

ASP Publications for 24-25 FY

Peer Reviewed Journal Papers [51]

1. Baldacchino, F., Golledge, N.R., Morlighem, M., Horgan, H., Alevropoulos-Borrill, A.V., Malyarenko, A., Gossart, A., Lowry, D.P., & Van Haastrecht, L. (2025). Modelling GNSS-observed seasonal velocity changes of the Ross Ice Shelf, Antarctica, using the Ice-sheet and Sea-level System Model (ISSM). *Cryosphere*, 19(1), 107-127.
<https://doi.org/10.5194/tc-19-107-2025>
2. Behrens, E., Grüss, A., Pinkerton, M., Parker, S., Rickard, G., & Stevens, C. (2024). Tropical teleconnections through the Amundsen Sea Low impact Antarctic toothfish recruitment within the Ross Gyre. *Scientific Reports*, 14(1). <https://doi.org/10.1038/s41598-024-78248-y>
3. Bennetts, L.G., Shakespeare, C.J., Vreugdenhil, C.A., Foppert, A., Gayen, B., Meyer, A., Morrison, A.K., Padman, L., Phillips, H.E., Stevens, C.L., Toffoli, A., Constantinou, N.C., Cusack, J.M., Cyriac, A., Doddridge, E.W., England, M.H., Evans, D.G., Heil, P., Hogg, A.M.C., Holmes, R.M., Huneke, W.G.C., Jones, N.L., Keating, S.R., Kiss, A.E., Kraitzman, N., Malyarenko, A., McConnochie, C.D., Meucci, A., Montiel, F., Neme, J., Nikurashin, M., Patel, R.S., Peng, J.P., Rayson, M., Rosevear, M.G., Sohail, T., Spence, P., & Stanley, G.J. (2024). Closing the Loops on Southern Ocean Dynamics: From the Circumpolar Current to Ice Shelves and From Bottom Mixing to Surface Waves. *Reviews of Geophysics*, 62(3).
<https://doi.org/10.1029/2022RG000781>
4. Byrne, M., & Lamare, M.D. (2024). Climate change and polar marine invertebrates: life-history responses in a warmer, high CO2 world. *Journal of Experimental Biology*, 227(23).
<https://doi.org/10.1242/jeb.245765>
5. Calkin, T., Dunbar, G.B., Atkins, C., Carter, A., Coenen, J.J., Eaves, S., Ginnane, C.E., Golledge, N.R., Harwood, D.M., Horgan, H.J., Hurwitz, B.C., Hulbe, C., Lawrence, J.D., Levy, R., Marschalek, J.W., Martin, A.P., Mullen, A.D., Neuhaus, S., Quartini, E., Schmidt, B.E., Stevens, C., Turnbull, J.C., Vermeesch, P., & Washam, P.M. (2024). Recent sedimentology at the grounding zone of the Kamb Ice stream, West Antarctica and implications for ice shelf extent. *Quaternary Science Reviews*, 344.
<https://doi.org/10.1016/j.quascirev.2024.108988>
6. Civel-Mazens, M., Crosta, X., Cortese, G., Lowe, V., Itaki, T., Ikehara, M., & Kohfeld, K. (2024). Subantarctic jet migrations regulate vertical mixing in the Southern Indian. *Earth and Planetary Science Letters*, 642. <https://doi.org/10.1016/j.epsl.2024.118877>
7. Cristi, A., Deppeler, S., Saint-Macary, A., Marriner, A., Latasa, M., Law, C.S., & Gutiérrez-Rodríguez, A. (2025). Eco-physiological response of *Phaeocystis antarctica* and *Fragilariopsis* sp. to increases in irradiance and temperature. *Journal of Plankton Research*, 47(4). <https://doi.org/10.1093/plankt/fbaf023>
8. Datta, R., Katurji, M., Nielsen, E., Meyer, H., Zawar-Reza, P., & Valdes, M.L. (2024). The Winter Foehn Footprint Across McMurdo Dry Valleys of Antarctica Using a Satellite-Derived Data Set-AntAir v1.0. *Journal of Geophysical Research: Atmospheres*, 129(23).
<https://doi.org/10.1029/2023JD039300>
9. Dawson, H.R.S., England, M.H., Morrison, A.K., Tamsitt, V., & Fraser, C.I. (2024). Floating debris and organisms can raft to Antarctic coasts from all major Southern Hemisphere landmasses. *Global Change Biology*, 30(8). <https://doi.org/10.1111/gcb.17467>
10. Egger, M., Booth, A.M., Bosker, T., Everaert, G., Garrard, S.L., Havas, V., Huntley, H.S., Koelmans, A.A., Kvale, K., Lebreton, L., Niemann, H., Pang, Q., Proietti, M., Puskic, P., Richon, C., Royer, S.J., Savoca, M.S., Tjallema, A., van Vulpen, M., Zhang, Y., Zhang, Z., & Mitrano, D.M. (2025). Evaluating the environmental impact of cleaning the North Pacific Garbage Patch. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-00619-w>

11. Fan, S., Wang, T., Prior, D.J., Breithaupt, T., Hager, T.F., & Wallis, D. (2025). Flow laws for ice constrained by 70 years of laboratory experiments. *Nature Geoscience*, 18(4), 296-304. <https://doi.org/10.1038/s41561-025-01661-z>
12. Forbes, M., & Hulbe, C. (2025). 2D analysis of rifts in ice shelves. *Journal of Glaciology*, 71. <https://doi.org/10.1017/jog.2024.108>
13. Gardiner, N.B., Gilbert, N., & Liggett, D. (2023). Taming a ‘fuzzy beast’? stakeholder perspectives on Antarctic science-policy knowledge exchange practices in New Zealand. *PLoS ONE*, 18(11 November). <https://doi.org/10.1371/journal.pone.0294063>
14. Gardiner, N.B., Gilbert, N., Liggett, D., & Bode, M. (2025). Measuring the performance of Antarctic Treaty decision-making. *Conservation Biology*, 39(1). <https://doi.org/10.1111/cobi.14349>
15. Gardiner, N.B., Liggett, D., Gilbert, N., & Cvitanovic, C. (2024). Practitioners’ perspectives on the enablers and barriers to successful Antarctic science-policy knowledge exchange. *Environmental Policy and Governance*. <https://doi.org/10.1002/eet.2143>
16. Golledge, N.R., Keller, E.D., Gossart, A., Malyarenko, A., Bahamondes-Dominguez, A., Krapp, M., Jendersie, S., Lowry, D.P., Alevropoulos-Borrill, A., & Notz, D. (2025). Antarctic coastal polynyas in the global climate system. *Nature Reviews Earth and Environment*, . <https://doi.org/10.1038/s43017-024-00634-x>
17. Gomez-Fell, R., Rack, W., Marsh, O.J., & Purdie, H. (2024). Lateral flexure of Erebus Ice Tongue due to ocean current forcing and fast ice coupling. *Journal of Glaciology*, 70. <https://doi.org/10.1017/jog.2024.21>
18. Grant, G.R., Naish, T.R., Keisling, B.A., Patterson, M.O., Kamp, P.J.J., Meyers, S.R., Strogon, D.P., Stocchi, P., & McKay, R.M. (2025). Reduced magnitude of Early Pleistocene intensification of Northern Hemisphere Glaciation. *Quaternary Science Reviews*, 349. <https://doi.org/10.1016/j.quascirev.2024.109096>
19. Griffiths, H.J., Cummings, V.J., Van de Putte, A., Whittle, R.J., & Waller, C.L. (2024). Antarctic benthic ecological change. *Nature Reviews Earth and Environment*, 5(9), 645-664. <https://doi.org/10.1038/s43017-024-00583-5>
20. Hawes, I., Howard-Williams, C., Webster-Brown, J., & Poirot, C. (2025). Restoration of legacy contaminated sites in Antarctica: Lessons from Vanda Station, McMurdo Dry Valleys. *Polar Record*, 61. <https://doi.org/10.1017/S0032247424000354>
21. Hofsteenge, M.G., Cullen, N.J., Sodemann, H., & Katurji, M. (2025). Synoptic Drivers and Moisture Sources of Snowfall in Coastal Victoria Land, Antarctica. *Journal of Geophysical Research: Atmospheres*, 130(4). <https://doi.org/10.1029/2024JD042021>
22. Horgan, H.J., Stewart, C., Stevens, C., Dunbar, G., Balfoort, L., Schmidt, B.E., Washam, P., Werder, M.A., Mandeno, D., Marschalek, J., Hulbe, C., Holschuh, N., Levy, R., Hurwitz, B., Jendersie, S., Johnson, K., Lawrence, J., Morgenstern, R., Mullen, A.D., Quartini, E., Sauthoff, W., Siegfried, M., Still, H., Thorpe-Loversuch, S., van de Flierdt, T., Venturelli, R., & Whiteford, A. (2025). A West Antarctic grounding-zone environment shaped by episodic water flow. *Nature Geoscience*, . <https://doi.org/10.1038/s41561-025-01687-3>
23. Jeunen, G.J., Mills, S., Lamare, M., Duffy, G.A., Knapp, M., Stanton, J.A.L., Mariani, S., Treece, J., Ferreira, S., Durán-Vinet, B., Zavodna, M., & Gemmell, N.J. (2024). Unlocking Antarctic molecular time-capsules – Recovering historical environmental DNA from museum-preserved sponges. *Molecular Ecology Resources*, 24(7). <https://doi.org/10.1111/1755-0998.14001>
24. Jeunen, G.J., Mills, S., Mariani, S., Treece, J., Ferreira, S., Stanton, J.A.L., Durán-Vinet, B., Duffy, G.A., Gemmell, N.J., & Lamare, M. (2024). Streamlining large-scale oceanic biomonitoring using passive eDNA samplers integrated into vessel’s continuous pump underway seawater systems. *Science of the Total Environment*, 946. <https://doi.org/10.1016/j.scitotenv.2024.174354>

