

Argo floats

- Oke, PR, Schiller, A 2007, Impact of Argo, SST, and altimeter data on an eddy-resolving ocean reanalysis, *Geophysical Research Letters*, vol. 34, doi:10.1029/2007GL031549
- Power, SB, Plummer, N, Alford, P 2007, Making climate model forecasts more useful, *Australian Journal of Agricultural and Resource Economics*, vol. 58, no. 10, pp. 945-951, doi:10.1071/AR06196
- Tomczak, M 2007, Variability of Antarctic intermediate water properties in the South Pacific Ocean, *Ocean Science*, vol. 3, pp. 363-377
- Domingues, CM, Church, JA, White, N, Gleckler, P, Wijffels, S, Barker, PM, Dunn, JR 2008, Improved estimates of upper-ocean warming and multi-decadal sea-level rise, *Nature*, vol. 453, no. 7198, pp. 1090-1096, doi:10.1038/nature07080
- Schiller, A, Oke, PR, Brassington, GB, Entel, M, Griffin, DA, Mansbridge, JV, Fiedler, R 2008, Eddy-resolving ocean circulation in the Asian-Australian region inferred from an ocean reanalysis effort, *Progress in Oceanography*, vol. 76, no. 3, pp. 334-365, doi:10.1016/j.pocean.2008.01.003
- Boning, CW, Dispert, A, Visbeck, M, Rintoul, S 2008, The response of the Antarctic Circumpolar Current to recent climate change, *Nature Geoscience*, vol. 1, no. 12, pp. 864-869, doi:10.1038/ngeo362
- Oke, PR, Sakov, P 2008, Representation error of oceanic observations for data assimilation, *Journal of Atmospheric and Oceanic Technology*, vol. 25, pp. 1004-1017
- Oke, PR, Brassington, GB, Griffin, DA 2008, The Bluelink Ocean Data Assimilation System (BODAS), *Ocean Modelling*, vol. 21, no. 1-2, pp. 46-70, doi:10.1016/j.ocemod.2007.11.002
- Wijffels, S, Willis, J, Domingues, CM, Barker, PM, White, N, Gronell, A, Ridgway, K, Church, JA 2008, Changing expendable bathythermograph fall rates and their impact on estimates of thermosteric sea level rise, *Journal of Climate*, vol. 21, pp. 5657-5672, doi:10.1175/2008JCLI2290.1
- Gronell, A, Wijffels, S 2008, A semiautomated approach for quality controlling large historical ocean temperature archives, *Journal of Atmospheric and Oceanic Technology*, vol. 25, no. 6, pp. 990-1003, doi:10.1175/JTECH0539.1
- Dombrowsky, E, Bertino, L, Brassington, GB, Chassignet, EP, Davidson, F, Hurlburt, HE, Kamachi, M, Lee, T, Martin, MJ, Mei, S, Tonani, M 2009, GODAE systems in operation, *Oceanography*, vol. 22, no. 3, pp. 80-95
- Hurlburt, HE, Brassington, GB, Drillet, Y, Kamachi, M, Benkiran, M, Bourdalle-Baude, R, Chassignet, EP, Jacobs, GA, Le Galloudec, O, Lellouche, JM, Metzger, EJ, Oke, PR, Pugh, TF, Schiller, A, Smedstad, OM, Tranchant, B, Tsujino, H, Usui, N, Wallcraft, AJ 2009, High resolution global and basin-scale ocean analyses and forecasts, *Oceanography*, vol. 22, no. 3, pp. 110-127
- Roemmich, D, et. al. 2009, Argo: the challenge of continuing 10 years of progress, *Oceanography*, vol. 22, no. 3, pp. 46-55
- Schiller, A, Ridgway, K, Steinberg, C, Oke, PR 2009, Dynamics of three anomalous SST events in the Coral Sea, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL036997
- Oke, PR, Balmaseda, MA, Benkiran, M, Cummings, J, Dombrowsky, E, Fujii, Y, Guinehut, S, Larnicol, G, LeTraon, P, Martin, MJ 2009, Observing system evaluations using GODAE systems, *Oceanography*, vol. 22, no. 3, pp. 144-153, doi:10.5670/oceanog.2009.72.
- Oke, PR, Schulz, E, Sakov, P 2009, A comparison of shelf observation platforms for assimilation into an eddy-resolving ocean model, *Dynamics of Atmospheres and Oceans*, vol. 48, pp. 121-142

- Sokolov, S, Rintoul, S 2009, The circumpolar structure and distribution of the Antarctic circumpolar current fronts. Part 1: mean circumpolar paths, *Journal of Geophysical Research - Oceans*, vol. 114, doi:10.1029/2008JC005108
- Sokolov, S, Rintoul, S 2009, The circumpolar structure and distribution of the Antarctic circumpolar current fronts. Part 2: variability and relationship to sea surface height, *Journal of Geophysical Research - Oceans*, vol. 114, doi:10.1029/2008JC005248
- Cummings, J, Bertino, L, Brasseur, P, Fukumori, I, Kamachi, M, Martin, MJ, Oke, PR, Emmanuel Testut, C, Verron, J, Weaver, A 2009, Ocean data assimilation systems for GODAE, *Oceanography*, vol. 22, no. 3, pp. 96-109, doi:10.5670/oceanog.2009.69
- Jacobs, GA, Woodham, RH, Jourdan, D, Braithwaite, J 2009, GODAE applications useful to Navies throughout the world, *Oceanography*, vol. 22, no. 3, pp. 182-189
- Brasseur, P, Gruber, N, Barciela, R, Brander, K, Doron, M, El Moussaoui, A, Hobday, A, Huret, M, Kremer, AS, Lehodey, P, Matear, R, Moulin, C, Murtugudde, R, Senina, I, Svendsen, E 2009, Integrating biogeochemistry and ecology into ocean data assimilation systems, *Oceanography*, vol. 22, pp. 206-215
- Brassington, GB, Divakaran, P 2009, The theoretical impact of remotely sensed sea surface salinity observations in a multi-variate assimilation system, *Ocean Modelling*, vol. 27, no. 1-2, pp. 70-81, doi:10.1016/J.ocemod.2008.12.005
- Cai, W, Pan, A, Roemmich, D, Cowan, T, Guo, X 2009, Argo profiles a rare occurrence of three consecutive positive Indian Ocean Dipole events, 2006-2009, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL037038
- You, Y 2009, Thermocline circulation and ventilation of the Japan/East Sea, part II: a Source Water-Mass Mixing (SWAM) model, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1049-1078, doi:10.1016/j.dsr.2010.05.001
- Sallee, J-B, Speer, K, Rintoul, S, Wijffels, S 2010, Southern Ocean thermocline ventilation, *Journal of Physical Oceanography*, vol. 40, no. 3, pp. 509-529, doi:10.1175/2009JPO4291.1.
- Van Wijk, EM, Rintoul, S, Ronai, BM, Williams, G 2010, Regional circulation around Heard and McDonald Islands and through the Fawn Trough, central Kerguelen Plateau, *Deep Sea Research Part I*, vol. 57, no. 5, pp. 653-669, doi:10.1016/J.dsr.2010.03.001
- Williams, G, Meijers, AJS, Poole, A, Mathiot, P, Tamura, T, Klocker, A 2010, Late winter oceanography off the Sabrina and BANZARE coast (117-128 E), East Antarctica, *Deep Sea Research Part II*, vol. 58, no. 9-10, pp. 1194-1210, doi:10.1016/j.dsr2.2010.10.035
- Sallee, J-B, Speer, K, Rintoul, S 2010, Zonally asymmetric response of the Southern Ocean mixed-layer depth to the Southern Annular Mode, *Nature Geoscience*, vol. 3, pp. 273-279, doi:10.1038/ngeo812
- Woodham, RH, Exelby, J 2010, Using ocean forecast data to improve sonar range prediction: harnessing advances in operational oceanography for anti-submarine warfare, and other naval applications, *Sea Technology*, vol. 51, no. 11
- Nairn, R, Bateman, S, Woodham, RH 2010, Oceanography and Force 2030: harnessing Australian marine science as a force multiplier, *Australian Defence Force Journal*, vol. 182, pp. 5-15
- Ridgway, K, Dunn, JR 2010, Satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/j.dsr.2010.05.010.
- Thresher, RE, Wilson, NC, MacRae, CM, Neil, H 2010, Temperature effects on the calcite skeletal composition of deep-water gorgonians (Isididae), *Geochimica et Cosmochimica Acta*, vol. 74, no. 16, pp. 4655-4670, doi:10.1016/j.gca.2010.05.024
- Sandery, PA, Brassington, GB, Craig, A, Pugh, TF 2010, Impacts of ocean-atmosphere coupling on tropical cyclone intensity change and ocean prediction in the Australian region, *Monthly Weather Review*, vol. 138, no. 1, pp. 2074-2091, doi:10.1175/2010MWR3101.1
- Helm, KP, Bindoff, N, Church, JA 2010, Changes in the global hydrological-cycle inferred from ocean salinity, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044222
- Cai, W, Cowan, T, Arblaster, JM, Wijffels, S 2010, On potential causes for an under-estimated global ocean heat content trend in CMIP3 models, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044399
- Godfrey, S, Dunn, JR 2010, Depth-integrated steric height as a tool for detecting non-Sverdrup behavior in the global ocean, *Journal of Marine Research*, vol. 68, no. 3-4, pp. 387-412, doi:10.1357/002224010794657100

- Herraiz-Borreguero, L, Rintoul, S, Coleman, R 2010, Subantarctic Mode Water variability influenced by mesoscale eddies south of Tasmania, *Journal of Geophysical Research - Oceans*, vol. 115, doi:10.1029/2008JC005146.2010
- Clark, M, Althaus, F, Williams, A, Niklitschek, E, Menezes, GM, Hareide, NR, Sutton, P, O'Donnell, C 2010, Are deep-sea demersal fish assemblages globally homogenous? Insights from seamounts, *Marine Ecology - An Evolutionary Perspective*, vol. 31, pp. 39-51, doi:10.1111/j.1439-0485.2010.00384.x
- Feng, M, McPhaden, M, Lee, T 2010, Decadal variability of the Pacific subtropical cells and their influence on the southeast Indian Ocean, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL042796
- Williams, A, Althaus, F, Dunstan, P, Poore, G, Bax, N, Kloser, R, McEnnulty, F 2010, Scales of habitat heterogeneity and megabenthos biodiversity on an extensive Australian continental margin (100-1100 m depths), *Marine Ecology - An Evolutionary Perspective*, vol. 31, no. 1, pp. 222-236, doi:10.1111/j.1439-0485.2009.00355.x
- Sallee, J-B, Speer, K, Rintoul, S 2010, Response of the Southern Ocean mixed-layer depth to climate variability, *Nature Geoscience*, vol. 3, no. 4, pp. 273-279, doi:10.1038/ngeo812
- Williams, G, Hindell, MA, Houssais, MN, Tamura, T, Field, IC 2010, Upper ocean stratification and sea ice growth rates during the summer-fall transition, as revealed by Elephant seal foraging in the Adélie Depression, East Antarctica, *Ocean Science*, vol. 7, pp. 1913-1951, doi:10.5194/osd-7-1913-2010
- Kloser, R, Penrose, JD, Butler, AJ 2010, Multi-beam backscatter measurements used to infer seabed habitats, *Continental Shelf Research*, vol. 30, no. 16, pp. 1772-1782, doi:10.1016/j.csr.2010.08.004
- Feng, M, Slawinski, D, Beckley, L, Keesing, J 2010, Retention and dispersal of shelf waters influenced by interactions of ocean boundary current and coastal geography, *Marine and Freshwater Research*, vol. 61, no. 11, pp. 1259-1267, doi:10.1071/MF09275
- Andreu-Burillo, I, Brassington, GB, Oke, PR, Beggs, H 2010, Including a new data stream in the Bluelink Ocean Data Assimilation System, *Australian Meteorological and Oceanographic Journal*, vol. 59, pp. 77-86
- Oke, PR, Brassington, GB, Griffin, DA, Schiller, A 2010, Ocean data assimilation: a case for ensemble optimal interpolation, *Australian Meteorological and Oceanographic Journal*, vol. 59, pp. 67-76
- Walsh, K, Sandery, PA, Brassington, GB, Pak, B, Entel, M, Siegenthaler-LeDrian, C, Kepert, J, Dargaville, R 2010, Constraints on exchange coefficients in tropical cyclones at extreme wind speeds, *Journal of Geophysical Research - Oceans*, doi:10.1029/2009JC005876
- You, Y, Chang, KI, Yun, JY, Kim, KR 2010, Thermocline circulation and ventilation of the East/Japan Sea, part I: water-mass characteristics and transports, *Deep Sea Research Part II*, vol. 57, no. 13-14, pp. 1221-1246, doi:10.1016/j.dsr2.2009.12.011
- Ganachaud, AS, Vega, A, Rodier, M, Dupouy, C, Maes, C, Marchesiello, P, Eldin, G, Ridgway, K, Le Borgne, R 2010, Observed impact of upwelling events on water properties and biological activity off the southwest coast of New Caledonia, *Marine Pollution Bulletin*, vol. 61, no. 7, pp. 449-464, doi:10.1016/j.marpolbul.2010.06.042
- Diamond, HJ, Plummer, N, Walsh, CT 2010, Southern hemisphere meteorology and oceanography, *Bulletin of the American Meteorological Society*, vol. 91, no. 2, pp. 245-249
- Brassington, GB 2010, Estimating surface divergence of ocean eddies using observed trajectories from a surface drifting buoy, *Journal of Atmospheric and Oceanic Technology*, vol. 27, no. 4, pp. 705-720, doi:10.1175/2009JTECHO651.1
- Lee, T, Awaji, T, Balmaseda, MA, Ferry, N, Fujii, Y, Fukumori, I, Giese, B, Heimbach, P, Kohl, A, Masina, S, Remy, E, Rosati, A, Schodlok, M, Stammer, D, Weaver, A 2010, Consistency and fidelity of Indonesian-throughflow total volume transport estimated by 14 ocean data assimilation products, *Dynamics of Atmospheres and Oceans*, vol. 50, no. 2, pp. 207-223, doi:10.1016/J.dynatmoce.2009.12.004
- Liu, Y, Bye, JAT, You, Y, Bao, X, Wu, D 2010, The flushing and exchange of the South China Sea derived from salt and mass conservation, *Deep Sea Research Part II*, vol. 57, no. 13-14, pp. 1212-1220, doi:10.1016/J.dsr2.2009.12.010
- Sloyan, B, Talley, LD, Chereskin, TK, Fine, R, Holte, J 2010, Antarctic intermediate water and subantarctic mode water formation in the Southeast Pacific: the role of turbulent mixing, *Journal of Physical Oceanography*, vol. 40, no. 7, pp. 1558-1574, doi:10.1175/2010JPO4114.1
- Zika, JD, McDougall, TJ, Sloyan, B 2010, Weak mixing in the eastern North Atlantic: an application of the tracer-contour inverse method, *Journal of Physical Oceanography*, vol. 40, no. 8, pp. 1881-1893, doi:10.1175/2010JPO4260.1

