

Publications acknowledging NFSD or Tritonia assistance 2014-2020

ISI-RATED (Impact Factor in parentheses):

1. Adams TP, Aleynik D, Burrows MT (2014). Larval dispersal of intertidal organisms and the influence of coastline geography. *Ecography* 37: 698-710 (4.774)
2. Adams TP, Miller RG, Aleynik DL, Burrows MT (2014). Offshore marine renewable energy devices as stepping stones across biogeographic boundaries. *Journal of Applied Ecology* 51: 330-338 (4.564)
3. Aleynik D, Dale AC, Porter M, Davidson K (2016). A high resolution hydrodynamic model system suitable for novel harmful algal bloom modelling in areas of complex coastline and topography. *Harmful Algae* 53, 102-117. (3.087)
4. Arivalagan J, Yarra T, Marie B, Sleight VA, Berthet ED, Clark MS, Marie A, Berland S (2017). Insights from the shell proteome: biomineralization to adaptation. *Molecular Biology and Evolution* 34, 66-77 (10.217)
5. Ashton GV, Morley SA, Barnes DKA, Clark MS, Peck LS (2017). Warming by 1° C drives species and assemblage level responses in Antarctica's marine shallows. *Current Biology* 27, 2698-2705 (9.251)
6. Atamanchuk D, Tengberg A, Aleynik D, Fietzek P, Shitashima K, Lichtschlag A, Hall POJ, Stahl H (2015). Detection of CO₂ leakage from a simulated sub-seabed storage site using three different types of pCO₂ sensors. *International Journal of Greenhouse Gas Control* 38, 121-134. (4.064)
7. Barnes DKA, Ireland L, Hogg O, Morley SA, Enderlein P (2016). Why is the South Orkney Island shelf (the world's first high seas marine protected area) a carbon drawdown hotspot? *Global Change Biology* 22, 1110-1120. (8.502)
8. Bayley DTI, Mogg AOM, Koldewey H, Purvis A (2019). Capturing complexity: Field-testing the use of 'structure from motion' derived virtual models to replicate standard measures of reef physical structure. *PeerJ* 7, e6540 (2.353)
9. Bayley DTI, Mogg AOM, Purvis A, Koldewey HJ (2019). Evaluating the efficacy of small-scale MPAs for preserving reef health: A case study applying emerging monitoring technology. *Aquatic Conservation: Marine and Freshwater Science* 29, 2026-2044 (2.935)
10. Bergès BJP, Leighton TG, White PR (2015). Passive acoustic quantification of gas fluxes during controlled gas release experiments. *International Journal of Greenhouse Gas Control* 38, 64-79. (4.064)
11. Berthelot C, Clarke J, Desvignes T, Detrich III HW, Flicek P, Peck L, Peters M, Postlethwait JH, Clark M. (2019) Adaptation of proteins to the cold in Antarctic fish: a role for methionine? *Genome Biology and Evolution* 11: 220-231. (3.726)
12. Bird C, Roberts A, Filipsson HL, Knudsen KL, Darling KF, Evans KM, Schweizer M, Sayer MDJ, Austin WEN, Geslin E (2020) The genetic diversity, morphology, biogeography, and taxonomic designations of *Ammonia* (Foraminifera) in the Northeast Atlantic. *Marine Micropaleontology* 155, 101726 (2.663)
13. Blackford J, Stahl H, Bull JM, Berges BJB, Cevatoglu M, Lichtschlag A, Connelly D, James RH, Kita J, Long D, Naylor M, Shitashima K, Smith D, Taylor P, Wright I, Akhurst M, Chen B, Gernon, TM, Hauton C, Hayashi M, Kaieda H, Leighton TG, Sato T, Sayer MDJ, Suzumura, M, Tait K, Vardy ME, White PR, Widdicombe S (2014). Detection and impacts of leakage from sub-seafloor carbon dioxide storage. *Nature Climate Change* 4, 1011-1016. (14.547)
14. Calderwood J, O'Connor NE, Roberts D (2015). Effects of baited crab pots on cultivated mussel (*Mytilus edulis*) survival rates. *ICES Journal of Marine Science* 72, 1802-1810. (2.760)