25. Lamare, M., Byrne, M., Danis, B., Deaker, D., Di Luccio, M., Dupont, S., Foo, S.A., Jowett, T., Karelitz, S., Sewell, M.A., Thomas, L.J., & Agüera, A. (2024). Antarctic cushion star *Odontaster validus* larval performance is negatively impacted by long-term parental acclimation to elevated temperature. *Science of the Total Environment*, 956. <https://doi.org/10.1016/j.scitotenv.2024.177213>
26. Lowe, V., Cortese, G., Civel-Mazens, M., & Bostock, H. (2024). Southern Ocean Water Mass method: A new statistical approach using microfossil radiolaria for paleoceanographic insights for the Southwest Pacific sector of the Southern Ocean. *Quaternary Science Reviews*, 346. <https://doi.org/10.1016/j.quascirev.2024.109054>
27. Lytle, D.A., & Tonkin, J.D. (2023). Matrix community models for ecology and evolution. *Npj Biodiversity*, 2(1). <https://doi.org/10.1038/s44185-023-00031-5>
28. Martin, A.P., Dominguez, A.B., Baker, C.A., Baumas, C.M.J., Bisson, K.M., Cavan, E., Freilich, M., Galbraith, E., Galí M., Henson, S., Kvale, K.F., Lemmen, C., Luo, J.Y., McMonagle, H., Viríssimo, F.d.M., Möller, K.O., Richon, C., Suresh, I., Wilson, J.D., Woodstock, M.S., & Yool, A. (2024). When to add a new process to a model – and when not: A marine biogeochemical perspective. *Ecological Modelling*, 498. <https://doi.org/10.1016/j.ecolmodel.2024.110870>
29. McKay, R., Cockrell, J., Shevenell, A.E., Laberg, J.S., Burns, J., Patterson, M., Kim, S., Naish, T., Harwood, D., Levy, R., Marschalek, J., van de Flierdt, T., Ishino, S., Keisling, B., de Sousa, I.M.C., Cortese, G., Sangiorgi, F., Leckie, R.M., Dodd, J., Duncan, B., Pérez, L.F., Romans, B.W., Kim, S., Bombard, S., Browne, I., van Peer, T., Seki, O., Colleoni, F., Kulhanek, D., & De Santis, L. (2025). Miocene ice sheet dynamics and sediment deposition in the central Ross Sea, Antarctica. *Bulletin of the Geological Society of America*, 137(3-4), 1267-1291. <https://doi.org/10.1130/B37613.1>
30. Miller, U.K., Zappa, C.J., Gordon, A.L., Yoon, S.T., Stevens, C., Cornelissen, L., Yun, S., & Lee, W.S. (2024). The coupling of winds, ocean turbulence, and High Salinity Shelf Water in the Terra Nova Bay Polynya. *Deep-Sea Research Part II: Topical Studies in Oceanography*, 218. <https://doi.org/10.1016/j.dsr2.2024.105412>
31. Nakayama, Y., Malyarenko, A., Zhang, H., Wang, O., Auger, M., Nie, Y., Fenty, I., Mazloff, M., Köhl, A., & Menemenlis, D. (2024). Evaluation of MITgcm-based ocean reanalyses for the Southern Ocean. *Geoscientific Model Development*, 17(23), 8613-8638. <https://doi.org/10.5194/gmd-17-8613-2024>
32. Nielsen, E.B., Katurji, M., Zawar-Reza, P., & Cullen, N. (2025). Air Temperature Trends and Extreme Warming Events Across Regions of Antarctica for the Period 2003–2021. *Journal of Geophysical Research: Atmospheres*, 130(9). <https://doi.org/10.1029/2024JD043042>
33. Pauling, A.G., Smith, I.J., Ridley, J.K., Martin, T., Thomas, M., & Stevens, D.P. (2025). Impacts of Antarctic Ice Mass Loss on New Zealand Climate. *Geophysical Research Letters*, 52(4). <https://doi.org/10.1029/2024GL111047>
34. Pearman, W.S., Adams, C.I.M., Monteiro, M., Quesada, A., & Fraser, C.I. (2024). Fine-scale phylogenetic diversity gradients support the Antarctic geothermal refugia hypothesis. *Antarctic Science*. <https://doi.org/10.1017/S0954102024000099>
35. Price, D., Snodgrass, J., Rack, W., Purdie, H., Hulbe, C., Wild, C.T., Stevens, C., Marsh, O.J., Ryan, M., McDonald, A., Gragg, K., & Forbes, M. (2025). Basal reflectance and melt rates across the Ross Ice Shelf, Antarctica, from grounding line to ice shelf front. *Journal of Glaciology*, 71. <https://doi.org/10.1017/jog.2025.10>
36. Richon, C., Kvale, K., Lebreton, L., & Egger, M. (2023). Legacy oceanic plastic pollution must be addressed to mitigate possible long-term ecological impacts. *Microplastics and Nanoplastics*, 3(1). <https://doi.org/10.1186/s43591-023-00074-2>
37. Richter, M.E., Leonard, G.H., Smith, I.J., Langhorne, P.J., & Parry, M. (2024). The Interannual Variability of Antarctic Fast-Ice Thickness in McMurdo Sound and Connections