- Santoso, A, Sen Gupta, AS, England, MH 2010, Genesis of Indian Ocean mixed layer temperature anomalies: A heat budget analysis, *Journal of Climate*, vol. 23, no. 20, pp. 5375-5403, doi:10.1175/2010JCLI3072.1
- Ridgway, K, Dunn, JR 2010, Using satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part I*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/J.dsr.2010.05.010
- Drushka, K, Sprintall, J, Gille, ST, Brodjonegoro, I 2010, Vertical structure of Kelvin waves in the Indonesian throughflow exit passages, *Journal of Physical Oceanography*, vol. 40, no. 9, pp. 1965-1987, doi:10.1175/2010JPO4380.1
- Durack, P, Wijffels, S 2010, Fifty-year trends in global ocean salinities and their relationship to broad-scale warming, *Journal of Climate*, vol. 23, no. 16, pp. 4342-4362, doi:10.1175/2010JCLI3377.1
- Schiller, A, Wijffels, S, Sprintall, J, Molcard, R, Oke, PR 2010, Pathways of intraseasonal variability in the Indonesian throughflow region, *Dynamics of Atmospheres and Oceans*, vol. 50, pp. 174-200, doi:10.1016/j.dynatmoce.2010.02.003
- Cai, W, Cowan, T, Godfrey, S, Wijffels, S 2010, Simulations of processes associated with the fast warming rate of the southern midlatitude ocean, *Journal of Climate*, vol. 23, no. 1, pp. 197-206, doi:10.1175/2009jch1308..1
- Aoki, S, Yoshikasu, S, Sasaki, H, Mitsudera, H, Williams, G 2010, The cyclonic circulation in the Australian-Antarctic basin simulated by an eddy-resolving general circulation model, *Ocean Dynamics*, vol. 60, no. 3, pp. 743-757, doi:10.1007/s10236-009-0261-y
- Durack, P, Wijffels, S, Bindoff, N 2011, Ocean salinity: a water cycle diagnostic?, *Bulletin of the American Meteorological Society*, vol. 92, no. 6, pp. 91-93, doi:10.1175/1520-0477-92.6.S1
- Pearce, A, Slawinski, D, Feng, M, Hutchins, B, Fearn, PRCS 2011, Modelling the potential transport of tropical fish larvae in the Leeuwin Current, *Continental Shelf Research*, vol. 31, pp. 2018-2040, doi:10.1016/j.csr.2011.10.006
- Weller, E, Holliday, D, Feng, M, Beckley, L, Thompson, P 2011, A continental shelf scale examination of the Leeuwin Current off Western Australia during the austral autumn-winter, *Continental Shelf Research*, vol. 31, pp. 1858-1868, doi:10.1016/j.csr.2011.08.008
- Neuheimer, AB, Thresher, RE, Lyle, J, Semmens, J 2011, Tolerance limit for fish growth exceeded by warming waters, *Nature Climate Change*, vol. 1, pp. 110-113, doi:10.1038/nclimate1084
- Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling seasonal and interannual variability in a western boundary current and its impact on coastal connectivity, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 628-644, doi:10.1016/J.dsr2.2010.06.009
- Holbrook, N, Goodwin, ID, McGregor, S, Molina, E, Power, SB 2011, ENSO to multi-decadal time scale changes in East Australian Current transports and Fort Denison sea level: Oceanic Rossby waves as the connecting mechanism, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 547-558, doi:10.1016/j.dsr2.2010.06.007
- Liu, Q, Feng, M, Wang, D 2011, ENSO-induced interannual variability in the southeastern South China Sea, *Journal of Oceanography*, vol. 67, no. 1, pp. 127-133, doi:10.1007/5/0872-011-0002-y
- Herraiz-Borreguero, L, Rintoul, S 2011, Subantarctic Mode Water: distribution and circulation, *Ocean Dynamics*, vol. 61, no. 1, pp. 103-126, doi:10.1007/5/0236-010-0352-9
- Coleman, M, Roughan, M, MacDonald, HS, Connell, SD, Gillanders, B, Kelaher, BP, Steinberg, C 2011, Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp, *Journal of Ecology*, vol. 99, no. 4, pp. 1026-1032, doi:10.1111/j.1365-2745.2011.01822.x
- Zhang, X, Cornuelle, B, Roemmich, D 2011, Adjoint sensitivity of the Nino-3 surface temperature to wind forcing, *Journal of Climate*, vol. 24, pp. 4480-4493, doi:10.1175/2011JCLI3917.1
- Meijers, AJS, Bindoff, N, Rintoul, S 2011, Estimating the 4-dimensional structure of the Southern Ocean using satellite altimetry, *Journal of Atmospheric and Oceanic Technology*, vol. 28, pp. 548-568, doi:10.1175/2010JTECHO790.1
- Williams, A, Althaus, F, Clark, M, Gowlett-Holmes, K 2011, Composition and distribution of deep-sea benthic invertebrate megafauna on the Lord Howe Rise and Norfolk Ridge, southwest Pacific Ocean, *Deep Sea Research Part II*, vol. 58, no. 7-8, pp. 948-958, doi:10.1016/j.dsr2.2010.10.050
- Hill, K, Rintoul, S, Ridgway, K, Oke, PR 2011, Decadal changes in the South Pacific western boundary current system revealed in observations and reanalysis state estimates, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029

Mongin, M, Matear, R, Chamberlin, M 2011, Seasonal and spatial variability of remotely sensed chlorophyll and physical fields in the SAZ-Sense region, *Deep Sea Research Part II*, vol. 58, pp. 2082-2093

Meijers, AJS, Bindoff, N, Rintoul, S 2011, Frontal movements and property fluxes: contributions to heat and freshwater trends in the Southern Ocean, *Journal of Geophysical Research - Oceans*, vol. 116, no. C8, doi:10.1029/2010JC006832

Meijers, AJS, Bindoff, N, Rintoul, S 2011, Estimating the four-dimensional structure of the Southern Ocean using Satellite Altimetry, *Journal of Atmospheric and Oceanic Technology*, vol. 28, pp. 548-568, doi:10.1175/2010JTECHO790.1

Lee, M, Nurser, AJG, Stevens, I, Sallee, J-B 2011, Subduction over the Southern Indian Ocean in a high-resolution atmosphere-ocean coupled model, *Journal of Climate*, vol. 24, pp. 3830-3849, doi:10.1175/2011JCLI3888.1

Hobday, A, Hartog, JR, Spillman, CM, Alves, O 2011, Seasonal forecasting of tuna habitat for dynamic spatial management, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 68, pp. 898-911, doi:10.1139/f2011-031

Feng, M, Boning, CW, Biastoch, A, Behrens, E, Weller, E, Masumoto, Y 2011, The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian throughflow and Leeuwin Current transports, *Geophysical Research Letters*, vol. 38, no. 11, doi:10.1029/2011GL047291

Downes, SM, Gnanadesikan, A, Griffies, S, Sarmiento, JL 2011, Water mass exchange in the Southern Ocean in coupled climate models, *Journal of Physical Oceanography*, vol. 41, pp. 1756-1771, doi:10.1175/2011JPO4586.1

Divakaran, P, Brassington, GB 2011, Arterial ocean circulation of the southeast Indian Ocean, *Geophysical Research Letters*, vol. 38, doi:10.1029/2010GL045574

Czeschel, RL, Stramma, L, Schwarzkopf, FU, Giese, B, Funk, A, Karstensen, J 2011, Middepth circulation of the eastern tropical South Pacific and its link to the oxygen minimum zone, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2010JC006565

Church, JA, White, N, Konikow, LF, Domingues, CM, Cogley, JG, Rignot, E, Gregory, JM, van den Broeke, MR, Monaghan, AJ, Velicogna, I 2011, Revisiting the Earth's sea-level and energy budgets from 1961 to 2008, *Geophysical Research Letters*, vol. 38, doi:10.1029/2011GL048794

Baird, ME, Everett, JD, Suthers, I 2011, Analysis of southeast Australian zooplankton observations of 1938-42 using synoptic oceanographic conditions, *Deep Sea Research Part II*, vol. 58, pp. 699-711

Herraiz-Borreguero, L, Rintoul, S 2011, Regional circulation and its impact on upper ocean variability south of Tasmania (Australia), *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2071-2081, doi:10.1016/j.dsr2.2011.05.022

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, MA 2011, The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia, *Deep Sea Research Part II*, vol. 58, pp. 592-605, doi:10.1016/j.dsr2.2010.10.002

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling coastal connectivity in a western boundary current: seasonal and inter-annual variability, *Deep Sea Research Part II*, vol. 58, pp. 628-644, doi:10.1016/j.dsr2.2010.06.004

Brassington, GB, Summons, N, Lumpkin, R 2011, Observed and simulated Lagrangian and eddy characteristics of the East Australian Current and the Tasman Sea, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 559-573, doi:10.1016/j.dsr2.2010.10.001

Ciasto, LM, Alexander, MA, Deser, C, England, MH 2011, On the persistence of cold-season SST anomalies associated with the annular modes, *Journal of Climate*, vol. 24, pp. 2500-2515, doi:10.1175/2010JCLI3535.1

Johnson, G, Wijffels, S 2011, Ocean density change contributions to sea level rise, *Oceanography*, vol. 24, no. 2, pp. 112-121, doi:10.5670/oceanog.2011.31

Langlais, C, Rintoul, S, Schiller, A 2011, Variability and mesoscale activity of the Southern Ocean fronts: identification of a circumpolar coordinate system, *Ocean Modelling*, vol. 39, no. 1-2, pp. 79-96, doi:10.1016/j.ocemod.2011.04.010

O'Kane, TJ, Oke, PR, Sandery, PA 2011, Predicting the East Australian Current, *Ocean Modelling*, vol. 38, pp. 251-266

Oke, PR, Griffin, DA 2011, The cold-core eddy and strong upwelling off the coast of New South Wales in early 2007, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 574-591, doi:10.1016/j.dsr2.2010.06.006

- Sallee, J-B, Rintoul, S 2011, Parameterization of eddy-induced subduction in the Southern Ocean surface layer, *Ocean Modelling*, vol. 39, pp. 146-153
- Strutton, P, Martz, TM, DeGrandpre, MD, McGillis, WR, Drennan, WM, Boss, E 2011, Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom, *Journal of Geophysical Research - Oceans*, vol. 116, C11037, doi:10.1029/2010JC006872
- O'Kane, TJ, Oke, PR, Sandery, PA 2011, Ensemble prediction study of the East Australian Current, *Australian and New Zealand Industrial and Applied Mathematics Journal*, vol. 52, pp. 38-55
- Feng, M, Caputi, N, Penn, J, Slawinski, D, de Lestang, S, Pearce, A 2011, Ocean circulation, Stokes drift and connectivity of western rock lobster population, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 68, pp. 1182-1196
- Schiller, A 2011, Ocean circulation on the North Australian Shelf, *Continental Shelf Research*, vol. 31, no. 10, pp. 1087-1095, doi:10.1016/j.csr.2011.03.013
- Martin, MJ, et. al. 2011, Group for High Resolution SST (GHRSSST) analysis fields intercomparisons. Part 1: A GHRSSST Multi-Product Ensemble (GMPE), *Deep Sea Research Part II*, vol. 77, no. 15, pp. 21-30, doi:/10.1016/j.dsr2.2012.04.013
- Sandery, PA, Brassington, GB 2011, Adaptive nonlinear dynamical initialization, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2010JC006260
- Yin, Y, Alves, O, Oke, PR 2011, An ensemble ocean data assimilation system for seasonal prediction, *Monthly Weather Review*, doi:10.1175/2010MWR3419.0
- Barker, PM, Dunn, JR, Wijffels, S, Domingues, CM 2011, Pressure sensor drifts in Argo and their impacts, *Journal of Atmospheric and Oceanic Technology*, vol. 28, no. 8, pp. 1036-1049, doi:10.1175/2011JTECHO831.1
- Wu, L, Cai, W, Zhang, L, Nakamura, H, Timmermann, A, Joyce, T, McPhaden, M, Alexander, MA, Qiu, B, Visbeck, M, Chang, P, Giese, B 2012, Enhanced warming over the global subtropical western boundary currents, *Nature Climate Change*, no. 2, pp. 161-166, doi:DOI: 10.1038/NCLIMATE1353
- Nuccitelli, D, Way, R, Painting, R, Church, JA, Cook, J 2012, Comment on ocean heat content and Earth's radiation imbalance. II. Relation to climate shifts., *Physics Letters A*, vol. 376, pp. 3466-3468, doi:10.1016/j.physleta.2012.10010
- Chaojiao, S, Feng, M, Matear, R, Chamberlin, M, Schiller, A 2012, Marine downscaling of a future climate scenario for Australian boundary currents, *Journal of Climate*, vol. 25, pp. 2947-2962
- Zavala-Garay, J, Arango, HG, Wilkin, J 2012, Predictability of mesoscale variability in the East Australian Current given strong-constraint data assimilation, *Journal of Physical Oceanography*, doi:10.1175/JPO-D-11-0668.1
- Xue, Y, Balmaseda, MA, Boyer, T, Ferry, N, Good, S, Ishikawa, Y, Kumar, A, Rienecker, M, Rosati, A, Yin, Y 2012, A comparative analysis of upper-ocean heat content variability from an ensemble of operational oceans reanalyses, *Journal of Climate*, vol. 25, pp. 6905-6929, doi:10.1175/JCLI-D-00542.1
- Sallee, J-B, Matear, R, Rintoul, S, Lenton, A 2012, Localized subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans, *Nature Geoscience*, vol. 5, pp. 579-584, doi:10.1038/ngeo1523
- Rayson, MD, Jones, N, Ivey, GN 2012, Temporal variability of the standing internal tide in the Browse Basin, Western Australia, *Journal of Geophysical Research - Oceans*, vol. 117, doi:10.1029/2011JC007523
- Qiu, Y, Cai, W, Li, L, Guo, X 2012, Argo profiles variability of barrier layer in the tropical Indian Ocean and its relationship with the Indian Ocean Dipole, *Geophysical Research Letters*, vol. 39, doi:10.1029/2012GL051441
- Holte, J, Talley, LD, Chereskin, TK, Sloyan, B 2012, The role of air-sea fluxes in Subantarctic Mode Water formation, *Journal of Geophysical Research - Oceans*, vol. 117, doi:10.1029/2011JC007798
- Weller, E, Feng, M, Harry, H, Jian, M, Shang-Ping, X, Caputi, N 2012, Interannual variations of wind regimes off the subtropical Western Australia coast during austral winter and spring, *Journal of Climate*, vol. 25, no. 16, pp. 5587-5599, doi:10.1175/JCLI-D-11-00324.1
- Yang, Y, Sun, L, Duan, A, Li, Y, Fu, Y, Yan, Y, Wang, Z, Xian, T 2012, Impacts of the binary typhoons on upper ocean environments in November 2007, *Journal of Applied Remote Sensing*, vol. 6, doi:10.1177/1.JRS.6.063583
- Baird, ME, Ridgway, K 2012, The southward transport of sub-mesoscale lenses of Bass Strait Water in the centre of anti-cyclonic mesoscale eddies, *Geophysical Research Letters*, vol. 39, doi:10.1029/2011GL050643