15. Calderwood J, O'Connor NE, Roberts D (2016). Breaking and entering: Examining the role of stress and aerial exposure in predator-prey relationships between the common shore crab (*Carcinus maenas*) and cultivated blue mussels (*Mytilus edulis*). *Aquaculture* 452, 217-223. (2.570)
16. Calderwood J, O'Connor NE, Roberts D (2016). Efficiency of starfish mopping in reducing predation on cultivated benthic mussels (*Mytilus edulis* Linnaeus). *Aquaculture* 452, 88-96 (2.570)
17. Calderwood J, O'Connor NE, Roberts D (2015). The effects of transportation stress and barnacle fouling on predation rates of starfish (*Asterias rubens*) on mussels (*Mytilus edulis*). *Aquaculture* 444, 108-113 (1.893)
18. Cevatoglu M, Bull JM, Vardy ME, Gernon TM, Wright IC, Long D (2015). Gas migration pathways, controlling mechanisms and changes in sediment acoustic properties observed in a controlled sub-seabed CO₂ release experiment. *International Journal of Greenhouse Gas Control* 38, 26-43. (4.064)
19. Clark MS, Sommer U, Sihra JK, Thorne MAS, Morley SA, King M, Viant MR, Peck LS (2017). Biodiversity in marine invertebrate responses to acute warming revealed by a comparative multi-omics approach. *Global Change Biology* 23, 318-330 (8.997)
20. Clark MS, Suckling CC, Cavallo A. et al. (2019) Molecular mechanisms underpinning transgenerational plasticity in the green sea urchin *Psammechinus miliaris*. *Scientific Reports* 9: 939. (4.011)
21. Clark MS, Thorne MA, Burns G, Peck LS (2016). Age-related thermal response: the cellular resilience of juveniles. *Cell Stress Chaperones* 21, 75-85. (2.411)
22. Clark MS, Villota Nieva L, Hoffman JI, Davies AJ, Trivedi UH, Turner F, Ashton GV, Peck LS. (2019) Lack of long-term acclimation in Antarctic encrusting species suggests vulnerability to warming. *Nature Communications* 10: 3383. (11.878)

23. Cottier-Cook EJ, Minchin D, Giesler R, Graham J, Mogg AOM, Sayer MDJ, Matejusova I (2019). Biosecurity implications of the highly invasive carpet sea-squirt *Didemnum vexillum* Kott, 2002 for a protected area of global significance. *Management of Biological Invasions* 10, 311-323 (1.515)
24. Courtene-Jones W, Quinn B, Gary SF, Mogg AOM, Narayanaswamy BE (2017). Microplastic pollution identified in deep-sea water and ingested by benthic invertebrates in the Rockall Trough, North Atlantic Ocean. *Environmental Pollution* 231, 271-280 (4.358)
25. Cross EL, Harper EM, Peck LS (2019) Thicker shells compensate extensive dissolution in brachiopods under future ocean acidification. *Environmental Science & Technology* 53: 5016-5026 (7.149)
26. Cross EL, Peck LS, Harper EM (2015). Ocean acidification does not impact shell growth or repair of the Antarctic brachiopod *Liothyrella uva* (Broderip, 1833). *Journal of Experimental Marine Biology and Ecology* 462, 29-35. (1.796)
27. Cross EL, Peck LS, Lamare MD, Harper EM (2016). No ocean acidification effects on shell growth and repair in the New Zealand brachiopod *Calloria inconspicua* (Sowerby, 1846). *ICES Journal of Marine Science* 73, 920-926. (2.760)
28. Darling KF, Schweizer M, Knudsen KL, Evans KM, Bird C, Roberts A, Filipsson H, Kim J-H, Gudmundsson G, Wade CM, Sayer MDJ, Austin WEN (2016). The genetic diversity, phylogeography and morphology of Elphidiidae (Foraminifera) in the Northeast Atlantic. *Marine Micropaleontology* 129, 1-23 (1.889)