- to Climate. *Journal of Geophysical Research: Oceans*, 129(12).
<https://doi.org/10.1029/2023JC020134>
38. Santana, R., Boutin, G., Horvat, C., Ólason, E., Williams, T., & Rampal, P. (2025). Modeling Antarctic Sea Ice Variability Using a Brittle Rheology. *Journal of Advances in Modeling Earth Systems*, 17(4). <https://doi.org/10.1029/2024MS004584>
 39. Seroussi, H., Pelle, T., Lipscomb, W.H., Abe-Ouchi, A., Albrecht, T., Alvarez-Solas, J., Asay-Davis, X., Barre, J.B., Berends, C.J., Bernales, J., Blasco, J., Caillet, J., Chandler, D.M., Coulon, V., Cullather, R., Dumas, C., Galton-Fenzi, B.K., Garbe, J., Gillet-Chaulet, F., Gladstone, R., Goelzer, H., Golledge, N., Greve, R., Gudmundsson, G.H., Han, H.K., Hillebrand, T.R., Hoffman, M.J., Huybrechts, P., Jourdain, N.C., Klose, A.K., Langebroek, P.M., Leguy, G.R., Lowry, D.P., Mathiot, P., Montoya, M., Morlighem, M., Nowicki, S., Pattyn, F., Payne, A.J., Quiquet, A., Reese, R., Robinson, A., Saraste, L., Simon, E.G., Sun, S., Twarog, J.P., Trusel, L.D., Urruty, B., Van Breedam, J., van de Wal, R.S.W., Wang, Y., Zhao, C., & Zwinger, T. (2024). Evolution of the Antarctic Ice Sheet Over the Next Three Centuries From an ISMIP6 Model Ensemble. *Earth's Future*, 12(9).
<https://doi.org/10.1029/2024EF004561>
 40. Spencer, H.G., Fraser, C.I., Poulin, E., & González-Wevar, C.A. (2025). Towards a More Nuanced Understanding of Long-Distance Rafting: Case Studies From the Southern Ocean. *Global Ecology and Biogeography*, 34(2). <https://doi.org/10.1111/geb.70007>
 41. Stevens, C., Yoon, S.T., Zappa, C.J., Miller, U.K., Wang, X., Elliott, F., Cornelissen, L., Lee, C.K., Yun, S., & Lee, W.S. (2024). Ocean processes south of the Drygalski Ice Tongue, western Ross Sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, 217.
<https://doi.org/10.1016/j.dsr2.2024.105411>
 42. Stevens, D.W., Braid, H.E., Meynier, L., Escobar-Flores, P.C., Pinkerton, M.H., Hopcroft, D., He, Y., & Cherel, Y. (2024). A guide to the otoliths of Southern Ocean lanternfishes (Myctophidae). *Polar Biology*, 47(12), 1543-1558. <https://doi.org/10.1007/s00300-024-03312-2>
 43. Stuart, J., Robinson, N., Stewart, C., Smith, K.F., Pearman, J.K., Halfter, S., Leonard, G., & Ryan, K.G. (2025). A glimpse into the future: How the timing of sea ice formation influences associated microalgal communities. *iScience*, 28(5).
<https://doi.org/10.1016/j.isci.2025.112417>
 44. Stuart, J., Smith, K.F., Miller, M., Pearman, J.K., Robinson, N., Rhodes, L., Thompson, L., Challenger, S., Parnell, N., & Ryan, K.G. (2025). Light-dependent variations in fatty acid profiles and gene expression in Antarctic microalgal cultures. *PLoS ONE*, 20(1).
<https://doi.org/10.1371/journal.pone.0317044>
 45. Sullivan, N.B., Meyers, S.R., Levy, R.H., McKay, R.M., van de Flierdt, T., Marschalek, J., Perotti, M., Zurli, L., Talarico, F., Harwood, D., De Santis, L., Florindo, F., Naish, T.R., Grant, G.R., & Patterson, M.O. (2025). Obliquity disruption and Antarctic ice sheet dynamics over a 2.4-Myr astronomical grand cycle. *Science Advances*, 11(17).
<https://doi.org/10.1126/sciadv.adl1996>
 46. Truax, O.J., Nelson, F., Riesselman, C.R., Ohneiser, C., Lee, J.I., Yoo, K.C., Dagg, B., & Wilson, G. (2025). A Holocene Paleosecular Variation Record From the Northwestern Ross Sea, Antarctica. *Geochemistry, Geophysics, Geosystems*, 26(2).
<https://doi.org/10.1029/2024GC011912>
 47. Wilks, B., Meylan, M.H., Montiel, F., & Wakes, S. (2025). Generalised eigenfunction expansion and singularity expansion methods for canonical time-domain wave scattering problems. *Wave Motion*, 132. <https://doi.org/10.1016/j.wavemoti.2024.103421>
 48. Wilks, B., Montiel, F., Bennetts, L.G., & Wakes, S. (2025). Water wave interactions with surface-piercing vertical barriers in a rectangular tank: Connections with Bloch waves and quasimodes. *Wave Motion*, 132. <https://doi.org/10.1016/j.wavemoti.2024.103444>

49. Wolff, E.W., Mulvaney, R., Grieman, M.M., Hoffmann, H.M., Humby, J., Nehrbass-Ahles, C., Rhodes, R.H., Rowell, I.F., Sime, L.C., Fischer, H., Stocker, T.F., Landais, A., Parrenin, F., Steig, E.J., Dütsch, M., & Golledge, N.R. (2025). The Ronne Ice Shelf survived the last interglacial. *Nature*, . <https://doi.org/10.1038/s41586-024-08394-w>
50. Wood, R.A., Baker, J.A., Beaugrand, G., Boutin, J., Conversi, A., Donner, R.V., Frenger, I., Goberville, E., Hayashida, H., Koeve, W., Kvale, K., Landolfi, A., Maslowski, W., Oschlies, A., Romanou, A., Somes, C.J., Stocker, T.F., & Swingedouw, D. (2024). Opportunities for Earth Observation to Inform Risk Management for Ocean Tipping Points. *Surveys in Geophysics*. <https://doi.org/10.1007/s10712-024-09859-3>
51. Xu, X., Martin, T., Beadling, R.L., Liu, J., Bischof, S., Hattermann, T., Huo, W., Li, Q., Marshall, J.C., Muilwijk, M., Pauling, A.G., Purich, A., Smith, I.J., Swart, N.C., & Thomas, M. (2025). Robustness and Mechanisms of the Atmospheric Response Over the Southern Ocean to Idealized Freshwater Input Around Antarctica. *Geophysical Research Letters*, 52(10). <https://doi.org/10.1029/2024GL113734>

Commissioned Reports / Publicly available reports (for external body) [7]

1. McDonald, G., Thompson, D. et al. (2025). Event report, K083-2223-E/USAP B-245-M: Foraging ecology and physiology of emperor penguins in the Ross Sea. Fieldwork at Cape Crozier support by Antarctica NZ, Oct-Dec 2024.
2. Pardo, E., Walker, N., Lamping, S., Ghigliotti, L., Kim, J-H., von Quillfeldt, C., Brooks, C., Santos, M., **Pinkerton, M.H.**, Weiskel, H., Fenaughty, J., Parker, S.J., Castillo-Briceno, P., Anderson, P. (2025). 2027 Ross Sea region MPA review: Requirements and science needed for objective-based reporting. CCAMLR document WG-EMM-25/35, Hobart Australia.
3. **Pinkerton, M.H.**, Halfter, S., Stewart, R., Robinson, K. (2024). Zooplankton and microplastic in the Southern Ocean: Continuous Plankton Recorder sampling to 2023 with special focus on the Ross Sea sector. New Zealand Aquatic Environment and Biodiversity Report No. 347. 105 p. November 2024
4. **Pinkerton, M.H.**, Devine, J., Hawes, I., Pardo, E., Robinson, E., **Stevens, C.** (2025). New Zealand research and monitoring in support of the Ross Sea region Marine Protected Area: 2023-2025 update. CCAMLR document WG-EMM-25/45, Hobart Australia.
5. **Robinson, K., Halfter, S., Pinkerton, M.H.** (2025). Progress report on Continuous Plankton Recorder sampling 2023/24 and 2024/25. Report for project ZBD2024-01 to FNZ/MPI, June 2025.
6. **Robinson, N., Halfter, S. et al.** (2024). Final season report, Sympagic sampler. Antarctica NZ.
7. **Stevens, C., Fernandez, D., Pinkerton, M.** (2025). Research Vessel Tangaroa 2025 Ross Sea Antarctic "ACTUATE" Voyage, 15 January - 23 February 2025. CCAMLR document WG-EMM-25/29, Hobart Australia.

