Find more on the webpage Dr Bax

Select Conference Presentations:
Panel presentation and discussion COP-30: Educating for the Cryosphere, Belem, Brazil 2025
Panel presentation and discussion COP-29: Balancing Deep-Ocean Biodiversity, Carbon, Resources and Resilience in the Search for Climate Solutions, Baku, Azerbaijan 2024
Presentation: BlueCea: Blue carbon in Greenland and the Faroe Islands, Greenland–Iceland-Faroe Islands Cooperation Workshop, Tórshavn, Faroe Islands, 2024
Plenary Presentation: European Marine Biology Symposium, Bridging the Ice-Ocean-Deep Divides: Blue Carbon and Biodiversity Protection in Polar Regions, 56th European Marine Biology Symposium Reykjavik, Iceland, 2023
Panel presentation and discussion COP-27: The Deep-Sea, the Climate and the Next Generation
Panel presentation and discussion COP-27: Blue carbon: the ocean's role in fighting climate change
Panel presentation and discussion COP-27: Seabed 2030: mapping for people and the planet
Co-convener: The Antarctic Seafloor – Ecosystem interactions and environmental drivers of change at the Scientific Committee for Antarctic Research (SCAR) Open science online conference 2020 & 2022
Opening presentation for the DOOS annual meeting "Addressing Global Challenges in the Deep Sea through Collaboration" What are the greatest challenges to the deep sea? DOERs Perspectives, 2022
Theme lead: Blue carbon - Sub-Antarctic Connectivity and Climate Change Symposium 2021, Wilton Park, UK
Co-convener: The Antarctic Seafloor – Ecosystem interactions and environmental drivers of change at the Scientific Committee for Antarctic Research (SCAR) Open science online conference 2020
Keynote: Reflections on an atypical decade of marine sampling. Association of Polar Early Career Scientists International Online Conference 2019, "Breaking Barriers: Promoting Interdisciplinarity in Polar Science"
Oral: Protecting Antarctic blue carbon: as marine ice retreats can the law fill the gap? Asia-Pacific Workshop on International Law, Climate Change, Oceans and Coasts. Hobart, Tasmania 2018.
Oral: Carbon storage by Kerguelen zoobenthos as a negative feedback on climate change. Kerguelen Plateau Symposium II. Commision for the Conservation of Antarctic Marine Living Resources, Tasmania 2017.
Oral: How important is carbon storage by southern polar benthos as a negative feedback on climate change? XIIth Scientific Committee on Antarctic Research (SCAR) Biology Symposium, Leuven, Belgium 2017.

Additional Skills: Tasmanian State Emergency Services Search and Rescue unit's training management. Wilderness first aid, land search and rescue, venomous snake handling, bushfire awareness, emergency life support, incident scene

safety, and rescue operations. Mental health, wellbeing, trauma, and disaster resilience leadership. Powerboat and sailing certifications in coastal and nearshore navigation, oil spill first response, sea safety and scientific SCUBA diving. A qualified firefighter with the Falkland Islands Fire and Rescue Service. Shortlisted for the Award XXVII 'Climate' in New Philosopher for an essay on deep sea conservation. Honorary Curator of Zoology, Tasmanian Museum and Art Gallery, Tasmania, Australia. Global Ocean Observing System (GOOS) Biology and Ecosystems panel member co-leading the Essential Ocean Variable (EOV) Coral and Deep Ocean Stewardship Initiative (DOSI) advisory board member (2024 - 2027).