29. Dewar M, Sellami N, Chen B (2015). Dynamics of rising CO₂ bubble plumes in the QICS field experiment: Part 2 – Modelling. *International Journal of Greenhouse Gas Control* 38, 52-63. (4.064)
30. Elliott SAM, Ahti, PA, Heath MR, et al. (2016). An assessment of juvenile Atlantic cod *Gadus morhua* distribution and growth using diver operated stereo-video surveys. *Journal of Fish Biology* 89, 1190-1207 (1.519)
31. Fonseca VG, Sinniger F, Gaspar JM, Quince C, Creer S, Power DM, Peck LS, Clark MS (2017). Revealing higher than expected meiofaunal diversity in Antarctic sediments: a metabarcoding approach. *Scientific Reports* 7, 6074 (4.122)
32. Friedrich J, Janssen F, Aleynik D, Stahl H, et al (2014). Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. *Biogeosciences* 11, 1215-1259. (3.978)
33. González-Wevar CA, Chown SL, Morley SA, Coria, N, Saucède T, Poulin E (2016). Out of Antarctica: quaternary colonization of sub-Antarctic Marion Island by the limpet genus *Nacella* (Patellogastropoda: Nacellidae). *Polar Biology* 39, 77-89. (1.949)
34. Harper EM, Peck LS (2016). Latitudinal and depth gradients in marine predation pressure. *Global Ecology and Biogeography* 25, 670-678 (6.045)
35. Kawai H, Hanyuda T, Yamagishi T, Kai A, Lane C, McDevit D, Kupper FC, Saunders GW. (2015). Reproductive morphology and DNA sequences of the brown alga *Platysiphon verticillatus* support the new combination *Platysiphon gracilis*. *Journal of Phycology* 51, 910-917. (2.536)
36. Kita J, Stahl H, Hayashi M, Green T, Watanabe Y, Widdicombe S (2015). Benthic megafauna and CO₂ bubble dynamics observed by underwater photography during a controlled sub-seabed release of CO₂. *International Journal of Greenhouse Gas Control* 38, 202-209. (4.064)
37. Krasnobaev A, ten Dam G, Boerrigter-Eenling R, Peng F, van Leeuwen SPJ, Morley SA, Peck LS, van den Brink NW. (2020) Legacy and emerging persistent organic pollutants in Antarctic benthic invertebrates near Rothera Point, western Antarctic Peninsula. *Environmental Science & Technology* (in press) (7.149)
38. Küpper FC, Amsler CD, Morley S, et al. (2019) Juvenile morphology of the large Antarctic canopy-forming brown alga, *Desmarestia menziesii* J. Agardh. *Polar Biology* 42: 2097-2103. (2.002)
39. Kupper FC, Peters AF, Shewring DM, Sayer MDJ, Mystikou A, Brown H, Azzopardi E, Dargent O, Strittmatter M, Brennan D, Asensi AO, van West P, Wilce RT (2016). Arctic marine phytobenthos of northern Baffin Island. *Journal of Phycology* 52, 532-549 (2.608)
40. Lichtschlag A, James RH, Stahl H, Connelly D (2015). Effect of a controlled sub-seabed release of CO₂ on the biogeochemistry of shallow marine sediments, their pore waters, and the overlying water column. *International Journal of Greenhouse Gas Control* 38, 80-92. (4.064)
41. Maeda Y, Shitashima K, Sakamoto A (2015). Mapping observations using AUV and numerical simulations of leaked CO₂ diffusion in sub-seabed CO₂ release experiment at Ardmucknish Bay. *International Journal of Greenhouse Gas Control* 38, 143-152. (4.064)
42. Melbourne L, Schmidt DN, Rayfield E, Denny M, Harniman R (2018). The importance of wave exposure on the structural integrity of rhodoliths. *Journal of Experimental Marine Biology and Ecology* 503, 109-119 (2.365)
43. Mogg AOM, Attard KM, Stahl H, Brand T, Turnewitsch, R, Sayer MDJ (2017). The influence of coring method on the preservation of sedimentary and biogeochemical features when sampling soft-bottom, shallow coastal environments. *Limnology and Oceanography: Methods* 15, 905-915 (2.015)