Conference / Workshop Presentations

EGU [7]

1. **Golledge, N., Levy, R.**, Meyers, S., Weber, M., Clark, P., Burns, J., Ishii, H., Knahl, H., **Lowry, D., McKay, R., Naish, T., Grant, G.**, and Sullivan, N. (2025) East Antarctic Ice Sheet regime shifts during climate transitions, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-1272, <https://doi.org/10.5194/egusphere-egu25-1272>
2. **Gorman, A.**, Oliver, W., **Hansen, O.**, Bowman, H., **Black, J., Keller, E.**, Carter, C., **Tankersley, M., Horgan, H., and Dunbar, G.** (2025). Using seismic and gravity data to examine the seafloor geology in the vicinity of the Discovery Deep shelfal basin, Ross Ice Shelf, Antarctica, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-14493, <https://doi.org/10.5194/egusphere-egu25-14493>

3. **Jendersie, S., Alevropoulos-Borrill, A., Lowry, D., and Golledge, N.** (2025). Indications of the Ronne-Filchner-Ice-Shelf becoming host to a warm cavity within the second half of the 21st century under high emission scenario, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-20716, <https://doi.org/10.5194/egusphere-egu25-20716>
4. **Ohneiser, C., Hulbe, C., Beltran, C., Condon, D., and Worthington, R.** (2025). West Antarctic ice volume variability paced by obliquity until 400,000 years ago, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-3186, <https://doi.org/10.5194/egusphere-egu25-3186>
5. Rack, W., Price, D., Snodgrass, J., Purdie, H., **Hulbe, C.**, Wild, C. T., **Stevens, C.**, Marsh, O. J., Ryan, M., McDonald, A., Gragg, K., and **Forbes, M.** (2025). Basal reflectance and melt rates across the Ross Ice Shelf, Antarctica, from grounding line to ice shelf front, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-13619, <https://doi.org/10.5194/egusphere-egu25-13619>
6. **Tankersley, M., Horgan, H., Caratori Tontini, F., and Tinto, K.** (2025). Gravity inversion for sub-ice shelf bathymetry; best practises, uncertainty estimates, and open-source software, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-12769, <https://doi.org/10.5194/egusphere-egu25-12769>
7. **van de Flierdt, T., Levy, R., Dunbar, G., Horgan, H., Kulhanek, D., Patterson, M., and SWAIS2C Science Team, T.** (2025). Sensivity of the West Antarctic Ice Sheet to 2° Celsius of Warming. The SWAIS2C project, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-7417, <https://doi.org/10.5194/egusphere-egu25-7417>

AGU [3]

1. **Kulhanek, D. K., Levy, R. H., van de Flierdt, T., Dunbar, G. B., Horgan, H. J., Patterson, M. O. R., ... & Ulfers, A.** (2024, December). Sediment records from the Siple Coast below the Ross Ice Shelf: Update from the first season of the SWAIS2C project. In *AGU Fall Meeting Abstracts* (Vol. 2024, No. 479, pp. C51E-0479).
2. **Schmidt, B., Washam, P., Lewis, W., Dunbar, G. B., Horgan, H. J., Hulbe, C. L., ... & Mandeno, D.** (2024, December). Geomorphologic and Glaciological Indicators of Subglacial Channel Evolution at Kamb Ice Stream from Icefin. In *AGU Fall Meeting Abstracts* (Vol. 2024, No. 486, pp. C51E-0486).
3. **Xiahou, Y., Stewart, C., Bowen, M., Brewer, M., Hulbe, C., and Stevens, C.** (2025). Eddies observed in the Ross Ice Shelf ocean cavity, and the implications for circulations and melting, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-5261, <https://doi.org/10.5194/egusphere-egu25-5261>

Published Student Theses [2]

1. De Jong, E. (2024). Lipid biomarkers in modern marine sediments and surface snow: Towards a multi-archive reconstruction of phytoplankton conditions in the southwestern Ross Sea region, Antarctica (Doctoral dissertation, Open Access Te Herenga Waka-Victoria University of Wellington).
2. Zou, Huiling (2025). Reconstructing Antarctic climate during the last interglacial by using an isotope enabled model. (Doctoral dissertation, Open Access Te Herenga Waka-Victoria University of Wellington).

SCAR OSC 2024 [9]

1. **Atkins, Cliff:** Mud pellets in sediment cores from beneath the Ross Ice Shelf: markers of subglacial drainage and grounding line retreat
2. **Golledge, Nick:** A paradigm shift in Antarctic glaciology?
3. **Golledge, Nick:** State dependent ice-sheet resonance under Cenozoic and future climates

4. **Keller, Elizabeth:** Sensitivity of climate and ocean circulation to West Antarctic Ice Sheet extent in past interglacials
5. **Malyarenko, Alena:** The Ross Ice Shelf cavity in the new coupled model Polar-SKRIPSv2
6. **Schmidt, Britney:** Going Under Cover: Interdisciplinary, International Collaboration for Accessing Under Ice
7. **Schmidt, Britney:** Ice on the move: What observing the underside of Antarctica's ice shelves now can tell us about future sea level rise
8. **Zhang, Yaowen:** Antarctic ice shelves at risk of collapse by mid-century
9. **Zhou, Huiling:** Plausible Last Interglacial Antarctic ice sheet changes do not fully explain Antarctic ice core water isotope records

ASP Hui Talks [5]

1. **Forbes, Martin & Hulbe, Christina:** A wall-to-wall rift story: what the rift front geometry tells us about the role of mélange
2. **Gossart, Alex:** P-SKRIPS can do it all: Polynyas and sea ice representation in a coupled model for the Ross Sea
3. **Grant, Georgia:** Climate state dependence of ice sheet variability
4. **Horgan, Huw:** Water Flow from Beneath the West Antarctic Ice Sheet
5. **Levy, Richard:** Sensitivity of the West Antarctic Ice Sheet to 2°C of warming: The SWAIS2C project

Invited / Keynote Presentations [12]

1. **Cummings, V.J. (2024).** ANTOS. Plenary session: A promising future for Antarctic research: Facilitation of circumpolar initiatives through science/science support partnerships. SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
2. Fernandez, D. (2025). Going with the flow: A Lagrangian perspective on biogeochemical transport pathways on the Ross Sea continental shelf, ASP hui presentation (invited), ASP science conference, Te Papa Wellington, 1-3 April 2025.
3. Lucà, N. (2025). Exchange through the Ross Sea troughs: an overview and results from the Drygalski Trough, ASP hui presentation (invited), ASP science conference, Te Papa Wellington, 1-3 April 2025.
4. McKay, R. (2025). Antarctic Ice Sheet interactions with the ocean during past warm climates – insights from international ocean drilling, ASP hui presentation (invited), ASP science conference, Te Papa Wellington, 1-3 April 2025.
5. **Pinkerton, M.H. (2024).** How much information do we really need to protect Southern Ocean ecosystems? Keynote presentation to session: “Detecting, Understanding, and Predicting Southern Ocean Change and Ecological Consequences”, NZMSS-AMSA 2024 Conference. Hobart, Australia, 16 September 2024.
6. Robinson, N. J., Stevens, C. L., Fernandez, D., Stewart, C. L., Ryan, K. G. (2024). Antarctic sea ice and its oceanic connections, Keynote address for “Fluids in New Zealand”, Waikato University, Hamilton, New Zealand, 7 February 2024.
7. Smith, I. (2024). Polar climates: The role of Antarctic sea ice, and its changes under global warming. Workshop on the Role of Sea Ice and its Variability in the Climate System, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 22-31 July 2024.
8. Stevens, C. (2024). Beneath the Frozen Frontier: Sub Ice Shelf Exploration Invited KNOW Workshop Seoul, Korea, 2025.
9. Stevens, C. (2024). The Effect of Stratified Mixing on Circulation in the Ross Ice Shelf Cavity Invited CHINARE 40th Anniversary Symposium Shanghai, China
10. Stevens, C. (2025). ASP hui presentation on the ISC Hoe (invited), ASP science conference, Te Papa Wellington, 1-3 April 2025.

