**2025**

Sequeira AMM et al. with ~300 authors including **Richardson AJ** (resubmitted 19/12/2024) Global tracking of marine megafauna space use reveals how to achieve conservation targets. *Science*

Dornelas et al. (486 authors including **Richardson AJ**) (in press, 24/1/2025) BioTIME 2.0: expanding and improving a database of biodiversity time series. *Global Ecology and Biogeography*

**Buenafe KCV**, Dunn DC, Metaxas A, **Everett, JD**, Schoeman DS, **Pidd A**, **Brito-Morales I**, Hanson JO, Kim SW, Scales KL, **Richardson AJ** (2025) Current approaches and future opportunities in designing climate-smart protected areas. *Nature Reviews in Biology* <https://doi.org/10.1038/s44358-025-00041-0>

Eddy TD, **Heneghan RF**, Bryndum-Buchholz A, Fulton EA, Harrison CS, Tittensor DP, Lotze HK, Ortega-Cisneros K, Novaglio C, Bianchi D, Büchner M, Bulman C, Cheung WWL, Christensen V, Coll M, **Everett JD**, Fierro-Arcos D, Galbraith ED, Gascuel D, Guiet J, Mackinson S, Maury O, Niiranen S, Oliveros-Ramos R, Palacios-Abrantes J, Piroddi C, du Pontavice H, Reum J, **Richardson AJ**, Schewe J, Shannon L, Shin Y-J, Steenbeek J, Volkholz J, Walker ND, Woodworth-Jefcoats P, Blanchard JL (2025) Global and regional marine ecosystem models reveal key uncertainties in climate change projections. *Earth’s Future* 13: e2024EF005537. 23 pp. <http://dx.doi.org/10.1029/2024EF005537>

**Murphy K**, Fierro‐Arcos D, Rohr T, Green D, Novaglio C, Baker K, Ortega‐Cisneros K, Eddy TD, Harrison C S, Hill S L, Keith P, Cataldo‐Mendez C, Petrik C M, Pinkerton M, Spence P, Stollberg I, Subramaniam R C, Trebilco R, Tulloch V, Abrantes JP, Bestley S, Bianchi D, Boyd P, Buchanan PJ, Bryndum‐Buchholz A, Coll M, Corney S, Datta S, **Everett JD**, Forestier R, Fulton E A, Guibourd de Luzinais V, Heneghan R, Mason J G, Maury O, McMahon CR, Murphy E, **Richardson AJ**, Tittensor DP, Spillias S, Steenbeek J, Veytia D, and Blanchard J (2025) Addressing key uncertainties to develop a climate-ready Southern Ocean Marine Ecosystem Model Ensemble (SOMEME). *Earth’s Future* 13: e2024EF004849. 25 pp. <https://doi.org/10.1029/2024EF004849>

Pigot AL, Dee L, **Richardson AJ**, Alexander J, Cooper D, Eisenhauer N, Gregory RD, Lewis S, Macgregor CJ, Massimino D, Maynard D, Phillips HRP, Rillo M, Loreaur M, Haegeman B (2025) Macroecological rules predict how biomass scales with species richness in nature. *Science* 387 (6740): 1272-1276. <https://doi.org/10.1126/science.adq3278>

**Richardson AJ**, **Buenafe KCV** (2025) A deep dive into climate connectivity. News & Views. *Nature Climate Change*. 2 pp. <https://doi.org/10.1038/s41558-025-02253-w>

**2024**

Giakoumi S, **Richardson AJ**, Doxa A, Moro S, Andrello M, Hanson JO, Hermoso V, **Mazor T**, McGowan J, Kujala H, Law E, Álvarez-Romero JG, Magris RA, Gissi E, Arafeh-Dalmau N, Metaxas A, Virtanen E, Ban NC, Runya RM, Dunn DC, Fraschetti S, Galsparsoro I, Smith RJ, Bastardie F, Stelzenmüller V, Possingham HP, Katsenevakis S (2024) Advances in systematic conservation planning concepts, tools and methods. *Trends in Ecology and Evolution*.16 pp. <https://doi.org/10.1016/j.tree.2024.12.002>

Sequeira AMM et al. with ~300 authors including **Richardson AJ** (in press, 22/10/2024) Vulnerability of marine megafauna to global at-sea anthropogenic threats. *Conservation Biology*

Reynolds SD, Franklin CE, Norman BM, **Richardson AJ**, **Everett J**, Schoeman DS, White CR, **Lawson C**, Pierce SJ, **Rohner CA**, Bach SS, Comezzi FG, Diamant S, Jaidah MY, Robinson DP, Dwyer RG (2024) Effects of climate warming on energetics and habitat of the world's largest marine ectotherm. *Science of the Total Environment*. [https://doi.org/10.1016/j.scitotenv.2024.175832](https://kwnsfk27.r.eu-west-1.awstrack.me/L0/https:%2F%2Fdoi.org%2F10.1016%2Fj.scitotenv.2024.175832/1/01020191a5807187-e616e2cc-99d6-4eb6-8328-ecdd0b536039-000000/PwVbU3dHLiJUi8H4bmaM99E8lBE=389)

**Fleury AG**, O’Hara CC, Butt N, **Restrepo J**, Halpern BS, Klein CJ, Wenger A, Kuempel CD, Gaynor KM, Bentley LK, **Richardson AJ**, Dunn DC (in press, 13/6/2024) Spatial and life history variation in a trait-based vulnerability and impact model. *PLoS One* 19(6). e0305950. 16 pp. <https://doi.org/10.1371/journal.pone.0305950>

Holden MH, Plaganyi E, Fulton EA, Campbell A, Janes R, Lovett RA, Wickens M, Adams MP, Botelho LL, Dichmont CM, Erm P, Hemstedt KJ, **Heneghan RF**, Mendiolar M, **Richardson AJ**, Rogers JGD, Saunders K, Timms L (2024) Cost–benefit analysis of ecosystem modeling to supportfisheries management. *ICES Journal of Marine Science*. 2024: 1-8. <http://doi.org/10.1111/jfb.15741>