- Drushka, K, Sprintall, J, Gille, ST, Wijffels, S 2012, In situ observations of Madden-Julian Oscillation mixed layer dynamics in the Indian and Western Pacific Oceans, *Journal of Climate*, vol. 25, pp. 2306-2328, doi:10.1175/JCLI-D-11-00203.1
- Durack, P, Wijffels, S, Matear, R 2012, Ocean salinities reveal strong global water cycle intensification during 1950 to 2000, *Science*, vol. 336, no. 6080, pp. 455-458, doi:10.1126/science.1212222
- Dash, P, Ignatov, A, Martin, MJ, Donlon, CJ, Brasnett, B, Reynolds, R, Banzon, V, Beggs, H, Cayula, J, Chao, Y, Grumbine, R, Maturi, E, Harris, A, Mittaz, J, Sapper, J, Chin, TM, Vazquez-Cuervo, J, Armstrong, E, Gentemann, C, Cummings, J, Piolle, J, Autret, E, Roberts-Jones, J, Ishizaki, S, Hoyer, J, Poulter, D 2012, Group for High Resolution Sea Surface Temperature (GHRSSST) analysis fields inter-comparisons - Part 2: near real time web-based level 4 SST Quality Monitor (L4-SQUAM), *Deep Sea Research Part II*, vol. 77, no. 15, pp. 31-43, doi:10.1016/j.dsr2.2012.04.002
- Rintoul, S, Meredith, MP, Schofield, O, Newman, L 2012, The Southern Ocean Observing System, *Oceanography*, vol. 25, no. 3, pp. 68-69, doi:10.5670/oceanog.2012.76
- Oke, PR, Brassington, GB, Cummings, J, Martin, MJ, Hernandez, F 2012, GODAE inter-comparisons in the Tasman and Coral Seas, *Journal of Operational Oceanography*, vol. 5, pp. 11-24
- Gleckler, P, Santer, BD, Domingues, CM, Pierce, DW, Barnett, TP, Church, JA, Taylor, KE, AchutaRao, KM, Boyer, T, Ishii, M, Caldwell, PM 2012, Human-induced global ocean warming on multidecadal timescales, *Nature Climate Change*, vol. 2, pp. 524-529, doi:10.1038/nclimate1553
- Woodham, RH, Brassington, GB, Robertson, R, Alves, O 2013, Propagation characteristics of coastally trapped waves on the Australian continental shelf, *Journal of Geophysical Research - Oceans*, vol. 118, no. 9, pp. 4461-4473, doi:10.1002/jgrc.20317
- van Sebillie, E, Spence, P, Mazloff, MR, England, MH, Rintoul, S, Saenko, OA 2013, Abyssal connections of Antarctic bottom water in a Southern Ocean state estimate, *Geophysical Research Letters*, vol. 40, no. 10, pp. 2177-2182, doi:10.1002/grl.50483
- Jaffres, JBD 2013, Mixed layer depth seasonality with Coral Sea based on Argo data , *PLoS One*, vol. 8, no. e60985, doi:10.1371/journal.pone.0060985
- Otto, A, Otto, FEL, Boucher, O, Church, JA, Hegerl, G, Forster, PM, Gillett, NP, Gregory, JM, Johnson, G, Knutti, R, Lewis, N, Lohman, U, Marotzke, J, Myhre, G, Shindell, D, Stevens, B, Allen, MR 2013, Energy budget constraints on climate response, *Nature Geoscience*, vol. 6, pp. 415-416, doi:10.1038/ngeo1386
- Sallee, J-B, Shuckburgh, E, Bruneau, N, Bracegirdle, T, Wang, Z, Meijers, AJS 2013, Assessment of Southern Ocean mixed-layer depths in CMIP5 models: historical bias and forcing response., *Journal of Geophysical Research - Oceans*, vol. 118, pp. 1845-1862, doi:10.1002/jgrc.20157
- Oke, PR, Griffin, DA, Schiller, A, Matear, R, Fiedler, R, Mansbridge, JV, Lenton, A, Cahill, M, Chamberlin, M, Ridgway, K 2013, Evaluation of a near-global eddy-resolving ocean, *Geoscientific Model Development* , vol. 6, no. 3, pp. 591-615, doi:10.5194/gmd-6-591-2013
- Schiller, A, Ridgway, K 2013, Seasonal mixed-layer dynamics in an eddy-resolving ocean circulation model, *Journal of Geophysical Research - Oceans*, vol. 118, no. 7, pp. 3387-3405, doi:10.1002/jgrc.20250
- Zhuang, W, Feng, M, Du, Y, Schiller, A, Wang, D 2013, Low-Frequency sea level variability in the southern Indian Ocean and its impacts on the oceanic meridional transports, *Journal of Geophysical Research - Oceans*, vol. 118, pp. 1302-1315, doi:10.1002/jgrc.20129
- Hobbs, WR, Willis, J 2013, Detection of an observed 135 year ocean temperature change from limited data, *Geophysical Research Letters*, vol. 40, no. 10, pp. 2252-2258, doi:10.1002/grl.50370
- Waite, A, Rossi, V, Roughan, M, Tilbrook, B, Thompson, P, Feng, M, Wyatt, LR, Raes, E 2013, Formation and maintenance of high-nitrate, low pH layers in the Eastern Indian Ocean and the role of nitrogen fixation, *Biogeosciences*, vol. 10, no. 8, pp. 5691-5702, doi:10.5194/bgd-10-5691-2013
- Johnson, G, Lyman, J, Willis, J, Levitus, S, Boyer, T, Antonov, J, Good, S, Domingues, CM, Wijffels, S, Bindoff, N 2013, Global Oceans: ocean heat content in State of the Climate in 2012 , *Bulletin of the American Meteorological Society*, vol. 94, no. 8, pp. 50-53, doi:10.1175/2013BAMSStateoftheClimate.1
- Menezes, V, Phillips, H, Schiller, A, Domingues, CM, Bindoff, N 2013, Salinity dominance on the Indian Ocean Eastern Gyral Current, *Geophysical Research Letters*, vol. 40, no. 21, pp. 5716-5721, doi:10.1002/2013GL057887

Takeshita, YTR, Martz, TM, Johnson, KS, Plant, JN, Gilbert, D, Riser, S, Neill, C, Tilbrook, B 2013, A climatology-based quality control procedure for profiling float oxygen data, *Journal of Geophysical Research - Oceans*, vol. 118, doi:10.1002/jgrc.20399

Schiller, A, Matear, R, Fiedler, R, Chamberlin, M, Mansbridge, JV 2013, Comments on the parameterization of barotropic tide-induced bottom friction mixing in the ocean circulation models, *Ocean Modelling*, vol. 69, pp. 108-122, doi:10.1016/j.ocemod.2013.06.005

Brassington, GB 2013, Multicycle ensemble forecasting of sea surface temperature, *Geophysical Research Letters*, vol. 40, no. 23, 2013GL057752, doi:10.1002/2013GL057752

Gregory, JM, Collier, MA, Bi, D, Dix, MR, Hirst, A, Hu, A, Huber, M, Knutti, R, Marsland, S, Meinshausen, M, Rashid, HA, Rotstayn, LD, Schurer, A, Church, JA 2013, Climate models without pre-industrial volcanic forcing underestimate historical ocean thermal expansion, *Geophysical Research Letters*, vol. 40, no. 8, pp. 1600-1604, doi:10.1002/grl.50339

Couldrey, M, Jullion, L, Naveira Garabato, A, Rye, C, Herraiz-Borreguero, L, Brown, P, Meredith, MP, Speer, K 2013, Remotely induced warming of Antarctic bottom water in the Eastern Weddell Gyre, *Geophysical Research Letters*, doi:10.1002/grl.50526

Matear, R, Chamberlin, M, Sun, C, Feng, M 2013, Climate change projection of the Tasman Sea from an eddy-resolving ocean model, *Journal of Geophysical Research - Oceans*, vol. 118, no. 6, pp. 2961-2976, doi:10.1002/jgrc.20202

Oke, PR, Sakov, P, Cahill, M, Dunn, JR, Fiedler, R, Griffin, DA, Mansbridge, JV, Ridgway, K, Schiller, A 2013, Towards a dynamically balanced eddy-resolving ocean reanalysis: BRAN3, *Ocean Modelling*, vol. 67, pp. 52-70, doi:10.1016/j.ocemod.2013.03.008

Feng, M, McPhaden, M, Xie, S, Hafner, J 2013, La Nina forces unprecedented Leeuwin Current warming in 2011, *Scientific Reports*, vol. 3, no. 1277, doi:10.1038/srep01277

Bostock, HC, Sutton, P, Williams, MJM, Opdyke, B 2013, Reviewing the circulation and mixing of Antarctic intermediate water in the South Pacific using evidence from geochemical tracers and Argo float trajectories., *Deep Sea Research Part I*, vol. 73, <http://www.sciencedirect.com/science/article/pii/S0967063712002270>, pp. 84-98

Chiswell, SM 2013, Lagrangian time scales and eddy diffusivity at 1000m compared to the surface in the south Pacific and Indian Oceans, *Journal of Physical Oceanography*, vol. 43, pp. 2718-2732, doi:10.1175/JPO-D-13-044.1

Fieschi, MR, Rintoul, S, Gouillon, J, Pelegri, J 2013, The Tasman leakage as inferred from Argo floats, *Geophysical Research Letters*, vol. 40, pp. 1-5, doi:10.1002/2013GL057797

Shadwick, E, Tilbrook, B, Cassar, N, Trull, T, Rintoul, S 2013, Summertime physical and biological controls on O2 and CO2 in the Australian sector of the Southern Ocean, *Journal of Marine Systems*, vol. 147, no. S1, pp. 21-28, doi:10.1016/j.jmarsys.2013.12.008

Abraham, JP, Baringer, M, Bindoff, N, et, al. 2013, A review of global ocean temperature observations: implications for ocean heat content estimates and climate change, *Review of Geophysics*, vol. 51, no. 3, pp. 450-483, doi:10.1002/rog.20022

Gaube, P, Chelton, DB, Strutton, P, Behrenfeld, MJ 2013, Satellite observations of chlorophyll, phytoplankton biomass and Ekman pumping in nonlinear mesoscale eddies, *Journal of Geophysical Research - Oceans*, vol. 118, no. 12, pp. 6349-6370, doi:10.1002/2013JCO09027

Cai, W, Qiu, Y 2013, An observation-based assessment of nonlinear feedback processes associated with the Indian Ocean Dipole, *Journal of Climate*, vol. 26, no. 9, pp. 2880-2890, doi:10.1175/JCLI-D-12-00483.1

Holte, J, Talley, LD, Chereskin, TK, Sloyan, B 2013, Subantarctic mode water in the southeast Pacific: effect of the exchange across the Subantarctic Front. , *Journal of Geophysical Research - Oceans*, vol. 118, pp. 2052-2066, doi:10.1002/jgrc.20144

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J 2013, A numerical modelling study of the East Australian Current encircling and overwashing a warm-core eddy, *Journal of Geophysical Research - Oceans*, vol. 118, no. 1, pp. 301-315, doi:10.1029/2012JC008386

Gregory, JM, White, N, Church, JA, Bierkens, NFB, Box, JE, van den Broeke, MR, Cogley, JG, Fettweis, X, Hanna, E, Huybrechts, P, Konikow, LF, Leclercq, PW, Marzeion, B, Oerlemans, J, Tamisiea, M, Wada, Y, Wake, L, van de Wal, R 2013, Twentieth-century global-mean sea-level rise: is the whole greater than the sum of the parts?, *Journal of Climate*, vol. 26, pp. 4476-4449

Menezes, V, Vianna, M, Phillips, H 2014, Aquarius sea surface salinity in the south Indian Ocean: revealing annual-period planetary waves, *Journal of Geophysical Research - Oceans*, vol. 119, no. 6, pp. 3883-3908, doi:10.1002/2014JC009935

D'Asaro, EJ, Thomson, J, Shcherbina, AY, Harcourt, R, Cronin, MF, Hemer, MA, Fox-Kemper, B 2014, Quantifying upper ocean turbulence driven by surface waves, *Geophysical Research Letters*, vol. 41, no. 1, pp. 102-107, doi:10.1002/2013GL058193

Oliver, ECJ, Holbrook, N 2014, A statistical method for improving continental shelf and near-shore marine climate predictions, *Journal of Atmospheric and Oceanic Technology*, vol. 31, no. 1, pp. 216-232, doi:10.1175/JTECH-D-13-00052.1

de Lestang, S 2014, The orientation and migratory dynamics of the western rock lobster, *Panulirus cygnus*, in Western Australia, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1052-1063, doi:10.1093/icesjms/fst205

Zhao, M, Hendon, H, Alves, O, Yin, Y 2014, Impact of improved assimilation of temperature and salinity for coupled model seasonal forecasts, *Climate Dynamics*, vol. 42, no. 9-10, pp. 2565-2583, doi:10.1007/s00382-014-2081-0

Menezes, V, Phillips, H, Schiller, A, Bindoff, N, Domingues, CM, Vianna, M 2014, South Indian Countercurrent and associated fronts, *Journal of Geophysical Research - Oceans*, vol. 119, no. 10, pp. 6763-6791, doi:10.1002/2014JC010076

O'Kane, TJ, Matear, R, Chamberlin, M, Oliver, ECJ, Holbrook, N 2014, Storm tracks in the Southern Hemisphere subtropical oceans, *Journal of Geophysical Research - Oceans*, vol. 119, no. 9, pp. 6078-6100, doi:10.1002/2014JC009990

Phillips, H, Bindoff, N 2014, On the nonequivalent barotropic structure of the Antarctic Circumpolar Current: an observational perspective, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 5221-5243, doi:10.1002/2013JC009516

O'Kane, TJ, Matear, R, Chamberlin, M, et. al. 2014, ENSO regimes and the late 1970's climate shift: the role of synoptic weather and South Pacific ocean spiciness, *Journal of Computational Physics*, vol. 271, pp. 19-38, doi:10.1016/j.jcp.2013.10.058

Lea, D, Martin, MJ, Oke, PR 2014, Demonstrating the complementarity of observations in an operational ocean forecasting system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 683, pp. 2037-2049, doi:10.1002/qj.2281

Everett, JD, Baird, ME, Roughan, M, Suthers, I, Doblin, MA 2014, Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a western boundary current, *Progress in Oceanography*, vol. 120, pp. 340-351, doi:10.1016/j.pocean.2013.10.016

Tagliabue, A, Sallee, J-B, Bowie, AR, Levy, M, Swart, S, Boyd, PW 2014, Surface-water iron supplies in the Southern Ocean sustained by deep winter mixing, *Nature Geoscience*, vol. 7, no. 4, pp. 314-320, doi:10.1038/ngeo2101

Pena-Molino, B, Rintoul, S, Mazloff, MR 2014, Barotropic and baroclinic contributions to along-stream and across-stream transport in the Antarctic Circumpolar Current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 8011-8028, doi:10.1002/2014JC010020

Kitade, Y, Shimada, K, Tamura, T, Williams, G, Aoki, S, Fukamachi, Y, Roquet, F, Hindell, MA, Ushio, S, Ohshima, KI 2014, Antarctic bottom water production from the Vincennes Bay polynya, East Antarctica, *Geophysical Research Letters*, vol. 41, no. 10, pp. 3528-3534, doi:10.1002/2014GL059971

Benthuisen, J, Feng, M, Zhong, L 2014, Spatial patterns of warming off Western Australia during the 2011 Ningaloo Nino: quantifying impacts of remote and local forcing, *Continental Shelf Research*, vol. 91, pp. 232-246, doi:10.1016/j.csr.2014.09.014

Middleton, J, James, N, James, C, Bone, Y 2014, Cross-shelf seawater exchange controls the distribution of temperature, salinity and neritic carbonate sediments in the Great Australian Bight, *Journal of Geophysical Research - Oceans*, vol. 119, no. 4, pp. 2539-2549, doi:10.1002/2013JC009420

Sandery, PA, O'Kane, TJ 2014, Coupled initialization in an ocean-atmosphere tropical cyclone prediction system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 678, pp. 82-95, doi:10.1002/qj.2117

Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M 2014, Long-term trends in the East Australian Current separation latitude and eddy driven transport, *Journal of Geophysical Research - Oceans*, vol. 119, doi:10.1002/2014JC010071