11. Stevens, C. (2025). Spatiotemporal connections in the Ross Sea: A synthesis from the New Zealand Antarctic Science Platform Ocean Mechanics project ASP hui presentation (invited). ASP science conference, Te Papa Wellington, 1-3 April 2025.
12. Stewart, C. (2025). ApRES Radar Network Development for the Ross Ice Shelf Frontal Region, ASP hui presentation (invited), ASP science conference, Te Papa Wellington, 1-3 April 2025.

Conference / Workshop Presentations [60]

1. Bahamondes, A., **Macdonald, H., Winton, H., Rickard, G.** (2024). Testing extremes: how sea-ice has changed phytoplankton biomass in the Ross Sea polynyas using a 1-D model. Scientific Committee on Antarctic Research (SCAR) Open Science Conference Pucón, Chile 19-23 August 2024.
2. Baker, K., Halfter, S., Scouling, B., Sutton, C., Swadling, K.M., Boyd, P.W. (2024). Imprint of mesopelagic food web dynamics on Southern Ocean downward carbon export. Joint Australian Marine Sciences Association (AMSA) & New Zealand Marine Sciences Society (NZMSS) Conference Nipaluna, Hobart, Tasmania, Australia 15-20 September 2024.
3. Barras, P., Rack, W., Tan, A., Haas, C., Price, D., MacDonell, S., Chua, S., Smith, I. (2025). Toward bridging the gap between airborne sea ice measurements and satellite data. SIRG 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.
4. Boyland, D., Rack, W., Purdie, H., Gomez Fell, R. (2025). Satellite based assessment of summer frazil-ice occurrence along the Victoria Land Coast, Antarctica. SIRG 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.
5. Brooks, C., Caccavo, J.A., Cavanagh, R., Ghigliotti, L., Jones, C., Koubbi, P., Maschette, D., Maseres, C., Novillo, M., **Pinkerton, M.**, Queirós, J., Konijnenberg, R. (2024). Proposal for a SCAR Action Group on Fish: SCARFISH. Presentation to SCAR OSC, Chile, 2024.
6. Collins, C., Macdonald, H., Rickard, G., Behrens, E. (2025). ROSS-ROMS: A high-resolution biophysical model of the Ross Sea. Presentation to ASP hui, "Phytoplankton, primary production and biogeochemistry in the Ross Sea region". ASP Phytoplankton and biogeochemistry workshop, NIWA, Wellington, 31 March 2025.
7. **Cristi, A.**, Gutierrez-Rodriguez, A., Deppeler, S., Druce, M., Law, C. S., Safi, K., Pinkerton, M., (2025). Ross Sea phytoplankton research in a changing climate: current status and future challenges. Presentation to ASP science conference, Te Papa Wellington, 1 April 2025.
8. **Cristi, A.**, Law, C., Pinkerton, M.H. (2025). "Phytoplankton, primary production and biogeochemistry in the Ross Sea region". ASP Phytoplankton and biogeochemistry workshop, NIWA, Wellington, 31 March 2025.
9. Di Palma, S., Garzia, A., **Halfter, S.**, Krauzig, N., Lucà, N., McInerney, J., Molino, A., Pollard, G., Rappazzo, A.C., Madita Wiczorek, A. (2024). An Early Career Researcher-driven multidisciplinary approach to address future challenges for the Ross Sea. Oral presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
10. **Fraser, C.** (2025). Could temperate marine invertebrate and kelp species survive in Antarctica? Securing Antarctica's Environmental Future (SAEF) conference, Melbourne, Australia, June 2025.
11. Garzia, A., Luca, N., Halfter, S., Wiczorek, A.M., Krauzig, N., McInerney, J.B.T., Pollard, G.K., Rappazzo, A.C., Di Palma, S., Stevens, C., Falco, P. (2024). An Early Career Research-driven multidisciplinary approach to address future challenges for the Ross Sea. Oral presentation at SCAR OSC, Pucón, Chile, 19-23 August 2024.
12. **Halfter, S.** (2024). Participation in workshop: "Development of terrestrial Essential Ocean & Biodiversity Variables", online, SCAR Workshop, September 2024.
13. **Halfter, S.** (2024). Workshop organisation on the scientific needs of Southern Ocean MPAs at the SCAR Open Science Conference, Pucón, Chile, August 2024.

14. **Halfter, S.**, Pollard, G.K., McInerney, J.B.T., Robinson, K., Pinkerton, M.H. (2024). Zooplankton community variability in the eastern Ross Sea: Lessons from multidisciplinary ocean observations. Poster presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
15. **Halfter, S.**, Robinson, K., Pinkerton, M.H., Pollard, G.K., Wieczorek, A.M., Décima, M., Stewart, R., Chin, C., McInerney, J. (2025) Zooplankton monitoring in the Ross Sea Region – Current status and future directions. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
16. **Halfter, S.**, Kinsey, R., Shears, N. (2024). Exploring vulnerable ecosystems and Marine Protected Areas. Seaweed Webinar, 25/07/2024.
<https://www.seaweed.org.nz/news/exploring-marine-protected-areas>.
17. Hetherington, E., Anderson, C., Bastian, L., Boon, N., Chu, N.-C., Rodriguez Cruz, C., ...**S. Halfter** et al. (2025). Deepening the Decade: collaborative action for advancing deep ocean science and policy in the United Nations Decade of Ocean Science for Sustainable Development. 17th Deep-Sea Biology Symposium (DSBS) Hong Kong, China 12-17 January 2025.
18. Kwasniewski, H., Leeger, R., Gallagher, C., McKenzie, A., Devine, J., Cárdenas, C., et al. (2024). Life history of Antarctic toothfish in the Ross Sea: implications for fish ecology and fisheries. Scientific Committee on Antarctic Research (SCAR) Open Science Conference Pucón, Chile 19-23 August 2024.
19. **Leonard, G., Stuart, J., Smith, I.J., Radlwimmer, A., Foley, A., Halfter, S., Robinson, N.** (2025). Was 2019 so anomalous after all? How winter storms impacted landfast sea ice in McMurdo Sound, Antarctica over the period 2019 – 2024. Verbal presentation at the New Zealand Snow and Ice Research Group (SIRG) 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.
20. Montiel, F., Forbes, M., Echevarria, E. R., Rapizo, H., & Gamble, C. (2024). Sea ice in WAVEWATCH III®: An intercomparison project. Invited presentation at the IACS MIZ Working Group Virtual Meeting, online, October 2024.
21. Montiel, F., Forbes, M., Echevarria, E. R., Rapizo, H., & Gamble, C. (2025). Evaluation of ice dissipation parameterizations in spectral ocean wave model WAVEWATCH III. Oral presentation at Fluids in New Zealand 2025, Dunedin, New Zealand, January 2025.
22. Murphy, K., Datta, S., **Pinkerton, M.H.** et al. (2024). Developing a Southern Ocean Marine Ecosystem Model Ensemble To Assess Climate Risks and Uncertainties. Oral presentation to NZMSS-AMSA 2024 Conference in Hobart, Tasmania, 16-18 September 2024.
23. Owen, K., Thompson, R.M., Donnelly, D., Noad, M., **Pinkerton, M.H.**, Dunlop, R., Bury, S.J. (2024) Influence of fasting and opportunistic feeding on skin stable isotope values of migrating whales. Oral Presentation at ISOECOL13 (International Conference on the Application of Stable Isotope Techniques in Ecological Studies) at University of New Brunswick, Fredericton, New Brunswick Canada, 29 July – 2 August 2024.
24. **Pauling, A.G., Smith, I.J.**, Ridley, J.K., Martin, T., **Thomas, M.** (2024). Impacts of Antarctic ice mass loss on New Zealand climate. Verbal presentation at the New Zealand MetSoc Conference 2024, The University of Auckland, Auckland, New Zealand, 18-20 November 2024.
25. **Pauling, A.G., Smith, I.J.**, Ridley, J., Martin, T., **Thomas, M.** (2024). Impacts of Antarctic ice mass loss on the climate of New Zealand and the Southern Ocean. Met Office seminar to polar science group (Speaker: Inga J. Smith), Met Office, Exeter, UK, 2 August 2024.
26. **Pinkerton, M.H.** (2024). Complexity in food webs. Regional hui for Te Whanganui-a-Tara-based Te Pūnaha Matatini principal investigators, Rutherford House, 30 August 2024.