Rohr T, **Richardson AJ**, Lenton A, Chamberlain M, Shadwick E (2024) The Global Distribution and Drivers of Grazing Dynamics Estimated from Inverse Modelling. *Geophysical Research Letters*. 12 pp. 51, e2023GL107732. <https://doi.org/10.1029/2023GL107732>

**Fourchault L**, Dahdouh-Guebas F, Dunn DC, **Everett JD**, Hanson JO, **Buenafe KCV**, **Neubert S**, **Dabalà A**, Yapa KKAS, Cannicci S, **Richardson AJ** (2024) Generating affordable protection of high seas biodiversity through cross-sectoral spatial planning. *One Earth* 7: 253-264. <https://doi.org/10.1016/j.oneear.2023.12.006>

**Blanluet A**, Game E, Dunn DC, **Everett JD**, Lombard AT, **Richardson AJ** (2024). Evaluating ecological benefits of oceanic protected areas. *Trends in Ecology and E**volution* 39(2): 175-187. <https://doi.org/10.1016/j.tree.2023.09.003>

Dalpadado P, Koll Roxy MK, Arrigo KR, van Dijken GL, Chierici M, Ostrowski M, Skern-Mauritzen R, Bakke G, **Richardson AJ**, Sperfeld E (2024) Rapid climate change alters the environment and biological production of the Indian Ocean. *Science of the total Environment* 906: 167242. 15 pp. <https://doi.org/10.1016/j.scitotenv.2023.167342>

**2023**

**Murphy KJ**, Pecl GT, **Everett JD**, **Heneghan RF**, Richards SA, **Richardson AJ**, Semmens JM, Blanchard JL (2023) Improving the biological realism of predator–prey size relationships in food web models alters ecosystem dynamics. *Biology Letters* 19: 20230142. 6 pp. <https://doi.org/10.1098/rsbl.2023.01422>

**Dabalà A**, Dahdouh-Guebas F, Dunn DC, **Everett JD**, Lovelock CE, Hanson JO, **Buenafe KCV**, **Neubert S**, **Richardson AJ** (2023) Priority areas to protect mangroves and maximise ecosystem benefits. *Nature Communications.* 14: 5863. 14 pp. <https://doi.org/10.1038/s41467-023-41333-3>

Lilly L, **Everett JD**, Suthers IM, **Richardson AJ** (2023) A global review of pyrosomes: Shedding light on the ocean’s elusive “fire-bodies”. *Limnology and Oceanography Letters* 8: 812-829. <https://doi.org/10.1002/lol2.10350>

Grutter AS, **Nishikawa N**, Uribe-Palomino J, **Richardson AJ** (2023) Corrigendum: Cleaner fish *Labroides dimidiatus* presence does not indirectly affect demersal zooplankton. *Frontiers in Marine Science*. 2 pp <https://doi.org/10.3389/fmars.2023.1227211>

Rohr T, **Richardson AJ**, Lenton A, Shadwick E, Chamberlain M (2023) Zooplankton grazing is the largest source of uncertainty in marine carbon cycling in CMIP6 IPCC. *Communications Earth & Environment* 4(212). 22 pp. <https://doi.org/10.1038/s43247-023-00871-w>

Jaspers C, **Everett JD**, Hopcroft RR, Lombard F, López-Urrutia A, KiørboeT, **Richardson AJ** (2023) Gelatinous larvacean zooplankton can enhance trophic transfer and carbon sequestration. *Trends in Ecology and Evolution* 38(10): 980-993. <https://doi.org/10.1016/j.tree.2023.05.005>

Schoeman DS, Sen-Gupta A, Harrison CS, **Everett JD**, **Brito-Morales I**, Hannah L, Bopp L, Roehrdanz P, **Richardson AJ** (2023). Demystifying global climate models for use in the life sciences. *Trends in Ecology and Evolution* 38(9): 843-858*.* <https://doi.org/10.1016/j.tree.2023.04.005>

**BerryTE**, **Coghlan ML**, Saunders BJ, Jarman S, Power M, **Richardson AJ**, Davies C, Berry O, Bunce M (2023) A 3-year plankton DNA metabarcoding survey reveals marine biodiversity patterns in Australian coastal waters. *Diversity and Distributions* 29: 862-878. <https://doi.org/10.1111/ddi.13699>

**Buenafe KCV**, Dunn DC, **Everett JD**, **Brito-Morales I**, Schoeman DS, Hanson JO, **Dabalà A**, **Neubert S**, Cannicci S, **Richardson AJ** (2023) A metric-based framework for climate-smart conservation planning. *Ecological Applications.* e2852, 29 pp. <https://doi.org/10.1002/eap.2852>

**Heneghan RF**, **Everett JD**, Blanchard JL, **Sykes P**, **Richardson AJ** (2023) Climate-driven zooplankton shifts cause large-scale declines in food quality for fish. *Nature Climate Change* 13: 470-477. <https://doi.org/10.1038/s41558-023-01630-7>

Doni L, Oliveri C, Lasa A, di Cesare A, Losaaso C, Martinez-Urtaza J, Coman F, **Richardson AJ**, Vezzulli L (2023) Large-scale impact of the 2016 Marine Heatwave on the plankton-associated microbial communities of the Great Barrier Reef (Australia). *Marine Pollution Bulletin* 188: 1-10. <https://doi.org/10.1016/j.marpolbul.2023.114685>

**Menesch J**, Godde C, Venables W, Renard D, **Richardson AJ**, Cobelli O, Waha K (2023) Agricultural diversification for crop yield stability: a smallholder adaptation strategy to climate variability in Ethiopia. *Regional Environmental Change* 23:34. 1-15. <https://doi.org/10.1007/s10113-022-02021-y>