- Maes, C, O'Kane, TJ 2014, Seasonal variations of the upper ocean salinity stratification in the tropics, *Journal of Geophysical Research - Oceans*, vol. 119, no. 3, pp. 1706-1722, doi:10.1002/2013JC009366
- Miles, E, Spillman, CM, Church, JA, McIntosh, P 2014, Seasonal prediction of global sea level anomalies using an ocean-atmosphere dynamical model, *Climate Dynamics*, vol. 43, no. 7-8, pp. 2131-2145, doi:10.1007/s00382-013-2039-7
- Johnson, G, Lyman, J, Willis, J, Boyer, T, Antonov, J, Good, S, Domingues, CM, Bindoff, N 2014, Ocean heat content in State of the Climate in 2013, Blunden, Jessica and Arndt, Derek S. Eds, *Bulletin of the American Meteorological Society*, vol. 95, no. 7, pp. 54-60, doi:10.1175/2014BAMSStateoftheClimate.1
- Griffies, S, et, al. 2014, An assessment of global and regional sea level for years 1993-2007 in a suite of interannual CORE-II simulations, *Ocean Modelling*, vol. 78, no. 0, pp. 35-89, doi:10.1016/j.ocemod.2014.03.004
- Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Herbette, S, Matear, R 2014, Impact of eddies on surface chlorophyll in the south Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 8061-8077, doi:10.1002/2014JC010164
- Parker, A 2014, Present contributions to sea level rise by thermal expansion and ice melting and implication on coastal management, *Ocean and Coastal Management*, vol. 98, pp. 202-211, doi:10.1016/j.ocecoaman.2014.05.026
- Sandery, PA, Sakov, P, Majewski, L 2014, The impact of open boundary forcing on forecasting the East Australian Current using ensemble data assimilation, *Ocean Modelling*, vol. 84, pp. 1-11, doi:10.1016/j.ocemod.2014.09.005
- Weeding, B, Trull, T 2014, Hourly oxygen and total gas tension measurements at the Southern Ocean Time Series site reveal winter ventilation and spring net community production, *Journal of Geophysical Research - Oceans*, vol. 119, no. 1, pp. 348-358, doi:10.1002/2013JC009302
- Maes, C, Reul, N, Behringer, D, O'Kane, TJ 2014, The salinity signature of the equatorial Pacific cold tongue as revealed by the satellite SMOS mission, *Geoscience Letters*, vol. 1, no. 1, pp. 1-7, doi:10.1186/s40562-014-0017-5
- de Lestang, S, Caputi, N, Feng, M, et, al. 2014, What caused seven consecutive years of low puerulus settlement in the western rock lobster fishery of Western Australia?, *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsu177
- Ollitrault, M, de Verdiere, AC 2014, The ocean general circulation near 1000-m depth, *Journal of Physical Oceanography*, vol. 44, pp. 384-409, doi:10.1175/JPO-D-13-030.1
- Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012
- Fujii, Y, Ogawa, K, Brassington, GB, Ando, K, Yasuda, T, Kuragano, T 2015, Evaluating the impacts of the tropical Pacific observing system on the ocean analysis fields in the global ocean data assimilation system for operational seasonal forecasts in JMA, *Journal of Operational Oceanography*, vol. 8, no. 1, pp. 25-39, doi:10.1080/1755876x.2015.1014640
- Liu, Q, Feng, M, Wang, D, Wijffels, S 2015, Interannual variability of the Indonesian throughflow transport: a revisit based on 30-year expendable bathythermograph data, *Journal of Geophysical Research - Oceans*, vol. 120, no. 12, pp. 8270-8282, doi:10.1002/2015JCO11351
- Feng, M, Benthuisen, J, Slawinski, D 2015, Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010-2011, *Geophysical Research Letters*, vol. 42, no. 20, pp. 8555-8562, doi:10.1002/2015GL065848
- Schiller, A, Herzfeld, M, Brinkman, GW, Rizwi, F, Andrewartha, J 2015, Cross-shelf exchanges between the Coral Sea and the Great Barrier Reef lagoon determined from a regional-scale numerical model, *Continental Shelf Research*, vol. 109, pp. 150-163, doi:10.1016/j.csr.2015.09.011
- Fujii, Y, Cummings, J, Xue, Y, et, al. 2015, Evaluation of the Tropical Pacific Observing System from the ocean data assimilation perspective, *Quarterly Journal of the Royal Meteorological Society*, vol. 141, no. 692, pp. 2481-2496, doi:10.1002/qj.2579
- Roemmich, D, Church, JA, Gilson, J, Monselesan, D, Sutton, P, Wijffels, S 2015, Unabated planetary warming and its ocean structure since 2006, *Nature Climate Change*, doi:10.1038/nclimate2513
- Ryan, A, Regnier, C, Divakaran, P, et, al. 2015, GODAE OceanView Class 4 forecast verification framework: global ocean inter-comparison, *Journal of Operational Oceanography*, vol. 8, no. S1, pp. 98-111, doi:10.1080/1755876x.2015.1022330

Sloyan, B, O'Kane, TJ 2015, Drivers of decadal variability in the Tasman Sea, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3193-3210, doi:10.1002/2014JC010550

Sakov, P, Sandery, PA 2015, Comparison of EnOI and EnKF regional ocean reanalysis systems, *Ocean Modelling*, vol. 89, pp. 45-60, doi:10.1016/j.ocemod.2015.02.003

Wang, XH, Bhatt, V, Sun, Y 2015, Seasonal and inter-annual variability of western subtropical mode water in the south Pacific Ocean, *Ocean Dynamics*, vol. 65, no. 1, pp. 143-154, doi:10.1007/s10236-014-0792-8

Meyer, A, Sloyan, B, Polzin, K, Phillips, H, Bindoff, N 2015, Mixing variability in the Southern Ocean, *Journal of Physical Oceanography*, vol. 45, no. 4, pp. 966-987, doi:10.1175/JPO-D-14-0110.1

Storto, A, et. al. 2015, Steric sea level variability (1993-2010) in an ensemble of ocean reanalyses and objective analyses, *Climate Dynamics*, pp. 1-21, doi:10.1007/s00382-015-2554-9

Strutton, P, Coles, VJ, Hood, R, Matear, R, McPhaden, M, Phillips, H 2015, Biogeochemical variability in the central equatorial Indian Ocean during the monsoon transition, *Biogeosciences*, vol. 12, no. 8, pp. 2367-2382, doi:10.5194/bg-12-2367-2015

Schiller, A, Oke, PR 2015, Dynamics of ocean surface mixed layer variability in the Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 120, no. 6, pp. 4162-4186, doi:10.1002/2014JC010538

Oke, PR, Larnicol, G, Jones, EM, et. al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080

Oke, PR, Larnicol, G, Fujii, Y, et. al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 1, global studies, *Journal of Operational Oceanography*, vol. 8, pp. 49-62, doi:10.1080/1755876X.2015.1022067

Morrison, A, England, MH, Hogg, A 2015, Response of Southern Ocean convection and abyssal overturning to surface buoyancy perturbations, *Journal of Climate*, vol. 28, no. 10, pp. 4263-4278, doi:10.1175/JCLI-D-14-00110.1

Merrifield, M, Thompson, P, et. al. 2015, Sea level variability and change, in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 82-85, doi:10.1175/2015BAMSStateoftheClimate.1

Bowie, AR, et. al. 2015, Iron budgets for three distinct biogeochemical sites around the Kerguelen Archipelago (Southern Ocean) during the natural fertilisation study, KEOPS-2, *Biogeosciences*, vol. 12, no. 14, pp. 4421-4445, doi:10.5194/bg-12-4421-2015

Closset, I, Cardinal, D, Bray, SG, Thil, F, Rigual-Hernandez, A, Trull, T 2015, Seasonal variations, origin, and fate of settling diatoms in the Southern Ocean tracked by silicon isotope records in deep sediment traps, *Global Biogeochemical Cycles*, vol. 29, no. 9, pp. 1495-1510, doi:10.1002/2015GB005180

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Global Oceans: Ocean Heat Content in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Ocean heat content, in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Melbourne-Thomas, J, Wotherspoon, S, Corney, S, Molina, E, Marini, O, Constable, A 2015, Optimal control and system limitation in a Southern Ocean ecosystem model, *Deep Sea Research Part II*, vol. 114, pp. 64-73, doi:10.1016/j.dsr2.2013.02.017

Merlivat, L, Boutin, J, Antoine, D 2015, Roles of biological and physical processes in driving seasonal air-sea CO₂ flux in the Southern Ocean: new insights from CARIOCA pCO₂, *Journal of Marine Systems*, vol. 147, pp. 9-20, doi:10.1016/j.jmarsys.2014.04.015

Martin, MJ, Balmaseda, MA, Bertino, L, Brasseur, P, Brassington, GB, Cummings, J, Fujii, Y, Lea, D, Lellouche, JM, Mogensen, K, Oke, PR, et. al. 2015, Status and future of data assimilation in operational oceanography, *Journal of Operational Oceanography*, vol. 8, pp. 28-48, doi:10.1080/1755876X.2015.1022055

LeTraon, P, Antoine, D, et. al. 2015, Use of satellite observations for operational oceanography: recent achievements and future prospects, *Journal of Operational Oceanography*, vol. 8, pp. 12-27, doi:10.1080/1755876x.2015.1022050

He, Z, Feng, M, Wang, D, Slawinski, D 2015, Contribution of the Karimata Strait transport to the Indonesian throughflow as

seen from a data assimilation model, *Continental Shelf Research*, vol. 92, pp. 16-22, doi:10.1016/j.csr.2014.10.007

Wedd, R, Stringer, M, Haines, K 2015, Argo real-time quality control intercomparison, *Journal of Operational Oceanography*, vol. 8, no. 2, pp. 108-122, doi:10.1080/1755876X.2015.1087186

Richardson, M, Hausfather, Z, Nuccitelli, D, et, al. 2015, Misdiagnosis of Earth climate sensitivity based on energy balance model results, *Science Bulletin*, vol. 60, no. 15, pp. 1370-1377, doi:10.1007/s11434-015-0806-z

Evans, K, Brown, J, Sen Gupta, AS, Nicol, S, Hoyle, S, Matear, R, Arrizabalaga, H 2015, When 1+1 can be >2: uncertainties compound when simulating climate, fisheries and marine ecosystems, *Deep Sea Research Part II*, vol. 113, pp. 312-322, doi:10.1016/j.dsr2.2014.04.006

Divakaran, P, Brassington, GB, Ryan, A, Regnier, C, Spindler, T, Mehra, A, Hernandez, F, Smith, G, Liu, Y, Davidson, F 2015, GODAE OceanView inter-comparison for the Australian region, *Journal of Operational Oceanography*, vol. 8, pp. 112-126, doi:10.1080/1755876X.2015.1022333

Bell, M, Schiller, A, LeTraon, P, Smith, NR, Dombrowsky, E, Wilmer-Becker, K 2015, An introduction to GODAE OceanView, *Journal of Operational Oceanography*, vol. 8, pp. 8-11, doi:10.1080/1755876X.2015.1022041

Baringer, M, Johns, WE, Hobbs, WR, Garzoli, SL, Dong, S, Willis, J 2015, Meridional overturning circulation observations in the north Atlantic Ocean, in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 81-82, doi:10.1175/2015BAMSStateoftheClimate.1

Balmaseda, MA, Hernandez, F, Storto, A, Palmer, MD, Alves, O, Shi, L, Smith, G, et, al. 2015, The Ocean Reanalyses Intercomparison Project (ORA-IP), *Journal of Operational Oceanography*, vol. 8, pp. 80-97, doi:10.1080/1755876X.2015.1022329

Aoki, S, Mizuta, G, Sasaki, H, Sasai, Y, Rintoul, S, Bindoff, N 2015, Atlantic - Pacific asymmetry of subsurface temperature change and frontal response of the Antarctic Circumpolar Current for the recent three decades , *Journal of Oceanography*, vol. 71, no. 5, pp. 1-14, doi:10.1007/s10872-015-0284-6

d'Ovidio, F, Della Penna, A, Trull, T, Nencioli, F, Pujol, MI, Rio, H, Park, Y-J, Cotte, C, Zhou, M, Blain, S 2015, The biogeochemical structuring role of horizontal stirring: Lagrangian perspectives on iron delivery downstream of the Kerguelen Plateau , *Biogeosciences*, vol. 12, no. 19, pp. 5567-5581, doi:10.5194/bg-12-5567-2015

Merrifield, M, et, al. 2015, Global Oceans: sea level variability and change in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 82-85, doi:10.1175/2015BAMSStateoftheClimate.1

Ridgway, K, Goddard, JC 2015, The source of the Leeuwin Current seasonality, *Journal of Geophysical Research - Oceans*, vol. 120, no. 10, pp. 6843-6864, doi:10.1002/2015JC011049

de Lestang, S, Caputi, N 2015, Climate variability affecting the contranantant migration of *Panulirus cygnus*, the western rock lobster, *Marine Biology*, vol. 162, no. 9, 1900, doi:10.1007/s00227-015-2720-y

Rykova, T, Oke, PR 2015, Recent freshening of the East Australian Current and its eddies, *Geophysical Research Letters*, vol. 42, no. 21, pp. 9369-9378, doi:10.1002/2015GL066050

Pena-Izquierdo, J, van Sebille, E, Pelegri, J, Sprintall, J, Mason, E, Llanillo, P, Machin, F 2015, Water mass pathways to the North Atlantic oxygen minimum zone, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3350-3372, doi:10.1002/2014Jc010557

Garzoli, SL, Dong, S, Fine, R, Meinen, S, Perez, R, Schmid, C, van Sebille, E, Yao, Q 2015, The fate of the Deep Western Boundary Current in the South Atlantic, *Deep Sea Research Part I*, vol. 103, no. 125, doi:10.1016/j.dsr.2015.05.008

Du, Y, Zhang, Y, Feng, M, Zhang, N, Wang, T, Wijffels, S 2015, Decadal trends of the upper ocean salinity in the tropical Indo-Pacific since mid-1990s, *Nature Scientific Reports*, vol. 5, 16050, doi:10.1038/srep16050

Grenier, M, Della Penna, A, Trull, T 2015, Autonomous profiling float observations of the high-biomass plume downstream of the Kerguelen Plateau in the Southern Ocean, *Biogeosciences*, vol. 12, no. 9, pp. 2707-2735, doi:10.5194/bg-12-2707-2015

Riser, S, Freeland, HJ, Roemmich, D, Wijffels, S, et, al. 2016, Fifteen years of ocean observations with the global Argo array, *Nature Climate Change*, vol. 6, no. 2, pp. 145-153, doi:10.1038/nclimate2872

Meyer, A, Polzin, K, Sloyan, B, Phillips, H 2016, Internal waves and mixing near the Kerguelen Plateau, *Journal of Physical Oceanography*, doi:10.1175/JPO-D-15-0055.1