27. **Pinkerton, M.H.** (2024). Ecosystem structure and function in the Ross Sea region: towards collaboration on modelling using OSMOSE. Presentation to Shanghai Ocean University (Lei Xing, Guoping Zhu). Online, 8 November 2024.
28. **Pinkerton, M.H.** (2024). Te Pūnaha Matatini annual hui. Hamilton, 22-24 October 2024.
29. **Pinkerton, M.H.** (2024). The parlous value of ecosystem models. TPM Complexity COI Webinar. Te Pūnaha Matatini (Centre of Research Excellence for complex systems), 23 August 2024.
30. **Pinkerton, M.H.** (2024). Towards a test of statistical significance for differences between food-webs. Oral presentation to session: “Modelling uncertain futures of marine ecosystems”, NZMSS-AMSA 2024 Conference. Hobart, Australia, 18 September 2024.
31. **Pinkerton, M.H.** (2025). Remote sensing of phytoplankton and primary production in the Southern Ocean. Presentation to ASP hui, “Phytoplankton, primary production and biogeochemistry in the Ross Sea region”. ASP Phytoplankton and biogeochemistry workshop, NIWA, Wellington, 31 March 2025.
32. **Pinkerton, M.H.** (2025). Ross Sea Research Co-ordination Network, meeting, Boulder, Colorado, US. Online, 3-6 June 2025.
33. **Pinkerton, M.H.** (2025). Ross Sea trophic model scenario analysis. Presentation to “Advancing Regional Marine Ecosystem Modelling: From Southern Ocean to Global Perspectives”, FishMIP Regional Modelling Workshop, University of Tasmania, Hobart, Australia, 24 June 2025.
34. **Pinkerton, M.H.**, Maurice, A., Escobar-Flores, P., Moore, B., O’Driscoll, R. (2025). Pelagic fish and invertebrates in the Ross Sea region. Presentation to Korean science delegation, Wellington, 24 March 2025.
35. **Pinkerton, M.H.**, Giorli, G. (2024). Passive acoustic monitoring in the Ross Sea region: a multi-year time-series. Presentation to NZ-Italy Ross Sea research coordination meeting, online, 5 August 2024.
36. **Pollard, G.**, Pinkerton, M., Sewell, M., Décima, M., Lee, C., Robinson, K., Halfter, S., Cary, C. (2024). Developing a high-throughput genetic method to elucidate the diversity and abundance of zooplankton from Southern-Ocean Continuous Plankton Recorder (CPR) collections. Oral presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
37. Rack, W., et al. Sea ice and ice shelf variability in the western Ross Sea. Invited presentation for the International Antarctic Science Workshop “*One Continent, One Ocean: Innovative and Sustainable Collaboration in Antarctica and the Ross Sea*”, 282 Durham Street North, Christchurch.
38. Rack, W., Haas, C., Tan, A., Langhorne, P. (2024) Ice morphology of fast ice and ice shelf in McMurdo Sound assessed by airborne geophysics and satellite data. Presentation at the SCAR Open Science Conference “Antarctic Science: Crossroads for a New Hope”, Pucón, Chile, 19-23 August 2024.
39. Rack, W., Price, D., Tan, A., Barras, P., Haas, C., Leonard, G., Bohn, K., Boyland, D., Jolly, B., Roudier, P., Brett, G., Farooq, U., Smith, I., Chua, S., Langhorne, P., Kurz, N., Hajnsek, I., Daboor, M., Barnsdale, Taylor, A. (2025). Sea ice variability and trends in the western Ross Sea by satellite and airborne measurements. Oral presentation at the ASP Hui, Wellington, 1-3 April 2025.
40. **Radlwimmer, A.L., Leonard, G.H., Smith, I.J., Montiel, F., Fülster, M., Dadic, R.** (2025). Polynya formation and land-fast winter sea ice breakout patterns: links to changing storm behaviour in the Ross Sea. Verbal presentation at the New Zealand Snow and Ice Research Group (SIRG) 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.

41. **Radlwimmer, A., Smith, I., Leonard, G., Montiel, F.** (2025). Changing storm behaviour in the Ross Sea and its links to polynya and breakout patterns in winter sea ice. Oral presentation at Fluids in New Zealand (FiNZ), Wellington, 29-31 January 2025.
42. **Robinson, N. J.** (2024). An introduction to New Zealand's Antarctic Science Platform. Joint NZ-Aus collaboration workshop, Monash University, Melbourne, Australia, 21 March 2024.
43. **Robinson, N. J.** (2024). Opportunities to connect with the Antarctic Science Platform. Deep South Challenge Climate Workshop, Wellington, New Zealand, 21-22 February 2024.
44. **Robinson, N. J.** (2024). Setting science priorities for ASP Phase 2. A series of eight workshops in Wellington, Christchurch, Dunedin, Hamilton, Auckland, and Online, May/June 2024.
45. **Robinson, N. J.** (2024). Two contrasting seasons under ice. New Zealand Snow and Ice Research Group, Lauder, New Zealand, 14 February 2024.
46. **Robinson, N. J.** (2025). ASP Phase 2 Planning. Antarctica NZ, Christchurch, New Zealand, 21-22 January 2025.
47. **Robinson, N. J.** (2025). Introduction to ASP Phase 2. Navigating the Ice: Antarctica in a Changing Climate: Antarctic Science Platform Hui, Te Papa, Wellington, 1-3 April 2025.
48. **Robinson, N. J.** (2025). Planned NZ research in the Ross Sea region. German delegation hosted at NIWA, NIWA Greta Point, Wellington, New Zealand, 10 February 2025.
49. **Robinson, N. J.** (2025). Progress to date on ASP Phase 2 planning. Snow & Ice Research Group (NZ), Lyall Bay Surf Club, Wellington, New Zealand, 10-12 February 2025.
50. **Robinson, N. J.** (2025). Summary of Sea Ice Research in ASP Phase 1. Phytoplankton in the Antarctic Science Platform, NIWA, Wellington, New Zealand, 31 March 2025.
51. **Robinson, N. J., Grant, B. S., Twigge, O., Stewart, C. L., Stuart, J., Leonard, G. H., Ryan, K. G.** (2024). An unprecedented season for sea ice – the view from the ocean. SCAR Open Science Conference, Pucon, Chile, 19-23 August 2024
52. **Robinson, N. J., Grant, B. S., Twigge, O., Tait, L., Stewart, C. L., Leonard, G. H.** (2025). An unprecedented season for sea ice | The view from the ocean. Polynyas research in the ASP, Pipitea Campus, Victoria University, Wellington, New Zealand, 12 February 2025.
53. **Robinson, N. J., Keller, L., Renwick, J., Rack, W., Smith, I. J.** (2025). ASP Phase 1 Project 4 - Introduction and overview. Navigating the Ice: Antarctica in a Changing Climate: Antarctic Science Platform Hui, Te Papa, Wellington, 1-3 April 2025.
54. **Robinson, N. J., Leonard, G. H., Stuart, J., Stewart, C. L., Ryan, K. G.** (2024). An unprecedented season for sea ice - the view from the ocean. Physical Oceanography Workshop (POW), 101 Lyall Parade, Wellington, New Zealand, 4 - 5 September 2024.
55. **Sepahvand V., Duffy, G., Dutoit, L., Lamare, M., Adams, C., Fraser, C.** (oral presentation). (2024). The rider or vehicle: which one is important in population structure? Insights from the Ross Sea, Antarctica. SCAR Open Science Conference, Pucon, Chile, August 2024.
56. **Smith, I.J.** (2025). What is driving recent changes in Antarctic sea ice? Verbal presentation at the New Zealand Institute of Physics (NZIP) 2025 Conference, 1-3 July 2025, University of Auckland Waipapa Taumata Rau, Auckland, New Zealand.
57. **Smith, I.J., Richter, M.E., Leonard, G.H., Wahab, E.R., Finlayson, E.M., Radlwimmer, A.L., Thompson-Fawcett, J.F.W., Foley, A., Pooley, C., Dadic, R., Martin, J., Barras, P., Chua, S.M.T., Halfter, S., Twigge, O., Rack, W., Haas, C., Tan, A.E.-C., Montiel, F., Langhorne, P.J.** (2025). Polynyas and land-fast sea ice break-outs: microstructure and Sea Ice Monitoring Station (SIMS) results from 2022 and 2024, contrasted with 2021 and 2023. Antarctic Science Platform (ASP) Hui 2025, Te Papa, Wellington, New Zealand, 1-3 April 2025.
58. **Smith, I.J., Wahab, E.R., Finlayson, E.M., Radlwimmer, A.L., Thompson-Fawcett, J.F.W., Richter, M.E., Foley, A., Pooley, C., Leonard, G.H., Dadic, R., Martin, J., Barras, P., Chua, S.M.T., Halfter, S., Twigge, O., Rack, W., Haas, C., Tan, A.E.-C., Montiel, F., Langhorne, P.J.** (2025). When winter sea ice is destroyed by the wind: microstructure results from 2022 and 2024, contrasted with 2021 and 2023. New Zealand Snow and Ice Research Group (SIRG)