Ratnarajah L, Abu-Alhaija R, Atkinson A, Batten S, Bax NJ, Bernard K, Canonico G, Cornils A, **EverettJD**, Grigoratou M, Ishak NHA, Johns D, Lombard F, Muxagata E, Ostle C, Pitois S, **Richardson AJ**, Schmidt K, Stemmann L, Swadling KM, Yang G, Yebra L (2023) Monitoring and modelling marine zooplankton in a changing climate. *Nature Communications* 14(564): 1-17. <https://doi.org/10.1038/s41467-023-36241-5>

Halpern BS et al. and 116 co-authors including **Richardson AJ** (2023) Priorities for synthesis research in ecology and environmental science. *Ecosphere* 14(1): e4342. <https://doi.org/10.1002/ecs2.4342>

**Li X-Y**, Yu R-C, **Richardson AJ**, Sun C, Eriksen R, Kong F-Z, Zhou Z-X, Geng H-X, Zhang Q-C, Zhou M-J (2023) Marked shifts of harmful algal blooms in the Bohai Sea linked with combined impacts of environmental changes. *Harmful Algae* 121(102370). 11 pp. <https://doi.org/10.1016/j.hal.2022.102370>

**2022**

Sun C, Hobday AJ, Condie SA, Baird M, Eveson JP, Hartog JR, **Richardson AJ**, Steven ADL, Wild-Allen K, Yang D, Yu R, Babcock RC, Mongin M (2022) Ecological forecasting and operational information systems to support sustainable ocean development. *Ecological Applications* 4: 1051-1079. <https://doi.org/10.3390/forecast4040057>

Leslie RW, **Richardson AJ**, Lipinski MR (2022) Description and morphological assessment of *Sepia typica* (Steenstrup, 1875) `(Cephalopoda: Sepiidae). *Diversity* 14(1073). 31 pp. <https://doi.org/10.3390/d14121073>

Petrik CM, Luo JY, **Heneghan RF**, **Everett JD**, Harrison CS, **Richardson AJ** (2022) Assessment and constraint of mesozooplankton in CMIP6 Earth system models*. Global Biogeochemical Cycles* *36*, e2022GB007367. 25 pp. <https://doi.org/10.1029/2022GB007367>

Rohr T, **Richardson AJ**, Lenton A, Shadwick E, Chamberlain M (2022) Recommendations for the formulation of grazing in marine biogeochemical and ecosystem models. *Progress in Oceanography* 208(102878). 27 pp. <https://doi.org/10.1016/j.pocean.2022.102878>

**Buenafe KCV**, **Everett JD**, Dunn DC, Mercer J, Suthers IM, Schilling HT, **Dabalà A**, **Richardson AJ** (2022) A global, historical database of tuna, billfish, and saury larval distributions. *Scientific Data* 9: 423, 9 pp. <https://doi.org/10.1038/s41597-022-01528-7>

Davies CH, Beckley LE, **Richardson AJ** (2022) Copepods and mixotrophic Rhizaria dominate zooplankton abundances in the oligotrophic Indian Ocean. *Deep Sea Research Part II* 202: 105136. 11 pp. <https://doi.org/10.1016/j.dsr2.2022.105136>

Boss E, Waite A, Kartensen J, Trull T, Muller-Karger F, Sosik HM, Uitz J, Acinas SG, Fennel K, Berman-Frank I, Thomalla S, Yamazaki H, Batten S, Gregori G, **Richardson AJ**, Wanninkhof R (2022) Recommendations for plankton measurements on OceanSITES moorings with relevance to other observing sites. *Frontiers in Marine Science* 9: 929436. 1-16. <https://doi.org/10.3389/fmars.2022.929436>

Andrzejaczek S et al. with 171 other authors including **Richardson AJ** (2022) Diving into the vertical dimension of elasmobranch movement ecology. *Science Advances* 8: 1-19. <https://doi.org/10.1126/sciadv.abo1754>

Grutter AS, **Nishikawa N**, Uribe Palomino J, **Richardson AJ** (2022) Cleaner fish *Labroides dimidiatus* presence does not indirectly affect demersal zooplankton. *Frontiers in Marine Science* 9: 812989. p. 1-17. <https://doi.org/10.3389/fmars.2022.812989>

Herbert-Read JE, Thornton A, Amon DJ, Birchenough SNR, Côté IM, Dias MP, Godley BJ, Keith SA, McKinley E, Peck LS, Calado R, Defeo O, Degraer S, Johnston EL, Kaartokallio H, Macreadie P, Metaxas A, Muthumbi AWN, Obura DO, Paterson DM, Piola AR, **Richardson AJ**, Schloss IR, Snelgrove PVR, Stewart BD, Thompson PM, Watson GJ, Worthington TA, Yasuhara M, Sutherland WJ (2022) A Horizon Scan of issues of global concern for marine and coastal biodiversity conservation. *Nature Ecology and Evolution* 6: 1262-1270. <https://doi.org/10.1038/s41559-022-01812-0>

Cooley S, Schoeman D, Bopp L, Boyd P, Donner S, Ito S-i, Kiessling W, Martinetto P, Ojea E, Racault M-F, Rost B, Skern-Mauritzen M, Yemane Ghebrehiwet D, Bell J, Blanchard J, Bolin J, Cheung W, Cisneros-Montemayor A, Dupont S, Dutkiewicz S, Frölicher T, Gaitán-Espitia JD, García Molinos J, Gurney-Smith H, Henson S, Hidalgo M, Holland E, Kopp R, Kordas R, Kwiatkowski L, Le Bris N, Lluch-Cota S, Logan C, Mark F, Mgaya Y, Moloney C, Muñoz Sevilla N, Randin G, Raja N, Rajkaran A, **Richardson AJ**, Roe S, Ruiz Diaz R, Salili D, Sallée J-B, Scales K, Scobie M, Simmons C, Torres O, Yool A (2022) Oceans and Coastal Ecosystems and their Services. In: *Climate Change 2022: Impacts, Adaptation, and Vulnerability.* Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press. <https://doi.org/10.1017/9781009325844.005>