Journal Publications: ***citations 1615, h-index 20, i10-index 23***

Martín Míguez, B., Heslop, E., **Bax, N**., Benedetti-Cecchi, L., Canonico, G., Currie, K., ... & Yu, W. **(2026)** GOOS Essential Ocean Variables: the backbone of a sustained and evolving global ocean observing system. Frontiers in Marine Science, 13, Art-Nr. https://doi.org/10.3389/fmars.2026.1737002

Hilmi, N., Dbouk, W., Crisóstomo, M., Couvreur, C., Arruda, G., Aziza, A., & **Bax, N. (2026)** Governing the deep: Economic, ecological, and legal perspectives on deep-sea mining in areas beyond national jurisdiction. *Marine Policy*, 183, 106887. https://doi.org/10.1016/j.marpol.2025.106887

Plasman, C., Hancock, A. M., Raymond, B., **Bax, N**., Fierro-Arcos, D., Henley, S. F., ... & Van de Putte, A. **(2026)** Developing Essential Biodiversity Variables for the Southern Ocean: From data gaps to valuable insights. *Elem Sci Anth*, 14(1), 00038. https://doi.org/10.1525/elementa.2025.00038

Samimi-Namin, K., **Bax, N**., Guðmundsson, G., Sampaio, Í., & Cairns, S. D. **(2026)** Northernmost record of Crypthelia medioatlantica (Hydrozoa: Stylasteridae) in Icelandic deep waters. Marine Biodiversity, 56(1), 11.

von Schuckmann, K., Godoy-Faundez, A., Garçon, V., Muller-Karger, F.E., Evans, K., Appeltans, W., **Bax, N**., Cecchi, L.B., Bernard, A., Bernard, K. and Byrnes, J., **(2026)** Global ocean indicators: Marking pathways at the science-policy nexus. Marine Policy, 184, p.106922. https://doi.org/10.1016/j.marpol.2025.106922

Allcock, A. L., Amon, D. J., Bridges, A. E., Colaço, A., Escobar-Briones, E., Hilário, A., Howell, K, L., Mestre N, C., Muller-Karger, F, E., Priede, I, G., Snelgrove, P, V, R., Sullivan Sealey, K., Xavier J, R., Addamo, A, M., Amaro, T., Bandara, G., **Bax, N**., Braga-Henriques, A., Brandt, A., Brix, S., Cambronero-Solano, S., Cedeño-Posso, C., Copley, J.T., Cordes, E., Cortés J., Croquer, A., Cuvelier, D., Davies, J,S., Durden, J.M., Esquete, P., Foster, N,L., Frutos I., Gasbarro R., Gates, A,R., Gomes, M., Goodwin, L,V,M., Horton, T., Hourigan, T., Hoving, H-J., Jones, D,O,B., Joshi, S., Kingon, K, C., Lörz, A-N., Martins, A., Merten, V., Metaxas, A., Milligan, R,J., Molodtsova, T,N., Morato, T., Morrissey, D., Naranjo-Elizondo, B., Narayanaswamy, B,E., Olafsdottir, S,H., Parimbelli, A., Peña, M., Piechaud, N., Ragnarsson, S., Ramalho, S,P., Rodrigues,C,F., Ross, E,R., Saeedi, H., Santos, R., Schwing, P, T., Serpa, T., Shantharam, A, K., Stevenson, A., Yánez-Suárez, A, B., Sutton, T,T., Svavarsson, J., Taylor, M,L., van der Grient, J., & Zwerschke, N. **(2025)**. Deep-sea ecosystems of the North Atlantic Ocean: discovery, status, function and future challenges. *Deep Sea Research Part I: Oceanographic Research Papers*, 104580. https://doi.org/10.1016/j.dsr.2025.104580

Bax, N., Halpin, J., Long, S., Yesson, C., Marlow, J., & Zwerschke, N. **(2025)**. The Potential of Low-Tech Tools and Artificial Intelligence for Monitoring Blue Carbon in Greenland's Deep Sea. *Oceanography*. https://doi.org/10.5670/OCEANOG.2025E112

Gallo, N.D., Metaxas, A., Lidström, S., Hetherington, E., Alfaro-Lucas, J.M., Amon, D., Barry, J., **Bax, N**., Boyd, P.W., Colaço, A. & Elegbede, I. **(2025)**. Illuminating deep-sea considerations and experimental approaches for mCDR proposals. *Environmental Research Letters*, 20(6), p.061003. http://dx.doi.org/10.1088/1748-9326/add8a6