44. Moria C, Satoa T, Kanoa Y, Oyamaa H, Aleynik D, Tsumuned D, Maedad Y (2015). Numerical study of the fate of CO₂ purposefully injected into the sediment and seeping from seafloor in Ardmucknish Bay. *International Journal of Greenhouse Gas Control* 38, 153-161. (4.064)

45. Morley SA, Bates AE, Lamare M, Richard J, Nguyen KD, Brown J, Peck LS (2016). Rates of warming and the global sensitivity of shallow marine invertebrates to elevated temperature. *Journal of the Marine Biological Association of the United Kingdom* 96, 159-165. (1.038)
46. Morley SA, Chien-Hsian L, Clarke A, Tan KS, Thorne MAS, Peck LS (2014). Limpet feeding rate and the consistency of physiological response to temperature. *Journal of Comparative Physiology B* 184, 563-570. (2.619)
47. Morley SA, Peck LS, Sunday JM, Heiser S, Bates AE. (2019) Physiological acclimation and persistence of ectothermic species under extreme heat events. *Global Ecology and Biogeography* 28: 1018-1037. (5.667)
48. Peck LS (2016). A cold limit to adaptation in the sea. *Trends in Ecology and Evolution* 31, 13-26. (15.268)
49. Peck LS, Thorne MAS, Hoffman JI, Morley SA, Clark MS (2015). Variability among individuals is generated at the gene expression level. *Ecology* 96, 2004-2014. (4.733)
50. Peck LS, Morley SA, Richard J (2014). Acclimation and thermal tolerance in Antarctic marine ectotherms. *Journal of Experimental Biology* 217: 16-22 (2.897)
51. Peck LS, Heiser S, Clark MS (2016). Very slow embryonic and larval development in the Antarctic limpet *Nacella* *Polaris*. *Polar Biology* 39, 2273-2280 (1.949)
52. Pessarrodona A, Moore PJ, Sayer MDJ, Smale DA (2018). Carbon assimilation and transfer through temperate marine ecosystems is diminished under a warmer ocean climate. *Global Change Biology* 24, 4386-4398 (8.880)
53. Pratt N, Ciotti BJ, Morgan EA, Taylor P, Stahl H, Hauton C (2015). No evidence for impacts to the molecular ecophysiology of ion or CO₂ regulation in tissues of selected surface-dwelling bivalves in the vicinity of a sub-seabed CO₂ release. *International Journal of Greenhouse Gas Control* 38, 193-201. (4.064)
54. Reynolds DJ, Hall IR, Slater S, Scourse JD, Halloran PR, Sayer MDJ (2017) Reconstructing past seasonal to multi-centennial scale variability in the NE Atlantic Ocean using the long-lived marine bivalve mollusc *Glycymeris glycymeris*. *Paleoceanography* 32, 1153-1173 (2.718)
55. Reynolds DJ, Richardson CA, Scourse JD, Butler PB, Hollyman P, Román-González, Hall IR (2017). Reconstructing North Atlantic marine climate variability using an absolutely-dated sclerochronological network. *Palaeogeography, Palaeoclimatology, Palaeoecology* 465 Part B, 333-346 (2.392)
56. Roberts A, Austin W, Evans K, Bird C, Schweizer, Darling K (2016). A new integrated approach to taxonomy: the fusion of molecular and morphological systematics with type material in benthic foraminifera. *PLoS One* 11, e0158754 (2.806).
57. Rouse S, Porter JS, Wilding TA (2020) Artificial reef design affects benthic secondary productivity and provision of functional habitat. *Ecology and Evolution* (in press) (2.415)
58. Sayer MDJ (2019). Fishery manipulation through stock enhancement or restoration. In: *Encyclopedia of Ocean Sciences, Third Edition* (Cochran, J.K., Bokuniewicz, H.J., Yager, P.L., eds.). Volume 2, 385-392. Oxford: Elsevier.