Womersley FC, Humphries NE, Queiroz N, Vedor M, da Costa I, Furtado M, Abrantes K, Araujo G, Bach SS, Barnett A, Berumen ML, Bessudo Lion S, Braun CD, Clingham E, Cochran JEM, de la Parra R, Diamant S, Dove ADM, **Dudgeon CL**, Erdmann MV, Espinoza E, Fitzpatrick R, González Cano J, Green JR, Guzman HM, Hardenstine R, Hasan A, Hazin FHV, Hearn AR, Hueter RE, Jaidah MY, Labaja J, Macena BCL, Morris Jr. JJ, Norman BM, Peñaherrera-Palma C, Pierce SJ, Ramírez-Macías D, Reynolds SD, **Richardson AJ**, Robinson DP, **Rohner CA**, Rowat DRL, Sheaves M, Shivji MS, Sianipar AB, Skomal GB, Syakurachman I, Thorrold SR, Tyminski JP, Webb DH, Wetherbee BM, White TD, Clavelle T, Thums M, Meekan MG, Arrowsmith L, Lester EK, Meyers MM, Peel LR, Sequeira AMM, Eguiluz VM, Duarte CM, Sousa LL, Sims DW (2022) Tracking global collision-risk hotspots of marine traffic and the world’s largest fish. *Proceedings of the National Academy of Science* 119(20): 1-10. <https://doi.org/10.1073/pnas.2117440119>

**Brito-Morales I**, Schoeman DS, Klein C, **Everett J**, Dunn D, Garcia Molinos JM, **Buenafe KCV**,**Dominguez R**, Possingham H, **Richardson AJ** (2022) Towards climate-smart, three-dimensional protected areas for biodiversity conservation in the high seas. *Nature Climate Change* 12: 402-407. <https://doi.org/10.1038/s41558-022-01323-7>

**Lawson CL**, **Dudgeon CL**, **Richardson AJ**, Broadhurst MK, Bennett MB (2022) Flexibility for fuelling reproduction in a pelagic ray (*Mobula eregoodoo*) suggested by bioenergetic modelling. *Journal of Fish Biology* 100: 783-792. <https://doi.org/10.1111/jfb.14995>

Grigoratou M, Muller-Karger F,Montes E, **Richardson AJ**,**Everett JD**, Acevedo-Trejos E, Anderson C, Chen B, Guy-Haim T, Hinners J, Lindemann C, Martins Garcia T, Ove Möller K, Meline Monteiro F, Neeley AR, O’Brien TD, Palacz AP, Poulton AJ, Prowe AEF, Rodríguez-Santiago AE, Rousseaux CS, Runge J, Saad JF, Santi I, Stern R, Soccodato A, Vage S, Vogt M, Zervoudaki S (2022) The MBON plankton workshops: Plankton ecosystem function, biodiversity, and forecasting - research requirements and applications. *Limnology and Oceanography Bulletin* 31(1): 22-26. <https://doi.org/10.1002/lob.10479>

Stern R, Schroeder D, Highfield A, Al-Kari M, Vezzulli L, **Richardson AJ** (2022) Chapter 2. Uses of molecular taxonomy in identifying phytoplankton communities from the Continuous Plankton Recorder Survey. In *Advances in Phytoplankton Ecology*. Editors: Clementson L, Anusuya W, Eriksen R, Elsevier. pp. 47-79. <https://doi.org/10.1016/B978-0-12-822861-6.00009-1>

Reynolds SD, Norman BM, Franklin CE, Bach SS, Comezzi FG, Diamant S, Jaidah MY, Pierce SJ, **Richardson AJ**, Robinson DP, **Rohner CA**, Dwyer RG (2022) Regional variation in anthropogenic threats to Indian Ocean whale sharks. *Global Ecology and Conservation* 33: e01961. pp. 1-14. <https://doi.org/10.1016/j.gecco.2021.e01961>

Suthers IM, White Z, Hinchliffe C, Falster DS, **Richardson AJ**, **Everett JD** (2022) The Mortality/Growth ratio of larval fish, and the slope of the zooplankton size spectrum. *Fish and Fisheries* 23: 750-757. <https://doi.org/10.1111/faf.12633>

**2021**

**Richardson AJ**, Eriksen R, Hallegraeff GM, Rochester W, Pitcher G, Burford M (2021) Chapter 2. Observing changes in harmful algal blooms over time: long-term observations for studying impacts from climate change. pp. 13-35. *GlobalHAB Scientific Committee (2021). Guidelines for the Study of Climate Change Effects on HABs.* Paris, UNESCO-IOC/SCOR. (IOC Manuals and Guides no 88). Editors: Wells ML, Burford M, Kremp A, Montresor M and Pitcher GC. <https://doi.org/10.25607/OBP-1692>

Zingone A, Escalera L, Bresnan E, Enevoldsen H, Provoost P, **Richardson AJ**,Hallegraeff G (2021) Chapter 5: Datasets for the study of harmful algae, their global distribution and trends. pp. 79-103. *GlobalHAB Scientific Committee (2021). Guidelines for the Study of Climate Change Effects on HABs.* Paris, UNESCO-IOC/SCOR. (IOC Manuals and Guides no 88). Editors: Wells ML, Burford M, Kremp A, Montresor M and Pitcher GC. <https://doi.org/10.25607/OBP-1692>

Tittensor DP, Novaglio C, Harrison CS, Heneghan RF, Barrier N, Bianchi D, Bopp L, Bryndum-Bucholz A, Britten GL, BüchnerM, Cheung WWL, Christensen V, Coll M, Dunne JP, Eddy TD, **Everett JD**, Fernandes-Salvador JA, Fulton EA, Galbraith ED, Gascuel D, Guiet J, John JG, Link JS, Lotze HK, Maury O, Ortega-Cisneros K, Palacios-Abrantes J, Petrik CM, du Pontavice H, Rault J, **Richardson AJ**, Shannon L, Shin Y-J, Steenbeek J, Stock CA, Blanchard JL (2021) Next-generation ensemble projections reveal higher climate risks for marine ecosystems. *Nature Climate Change* 11: 973-981. <https://doi.org/10.1038/s41558-021-01173-9>