Morley, SA., DKA Barnes, Neder C, Sahade R, J. Sands C, Balazy K, Balazy P, Barrera F, Bax N, Becerra S, Bergagna L, Błachowiak-Samołyk K, Braeckman U, Campana G, Deregibus D, De Troch M, Devis-Morales A, Díaz P, Doyle S, Zielinski O., Standardising research on marine biological carbon pathways required to estimate sequestration at Polar and sub-Polar latitudes. *Earth-Science Reviews* **(2025)**: 105372. https://doi.org/10.1016/j.earscirev.2025.105372

Sigwart, J. D., Allcock, A. L., Arantes, R. C. M., Barnhill, K. A., **Bax, N**., Beneti, J. S., ... & de Wilt, M. E. **(2025)**. The first IUCN Red List of cold-water corals highlights global declines. *Marine Biodiversity*, 55(3), 1-16. https://doi.org/10.1007/s12526-025-01533-0

Gaffey, C. B., **Bax, N**., Krauzig, N., & Tougeron, K. **(2024)**. A call to strengthen international collaboration to assess climate change effects in polar regions. *PLOS Climate*, 3(10), e0000495. https://doi.org/10.1371/JOURNAL.PCLM.0000495

Morrissey, D. & **Bax, N. (2024)** *Distichoptilum gracile*. The IUCN Red List of Threatened Species https://www.iucnredlist.org/species/244923296/244936901

Pillar, H. R., Hetherington, E., Levin, L. A., Cimoli, L., Lauderdale, J. M., van der Grient, J. M. A., Johannes, K., Heimbach, P., Smith, L., Addey, C. I., Annasawmy, P., Antonio, S., **Bax, N**., Drake, H. F., Escobar, E., Elsler, L. G., Freilich, M. A., Gallo, N. D., Girard, F., … & Trossman, D. **(2024)**. Future directions for deep ocean climate science and evidence-based decision making. *Frontiers in Climate*, 6, 1445694. https://doi.org/10.3389/FCLIM.2024.1445694/PDF

Bax N, and Carter S (2023). Discovery of solar sea slugs in the Falkland Islands. Frontiers in *Ecology and the Environment*, 21(8), 396 https://doi.org/10.1002/fee.2674

Tomsa, D, and **Bax N, (2023)**. Democratic Regression and Environmental Politics in Indonesia. *Asian Studies Review*, 1-21 https://doi.org/10.1080/10357823.2023.2189690

Bridges, AEH, Howell KL, Amaro T, Atkinson L, Barnes DKA, **Bax N**, Bell JB, Bernardino AF, Beuck L, Braga-Henriques A, Brandt A, Bravo ME, Brix S, Butt S, Carranza A, Doti BL, Elegbede IO, Esquete P, Freiwald A, Gaudron SM, Guilhon M, Hebbeln D, Horton T, Kainge P, Kaiser S, Lauretta D, Limongi P, McQuaid KA, Milligan RJ, Miloslavich P, Narayanaswamy BE, Orejas C, Paulus S, Pearman TRR, Perez JAA, Ross RE, Saeedi H, Shimabukuro M, Sink K, Stevenson A, Taylor M, Titschack J, Vieira RP, Vinha B & Wienberg C **(2023)** Review of the Central and South Atlantic Shelf and Deep-Sea Benthos: Science, Policy, and Management. *Oceanography and Marine Biology*, (pp. 127–218). CRC Press https://doi.org/10.1201/9781003363873-5

Jansen, J., et al **(2023)** The Antarctic Seafloor Annotated Imagery Database. *In press. Nature, Scientific Data*

Sands CJ, Zwerschke N, **Bax N**, Barnes DKA, Moreau C, Downey R, Moreno B, Held C & Paulsen M **(2023)**. Perspective: The growing potential of Antarctic blue carbon. In Frontiers in Ocean Observing: Emerging Technologies for Understanding and Managing a Changing Ocean. E.S. Kappel, V. Cullen, M.J. Costello, L. Galgani, C. Gordó-Vilaseca, A. Govindarajan, S. Kouhi, C. Lavin, L. McCartin, J.D. Müller, B. Pirenne, T. Tanhua, Q. Zhao, and S. Zhao, eds, *Oceanography 36(Supplement 1)* https://doi.org/10.5670/oceanog.2023.s1.5