59. Sayer MDJ, Azzopardi E (2014). The silent witness: using dive computer records in diving fatality investigations. *Diving and Hyperbaric Medicine* 44, 167-169. (0.683)
60. Sayer MDJ, Azzopardi E, Sieber A (2014). Decompression management by 43 models of dive computer: single square-wave exposures to between 15 and 50msw. *Diving and Hyperbaric Medicine* 44, 193-201 (0.683)
61. Sayer MDJ, Azzopardi E, Sieber A (2016). User settings on dive computers: reliability in aiding conservative diving. *Diving and Hyperbaric Medicine* 46, 98-110 (1.200)
62. Schuster A, Buzzacott P, Reif S, Kuch B, Gerges A, Azzopardi E, Sayer MDJ, Sieber A (2014). Function selection among popular dive computer models: a review and proposed improvements. *Underwater Technology* 32, 159-165
63. Sellami N, Dewar M, Stahl H, Chen B (2015). Dynamics of rising CO₂ bubble plumes in the QICS field experiment: Part 1 – The experiment. *International Journal of Greenhouse Gas Control* 38, 44-51. (4.064)
64. Sharp FC, Sayer MDJ (2017). A technical diving-related burns case: treatment in a remote location. *Diving and Hyperbaric Medicine* 47, 127-130 (1.197)
65. Shitashima K, Maeda Y, Sakamoto A (2015). Detection and monitoring of leaked CO₂ through sediment, water column and atmosphere in a sub-seabed CCS experiment. *International Journal of Greenhouse Gas Control* 38, 135-142. (4.064)
66. Sleight VA, Marie B, Jackson DJ, Dyrinda EA, Marie A, Clark MS (2016). An Antarctic molluscan biomineralisation tool-kit. *Scientific Reports* 6, 36978 (4.259)
67. Sleight VA, Peck LS, Dyrinda EA, Smith VJ, Clark MS (2018). Cellular stress responses to chronic heat shock and shell damage in temperate *Mya truncata*. *Cell Stress and Chaperones* 23, 1003-1017 (2.903)
68. Sleight VA, Thorne AS, Peck LS, Clark MS (2015). Transcriptomic response to shell damage in the Antarctic clam, *Laternula elliptica*: time scales and spatial localisation. *Marine Genomics* 20, 45-55. (1.883)
69. Smale DA, Burrows MT, Evans AJ, King N, Sayer MDJ, Yunnice ALE Moore PJ (2016). Linking environmental variables with regional-scale variability in ecological structure and carbon storage function of kelp forests in the United Kingdom. *Marine Ecology Progress Series* 542, 79-95. (2.292)
70. Smale DA, Moore PJ (2017). Variability in kelp forest structure along a latitudinal gradient in ocean temperature. *Journal of Experimental Marine Biology and Ecology* 486, 255-264 (1.990)

71. Souster TA, Morley SA, Peck LS (2018). Seasonality of oxygen consumption in five common Antarctic benthic marine invertebrates. *Polar Biology* 41, 897-908 (2.002)
72. Spicer JI, Morley SA. (2019) Will giant polar amphipods be first to fare badly in an oxygen-poor ocean? Testing hypotheses linking oxygen to body size. *Philosophical Transactions of the Royal Society (B)* 374: 2019003. (6.139)
73. Suckling CC, Clark MS, Richard J, Morley SA, Thorne MAS, Harper EM, Peck LS (2015). Adult acclimation to combined temperature and pH stressors significantly enhances reproductive outcomes compared to short-term exposures. *Journal of Animal Ecology* 84, 773-784. (4.827)
74. Tait K, Stahl H, Taylor P, Widdicombe S (2015). Rapid response of the active microbial community to CO₂ exposure from a controlled sub-seabed CO₂ leak in Ardmucknish Bay (Oban, Scotland). *International Journal of Greenhouse Gas Control* 38, 171-181. (4.064)
75. Taylor P, Lichtschlag A, Tobermann M, Sayer MDJ, Reynolds A, Sato T, Stahl H (2015). Impact and recovery of pH in marine sediments subject to a temporary carbon dioxide leak. *International Journal of Greenhouse Gas Control* 38, 93-101. (4.064)
76. Taylor P, Stahl H, Blackford J, Vardy ME, Bull J, Ackhurst M, Hauton C, James R, Lichtschlag A, Long D, Montgomery J, Naylor M, Smith D, Sayer MDJ, Widdicombe S, Wright I (2015). A novel sub-seabed CO₂ release experiment informing monitoring and impact assessment for geological carbon storage. *International Journal of Greenhouse Gas Control* 38, 3-17. (4.064)