**Heneghan RF**, Galbraith E, Blanchard JL, Harrison C, Barrier N, Bulman C, Cheung W, Coll M, Eddy TD, Erauskin-Extramiana M, **Everett JD**, Fernandes-Salvador JA, Gascuel D, Guiet J, Maury O, Palacios-Abrantes J, Petrik CM, du Pontavice H, **Richardson AJ**, Steenbeek J, Tai TC, Volkholz J, Woodworth-Jefcoats PA, Tittensor DP (2021) Disentangling diverse responses to climate change among global marine ecosystem models. *Progress in Oceanography* 198(102659): 16 pp. <https://doi.org/10.1016/j.pocean.2021.102659>

**Armstrong AO**, Stevens GMW, Townsend KA, Murray A, Bennett MB, **Armstrong AJ**, Uribe-Palomino J, Hosegood P, **Dudgeon CL**, **Richardson AJ** (2021) Reef manta rays forage on tidally driven, high density zooplankton patches in Hanifaru Bay, Maldives. *PeerJ* 9:e11992 <http://doi.org/10.7717/peerj.11992>

Arafeh Dalmau N, **Brito-Morales I**, Schoeman DS, Klein CJ, **Richardson AJ**, Possingham H (2021) Incorporating climate velocity in marine spatial prioritization. *Methods in Ecology and Evolution* 12: 1969-1983. <https://doi.org/10.1111/2041-210X.13675>

**Campbell MD**, Schoeman DS, Venables W, Abu-Alhaija R, Batten SD, Chiba S, Coman F, Davies CH, Edwards M, Eriksen R, **Everett JD**, Fukai Y, Fukuchi M, Garrote OE, Hosie G, Huggett J, Johns DG, Kitchener JA, Koubbi P, McEnnulty F, Muxagata E, Ostle C, Robinson KV, Slotwinski A, Swadling K, Takahashi KT, Tonks M, Uribe-Palomino J, Verheye HM, Wilson W, Worship M, Yamaguchi A, Zhang W, **Richardson AJ** (2021) Testing Bergmann’s Rule in marine copepods. *Ecography* 44: 1283-1295. <https://doi.org/10.1111/ecog.05545>

**Rohner CA**, Bealey R, Fulanda BM, **Richardson AJ**, **Everett JD**, Pierce SJ (2021) Movement ecology of black marlin *Istiompax indica* in the Western Indian Ocean. *Journal of Fish Biology* 99: 1044-1059. <https://doi.org/10.1111/jfb.14809>

Hallegraeff GM, Anderson DM, Belin B,Bottein M-Y, Bresnan E, Chinain M, Enevoldsen H, Iwataki M, McKenzie C, Sunesen I, Pitcher GC, Provoost P, **Richardson AJ**, Schweibold L, Tester PA, Trainer VL, Yñiguez AT, Zingone A (2021) Perceived global increase in algal blooms is attributable to intensified monitoring and emerging bloom impacts. *Communications Earth & Environment* 2(117): 1-10. <https://doi.org/10.1038/s43247-021-00178-8>

Costa MDP, Wilson KA, **Dyer PJ**, Muelbert JH, **Richardson AJ** (2021) Potential climate-induced shifts in marine fish larvae and harvested species communities in the Southwestern Atlantic Ocean. *Climatic change* 165(66): 1-21. <https://doi.org/10.1007/s10584-021-03097-x>

Chaudhary C, **Richardson AJ**, Schoeman DS, Costello MJ (2021) Global warming is causing a more pronounced dip in marine species richness around the equator. *Proceedings of the National Academy of Science* 118(15): 1-6. <https://doi.org/10.1073/pnas.2015094118>

**Armstrong AO**, **Armstrong AJ**, Bennett MB, **Richardson AJ**, Townsend KA, **Everett J**, Hays GC, Pederson H, **Dudgeon CL** (2021) Mutualism promotes site selection in marine megafauna. *Ecology and Evolution* 11(10): 5606-5623. <https://doi.org/10.1002/ece3.7464>

Uribe-Palomino J, Gastineau R, **Richardson AJ**, Wade NM, Whittock L, Hallegraeff GM (2021) New observations on the large hemidiscoid diatom *Palmerina ostenfeldii* and its symbiotic ciliate *Vaginicola collariforma* sp. nov*.* from subtropical Australian waters. *Diatom Research* 36(2): 75-91. <https://doi.org/10.1080/0269249X.2021.1914737>

Hinchliffe C, Smith JA, **Everett JD**, Falster DS, Lara-Lopez A, Miskiewicz AG, **RichardsonAJ**, Schilling HT, Suthers IM (2021) Modelling the distribution of larval fish in a western boundary current using a multi-voyage database. *Reviews in Fish Biology and Fisheries* 31: 399-415. <https://doi.org/10.1007/s11160-021-09647-x>

Clementson LA, **Richardson AJ**, Rochester WA, Oubelkheir K, Liu B, D’Sa EJ, **Gusmão LFM**, Ajani P, Schroeder T, Ford PW, Burford M, Saeck E, Steven ADL (2021) Effect of a once in 100-year flood on a coastal phytoplankton community. *Frontiers in Marine Science* 8(580516): 1-20. <https://doi.org/10.3389/fmars.2021.580516>

**2020**

Ajani PA, Davies CH, Eriksen RS, **Richardson AJ** (2020) Global warming impacts phytoplankton at a long-term Pacific Ocean coastal station. *Frontiers in Marine Science* 7(576011): 1-11. <https://doi.org/10.3389/fmars.2020.576011>

**Heneghan RF**, **Everett JD**, Blanchard J, **Sykes P**, Batten SD, Edwards M, Takahashi K, Suthers IM, Blanchard JL, **Richardson AJ** (2020) A global size-spectrum model that resolves zooplankton community composition. *Ecological Modelling* 435(109265): 1-18. <https://doi.org/10.1016/j.ecolmodel.2020.109265>