Bax N, D.K.A Barnes, S.E.A. Pineda-Metz, T. Pearman, M. Diesing, S. Carter, R. Downey, C.D Evans, P. Brickle, A. Baylis, A. Adler, A. Guest, K.A. Layton, P. B Brewin and D.T.I Bayley **(2022)** Towards incorporation of blue carbon in Falkland Islands marine spatial planning: a multi-tiered approach. *Frontiers in Marine Science*.9 https://doi.org/10.3389/fmars.2022.872727

Bax N, Novaglio C, Maxwell KH, Meyers K, McCann J, Jennings S, Frusher S, Fulton EA, Nursey-Bray M, Fischer M, Anderson KC, Layton C, Reza Emad G, Rousseau Y, Alexander KA, Z Lunn and Carter CG **(2021)**. Ocean resource use: building the coastal blue economy. *Reviews in Fish Biology and Fisheries.* 1-19 https://doi.org/10.1007/s11160-021-09636-0

Barnes, D. K. A., C. J. Sands, M. L. Paulsen, B. Moreno, C. Moreau, C. Held, R. Downey, **N. Bax**, J. Stark, and N. Zwerschke **(2021)** "Societal importance of Antarctic negative feedbacks on climate change: blue carbon gains from sea ice, ice shelf and glacier losses." *The Science of Nature* 108, no. 5: 1-14 https://doi.org/10.1007/s00114-021-01748-8

Brasier, M.J., Barnes, D., **Bax, N**., Brandt, A., Christianson, A.B., Constable, A.J., Downey, R., Figuerola, B., Griffiths, H., Gutt, J. and Lockhart, S., **(2021)**. Responses of Southern Ocean seafloor habitats and communities to global and local drivers of change. *Frontiers in Marine Science*, 8, p.109 https://doi.org/10.3389/fmars.2021.622721

Figuerola, B., Hancock, A.M., **Bax, N**., Cummings, V.J., Downey, R., Griffiths, H.J., Smith, J. and Stark, J.S., **(2021)**. A review and meta-analysis of potential impacts of ocean acidification on marine calcifiers from the Southern Ocean. *Frontiers in Marine Science*, 8, p.584445 https://doi.org/10.3389/fmars.2021.584445

Novaglio, C, **Bax N**, Boschetti F, Reza Emad G, Frusher S, Fullbrook L, Hemer M, Jennings S, van Putten EI,. Robinson LM, Spain E, Vince J, Voyer M, Wood G, and Fulton EA **(2021)**. Deep aspirations: towards a sustainable offshore blue economy. *Reviews in Fish Biology and Fisheries*. 32(1), pp.209-230 https://doi.org/10.1007/s11160-020-09628-6

Trebilco, R., Fleming, A., Hobday, A.J., Melbourne-Thomas, J., Meyer, A., McDonald, J., McCormack, P.C., Anderson, K., **Bax, N**., Corney, S.P. and Dutra, L.X., **(2021)**. Warming world, changing ocean: mitigation and adaptation to support resilient marine systems. *Reviews in fish biology and fisheries*, pp.1-25 https://doi.org/10.1007/s11160-021-09678-4

Ward D, Layton C, **Bax N**, Brasier M, Cavan E, Edgar G, Evans K, Green M, Hunt H, Jansen J, Jones R, Lea MA, Ling SD, Makomere R, McCormack PC, Mull C, Norris KJ, Novaglio C, Scott J, Semmens JM, Shaw J, Tinch D, Trebilco R, and van Steveninck T **(2021)**. Safeguarding marine life: conservation of biodiversity and ecosystems. *Reviews in Fish Biology and Fisheries*. https://doi.org/10.1007/s11160-022-09700-3