77. Teagle H, Moore PJ, Jenkins H, Smale DA (2018). Spatial variability in the diversity and structure of faunal assemblages associated with kelp holdfasts (*Laminaria hyperborea*) in the northeast Atlantic. *PLoS One* 13, e0200411 (2.776)
78. Tsiamis K, Salomidi M, Gerakaris V, Mogg AOM, Porter ES, Sayer MDJ, Küpper FC (2020). Macroalgal vegetation on a north European artificial reef (Loch Linnhe, Scotland): biodiversity, community types and role of abiotic factors. *Journal of Applied Phycology* (in press) (2.635)
79. Tsukasaki A, Suzumura M, Lichtschlag A, Stahl H, James RH (2015). Phosphorus behavior in sediments during a sub-seabed CO₂ controlled release experiment. *International Journal of Greenhouse Gas Control* 38, 102-109. (4.064)
80. Vause BJ, Morley SA, Fonseca VG, Jażdżewska A, Ashton GV, Barnes DKA, Giebner H, Clark MS, Peck LS. (2019) Spatial and temporal dynamics of Antarctic shallow soft-bottom benthic communities: ecological drivers under climate change. *BMC Ecology* 19: 27. (2.381)
81. Watanabe Y, Tait K, Gregory S, Hayashi M, Shimamoto A, Taylor P, Stahl H, Green K, Yoshinaga I, Suwa Y, Kita J (2015). Response of the ammonia oxidation activity of microorganisms in surface sediment to a controlled sub-seabed release of CO₂. *International Journal of Greenhouse Gas Control* 38, 162-170. (4.064)
82. Watson S-A, Morley SA, Bates AE et al. (2014). Low global sensitivity of metabolic rate to temperature in calcified marine invertebrates. *Oecologia* 174: 45-54 (3.093)
83. Webb, A.L., K.A.Hughes, K.A., Grand, M.M., Lohan, M.C. and Peck, L.S. (2020) Sources of elevated heavy metal concentrations in sediments and benthic marine invertebrates of the western Antarctic Peninsula. *Science of the Total Environment* 698: 134268. (5.589)
84. Westley K, Plets R, and Quinn R (2014). Holocene paleo-geographic reconstructions of the Ramore Head Area, Northern Ireland, using geophysical and geotechnical data: paleo-landscape mapping and archaeological implications. *Geoarchaeology: An International Journal* 29, 411-430. (1.770)
85. Widdicombe S, McNeill CL, Stahl H, Taylor P, Queirós AM, Nunes J, Tait K (2015). Impact of sub-seabed CO₂ leakage on macrobenthic community structure and diversity. *International Journal of Greenhouse Gas Control* 38, 182-192. (4.064)
86. Wilding T (2014). Effects of man-made structures on sedimentary oxygenation: extent, seasonality and implications for offshore renewables. *Marine Environmental Research* 97, 39-47. (2.762)
87. Wilson CM, Sayer MDJ (2015). Cerebral arterial gas embolism in a professional diver with a persistent foramen ovale. *Diving and Hyperbaric Medicine* 45, 124-126. (0.952)
88. Wright S, Hull T, Sivyer D, Pearce D, Pinnegar JK, Sayer MDJ, Mogg AOM, Gontarek S, Azzopardi E, Hyder K. (2016) SCUBA divers as oceanographic samplers: the potential of dive computers to augment aquatic temperature monitoring. *Scientific Reports* 6, 30164. (4.259)
89. Yang EC, Peters AF, Kawai H, Stern R, Hanyuda T, Bàrbara I, Müller DG, Strittmatter M, Prud'homme van Reine WF, Küpper FC (2014). Ligulate *Desmarestia* (*Desmarestiales*, *Phaeophyceae*) revisited: *D. japonica* sp. nov. and *D. dudresnayi* differ from *D. ligulata*. *Journal of Phycology* 50: 149-166 (2.844)
90. Zwerschke N, Emmerson MC, Roberts D, O'Connor NE (2016). Benthic assemblages associated with native and non-native oysters are similar. *Marine Pollution Bulletin* 111, 305-310 (3.146)
91. Zwerschke N, van Rein H, Harrod C, et al. (2018). Competition between co-occurring invasive and native consumers switches between habitats. *Functional Ecology* 32, 2717-2729 (5.037)
92. Zwerschke N, Eagling L, Roberts D, O'Connor N (2020). Can an invasive species compensate for the loss of a declining native species? Functional similarity of native and introduced oysters. *Marine Environmental Research* 153, 104793 (3.445)