2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.

59. Stuart, J., Ryan K.G., Pearman, J.K., Robinson, N., Halfter, S., Thomson-Laing, J., Biessy L., Smith, K.F. (2024). Tropics to the poles: Diversity of coastal eukaryotic marine microalgal communities across five ecoregions. Oral presentation to NZMSS-AMSA 2024 Conference in Hobart, Tasmania, 16-18 September 2024.
60. Wieczorek, A.M., Bilewitch, J., Brooks, A., Halfter, S., Escobar-Flores, P.C., Cubelio, S.S., et al. (2025). Combining forces: using acoustics and environmental DNA metabarcoding to investigate mid-trophic level organisms in the Ross Sea. International Council for the Exploration of the Sea (ICES) Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Annual Meeting Reykjavik, Iceland, 8-11 April 2025.

Conference / Workshop Presentations – Poster presentation [33]

1. **Bahmani, F., Behrens, E., and Keller, ED.** (2025). How climate change is impacting the CO₂ uptake over the Southern Ocean. Poster presentation, Navigating the Ice: Antarctica in a Changing Climate: Antarctic Science Platform Hui, Wellington, New Zealand, 1-3 April 2025.
2. **Barras, P. Rack, W., Tan, A.,** Haas, C., **Price, D.,** MacDonell, S., Chua, S.M.T., **Smith, I.J.** (2025). Toward bridging the gap between airborne sea ice measurements and satellite data. Poster presentation at the Antarctic Science Platform (ASP) Hui 2025, Te Papa, Wellington, New Zealand, 1-3 April 2025.
3. Borgmeier, A., Adams, B., Bergstrom, D., **Cary, C.,** Colwell, S., Convey, P., **Cummings, V.,** Derigibus, D., Guglielmin, M., Hong, S.G., **Lee, C.,** Libertelli, M., Robinson, S., Schiaparelli, S., Sultan, E., Tsujimoto, M., Verleyen, E. (2024). ANTOS: Survey of current long-term monitoring and gaps in monitoring efforts in near-shore and terrestrial Antarctic ecosystems. Presented to the SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
4. **Caldarella, N.R.D., Smith, I.J., Leonard, G.H., Robinson, N.,** Smedsrud, L.H., Grant, B., Schmidt B.E., Dichek, D., Meister, M., Hurwitz, B., Quartini, E., Mullen, A., Bryson, F., Richter, M.E., Lawrence, J., Russell, P., Thompson-Fawcett, J.F.W. (2025). Frazil ice, currents and supercooling in front of the McMurdo Ice Shelf. Poster presentation at the New Zealand Snow and Ice Research Group (SIRG) 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.
5. Cornelissen, Liv (2025) The influence of the Drygalski Ice Tongue on water mass formation in Terra Nova Bay after polynya events. ASP science conference, Te Papa Wellington, 1-3 April 2025.
6. Cummings, V.J. (2024). Advancing observations in near-shore and terrestrial regions with ANTOS. Presented to the SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
7. Cummings, V.J. (2024). ANTOS. Presentation to ANTOS open community meeting workshop. SCAR OSC, Pucon, Chile. 18 August 2024.
8. Cummings, V.J. (2024). ANTOS. Presentation to Life Sciences business meeting. SCAR OSC, Pucon, Chile. 21 August 2024.
9. Cummings, V.J. (2024). ANTOS. Presentation to Physical Sciences business meeting. SCAR OSC, Pucon, Chile. 21 August 2024.
10. Cummings, V.J., Massuger, J., Pryor Rogers, L., Bremner, D., Twigge, O., Marriott, P.M., Tait, L. (2024). Coastal benthic communities as sentinels of changing environments. Presented to the ASMA-NZMSS 2024 Conference, Hobart, Australia, 18-21 September 2024.
11. Cummings, V.J., Tait, L., Massuger, J., Pryor Rogers, L., Bremner, D., Twigge, O., Marriott, P. (2024). Coastal benthic communities as sentinels of changing environments. Presentation to the SCAR OSC, Pucon, Chile. 19-22 August 2024.
12. Garzia, Angela (2025) Spatio-temporal variability of ocean physical parameters along the