**Armstrong AJ**, **Armstrong AO**, McGregor F, **Richardson AJ**, Bennett MB, Townsend KA, Hays G, van Keulen M, Smith J, **Dudgeon CL** (2020) Photographic identification and satellite tagging reveals connectivity between two UNESCO World Heritage Areas for mobile marine megafauna. *Frontiers in Marine Science* 7(725): 1-18. <https://doi.org/10.1111/jfb.14256>

McEnnulty FR, Davies CH, **Armstrong AO**, Atkins N, Coman F, Clementson L, Edgar S, Eriksen RS, **Everett JD**, Koslow JA, LønborgC, McKinnon AD, Miller M, O’Brien T, **Pausina S**, Uribe-Palomino J, Rochester W, Rothlisberg PC, Slotwinski A, Strzelecki J, Suthers IM, Swadling KM, Tonks ML, van Ruth P, Young JW, **Richardson AJ** (2020) A database of total zooplankton biomass in Australian marine waters. *Scientific Data* 7(217): 1-9. <https://doi.org/10.1038/s41597-020-00625-9>

**Brito-Morales I**, Schoeman DS, García Molinos J, Burrows MT, Klein CJ, Arafeh-Dalmau N, Kaschner K, Carilao C, Kesner-Reyes K, **Richardson AJ** (2020) Climate velocity reveals increasing exposure of deep-ocean biodiversity to future warming. *Nature Climate Change* 10: 576-581. <https://doi.org/10.1038/s41558-020-0773-5>

Hallegraeff G, Eriksen R, Davies C, Slotwinski A, McEnnulty F, Coman F, Uribe-Palomino J, Tonks M, **Richardson AJ** (2020) The marine planktonic dinoflagellate *Tripos*: 60 years of species-leveldistributions in Australian waters. *Australian Systematic Botany* 33: 392-411. <https://doi.org/10.1071/SB19043>

Robson BJ, Skerratt J, Baird ME, Davies C, Herzfeld M, Jones EM, Mongin M, **Richardson AJ**, Rizwi F, Wild-Allen K, Steven A (2020) Enhanced assessment of the eReefs marine models for the Great Barrier Reef using a four-level model evaluation framework. *Environmental Modelling and Software* 129: 104707. 15 pp. <https://doi.org/10.1016/j.envsoft.2020.104707>

**Armstrong AJ**, **Armstrong AO**, Bennett MB, McGregor F, Abrantes K, Barnett A, **Richardson AJ**, Townsend KA, **Dudgeon CL** (2020) The geographic distribution of reef and oceanic manta rays (*Mobula alfredi* and *Mobula birostris*) in Australian coastal waters. *Journal of Fish Biology* 96: 835-840. <https://doi.org/10.1111/jfb.14256>

Wolfe K, Anthony K, Babcock RC, Bay L, Bourne DG, Burrows D, Byrne M, Deaker DJ, Diaz-Pulido G, Frade PR, Gonzalez-Rivero M, Hoey A, Hoogenboom M, McCormick M, Ortiz J-C, Razak T, **Richardson AJ**, Roff G, Sheppard-Brennand H, Stella J, Thompson A, Watson S-A, Webster N, Audas D, Beeden R, Carver J, Cowlishaw M, Dyer M, Groves P, Horne D, Thiault L, Vains J, Wachenfeld D, Weekers D, Williams G, Mumby PJ (2020) Priority species to support the functional integrity of coral reefs. *Oceanography and Marine Biology: An Annual Review* 58: 179-318. <https://library.oapen.org/handle/20.500.12657/43148>

**2019**

McGregor F, **Richardson AJ**, **Armstrong AJ**, **Armstrong AO**, **Dudgeon CL** (2019) Rapid wound healing in a reef manta ray masks the extent of vessel strike. *PLOS One. 11 pp.* <https://doi.org/10.1371/journal.pone.0225681>

**Armstrong AO**, **Armstrong AJ**, Bennett MB, Townsend KA, **Richardson AJ**, **Dudgeon CL** (2019) Photographic identification and citizen science combine to reveal long distance movements of individual reef manta rays *Mobula alfredi* along Australia’s east coast*. Marine Biodiversity Records* 12:14. 6 pp. <https://doi.org/10.1186/s41200-019-0173-6>

**Lawson CL**, Halsey LG, Hays GC, **Dudgeon CL**, Payne NL, Bennett MB, White CR, **Richardson AJ** (2019) Powering ocean giants: the energetics of shark and ray megafauna. *Trends in Ecology and Evolution* 34(11): 1009-1021. <https://doi.org/10.1016/j.tree.2019.07.001>

BattenSD, Abu-Alhaija R, ChibaS., Edwards M, Graham G, Jyothibabu R, KitchenerJA, KoubbiP, McQuatters-GollopA, Muxagata E, Ostle C, **Richardson AJ**, Robinson KV, TakahashiKT, VerheyeHM, Wilson W (2019) A Global Plankton Diversity Monitoring Program. *Frontiers in Marine Science*. June 2019, Vol. 6, Article 321: 14 pp. <https://doi.org/10.3389/fmars.2019.00321>

Babcock RC, Bustamante RH, Fulton EA, Fulton DJ, Haywood, MDE, Hobday AJ, Kenyon R, Matear RJ, Plagányi EE, **Richardson AJ**, Vanderklift MA(2019) Severe Continental-Scale Impacts of Climate Change Are Happening Now: Extreme Climate Events Impact Marine Habitat Forming Communities Along 45% of Australia’s Coast. *Frontiers in Marine Science* 6: 411. 14 pp. <https://doi.org/10.3389/fmars.2019.00411>

**Richardson AJ**, Schoeman DS (2019) Sea animals are more vulnerable to warming than are land ones. *Nature. News & Views* 569: 50-51. <https://doi.org/10.1038/d41586-019-01193-8>

Eriksen RS, Bonham P, Davies CH, Coman F, Edgar S, McEnnulty FR, McLeod D, Miller MJ, RochesterW, Slotwinski A, Tonks ML, Uribe-Palomino J, **Richardson AJ** (2019) Australia’s Long-term Plankton Observations: The Integrated Marine Observing System National Reference Station Network. *Frontiers in Marine Science* 6: 161. 17 pp. <https://doi.org/10.3389/fmars.2019.00161>