Bax N, Sands CJ, Gogarty G, McGee J, Barnes DKA, Haward M, Downey R, Moreau C, Moreno B, Held C, Paulsen M and Barnes DKA **(2021)**. Perspective: Increasing Blue Carbon around Antarctica is an ecosystem service of

considerable societal and economic value worth protecting. *Global Change Biology*. 27(1): 5-12 https://doi.org/10.1111/gcb.15392

Brasier MJ, McCormack S, **Bax N**, Caccavo JA, Cavan E, Ericson JA, Figuerola B, Hancock A, Halfter S, Hellesey N, Höfer J, Puskic PS, Soares de Oliveira C, Subramaniam RC, Wallis J, and Weldrick CK **(2020)**. Overcoming the obstacles faced by early career researchers in large-scale initiatives: perspectives from the Marine Ecosystem Assessment for the Southern Ocean. *Frontiers in Marine Science*. 7, 692 https://doi.org/10.3389/fmars.2020.00692

Gogarty B, **Bax N**, Barnes DKA, Sands CJ, McGee J, Haward M, Lund Paulsen M, Moreno B, Moreau C, Held C, and Downey R **(2020)**. Part Five: Innovative governance for marine-based climate mitigation. Protecting Antarctica's coastal blue carbon: a case for international cooperation. Research Handbook on Climate Change, Oceans and Coasts. *Edward Elgar Publishing*, 2020 https://doi.org/10.4337/9781788112239.00034

Saucède T, Eléaume M, Vignes-Lebbe R, Jossart Q, C moreau, Downey R, **Bax N**, Sands CJ, and Mercado B **(2020)**. Taxonomy 2.0: computer-aided identification tools to assist Antarctic biologists in the field and in the lab". *Antarctic Science,* 1-13 https://doi.org/10.1017/S0954102020000462

Bax N, Moreno B, Moreau C, Barnes DKA, Lund Paulsen M, Held C, Downey R, Sands CJ, and Souster T **(2019)** Carbon storage by Kerguelen zoobenthos as a negative feedback on climate change. pp 119-123 In: Welsford, D., J. Dell and G. Duhamel (Eds). The Kerguelen Plateau: marine ecosystem and fisheries. *Proceedings of the Second Symposium*. Australian Antarctic Division, Kingston, Tasmania, Australia. ISBN: 978-1-876934-30-9 https://nora.nerc.ac.uk/id/eprint/524203

Gogarty B, McGee J, Barnes DKA, Sands CJ, **Bax N**, Haward M, Downey R, Moreau C, Moreno B, Held C, and Lund Paulsen M **(2019)** Protecting Antarctic blue carbon: as marine ice retreats can the law fill the gap? *Climate Policy*, 20, no. 2 (2020): 149-162 https://doi.org/10.1080/14693062.2019.1694482

Bax N, and Cairns SD **(2014)** Stylasteridae (Cnidaria; Hydrozoa). In: DeBroyer, C., et al., Biogeographic Atlas of the Southern Ocean. *Cambridge*: SCAR, 107-112

Kaiser S, Brandão SN, Brix S, Barnes DK, Bowden DA, Ingels J, Leese F, Schiaparelli S, Arango CP, Badhe R, and **Bax N (2013)** Patterns, processes and vulnerability of the Southern Ocean benthos: a decadal leap in knowledge and understanding. *Marine biology*, 160: 2295-2317 https://doi.org/10.1007/s00227-013-2232-6

Select Report Publications

Lidström, S., Craik, N., Levin, L., **Bax, N**., Colaco, A., Dobush, B. J., ... & Valles, H. **(2025)** The deep ocean presents unique social and governance challenges that need to be addressed.

Zwerschke N., Arboe-Hammeken N., Barnes D., **Bax N**., de Montety L., Krawzyk D., Lysgård Hammer K., Mathews R., Merz A., Scaramiglia P., Siegstad H., Sinclair D., Sølbeck C., Thompsen F., Vonnahme T., Winding M., Zinglersen K. **(2024)** Cruise report for the Deep Trace cruise 2024-TA-06. Greenland Institute of Natural Resources, Nuuk, Greenland

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