- front of the Ross Ice Shelf – student poster. ASP science conference, Te Papa Wellington, 1-3 April 2025.
13. Griffiths, H., Cummings, **V.**, Van de Putte, A., Whittle, R., Waller, C. (2024). Antarctic benthic ecological change. Presented to the SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
 14. Halfter, S., Pollard, G.K., McInerney, J.B.T., Robinson, K., Pinkerton, M.H. (2024). Zooplankton community variability in the eastern Ross Sea: Lessons from multidisciplinary ocean observations. Poster presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
 15. Halfter, S., Robinson, K., Pinkerton, M.H., Pollard, G.K., Wieczorek, A.M., Décima, M., Stewart, R., Chin, C., McInerney, J. (2025). Zooplankton monitoring in the Ross Sea Region – Current status and future directions. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
 16. Halfter, S., Pollard, G.K., McInerney, J.B.T., Robinson, K., Pinkerton, M.H. (2024). Zooplankton community variability in the eastern Ross Sea: Lessons from multidisciplinary ocean observations. Poster presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
 17. Hayward, A., Wright, S., Carroll, D., Law, C., Wongpan, P., Gutierrez-Rodriguez, A., Pinkerton, M.H. (2025). Widespread decline of Antarctic diatoms: consequences for krill-based ecosystems and carbon flux. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
 18. **Pauling, A., Smith, I.J.**, Ridley, J.K., Martin, T., **Thomas, M.**, Stevens, D.P. (2025). Impacts of meltwater due to Antarctic ice sheet mass loss on New Zealand climate. Poster presentation at the Antarctic Science Platform Hui 2025, Te Papa, Wellington, New Zealand, 1-3 April 2025.
 19. Pinkerton, M.H. (2024). Impacts of ocean warming on marine systems – conservation implications. Invited presentation to postgraduate Marine Conservation, Victoria University Wellington, 18 July 2024.
 20. Pinkerton, M.H. (2025). Satellite remote sensing of ocean colour. Invited Postgraduate Remote Sensing Seminar, University of Auckland, 11 April 2025.
 21. Pinkerton, M.H., Escobar-Flores, P. C., Maurice, A., Moore, B. R., O’Driscoll, R. L. (2025). Pelagic fish and invertebrates in the Ross Sea region: bringing together multifrequency acoustic methods and biogeography to understand key food web linkages. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
 22. Pinkerton, M.H., Halfter, S., Robinson, K., Stewart, R. (2025). Zooplankton and microplastic in the Southern Ocean: Continuous Plankton Recorder sampling to 2023 with special focus on the Ross Sea sector. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
 23. **Pollard, G.K.**, Pinkerton, M., Sewell, M., Décima, M., Robinson, K., Halfter, S., McDonald, I.R., Cary, S.C., Lee, C. K. (2025). A new approach for determining zooplankton diversity and abundance from Southern Ocean Continuous Plankton Recorder (CPR) collections using nanopore sequencing. Poster presentation to ASP science conference, Te Papa Wellington, 1-3 April 2025.
 24. **Radlwimmer, A.L., Smith, I.J., Leonard, G.H., Montiel, F.**, Haas, C., Dadic, R., Barras, P., Chua, S.M.T., Foley, A., Pooley, C., Tan, A.E.-C., **Rack, W.** (2025). Sea ice GPS trackers confirm the existence of the Victoria Land Coastal Current. Poster presentation at the New Zealand Snow and Ice Research Group (SIRG) 2025 Workshop and New Zealand Sea Ice Symposium 2025, Lyall Bay Surf Lifesaving Club, Wellington, New Zealand, 10-12 February 2025.
 25. **Radlwimmer, A.L., Smith, I.J., Leonard, G.H., Montiel, F.**, Haas, C., Dadic, R., Barras, P., Chua, S.M.T., Pooley, C., **Tan, A.E.-C., Rack, W.** (2025). Tracking down the Victoria Land

- Coastal Current with sea ice GPS buoys. Poster presentation at the Antarctic Science Platform (ASP) Hui 2025, Te Papa, Wellington, New Zealand, 1-3 April 2025.
26. **Radlwimmer, A., Smith, I., Leonard, G., Montiel, F.,** Haas, C., Dadic, R., **Barras, P.,** Chua, S., Foley, A., Pooley, C., **Tan, A.E.-C., Rack, W.** (2025). Sea ice GPS trackers confirm the existence of the Victoria Land Coastal Current. Poster presentation at the New Zealand Institute of Physics (NZIP) 2025 Conference, University of Auckland Waipapa Taumata Rau, Auckland, New Zealand, 1-3 July 2025.
 27. Seabrook, S., Law, C., Thurber, A., Lacroix, Y., Cummings, V., Tait, L. (2024). Cryospheric cap degradation as a mechanism for Antarctic seep emergence. Presented to the SCAR Open Science Conference, Pucón, Chile, 19-23 August.
 28. Stevens, C. (2025). The Ross Sea Voyages of the Phase One Antarctic Science Platform. ASP science conference, Te Papa Wellington, 1-3 April 2025.
 29. Stewart, C. (2025). Ocean stratification and tides control basal melting at the Ross Ice Shelf Grounding Zone. ASP science conference, Te Papa Wellington, 1-3 April 2025.
 30. Stuart, J., Robinson, N., Stewart, C., Smith, K., Pearman, J., Halfter, S., Ryan, K. (2024). Food for thought: How changing sea ice conditions influence microalgae communities. Poster presentation at SCAR Open Science Conference, Pucón, Chile, 19-23 August 2024.
 31. **Stuart, J., Robinson, N., Leonard, G., Smith, I., Skelton, L., Radlwimmer, A., Halfter, S.** (2025). McMurdo Sound's "Unprecedented" Sea Ice Events: Causes and Consequences. Poster presentation at the Antarctic Science Platform (ASP) Hui 2025, Te Papa, Wellington, New Zealand, 1-3 April 2025.
 32. Tait, L., Chin, C., Nelson, W., George, S., Marriott, P., O'Driscoll, R., Lamare, M., Mills, S., Cummings, V. (2024). Antarctic seaweeds as sentinels of change in the Southern Ocean. Presented to the ASMA-NZMSS 2024 Conference, Hobart, Australia, 18-21 September.
 33. Xiahou, Yingpu (2025) Ocean dynamics in the Ross Ice Shelf cavity from in situ observations: the HWD2 hydrographic mooring dataset – student poster. ASP science conference, Te Papa Wellington, 1-3 April 2025.

Dissemination Hui [11]

1. **Cummings, V.J., Tait, L., Lamare, M., Chin, C., Massuger, J., Pryor Rogers, L., Bremner, D., Twigge, O.,** Mills, S., **Marriott, P., Lohrer, D.** (2025). Ross Sea coastal benthic communities: establishing baselines and sentinel sites. Presentation to the New Zealand Antarctic Science Platform Hui, 1 April 2025.
2. **Halfter, S.** Workshop organisation: SCAR OSC, Chile (2024). W11: Science and monitoring needs of Marine Protected Areas in the Southern Ocean. August 2024.
3. **Pinkerton, M.H.,** Behrens, E., Collins, C., Macdonald, H., Rickard, G., Bury, S. (2025). Ecosystem change in the Ross Sea region: connecting research and management through end-to-end food web models. Presentation to ASP science conference, Te Papa Wellington, 1 April 2025.
4. **Pinkerton, M.,** Devine, J., Hawes, I., Pardo, E., Robinson, E., Stevens, C. (2025). New Zealand research and monitoring in support of the Ross Sea region Marine Protected Area: 2023-2025 update. Presentation to Antarctic working group, 11 June 2025.
5. **Robinson, N. J.** (2024). Plans for Phase 2 of the Antarctic Science Platform. ASP Steering Group Meeting, Victoria University of Wellington, New Zealand, 10 April 2024.
6. **Robinson, N. J.** (2024). Update from the field - Sampling platelet ice in Antarctica. Invited webinar for International Glaciological Society, Online everywhere, 23 November 2024.
7. Stevens, C., Fernandez, D., **Pinkerton, M.** (2025). Research Vessel Tangaroa 2025 Ross Sea Antarctic "ACTUATE" Voyage, 15 January - 23 February 2025. Presentation to Antarctic working group, 11 June 2025.
8. Stevens, C. et al. (2025). The Ross Sea voyages of the Phase One Antarctic Science Platform. Poster presentation at the New Zealand Antarctic Science Platform Hui, 1-3 April 2025.

9. **Stuart, J., Leonard, G. H., Robinson, N. J., Smith, I. J.** (2025). Facilitation of workshop on “Topic-based syntheses publications” in the ASP. Navigating the Ice: Antarctica in a Changing Climate: Antarctic Science Platform Hui, Te Papa, Wellington, 1-3 April 2025.
10. **Tait, L., Chin, C.,** Nelson, W., George, S., **Marriott, P.,** O’Driscoll, R., **Lamare, M.,** Mills, S., **Cummings, V.J.** (2025). Antarctic seaweeds as potentially important contributors to global carbon fixation. Presentation to the New Zealand Antarctic Science Platform Hui, 1 April 2025.
11. **Tait, L.** et al. (2025). Increasing the scope of Antarctic marine research with Remote Operated Vehicles. Poster presentation at the Presentation to the New Zealand Antarctic Science Platform Hui, 1-3 April 2025.

SCAR OSC 2024 [1]

1. Alevropoulos-Borrill, Alanna: Modifying Ice-Ocean Interactions in the New Zealand Earth System Model