**Pausina S**, Greenwood J, Pitt K, Rissik D, Rochester W, Skerratt J, Uribe-Palomino J, **Richardson AJ** (2019) Zooplankton of Moreton Bay. In: Tibbetts IR, Rothlisberg PC, Neil DT, Homburg TA, Brewer DT, Arthington AH (Eds) Moreton Bay Quandamooka & Catchment: Past, present and future. The Moreton Bay Foundation. Brisbane, Australia. pp. 335-360. <https://moretonbayfoundation.org/wp-content/uploads/2019/10/Moreton-Bay-Quandamooka-and-Catchment-book-edition-1-Aug-2019.pdf>

**Dudgeon CL**, Bansemar C, **Armstrong A**, **Armstrong A**, Bennett MB, Bowden D, **Richardson AJ**, Townsend KA, Hawkins E (2019) The role of citizen science photographic identification in understanding marine megafauna populations in Moreton Bay. In: Tibbetts IR, Rothlisberg PC, Neil DT, Homburg TA, Brewer DT, Arthington AH (Eds) Moreton Bay Quandamooka & Catchment: Past, present and future. The Moreton Bay Foundation. Brisbane, Australia. pp. 475-490. <https://moretonbayfoundation.org/wp-content/uploads/2019/10/Moreton-Bay-Quandamooka-and-Catchment-book-edition-1-Aug-2019.pdf>

**Tulloch VJD**, Éva E. PlagányiE, **Brown C**, **Richardson AJ**,Matear R (2019) Future recovery of baleen whales is imperiled by climate change. *Global Change Biology.* 2019: 1-19. <https://doi.org/10.1111/gcb.14573>

**Berry E**, Saunders B, **Coghlan M**, Stat M, Jarman S, **Richardson AJ**, Davies C, Berry O, Harvey ES, Bunce M (2019) Marine environmental DNA biomonitoring reveals seasonal patterns in biodiversity and identifies ecosystem responses to anomalous events. *PLOS Genetics* 15(2): e1007943. 19 pp. <https://doi.org/10.1371/journal.pgen.1007943>

**Richardson AJ,** Uribe-Palomino J, Slotwinski A, Coman F, Miskiewicz AG, Rothlisberg PC, Young JW, Suthers IM (2019) Chapter 8. Coastal and marine zooplankton: identification, biology and ecology. In *Plankton: A Guide to Their Ecology and Monitoring for Water Quality*. Edited by Suthers I, Rissik D, Richardson AJ. 2nd edition. CSIRO Publishing. pp. 141-208. ISBN: 978-0-367-03016-2

Rissik D, Ajani P, Bowling L, Gibbs M, Kobayashi T, Pitt K, **Richardson AJ**, Suthers I (2019) Chapter 3. Use of plankton for management. In *Plankton: A Guide to Their Ecology and Monitoring for Water Quality*. Edited by Suthers I, Rissik D, Richardson AJ. 2nd edition. CSIRO Publishing. pp. 37-61. ISBN: 978-0-367-03016-2

Roe T**, Richardson AJ,** Suthers I(2019) Chapter 9. Educating with Plankton. In *Plankton: A Guide to Their Ecology and Monitoring for Water Quality*. Edited by Suthers I, Rissik D, Richardson AJ. 2nd edition. CSIRO Publishing. pp. 209-222. ISBN: 978-0-367-03016-2

Suthers I, **Richardson AJ**, Rissik D. (2019) Chapter 1. The importance of plankton. In *Plankton: A Guide to Their Ecology and Monitoring for Water Quality*. Edited by Suthers I, Rissik D, Richardson AJ. 2nd edition. CSIRO Publishing. pp. 1-19. ISBN: 978-0-367-03016-2

Suthers I, Rissik D, **Richardson AJ** (2019). Editors of *Plankton: A Guide to Their Ecology and Monitoring for Water Quality*. Edited by Suthers I, Rissik D, Richardson AJ. 2nd edition. CSIRO Publishing. 230 pp. ISBN: 78-0-12-374473-9. ISBN: 978-0-367-03016-2

Bessey C, Jarman S, Stat M, **Rohner C**, Bunce M, Koziol A, Power M, Rambahiniarison J, Ponzo A, **Richardson AJ**, Berry O (2019) DNA metabarcoding assays reveal a diverse prey assemblage for *Mobula* rays in the Bohol Sea, Philippines. *Ecology and Evolution* 2019: 1-16. <https://doi.org/10.1002/ece3.4858>

Skerratt JH, Mongin M, Wild-Allen KA, Baird ME, Robson BJ, Schaffelke B, Soja-Wozniak M, Margvelashvili N, Davies CH, **Richardson** **AJ**, Steven ADL (2019) Simulated nutrient and plankton dynamics in the Great Barrier Reef (2011-2016). *Journal of Marine Systems* 192: 51-74. <https://doi.org/10.1016/j.jmarsys.2018.12.006>

**2018**

Costa DPM, **Richardson AJ**, Muelbert JH, Mills M, Possingham HP, Wilson KA (2018). RE: Brazil to create marine reserves. *Science* 359(6381): 1196-1198. <https://doi.org/10.1126/science.359.6381.1196>

Roura A, Strugnell JM, Guerra A, González AF, **Richardson AJ** (2018). Small copepods could channel missing carbon through metazoan predation. *Ecology and Evolution* 2018: 1-11. <https://doi.org/10.1002/ece3.4546>