- Zhao, M, Hendon, H, Yin, Y, Alves, O 2016, Variations of upper-ocean salinity associated with ENSO from PEODAS reanalyses , *Journal of Climate*, vol. 29, no. 6, pp. 2077-2094, doi:10.1175/JCLI-D-15-0650.1
- Zhang, N, Feng, M, Du, Y, et, al. 2016, Seasonal and interannual variations of mixed layer salinity in the southeast tropical Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 121, pp. 4716-4731, doi:10.1002/2016JC011854
- Stewart, K, Haine, T 2016, Thermobaricity in the transition zones between Alpha and Beta Oceans, *Journal of Physical Oceanography*, vol. 46, no. 6, pp. 1805-1821, doi:10.1175/JPO-D-16-0017.1
- Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Matear, R 2016, Anticyclonic eddies are more productive than cyclonic eddies in subtropical gyres because of winter mixing, *Science Advances*, vol. 2, no. 5, e1600282-e1600282
- McCaskill, C, Shay, LK, Brewster, JK 2016, Development and assessment of the Systematically Merged Pacific Ocean Regional Temperature and Salinity (SPORTS) climatology for ocean heat content estimations, *Journal of Atmospheric and Oceanic Technology*, vol. 33, no. 10, pp. 2259-2272, doi:10.1175/JTECH-D-15-0168.1
- Roach, C, Phillips, H, Bindoff, N, Rintoul, S 2016, Detecting and characterizing Ekman Currents in the Southern Ocean , *Journal of Physical Oceanography*, vol. 45, pp. 1205-1223, doi:0.1175/JPO-D-14-0115.1
- Wijffels, S, Roemmich, D, Monselesan, D, Church, JA, Gilson, J 2016, Ocean temperatures chronicle the ongoing warming of Earth, *Nature Climate Change*, vol. 6, pp. 116-118, doi:10.1038/nclimate2924
- Raes, E, Bodrossy, L, Van De Kamp, J, Hardman-Mountford, NJ, et, al. 2016, Reduction of the powerful greenhouse gas N₂O in the south-eastern Indian Ocean, *PLoS One*, vol. 11, no. 1, e0145996, doi:10.1371/journal.pone.0145996
- Bender, M, Tilbrook, B, Cassar, N, Jonsson, B, Poisson, A, Trull, T 2016, Ocean productivity south of Australia during spring and summer, *Deep Sea Research Part I*, vol. 112, pp. 68-78, doi:10.1016/j.dsr.2016.02.018
- Lago, V, Wijffels, S, Durack, P, Church, JA, Bindoff, N, Marsland, S 2016, Simulating the role of surface forcing on observed multidecadal upper ocean salinity changes, *Journal of Climate*, vol. 29, pp. 5575-5588, doi:10.1175/JCLI-D-15-0519.1
- Menezes, V, Phillips, H, Vianna, G, Bindoff, N 2016, Interannual variability of the South Indian Countercurrent, *Journal of Geophysical Research - Oceans*, vol. 121, doi:10.1002/2015JC011417
- Roach, C, Speer, K 2016, Horizontal mixing in the Southern Ocean from Argo float trajectories, *Journal of Geophysical Research - Oceans*, vol. 121, no. 8, pp. 5570-5586, doi:10.1002/2015JC011440
- Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development* , vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016
- Sakov, P, Sandery, PA 2017, An adaptive quality control procedure for data assimilation, *Tellus A: Dynamic Meteorology and Oceanography*, vol. 69, no. 1, doi:http://dx.doi.org/10.1080/16000870.2017.1318031
- Bowen, M, et, al. 2017, Interannual variability of sea surface temperatures in the Southwest Pacific and the role of ocean dynamics, *Journal of Climate*, doi:https://doi.org/10.1175/JCLI-D-16-0852.1
- Liu, Z 2017, China Argo project: progress in China Argo ocean observations and data applications, *Acta Oceanologica Sinica*, vol. 36, no. 6, pp. 1-11, doi:10.1007/s13131-017-1035-x
- Zhang, L, et, al. 2017, Estimating decadal predictability for the Southern Ocean using the GFDL CM2.1 model, *Journal of Climate*, doi:10.1175/JCLI-D-16-0840.1
- Hu, S 2017, Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification, *Geophysical Research Letters*, vol. 44, no. 3, pp. 1448-1456, doi:10.1002/2016GL072494
- Wyatt, LR, Mantovanelli, A, Heron, M, Roughan, M, Steinberg, C 2017, Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation, *IEEE Journal of Oceanic Engineering*, no. 99, pp. 1-22, doi:10.1109/JOE.2017.2704165
- Groeskamp, S, Sloyan, B, Zika, JD, McDougall, TJ 2017, Mixing Inferred from an Ocean Climatology and Surface Fluxes, *Journal of Physical Oceanography*, vol. 47, pp. 667-687, doi:https://doi.org/10.1175/JPO-D-16-0125.1
- Rykova, T, Oke, PR, Griffin, DA 2017, A comparison of the structure, properties, and water mass composition of quasi-isotropic eddies in western boundary currents in an eddy-resolving ocean model, *Ocean Modelling*, vol. 114, pp. 1-13, doi:

Schaeffer, A, Roughan, M 2017, Subsurface intensification of marine heatwaves off southeastern Australia: The role of stratification and local winds, *Geophysical Research Letters*, vol. 44, no. 10, pp. 5025-5033, doi:10.1002/2017GL073714

Chen, X, et, al. 2017, Examination of Interannual Variability of Sea Surface Temperature in the Indian Ocean Using the Physical Decomposition Method, *Satellite Oceanography and Meteorology*, vol. 2, no. 1, doi:10.18063/SOM.2016.02.005

Xue, Y, et, al. 2017, A real-time ocean reanalyses intercomparison project in the context of tropical pacific observing system and ENSO monitoring, *Climate Dynamics*, 10.1007/s00382-017-3535-y, doi:10.1007/s00382-017-3535-y

Volkov, DL, et, al. 2017, Decade-long deep-ocean warming detected in the subtropical South Pacific, *Geophysical Research Letters*, vol. 44, no. 2, pp. 927-936, doi:10.1002/2016GL071661

Roberts, CD, et, al. 2017, Surface flux and ocean heat transport convergence contributions to seasonal and interannual variations of ocean heat content, *Journal of Geophysical Research - Oceans*, vol. 122, no. 1, pp. 726-744, doi:10.1002/2016JC012278

Journal Count

255

Ships of opportunity

Greenwood, J, Feng, M, Waite, A 2007, A one-dimensional simulation of biological production in two contrasting mesoscale eddies in the south eastern Indian Ocean , *Deep Sea Research Part II*, vol. 54, pp. 1029-1044, doi:10.1016/j.dsr2.2006.10.004

Alory, G, Wijffels, S, Meyers, G 2007, Observed trends in the Indian Ocean over 1960-1999 and associated mechanisms, *Geophysical Research Letters*, vol. 34, L02606, doi:10.1029/2007GL028044

Wijffels, S, Willis, J, Domingues, CM, Barker, PM, White, N, Gronell, A, Ridgway, K, Church, JA 2008, Changing expendable bathythermograph fall rates and their impact on estimates of thermosteric sea level rise, *Journal of Climate*, vol. 21, no. 21, pp. 5657-5672, doi:10.1175/2008JCLI2290.1

Wijffels, S, Meyers, G, Godfrey, S 2008, A 20-Yr average of the Indonesian throughflow: regional currents and the interbasin exchange, *Journal of Physical Oceanography*, vol. 38, no. 9, pp. 1965-1978

Wainwright, L, Meyers, G, Wijffels, S, Pigot, LP 2008, Change in the Indonesian throughflow with the climatic shift of 1976/77, *Geophysical Research Letters*, vol. 35, L03604, doi:10.1029/2007GL031911

Maynard, J, Turner, P, Anthony, KR, Baird, A, Berkelmans, R, Eakin, CM, Johnson, J, Marshall, P, Packer, G, Rea, A, Willis, B 2008, An interactive monitoring system for coral bleaching using high-resolution SST and improved stress predictors, *Geophysical Research Letters*, vol. 35, doi:10.1029/2007GL032175

Domingues, CM, Church, JA, White, N, Gleckler, P, Wijffels, S, Barker, PM, Dunn, JR 2008, Improved estimates of upper-ocean warming and multi-decadal sea-level rise, *Nature*, vol. 453, no. 7198, pp. 1090-1096, doi:10.1038/nature07080

Gronell, A, Wijffels, S 2008, A semiautomated approach for quality controlling large historical ocean temperature archives, *Journal of Atmospheric and Oceanic Technology*, vol. 25, no. 6, pp. 990-1003, doi:10.1175/JTECH0539.1

Morrow, R, Valladeau, G, Sallee, J-B 2008, Subsurface signature of Southern Ocean sea level rise, *Progress in Oceanography*, vol. 77, no. 4, pp. 351-366, doi:10.1016/j.pocean.2007.03.002

Sallee, J-B, Morrow, R, Speer, K 2008, Southern Ocean fronts and their variability to climate modes, *Journal of Climate*, vol. 21, no. 12, pp. 3020-3039

Ridgway, K, Coleman, R, Bailey, RJ, Sutton, P 2008, Decadal variability of East Australian Current transport inferred from repeated hi-density XBT transects, a CTD survey and satellite altimetry, *Journal of Geophysical Research - Oceans*, vol. 113, C08039, doi:10.1029/2007JC004664

Kloser, R, Ryan, T, Young, J, Lewis, M 2009, Acoustic observations of micronekton fish on the scale of an ocean basin: potential and challenges, *ICES Journal of Marine Science*, vol. 66, no. 6, pp. 998-1006, doi:10.1093/icesjms/fsp07

Demer, D, Kloser, R, MacLennan, D, Ona, E 2009, An introduction to the proceedings and a synthesis of the 2008 ICES symposium on the Ecosystem Approach with Fisheries Acoustics and Complementary Technologies (SEAFACETS), *ICES Journal of Marine Science*, vol. 66, pp. 961-965

Ridgway, K, Dunn, JR 2010, Satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/j.dsr.2010.05.010.

Pinkerton, M, Smith, A, Raymond, B, Hosie, G, Sharp, B, Leathwick, J, Bradford-Grieve, J 2010, Spatial and seasonal distribution of adult *Oithona similis* in the Southern Ocean: predictions using boosted regression trees, *Deep Sea Research Part I*, vol. 57, no. 4, pp. 469-485, doi:10.1016/J.dsr2009.12.010

Takahashi, KT, Hosie, G, Kitchener, JA, McLeod, DJ, Odate, T, Fukuchi, M 2010, Comparison of zooplankton distribution patterns between four seasons in the Indian Ocean sector of the Southern Ocean, *Polar Science*, vol. 4, no. 2, pp. 317-331, doi:10.1016/J.pdar.2010.05.00L

Edwards, M, Beaugrand, G, Hays, GC, Koslow, JA, Richardson, A 2010, Multi-decadal oceanic ecological datasets and their application in marine policy and management, *Trends in Ecology and Evolution*, vol. 25, no. 10, pp. 602-610, doi:10.1016/j.tree.2010.07.007.

McLeod, DJ, Hosie, G, Kitchener, JA, Takahashi, KT, Hunt, BPV 2010, Zooplankton atlas of the Southern Ocean: The SCAR SO-CPR Survey (1991-2008), *Polar Science*, vol. 4, no. 2, pp. 353-385, doi:10.1016/j.polar.2010.03.004

Bowie, AR, Trull, T, Dehairs, F 2011, Estimating the sensitivity of the Subantarctic Zone to environmental change, *Deep Sea Research Part II*, vol. 58, pp. 2051-2058, doi: 10.1016/j.dsr2.2011.05.034

Neuheimer, AB, Thresher, RE, Lyle, J, Semmens, J 2011, Tolerance limit for fish growth exceeded by warming waters, *Nature Climate Change*, vol. 1, pp. 110-113, doi:10.1038/nclimate1084

Allain, V, Nicol, S, Polovina, J, Coll, M, Olson, R, Griffiths, S, Dambacher, J, Young, J, Molina, J, Hoyle, S, Lawson, T 2011, International workshop on opportunities for ecosystem approaches to fisheries management in the Pacific Ocean tuna fisheries, *Reviews in Fish Biology and Fisheries*, vol. 22, no. 1, pp. 29-33, doi:10.1007/s11160-011-9220-z

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling coastal connectivity in a western boundary current: seasonal and inter-annual variability, *Deep Sea Research Part II*, vol. 58, pp. 628-644, doi:10.1016/j.dsr2.2010.06.004

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, MA 2011, The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia, *Deep Sea Research Part II*, vol. 58, pp. 592-605, doi:10.1016/j.dsr2.2010.10.002

Takahashi, KT, Hosie, G, McLeod, DJ, Kitchener, JA 2011, Surface zooplankton distribution patterns during austral summer in the Indian sector of the Southern Ocean, south of Australia, *Polar Science*, vol. 5, no. 2, pp. 134-145, doi:10.1016/j.polar.2011.04.003

Woodruff, SD, Worley, SJ, et. al. 2011, ICOADS Release 2.5: Extensions and enhancements to the surface marine meteorological archive, *International Journal of Climatology*, vol. 31, no. 7, pp. 951-967, doi:10.1002/joc.2103

Smith, T, Brown, CJ, Bulman, C, Fulton, EA, Johnson, P, Kaplan, IC, Lozano-Montes, H, Mackinson, S, Marzloff, M, Shannon, LJ, Shin, Y, Tam, J 2011, Impacts of fishing low-trophic level species on marine ecosystems, *Science*, vol. 333, no. 6046, pp. 1147-1150, doi:10.1126/science.1209395

Feng, M, Boning, CW, Biastoch, A, Behrens, E, Weller, E, Masumoto, Y 2011, The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian throughflow and Leeuwin Current transports, *Geophysical Research Letters*, vol. 38, no. 11, doi:10.1029/2011GL047291

Coleman, M, Roughan, M, MacDonald, HS, Connell, SD, Gillanders, B, Kelaher, BP, Steinberg, C 2011, Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp, *Journal of Ecology*, vol. 99, no. 4, pp. 1026-1032, doi:10.1111/j.1365-2745.2011.01822.x

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling seasonal and interannual variability in a western boundary current and its impact on coastal connectivity, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 628-644, doi:10.1016/J.dsr2.2010.06.009

Johnson, G, Wijffels, S 2011, Ocean density change contributions to sea level rise, *Oceanography*, vol. 24, no. 2, pp. 112-121, doi:10.5670/oceanog.2011.31

Weller, E, Holliday, D, Feng, M, Beckley, L, Thompson, P 2011, A continental shelf scale examination of the Leeuwin Current off Western Australia during the austral autumn-winter, *Continental Shelf Research*, vol. 31, pp. 1858-1868, doi:10.1016/j.csr.2011.08.008

- Pearce, A, Slawinski, D, Feng, M, Hutchins, B, Fearn, PRCS 2011, Modelling the potential transport of tropical fish larvae in the Leeuwin Current, *Continental Shelf Research*, vol. 31, pp. 2018-2040, doi:10.1016/j.csr.2011.10.006
- Gleckler, P, Santer, BD, Domingues, CM, Pierce, DW, Barnett, TP, Church, JA, Taylor, KE, AchutaRao, KM, Boyer, T, Ishii, M, Caldwell, PM 2012, Human-induced global ocean warming on multidecadal timescales, *Nature Climate Change*, vol. 2, pp. 524-529, doi:10.1038/nclimate1553
- Beggs, H, Verein, R, Paltoglou, G, Kippo, H, Underwood, M 2012, Enhancing ship of opportunity sea surface temperature observations in the Australian region, *Journal of Operational Oceanography*, vol. 5, no. 1, pp. 59-73
- Condon, RH, et. al. 2012, Questioning the rise of gelatinous zooplankton in the world's oceans, *BioScience*, vol. 62, no. 2, pp. 160-169, doi:10.1525/bio.2012.62.2.9
- Rousseaux, C, Lowe, R, Feng, M, Waite, A, Thompson, P 2012, The role of the Leeuwin Current and mixed layer depth on the autumn phytoplankton bloom off Ningaloo Reef, Western Australia, *Continental Shelf Research*, vol. 32, no. 1, pp. 22-35, doi:10.1016/j.csr.2011.10.010
- Zavala-Garay, J, Arango, HG, Wilkin, J 2012, Predictability of mesoscale variability in the East Australian Current given strong-constraint data assimilation, *Journal of Physical Oceanography*, doi:10.1175/JPO-D-11-0668.1
- Flynn, AJ, Kloser, R 2012, Cross-basin heterogeneity in lanternfish (family Myctophidae) assemblages and isotopic niches ($\delta^{13}C$ and $\delta^{15}N$) in the southern Tasman Sea abyssal basin, *Deep Sea Research Part I*, vol. 69, pp. 113-127
- McLeod, DJ, Hallegraeff, GM, Hosie, G, Richardson, A 2012, Climate-driven range expansion of the red-tide dinoflagellate *Noctiluca scintillans* into the Southern Ocean, *Journal of Plankton Research*, vol. 34, no. 4, pp. 332-337, doi:10.1093/plankt/fbr112
- Richardson, A, Brown, CJ, Brander, K, Bruno, JF, Buckley, L, Burrows, MT, Duarte, CM, Halpern, BS, Hoegh-Guldberg, O, Holding, J, Kappel, CV, Kiessling, W, Moore, PJ, O'Connor, MI, Pandolfi, JM, Parmesan, C, Schoeman, DS, Schwing, F, Sydeman, WJ, Poloczanska, ES 2012, Climate Change and marine life, *Biology Letters*, vol. 8, no. 6, pp. 907-909, doi:10.1098/rsbl.2012.0530
- Kida, S, Wijffels, S 2012, The impact of the Indonesian throughflow and tidal mixing on the summer-time sea surface temperature in the western Indonesian seas, *Journal of Geophysical Research - Oceans*, vol. 117, no. C9, pp. 9007-9021, doi:10.1029/2012JC008162
- Lee, R, Black, KP, Bosseler, C, Greer, D 2012, Present and future prolonged drought impacts on a large temperate embayment: Port Phillip Bay, Australia, *Ocean Dynamics*, vol. 62, no. 6, pp. 907-922, doi:10.1007/s10236-012-0538-4
- Weller, E, Feng, M, Harry, H, Jian, M, Shang-Ping, X, Caputi, N 2012, Interannual variations of wind regimes off the subtropical Western Australia coast during austral winter and spring, *Journal of Climate*, vol. 25, no. 16, pp. 5587-5599, doi:10.1175/JCLI-D-11-00324.1
- Wu, L, Cai, W, Zhang, L, Nakamura, H, Timmermann, A, Joyce, T, McPhaden, M, Alexander, MA, Qiu, B, Visbeck, M, Chang, P, Giese, B 2012, Enhanced warming over the global subtropical western boundary currents, *Nature Climate Change*, no. 2, pp. 161-166, doi:DOI: 10.1038/NCLIMATE1353
- Bakker, DCE, Pfeil, B, Hankin, S, Olsen, A, et. al. 2013, An update to the Surface Ocean CO₂ Atlas (SOCAT version 2), *Earth System Science Data*, vol. 6, pp. 465-512, doi:10.5194/essdd-6-465-2013
- Le Quere, C, Peters, GP, Andres, RJ, Andrew, RM, Boden, T, Ciais, P, et. al. 2013, Global carbon budget 2013, *Earth System Science Data*, vol. 6, pp. 689-760, doi:10.5194/essdd-6-689-2013
- Sarma, VVSS, Lenton, A, Metzl, N, Law, RM, Patra, PK, Doney, S, et. al. 2013, Sea-air CO₂ fluxes in the Indian Ocean between 1990 and 2009, *Biogeosciences*, vol. 10, pp. 7035-7052, doi:10.5194/bg-10-7035-2013
- Shadwick, E, Tilbrook, B, Cassar, N, Trull, T, Rintoul, S 2013, Summertime physical and biological controls on O₂ and CO₂ in the Australian sector of the Southern Ocean, *Journal of Marine Systems*, vol. 147, no. S1, pp. 21-28, doi:10.1016/j.jmarsys.2013.12.008
- Pfeil, B, Olsen, A, Bakker, DCE, Hankin, S, Koyuk, H, et. al. 2013, A uniform, quality controlled Surface Ocean CO₂ Atlas (SOCAT), *Earth System Science Data*, vol. 5, pp. 125-143, doi:10.5194/essd-5-125-2013
- Sabine, CL, Hankin, S, Koyuk, H, Bakker, DCE, Pfeil, B, Olsen, A, Metzl, N, et. al. 2013, Surface Ocean CO₂ Atlas (SOCAT) gridded data products, *Earth System Science Data*, vol. 5, pp. 145-153, doi:10.5194/essd-5-145-2013

Shadwick, E, Rintoul, S, Tilbrook, B, Williams, G, Young, N, Fraser, AD, Marchant, H, Smith, J, Tamura, T 2013, Glacier tongue calving reduced dense water formation and enhanced carbon uptake, *Geophysical Research Letters*, vol. 40, no. 5, pp. 904-909, doi:10.1002/grl.50178

Johnson, G, Lyman, J, Willis, J, Levitus, S, Boyer, T, Antonov, J, Good, S, Domingues, CM, Wijffels, S, Bindoff, N 2013, Global Oceans: ocean heat content in State of the Climate in 2012 , *Bulletin of the American Meteorological Society*, vol. 94, no. 8, pp. 50-53, doi:10.1175/2013BAMSStateoftheClimate.1

Brassington, GB 2013, Multicycle ensemble forecasting of sea surface temperature, *Geophysical Research Letters*, vol. 40, no. 23, 2013GL057752, doi:10.1002/2013GL057752

Hobday, A, Young, J, Abe, O, Costa, D, Cowen, R, Evans, K, Gasalla, M, Kloser, R, Maury, O, Weng, KC 2013, Climate impacts and oceanic top predators: moving from impacts to adaptation in oceanic systems, *Reviews in Fish Biology and Fisheries*, vol. 23, no. 4, pp. 1-10, doi:10.1007/s11160-013-9311-0

Abraham, JP, Baringer, M, Bindoff, N, et, al. 2013, A review of global ocean temperature observations: implications for ocean heat content estimates and climate change, *Review of Geophysics*, vol. 51, no. 3, pp. 450-483, doi:10.1002/rog.20022

Cowley, R, Wijffels, S, Cheng, L, et, al. 2013, Biases in expendable bathythermograph data: a new view based on historical side-by-side comparisons, *Journal of Atmospheric and Oceanic Technology*, vol. 30, no. 6, pp. 1195-1225, doi:10.1175/JTECH-D-12-00127.1

Couto, AB, Holbrook, N, Maharaj, AM 2013, Unravelling eastern Pacific and central Pacific ENSO contributions in south Pacific chlorophyll-a variability through remote sensing, *Remote Sensing*, vol. 5, no. 8, pp. 4067-4087, doi:10.3390/rs5084067

Handegard, NO, du Buisson, L, Brehmer, P, Chalmers, SJ, De. Robertis, A, Huse, G, Kloser, R, Macaulay, G, Maury, O, Ressler, PH, Stenseth, NC, Godo, OR 2013, Towards an acoustic-based coupled observation and modelling system for monitoring and predicting ecosystem dynamics of the open ocean, *Fish and Fisheries*, vol. 14, no. 4, pp. 605-615, doi:10.1111/J.1467-2979.2012.00480.X

Chiswell, SM 2013, Lagrangian time scales and eddy diffusivity at 1000m compared to the surface in the south Pacific and Indian Oceans, *Journal of Physical Oceanography*, vol. 43, pp. 2718-2732, doi:10.1175/JPO-D-13-044.1

Lenton, A, Tilbrook, B, Law, RM, Bakker, DCE, Doney, S, Gruber, N, Ishii, M, Hoppema, M, Lovenduski, N, Matear, R, Metzl, N, et, al. 2013, Sea-air CO₂ fluxes in the Southern Ocean between 1990 and 2009, *Biogeosciences*, vol. 10, pp. 4037-4054, doi:10.5194/bg-10-4037-2013

Tjiputra, J, Olsen, A, Bopp, L, Pfeil, B, Roy, T 2014, Long-term surface pCO₂ trends from observations and models, *Tellus B*, vol. 66, doi:10.3402/tellusb.v66.230863

Sandery, PA, O'Kane, TJ 2014, Coupled initialization in an ocean-atmosphere tropical cyclone prediction system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 678, pp. 82-95, doi:10.1002/qj.2117

O'Kane, TJ, Matear, R, Chamberlin, M, et, al. 2014, ENSO regimes and the late 1970's climate shift: the role of synoptic weather and South Pacific ocean spiciness, *Journal of Computational Physics*, vol. 271, pp. 19-38, doi:10.1016/j.jcp.2013.10.058

Sawstrom, C, Beckley, L, Saunders, M, Thompson, P, Waite, A 2014, The zooplankton prey field for rock lobster phyllosoma larvae in relation to oceanographic features of the south-eastern Indian Ocean, *Journal of Plankton Research*, vol. 36, no. 4, pp. 1003-1016, doi:10.1093/plankt/fbu019

Lehodey, P, Conchon, A, Senina, I, Domokos, R, et, al. 2014, Optimization of a micronekton model with acoustic data, *ICES Journal of Marine Science*, vol. 75, no. 2, pp. 1-14, doi:10.1093/icesjms/fsu233

Bakker, DCE, Pfeil, B, Smith, K, Hankin, S, Olsen, A, Alin, SR, Cosca, C, Harasawa, S, Kozyr, A, Nojiri, Y, O'Brien, K, Schuster, U, Telszewski, M, Tilbrook, B, et, al. 2014, An update to the Surface Ocean CO₂ Atlas (SOCAT version 2) - 2014, *Earth System Science Data*, vol. 6, no. 1, pp. 69-90, doi:10.5194/essd-6-69-2014

Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012

- Everett, JD, Baird, ME, Roughan, M, Suthers, I, Doblin, MA 2014, Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a western boundary current, *Progress in Oceanography*, vol. 120, pp. 340-351, doi:10.1016/j.pocean.2013.10.016
- Kuchinke, M, Tilbrook, B, Lenton, A 2014, Seasonal variability of aragonite saturation state in the western Pacific, *Marine Chemistry*, vol. 161, pp. 1-13, doi:10.1016/j.marchem.2014.01.001
- Hallegraeff, GM, Coman, F, Davies, C, McLeod, DJ, Slotwinski, A, Whittock, L, Richardson, A 2014, Australian dust storm associated with extensive *Aspergillus sydowii* fungal "bloom" in coastal waters, *Applied and Environmental Microbiology*, vol. 80, no. 11, pp. 3315-3320, doi:10.1128/AEM.04118-13
- Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M 2014, Long-term trends in the East Australian Current separation latitude and eddy driven transport, *Journal of Geophysical Research - Oceans*, vol. 119, doi:10.1002/2014JC010071
- Majkut, J, Sarmiento, JL, Rodgers, KB 2014, A growing oceanic carbon uptake: results from an inversion study of surface pCO₂ data, *Global Biogeochemical Cycles*, vol. 28, pp. 1-17, doi:10.1002/2013GB00458
- Benthuisen, J, Feng, M, Zhong, L 2014, Spatial patterns of warming off Western Australia during the 2011 Ningaloo Nino: quantifying impacts of remote and local forcing, *Continental Shelf Research*, vol. 91, pp. 232-246, doi:10.1016/j.csr.2014.09.014
- Shadwick, E, Tilbrook, B, Williams, G 2014, Carbonate chemistry in the Mertz Polynya (East Antarctica): biological and physical modification of dense water outflows and the export of anthropogenic CO₂, *Journal of Geophysical Research - Oceans*, vol. 119, no. 1, pp. 1-14, doi:10.1002/2013JC009286
- Cheng, L, Zhu, J, Cowley, R, et. al. 2014, Time, probe type, and temperature variable bias corrections to historical expendable bathythermograph observations, *Journal of Atmospheric and Oceanic Technology*, vol. 31, no. 8, pp. 1793-1825, doi:10.1175/JTECH-D-13-00197.1
- Roedenbeck, C, Bakker, DCE, Metzl, N, Olsen, A, Sabine, CL, Cassar, N, Reum, JC, Keeling, R[§]F, Heimann, M 2014, Interannual sea-air CO₂ flux variability from an observation-driven ocean mixed-layer scheme, *Biogeosciences*, vol. 11, pp. 4599-4613, doi:10.5194/bg-11-4599-2014
- Landschutzer, P, Gruber, N, Bakker, DCE, Schuster, U 2014, Recent variability of the global ocean carbon sink, *Global Biogeochemical Cycles*, vol. 28, pp. 1-23, doi:10.1002/2014GB004853
- de Lestang, S, Caputi, N, Feng, M, et. al. 2014, What caused seven consecutive years of low puerulus settlement in the western rock lobster fishery of Western Australia?, *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsu177
- Miles, E, Spillman, CM, Church, JA, McIntosh, P 2014, Seasonal prediction of global sea level anomalies using an ocean-atmosphere dynamical model, *Climate Dynamics*, vol. 43, no. 7-8, pp. 2131-2145, doi:10.1007/s00382-013-2039-7
- Delille, B, Vancoppenolle, M, Geilfus, NX, Tilbrook, B, Lannuzel, D, Schoemann, V, Becquevort, S, Carnat, G, Delille, D, Lancelot, C, Chou, L, Dieckmann, GS, Tison, JL 2014, Southern Ocean CO₂ sink: the contribution of the sea ice, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 6340-6355, doi:10.1002/2014JC009941
- Takahashi, KT, Sutherland, SC, Chipman, DW, Goddard, JC, Newberger, T, Sweeny, C, Munro, DR 2014, Climatological distributions of pH, pCO₂, total CO₂, alkalinity, and CaCO₃ saturation in the global surface ocean, and temporal changes at selected locations, *Marine Chemistry*, vol. 164, pp. 95-125, doi:10.1016/j.marchem.2014.06.004
- Davies, C, Armstrong, A, Baird, ME, Coman, F, Gaughan, D, Greenwood, J, Gusmao, LFM, et. al. 2014, Over 75 years of zooplankton data in Australia, *Ecology*, vol. 95, no. 11, pp. 3229-3229, doi:10.1890/14-0697.1
- Lea, D, Martin, MJ, Oke, PR 2014, Demonstrating the complementarity of observations in an operational ocean forecasting system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 683, pp. 2037-2049, doi:10.1002/qj.2281
- Lenton, A, Tilbrook, B, Matear, R, Sasse, T, Nojiri, Y 2015, Historical reconstruction of ocean acidification in the Australian region, *Biogeosciences*, vol. 13, pp. 1753-1765, doi:10.5194/bg-13-1753-2016
- Sloyan, B, O'Kane, TJ 2015, Drivers of decadal variability in the Tasman Sea, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3193-3210, doi:10.1002/2014JC010550
- Sakov, P, Sandery, PA 2015, Comparison of EnOI and EnKF regional ocean reanalysis systems, *Ocean Modelling*, vol. 89, pp. 45-60, doi:10.1016/j.ocemod.2015.02.003

Boersch-Supan, PH, Rogers, AD, Brierly, A 2015, The distribution of pelagic sound scattering layers across the southwest Indian Ocean, *Deep Sea Research Part II*, vol. 136, pp. 108-121, doi:10.1016/j.dsr2.2015.06.023

Andres, RJ, Houghton, R, Stocker, BD, Wanninkhof, R, Anderegg, W, Cooper, LA, DeGrandpre, MD, Tans, PP, Miller, JB, Alden, C, White, JWC 2015, Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty, *Biogeosciences*, vol. 12, pp. 2565-2584, doi:10.5194/bg-12-2565-2015

Garcia, HE, Cosca, C, Kozyr, A, Mayorga, E, Chandler, C, Thomas, RW, O'Brien, K, Appeltans, W, Hankin, S, Newton, J, Guttierrez, A, Gattuso, J-P, Hansson, L, Zweng, M, Pfeil, B 2015, Data management strategy to improve global use of ocean acidification data and information, *Oceanography*, vol. 28, no. 2, pp. 226-228, doi:10.5670/oceanog.2015.45