Stewart JD, **Jaine FRA**, **Armstrong AJ**, **Armstrong AO**, Bennett MB, **Burgess KB**, **Couturier LIE**, Croll DA, Cronin MR, Deakos M, **Dudgeon CL**, Fernando D, Froman N, Germanov ES, Hall MA, Hinojosa-Alvarez S, Hosegood JE, Kashiwagi T, Laglbauer BJL, Lezama-Ochoa N, Marshall AD, McGregor F, Notarbartolo di Sciara G, Palacios MD, Peel LR, **Richardson AJ**, Rubin RD, Townsend KA, Venables SK, Stevens GMW (2018) Research priorities to support effective manta and devil ray conservation. *Frontiers in Marine Science* 5(314): 27 pp. <https://doi.org/10.3389/fmars.2018.00314>

Smith JA, Miskiewicz AG, Beckley LE, **Everett JD**, Garcia V, Gray CA, Holliday D, Jordan AR, Keane J, Lara-Lopez A, Leis JM, Matis PA, Muhling BA, Neira FJ, **Richardson AJ**, Smith KA, Swadling KM, Syahailatua A, Taylor MD, van Ruth PD, Ward TM, Suthers IM (2018) A database of marine larval fish assemblages in Australian temperate and subtropical waters. *Scientific Data* 5:180207. <https://doi.org/10.1038/sdata.2018.207>

**Couturier LIE**, Newman P, **Jaine FRA**, Bennett MB, Venables WN, Cagua E, Townsend KA, Weeks SJ, **Richardson AJ** (2018) Variation in occupancy and habitat use of *Manta alfredi* at a major aggregation site. *Marine Ecology Progress Series* 599: 125-145. <https://doi.org/10.3354/meps12610>

Brown MV, van de Kamp J, Ostrowski M, Seymour JR, Ingleton T, Messer LF, Jeffries T, Siboni N, Laverock B, Bibiloni-Isaksson J, Nelson TM, Coman F, Davies CH, Frampton D, Rayner M, Goossen K, Rober S, Homes B, Abell GCJ, Craw P, Kahlke T, Li San Sow S, McAllister K, Windsor J, Skuza M, Crossing R, Patten N, Malthouse P, van Ruth PD, Paulsen I, Fuhrman JA, **Richardson A**, Koval J, Bissett A, Fitzgerald A, Moltmann T, Bodrossy L (2018) Systematic, continental scale temporal monitoring of marine pelagic microbiota by the Australian Marine Microbial Biodiversity Initiative. *Nature Scientific Data* 5: 180130. 16 pp. <https://doi.org/10.1038/sdata.2018.130>

Boss E, Waite A, Muller-Karger F, Yamazaki H, Wanninkhof R; Sosik H, Sloyan B, **Richardson A**, Miloslavich P, Karstensen J, Gregori G, Fennel K, Claustre H, Cornejo M, Berman-Frank I, Batten S, Acinas S (2018) Beyond chlorophyll fluorescence: The time is right to expand biological measurements in ocean observing programs. *Limnology and Oceanography Bulletin* August 27(3): 89-90. <https://doi.org/10.1002/lob.10243>

Costa DPM, Mills M, **Richardson AJ**, Fuller RA, Muelbert H, Possingham HP (2018) Efficiently enforcing artisanal fisheries to protect estuarine biodiversity. *Ecological Applications* 28(6): 1450-1458. <https://doi.org/10.1002/eap.1744>

**Brito-Morales I**, Molinos JG, Schoeman DS, Burrows MT, Poloczanska ES, **Brown CJ**, Ferrier S, Harwood TD, Klein CJ, McDonald-Madden E, Moore PJ, Pandolfi JM, Watson JE, Wenger AS, **Richardson AJ** (2018) Climate velocity can inform conservation in a warming world. *Trends in Ecology and Evolution* 33(6): 441-457. <https://doi.org/10.1016/j.tree.2018.03.009>

Davies C, Ajani P, Armbrecht L, Atkins N, Baird M, Beard J, Bonham P, Burford M, Clementson L, Coad P, Crawford C, Dela-Cruz J, Doblin M, Edgar S, Eriksen R, **Everett JD**, Furnas M, Harrison DP, Hassler C, Henschke N, Hoenner X, Ingleton T, Jameson I, Keesing J, Leterme SC, McLaughlin JM, Miller M, Moffatt D, Moss A, Nayar S, Patten NL, Patten R, **Pausina SA**, Proctor R, Raes E, Robb M, Rothlisberg P, Saeck EA, Scanes P, Suthers IM, Swadling KM, Talbot S, Thompson P, Thomson PG, Uribe-Palomino J, van Ruth P, Waite AM, Wright S, **Richardson AJ** (2018) A database of chlorophyll a in Australian waters. *Scientific Data* 5: 180018. <https://doi.org/10.1038/sdata.2018.18>

Uribe-Palomino J, Lopez R, Gibbons M, **Gusmao F**, **Richardson AJ** (2018) Siphonophores of the Surface Waters of the Colombian Pacific Ocean. *Journal of the Marine Biological Association UK* 1-14. <https://doi.org/10.1017/S0025315417002065>

Dornelas et al., including **Richardson AJ** (2018) BioTIME: a database of biodiversity time series for the Anthropocene. *Global Ecology and Biogeography* 27: 760-786. <https://doi.org/10.1111/geb.12729>

**Burgess KB**, Guerrero M, Marshall AD, **Richardson AJ**, Bennett MB, **Couturier LIE** (2018) Novel signature fatty acid profile of the giant manta ray suggests reliance on an uncharacterised mesopelagic food source low in polyunsaturated fatty acids. *PLoS One* 13(1): e0186464. <https://doi.org/10.1371/journal.pone.0186464>

**Rohner CA**, **Richardson AJ**, **Jaine FRA**, Bennett, MB, Weeks SJ, Cliff G, Robinson D, Pierce SJ (2018) Satellite tagging highlights the importance of productive Mozambican coastal waters to the ecology and conservation of whale sharks. *PeerJ*. 24 pp. <https://doi.org/10.7717/peerj.4161>

**Tulloch VJD**, PlagányiEE, Matear R, **Brown C**, **Richardson AJ** (2018) Ecosystem modelling to quantify the impact of historical whaling on Southern Hemisphere baleen whales. *Fish and Fisheries* 19: 117-137. <https://doi.org/10.1111/faf.12241>