Gehlen, M, Barciela, R, Bertino, L, Brasseur, P, Butenschon, M, Chai, F, Crise, A, Drillet, Y, Ford, D, Lavoie, D, Lehodey, P, Perruche, C, Samuelson, A, Simon, E 2015, Building the capacity for forecasting marine biogeochemistry and ecosystems: recent advances and future developments, *Journal of Operational Oceanography*, vol. 11, no. 1, pp. 168-187, doi:10.1080/1755876X.2015.1022350

Godijn-Murphy, LM, Woolf, DK, Land, PE, Shutler, JD, Donlon, CJ 2015, The OceanFlux Greenhouse Gases methodology for deriving a sea surface climatology of CO₂ fugacity in support of air-sea gas flux studies, *Ocean Science*, vol. 11, pp. 519-514, doi:10.5194/os-11-519-2015

Liu, W 2015, Extended Reconstructed Sea Surface Temperature version 4 (ERSST.v4): Part II. Parametric and structural uncertainty estimations, *Journal of Climate*, vol. 28, no. 3, pp. 931-951, doi:10.1175/JCLI-D-14-00007.1

Huang, B, Banzon, V, Freeman, E, et, al. 2015, Extended Reconstructed Sea Surface Temperature version 4 (ERSST.v4): Part I. Upgrades and intercomparisons, *Journal of Climate*, vol. 28, no. 3, pp. 911-930, doi:https://doi.org/10.1175/JCLI-D-14-00006.1

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Global Oceans: Ocean Heat Content in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Proud, R, Cox, MJ, Wotherspoon, S, Brierly, A 2015, A method for identifying Sound Scattering Layers and extracting key characteristics. *Methods in Ecology and Evolution*, *Methods in Ecology and Evolution*, vol. 6, no. 10, pp. 1190-1198, doi:10.1111/2041-210X.12396

Metcalf, SJ, van Putten, I, Frusher, SD, et, al. 2015, Measuring the vulnerability of marine social-ecological systems: a prerequisite for the identification of climate change adaptations, *Ecology and Society*, vol. 20, no. 2, 35, doi:10.5751/ES-07509-200235

Feng, M, Benthuisen, J, Slawinski, D 2015, Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010-2011, *Geophysical Research Letters*, vol. 42, no. 20, pp. 8555-8562, doi:10.1002/2015GL065848

de Lestang, S, Caputi, N 2015, Climate variability affecting the contranant migration of *Panulirus cygnus*, the western rock lobster, *Marine Biology*, vol. 162, no. 9, 1900, doi:10.1007/s00227-015-2720-y

Ridgway, K, Goddard, JC 2015, The source of the Leeuwin Current seasonality, *Journal of Geophysical Research - Oceans*, vol. 120, no. 10, pp. 6843-6864, doi:10.1002/2015JC011049

Liu, Q, Feng, M, Wang, D, Wijffels, S 2015, Interannual variability of the Indonesian throughflow transport: a revisit based on 30-year expendable bathythermograph data, *Journal of Geophysical Research - Oceans*, vol. 120, no. 12, pp. 8270-8282, doi:10.1002/2015JCO11351

Bell, M, Schiller, A, LeTraon, P, Smith, NR, Dombrowsky, E, Wilmer-Becker, K 2015, An introduction to GODAE OceanView, *Journal of Operational Oceanography*, vol. 8, pp. 8-11, doi:10.1080/1755876X.2015.1022041

Divakaran, P, Brassington, GB, Ryan, A, Regnier, C, Spindler, T, Mehra, A, Hernandez, F, Smith, G, Liu, Y, Davidson, F 2015, GODAE OceanView inter-comparison for the Australian region, *Journal of Operational Oceanography*, vol. 8, pp. 112-126, doi:10.1080/1755876X.2015.1022333

He, Z, Feng, M, Wang, D, Slawinski, D 2015, Contribution of the Karimata Strait transport to the Indonesian throughflow as seen from a data assimilation model, *Continental Shelf Research*, vol. 92, pp. 16-22, doi:10.1016/j.csr.2014.10.007

Martin, MJ, Balmaseda, MA, Bertino, L, Brasseur, P, Brassington, GB, Cummings, J, Fujii, Y, Lea, D, Lellouche, JM, Mogensen, K, Oke, PR, et, al. 2015, Status and future of data assimilation in operational oceanography, *Journal of Operational*

Oceanography, vol. 8, pp. 28-48, doi:10.1080/1755876X.2015.1022055

Oke, PR, Larnicol, G, Fujii, Y, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 1, global studies, *Journal of Operational Oceanography*, vol. 8, pp. 49-62, doi:10.1080/1755876X.2015.1022067

Oke, PR, Larnicol, G, Jones, EM, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080

Kowalczyk, N, Reina, R, Preston, T, Chiaradia, A 2015, Selective foraging within estuarine plume fronts by an inshore resident seabird, *Frontiers in Marine Science*, vol. 2, no. 42, doi:10.3389/fmars.2015.00042

Sasse, T, Matear, R, Lenton, A 2015, Quantifying the influence of CO₂ seasonality on future aragonite undersaturation onset, *Biogeosciences*, vol. 12, pp. 6017-6031, doi:10.5194/bg-12-6017-2015

Henschke, N, Smith, JA, Everett, JD, Suthers, I 2015, Population drivers of a *Thalia democratica* swarm: insights from population modelling, *Journal of Plankton Research*, vol. 0, no. 0, pp. 1-14, doi:10.1093/plankt/fbv024

Fay, A, McKinley, G, Lovenduski, N 2015, Southern Ocean carbon trends: sensitivity to methods, *Geophysical Research Letters*, vol. 41, pp. 6833-6840, doi:10.1002/2014GL061324

Xue, L, Gao, L, Yu, W, Cai, W, Wei, M 2015, Response of sea surface fugacity of CO₂ to the SAM shift south of Tasmania: regional differences, *Geophysical Research Letters*, vol. 42, pp. 3973-3979, doi:10.1002/2015GL063926

Sitch, S, Friedlingstein, P, Gruber, N, Jones, SD, Murray-Tortarolo, G, Ahlstrom, A, Doney, S, Graven, H, Heinze, C, Huntingford, C, Levis, S, Levy, PE, Lomas, M, Poulter, B, Viovy, N, Zaehle, N, Zeng, N, Arneth, A, Bonan, G, Bopp, L, Canadell, JG, Chevallier, F, Ciais, P, Ellis, R, Gloor, M, Peylin, P, Piao, SL, Le Quere, C, Smith, B, Zhu, Z, Myneni, R 2015, Recent trends and drivers of regional sources and sinks of carbon dioxide, *Biogeosciences*, vol. 12, pp. 653-679, doi:10.5194/bg-12-653-2015

Salisbury, J, Vandemark, D, Jonsson, B, Balch, W, Chakraborty, S, Lohrenz, S, Chapron, B, Hales, B, Mannino, A, Mathis, JT, Reul, N, Signorini, SR, Wanninkhof, R, Yates, KK 2015, How can present and future satellite missions support scientific studies that address ocean acidification?, *Ocean Science*, vol. 28, no. 2, pp. 108-121, doi:10.5670/oceanog.2015.35

Le Quere, C, et, al. 2015, Global carbon budget 2014, *Earth System Science Data*, vol. 7, pp. 47-85, doi:10.5194/essd-7-47-2015

Pilcher, D, Brody, SR, Johnson, L, Bronselaer, B 2015, Assessing the abilities of CMIP5 models to represent the seasonal cycle of surface ocean pCO₂, *Journal of Geophysical Research - Oceans*, doi:10.1002/2015JC010759

Lauvset, SK, Gruber, N, Landschutzer, P, Olsen, A, Tjiputra, J 2015, Trends and drivers in global surface ocean pH over the past 3 decades, *Biogeosciences*, vol. 12, pp. 1285-1298, doi:10.5194/bg-12-1285-2015

Iida, Y, Kojima, A, Takatani, Y, Nakano, T, Sugimoto, H, Midorikawa, T, Ishii, M 2015, Trends in pCO₂ and sea-air CO₂ flux over the global open oceans for the last two decades, *Journal of Oceanography*, pp. 1-25, doi:10.1007/s10872-015-0306-4

Heinze, C, Meyer, S, Goris, N, Anderson, L, Steinfeldt, R, Chang, N, Le Quere, C, Bakker, DCE 2015, The ocean carbon sink - impacts, vulnerabilities and challenges, *Earth System Dynamics*, vol. 6, pp. 327-358, doi:10.5194/esd-6-327-2015

Abraham, JP, Cowley, R, Cheng, L 2016, Quantification of the effect of water temperature on the fall rate of expendable bathythermographs, *Journal of Atmospheric and Oceanic Technology*, vol. 33, pp. 1271-1284, doi:10.1175/JTECH-D-15-0216.1

Yang, C, Masina, S, Storto, A 2016, Historical ocean reanalyses (1900–2010) using different data assimilation strategies, *Quarterly Journal of the Royal Meteorological Society*, vol. 143, no. 702, pp. 479-493, doi:10.1002/qj.2936

Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016

Mongin, M, Baird, ME, Tilbrook, B, Matear, R, Lenton, A, Herzfeld, M, Wild-Allen, K, Skerratt, J, Margvelashvili, N, Robson, B, Duarte, CM, Gustafsson, M, Ralph, P, Steven, A 2016, The exposure of the Great Barrier Reef to ocean acidification, *Nature Communications*, vol. 7, doi:10.1038/ncomms10732

Roden, N, Tilbrook, B, Trull, T, Virtue, P, Williams, G 2016, Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica., *Journal of Geophysical Research - Oceans*, vol. 121, no. 12, pp. 8749-8769, doi:10.1002/2016JC012008

- Le Quere, C, Andrew, RM, Canadell, JG, et, al. 2016, Global Carbon Budget 2016, *Earth System Science Data*, vol. 8, no. 2, pp. 605-649, doi:<https://doi.org/10.5194/essd-8-605-2016>
- Behagle, N, Cotte, C, Ryan, T, Gauthier, O, et, al. 2016, Acoustic micronektonic distribution is structured by macroscale oceanographic processes across 20–50° S latitudes in the South-Western Indian Ocean, *Deep Sea Research Part I*, vol. 110, pp. 20-32, doi:[10.1016/j.dsr.2015.12.007](https://doi.org/10.1016/j.dsr.2015.12.007)
- Roach, C, Speer, K 2016, Horizontal mixing in the Southern Ocean from Argo float trajectories, *Journal of Geophysical Research - Oceans*, vol. 121, no. 8, pp. 5570-5586, doi:[10.1002/2015JC011440](https://doi.org/10.1002/2015JC011440)
- Freeman, E, Woodruff, SD, Worley, SJ, et, al. 2016, ICOADS Release 3.0: a major update to the historical marine climate record, *International Journal of Climatology*, vol. 37, pp. 2211-2237, doi:[10.1002/joc.4775](https://doi.org/10.1002/joc.4775)
- Smith, S, Lopez, N, Bourassa, M 2016, SAMOS air-sea fluxes: 2005-2014, *Geoscience Data Journal*, vol. 3, no. 1, 19, doi:[10.1002/gdj3.34](https://doi.org/10.1002/gdj3.34)
- Kloser, R, Ryan, T, Keith, G, Gershwin, L 2016, Deep-scattering layer, gas-bladder density, and size estimates using a two-frequency acoustic and optical probe, *ICES Journal of Marine Science*, doi:[20.500.11937/52210](https://doi.org/10.1093/icesjms/2016.11937/52210)
- McCaskill, C, Shay, LK, Brewster, JK 2016, Development and assessment of the Systematically Merged Pacific Ocean Regional Temperature and Salinity (SPORTS) climatology for ocean heat content estimations, *Journal of Atmospheric and Oceanic Technology*, vol. 33, no. 10, pp. 2259-2272, doi:[10.1175/JTECH-D-15-0168.1](https://doi.org/10.1175/JTECH-D-15-0168.1)
- Zhang, N, Feng, M, Du, Y, et, al. 2016, Seasonal and interannual variations of mixed layer salinity in the southeast tropical Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 121, pp. 4716-4731, doi:[10.1002/2016JC011854](https://doi.org/10.1002/2016JC011854)
- Raes, E, Bodrossy, L, Van De Kamp, J, Hardman-Mountford, NJ, et, al. 2016, Reduction of the powerful greenhouse gas N₂O in the south-eastern Indian Ocean, *PLoS One*, vol. 11, no. 1, e0145996, doi:[10.1371/journal.pone.0145996](https://doi.org/10.1371/journal.pone.0145996)
- Dongliang, Y 2016, Climate variability and predictability associated with the Indo-Pacific Oceanic Channel Dynamics in the CCSM4 Coupled System Model, *Chinese Journal of Oceanology and Limnology*, vol. 35, no. 1, pp. 23-38, doi:[10.1007/s00343-016-5178-y](https://doi.org/10.1007/s00343-016-5178-y)
- Bender, M, Tilbrook, B, Cassar, N, Jonsson, B, Poisson, A, Trull, T 2016, Ocean productivity south of Australia during spring and summer, *Deep Sea Research Part I*, vol. 112, pp. 68-78, doi:[10.1016/j.dsr.2016.02.018](https://doi.org/10.1016/j.dsr.2016.02.018)
- Bennett, M, Coman, F, Townsend, K, Couturier, L, Jaine, F, Richardson, A 2016, A historical and contemporary consideration of the diet of the reef manta ray (*Manta alfredi*) from the Great Barrier Reef, Australia, *Marine and Freshwater Research*, vol. 68, no. 5, pp. 993-997, doi:<http://dx.doi.org/10.1071/MF16046>
- Bakker, DCE, Pfeil, B, et, al. 2016, A multi-decade record of high-quality CO₂ data in version 3 of the Surface Ocean CO₂ Atlas (SOCAT) , *Earth System Science Data*, vol. 8, pp. 383-413, doi:[10.5194/essd-8-383-2016](https://doi.org/10.5194/essd-8-383-2016)
- Melvin, GD, Ryan, T, Keith, G, Gershwin, L 2016, The adaption of acoustic data from commercial fishing vessels in resource assessment and ecosystem monitoring, *Fisheries Research*, vol. 178, pp. 13-25, doi:[10.1016/j.fishres.2015.09.010](https://doi.org/10.1016/j.fishres.2015.09.010)
- Davies, C, Coughlan, A, Ajani, P, Armbrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et, al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:[10.1038/sdata.2016.43](https://doi.org/10.1038/sdata.2016.43)
- Cheng, L, Trenberth, KE, Palmer, MD, Abraham, JP 2016, Observed and simulated full-depth ocean heat-content changes for 1970-2005, *Ocean Science*, vol. 12, no. 4, pp. 925-935, doi:[10.5194/os-12-925-2016](https://doi.org/10.5194/os-12-925-2016)
- Rogers, AD 2016, Pelagic ecology of the South West Indian Ocean Ridge seamounts: Introduction and overview, *Deep Sea Research Part I*, vol. 136, pp. 1-4, doi:[10.1016/j.dsr2.2016.12.009](https://doi.org/10.1016/j.dsr2.2016.12.009)
- Cheng, L, Abraham, JP, Goni, GJ, Boyer, T, Wijffels, S, Cowley, R, Gouretski, V, et, al. 2016, XBT science: assessment of instrumental biases and errors, *Bulletin of the American Meteorological Society*, doi:[10.1175/BAMS-D-15-00031.1](https://doi.org/10.1175/BAMS-D-15-00031.1)
- Ciuffardi, T, Napolitano, E, Iacono, R, Reseghetti, F, Raiteri, G, Bordone, A 2016, Analysis of surface circulation structures along a frequently repeated XBT transect crossing the Ligurian and Tyrrhenian Seas, *Ocean Dynamics*, vol. 66, no. 6, pp. 767-783, doi: [10.1007/s10236-016-0954-y](https://doi.org/10.1007/s10236-016-0954-y)
- Lima, M, Cirano, M, Mata, M, Goes, M, Goni, GJ, Baringer, M 2016, An assessment of the Brazil Current baroclinic structure and variability near 22° S in distinct ocean forecasting and analysis systems, *Ocean Dynamics*, vol. 66, no. 6, pp. 893-916, doi:[10.1007/s10236-016-0959-6](https://doi.org/10.1007/s10236-016-0959-6)

- Brando, V, Lovell, J, King, E, Scott, R, Schroeder, T 2016, The potential of autonomous ship-borne hyperspectral radiometers for the validation of ocean color radiometry data, *Remote Sensing*, vol. 8, no. 150, doi:10.3390/rs8020150
- Ajani, P, Hallegraeff, GM, Coughlan, A, Richardson, A, Armand, L, Ingleton, T, Murray, S 2016, Establishing baselines: a review of eighty years of phytoplankton diversity and biomass in southeastern Australia, *Oceanography and Marine Biology - an annual review*, vol. 54, pp. 387-412
- Boyer, T, Domingues, CM, Good, S, Johnson, G, Lyman, J, et, al. 2016, Sensitivity of global upper-ocean heat content estimates to mapping methods, XBT bias corrections, and baseline climatologies, *Journal of Climate*, vol. 29, pp. 4817-4842, doi:10.1175/JCLI-D-15-0801.1
- Protat, A, Schulz, E, et, al. 2017, Shipborne observations of the radiative effect of Southern Ocean Clouds, *Journal of Geophysical Research - Oceans*, vol. 122, no. 1, pp. 318-328, doi:10.1002/2016JD026061
- Kaplan, MB, Jewett, L, Tilbrook, B 2017, International collaboration is vital for understanding and adapting to Ocean Acidification, *Georgetown Journal of International Affairs*
- Liu, Z 2017, China Argo project: progress in China Argo ocean observations and data applications, *Acta Oceanologica Sinica*, vol. 36, no. 6, pp. 1-11, doi:10.1007/s13131-017-1035-x
- Chu, P 2017, Exponential leap-forward gradient scheme for determining the isothermal layer depth from profile data, *Journal of Oceanography*, pp. 1-24, doi:10.1007/s10872-017-0418-0
- Cheng, L, et, al. 2017, Improved estimates of ocean heat content from 1960 to 2015, *Science Advances*, vol. 3, no. 3, e1601545, doi:10.1126/sciadv.1601545
- Storto, A, Masina, S 2017, Objectively estimating the temporal evolution of accuracy and skill in a global ocean reanalysis, *Meteorological Applications*, vol. 24, no. 1, pp. 101-113, doi:10.1002/met.1609
- Zhang, L, et, al. 2017, Estimating decadal predictability for the Southern Ocean using the GFDL CM2.1 model, *Journal of Climate*, doi:10.1175/JCLI-D-16-0840.1
- Hu, S 2017, Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification, *Geophysical Research Letters*, vol. 44, no. 3, pp. 1448-1456, doi:10.1002/2016GL072494
- Chen, X, et, al. 2017, Examination of Interannual Variability of Sea Surface Temperature in the Indian Ocean Using the Physical Decomposition Method, *Satellite Oceanography and Meteorology*, vol. 2, no. 1, doi:10.18063/SOM.2016.02.005
- Bowen, M, et, al. 2017, Interannual variability of sea surface temperatures in the Southwest Pacific and the role of ocean dynamics, *Journal of Climate*, doi:https://doi.org/10.1175/JCLI-D-16-0852.1
- Wang, G, Cheng, L, Abraham, JP, et, al. 2017, Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses, *Climate Dynamics*, pp. 1-17, doi:10.1007/s00382-017-3751-5
- Xue, Y, et, al. 2017, A real-time ocean reanalyses intercomparison project in the context of tropical pacific observing system and ENSO monitoring, *Climate Dynamics*, 10.1007/s00382-017-3535-y, doi:10.1007/s00382-017-3535-y
- Benallal, MA, Moussa, H, Lencina-Avila, JM, et, al. 2017, Satellite-derived CO2 flux in the surface seawater of the Austral Ocean south of Australia, *International Journal of Remote Sensing*, vol. 36, no. 6, pp. 1600-1625, doi:10.1080/01431161.2017.1286054
- Yu, L, Schulz, E, Josey, SA 2017, Air-Sea Interaction Regimes in the sub-Antarctic Southern Ocean and Antarctic Marginal Ice Zone Revealed by Icebreaker Measurements, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012281
- Roberts, CD, et, al. 2017, Surface flux and ocean heat transport convergence contributions to seasonal and interannual variations of ocean heat content, *Journal of Geophysical Research - Oceans*, vol. 122, no. 1, pp. 726-744, doi:10.1002/2016JC012278
- Proud, R, Cox, MJ, Brierly, A 2017, Biogeography of the global ocean's mesopelagic zone, *Current Biology*, vol. 27, no. 1, pp. 113-119, doi:10.1016/j.cub.2016.11.003
- Everett, JD, Baird, ME, Buchanan, PJ, et, al. 2017, Modelling what we sample and sampling what we model: challenges for zooplankton model assessment, *Frontiers in Marine Science*, vol. 4, no. 77, doi:10.3389/fmars.2017.00077

Deep water moorings

- Boyd, PW, Trull, T 2006, Understanding the export of biogenic particles in oceanic waters: is there consensus?, *Progress in Oceanography*, vol. 72, no. 4, pp. 276-312, doi:10.1016/j.pocean.2006.1010.1007.
- Cubillos, JC, Wright, SW, Nash, G, Salas, MF, Griffiths, B, Tilbrook, B, Poisson, A, Hallegraeff, GM 2007, Calcification morphotypes of the coccolithophorid *Emiliana huxleyi* in the Southern Ocean: changes in 2001 to 2006 compared to historical data, *Marine Ecology Progress Series*, vol. 348, pp. 47-54, doi:10.3354/meps07058
- Moy, AD, Howard, WR, Bray, SG, Trull, T 2009, Reduced calcification in modern Southern Ocean planktonic foraminifera, *Nature Geoscience*, vol. 2, no. 4, pp. 276-280, doi:10.1038/NGEO46
- Bowie, AR, Lannuzel, D, Remenyi, TA, Wagner, T, Lam, PJ, Boyd, PW, Guieu, C, Townsend, AT, Trull, T 2009, Biogeochemical iron budgets of the Southern Ocean south of Australia: decoupling of iron and nutrient cycles in the subantarctic zone by the summertime supply, *Global Biogeochemical Cycles*, vol. 23, no. GB4034, doi:10.1029/2009GB003500
- DiFiore, PJ, Sigman, DM, Karsh, K, Trull, T, Dunbar, R, Robinson, R 2010, Poleward decrease in the isotope effect of nitrate assimilation across the Southern Ocean, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044090
- Jacquet, SM, Lam, PJ, Trull, T, Dehairs, F 2011, Carbon export production in the Polar Front Zone and Subantarctic Zone south of Tasmania, *Deep Sea Research Part II*, vol. 58, no. 21, pp. 2277-2292, doi:10.1016/j.dsr2.2011.05.035
- Ebersbach, F, Trull, T, Davies, DM, Bray, SG 2011, Controls on mesopelagic particle fluxes in the sub-Antarctic and polar frontal zones in the Southern Ocean south of Australia in summer – Perspectives from free-drifting sediment traps, *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2260-2276, doi:10.1016/j.dsr2.2011.05.025,
- Bowie, AR, Griffiths, B, Dehairs, F, Trull, T 2011, Oceanography of the subantarctic and polar frontal zones south of Australia during summer: setting for the SAZ-Sense study, *Deep Sea Research Part II*, vol. 58, no. 21, pp. 2059-2070, doi:10.1016/j.dsr2.2011.05.033
- Schulz, E, Grosenbaugh, MA, Pender, L, Greenslade, DJM, Trull, T 2011, Mooring design using wave-state estimate from the Southern Ocean, *Journal of Atmospheric and Oceanic Technology*, vol. 28, no. 10, pp. 1351-1360, doi:10.1174/jtech-d-10-05033.1
- Howard, WR, Roberts, D, Moy, AD, Lindsay, MCM, Hopcroft, RR, Trull, T, Bray, SG 2011, Distribution, abundance and seasonal flux of pteropods in the Sub-Antarctic Zone, *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2293-2300, doi:10.1016/j.dsr2.2011.05.031
- Roberts, D, Howard, WR, Moy, AD, Roberts, J, Trull, T, Bray, SG, Hopcroft, RR 2011, Interannual pteropod variability in sediment traps deployed above and below the aragonite saturation horizon in the Sub-Antarctic Southern Ocean, *Polar Biology*, vol. 34, no. 11, pp. 1739-1750, doi:10.1007/s00300-011-1024-z
- Earp, A, Hanson, CE, Ralph, P, Brando, V, Allen, S, Baird, ME, Clementson, L, Daniel, P, Dekker, AG, Fearn, PRCS, Parslow, J, Strutton, P, Thompson, P, Underwood, M, Weeks, S, Doblin, MA 2011, Review of fluorescent standards for calibration of in situ fluorometers: recommendations applied in coastal and ocean observing programs, *Optics Express*, vol. 19, no. 27, pp. 26768-26782, doi:10.1364/OE.19.026768
- Tamura, T, Williams, G, Fraser, AD, Ohshima, KI 2012, Potential regime shift in decreased sea ice production after the Mertz Glacier calving, *Nature Communications*, vol. 3, doi:10.1038/ncomms1820
- Brown, MV, Lauro, FM, DeMaere, MZ, Wilkins, D, Thomas, T, Riddle, MJ, Fuhrman, JA, Andrews-Pfannkoch, C, Hoffman, JM, McQuaid, JB, Allen, A, Rintoul, S, Cavicchioli, R 2012, Global biogeography of SAR11 marine bacteria, *Molecular Systems Biology*, vol. 8, doi:10.1038/msb.2012.28
- Shimada, K, Aoki, S, Ohshima, KI, Rintoul, S 2012, Influence of the Ross Sea Bottom Water changes on the warming and freshening of the Antarctic bottom water in the Australian-Antarctic Basin, *Ocean Science*, vol. 8, pp. 419-432
- Schulz, E, Josey, SA, Verein, R 2012, First air-sea flux mooring measurements in the Southern Ocean, *Geophysical Research Letters*, vol. 39, doi:10.1029/2012GL052290
- van Sebille, E, Spence, P, Mazloff, MR, England, MH, Rintoul, S, Saenko, OA 2013, Abyssal connections of Antarctic bottom water in a Southern Ocean state estimate, *Geophysical Research Letters*, vol. 40, no. 10, pp. 2177-2182, doi:10.1002/grl.50483

Weeding, B, Trull, T 2014, Hourly oxygen and total gas tension measurements at the Southern Ocean Time Series site reveal winter ventilation and spring net community production, *Journal of Geophysical Research - Oceans*, vol. 119, no. 1, pp. 348-358, doi:10.1002/2013JC009302

Roberts, D, Howard, WR, Moy, AD, Roberts, J, Trull, T, Bray, SG, Hopcroft, RR 2014, Diverse trends in shell weight of three Southern Ocean pteropod taxa collected with Polar Frontal Zone sediment traps from 1997 to 2007, *Polar Biology*, vol. 37, no. 10, pp. 1445-1458, doi:10.1007/s00300-014-1534-6

Ganachaud, AS, Cravette, S, Melet, A, Schiller, A, Holbrook, N, Sloyan, B, et. al. 2014, The southwest Pacific Ocean circulation and climate experiment (SPICE), *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 7660-7686, doi:10.1002/2013JC009678

Rigual-Hernandez, A, Trull, T, Bray, SG, Closset, I, Armand, L 2015, Seasonal dynamics in diatom and particulate export fluxes to the deep sea in the Australian sector of the southern Antarctic zone, *Journal of Marine Systems*, vol. 142, pp. 62-74, doi:10.1016/j.marsys.2014.10.002

Muller, MN, Trull, T, Hallegraeff, GM 2015, Differing responses of three Southern Ocean *Emiliania huxleyi* ecotypes to changing seawater carbonate chemistry, *Marine Ecology Progress Series*, vol. 531, pp. 81-90, doi:10.3354/meps11309

Closset, I, Cardinal, D, Bray, SG, Thil, F, Rigual-Hernandez, A, Trull, T 2015, Seasonal variations, origin, and fate of settling diatoms in the Southern Ocean tracked by silicon isotope records in deep sediment traps, *Global Biogeochemical Cycles*, vol. 29, no. 9, pp. 1495-1510, doi:10.1002/2015GB005180

Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L 2015, Latitudinal and temporal distributions of diatom populations in the pelagic waters of the subantarctic and polar frontal zones of the Southern Ocean and their role in the biological pump, *Biogeosciences*, vol. 12, pp. 5309-5337, doi:10.5194/bg-12-8615-2015

Rapizo, H, Babanin, A, Schulz, E, Hemer, MA, Durrant, TH 2015, Observation of wind-waves from a floating buoy in the Southern Ocean, *Ocean Dynamics*, vol. 75, no. 9, pp. 1275-1288, doi:10.1007/s10236-015-0873-3

Grenier, M, Della Penna, A, Trull, T 2015, Autonomous profiling float observations of the high-biomass plume downstream of the Kerguelen Plateau in the Southern Ocean, *Biogeosciences*, vol. 12, no. 9, pp. 2707-2735, doi:10.5194/bg-12-2707-2015

Shadwick, E, Trull, T, Tilbrook, B, Sutton, A, Schulz, E, Sabine, CL 2015, Seasonality of biological and physical controls on surface ocean CO₂ from hourly observations at the Southern Ocean Time Series site south of Australia, *Global Biogeochemical Cycles*, vol. 29, no. 2, pp. 223-238, doi:10.1002/2014GB004906

Cassar, N, Wright, SW, Thompson, P, Trull, T, Westwood, KJ, De Salas, M, Davidson, A, Pearce, I, Davies, DM, Matear, R, Tilbrook, B 2015, The relation of mixed-layer carbon export production to plankton community, *Global Biogeochemical Cycles*, vol. 29, no. 4, pp. 446-462, doi:10.1002/2014GB004936

Sloyan, B, Ridgway, K, Cowley, R 2016, The East Australian Current and property transport at 27°S from 2012-2013, *Journal of Physical Oceanography*, vol. 46, no. 3, pp. 993-1008, doi:10.1175/JPO-D-15-0052.1

Davies, C, Coughlan, A, Ajani, P, Armbrrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et. al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.43

Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016

Jordan, RW, Abe, K, Cruz, J, Eriksen, R, Guerreiro, C, Hagino, K, Heldal, M, Hernandez-Becerril, DU, Malinverno, E, Nishida, S, Patil, SM, Supraha, L, Thomsen, HA, Triantaphyllou, MV, Young, JR 2016, Observations on the morphological diversity and distribution of two siliceous nanoplankton genera, *Hyalolithus* and *Petasaria*, *Micropaleontology*, vol. 61, no. 6, pp. 439-455

Rigual-Hernandez, A, Trull, T, McCartney, K, Ballegeer, A, Lawler, K, Bray, SG, Armand, L 2016, Indices based on silicoflagellate assemblages offer potential for paleo-reconstructions of the main oceanographic zones of the Southern Ocean, *Geo-Marine Letters (International Journal of Marine Geology)*, pp. 1-10, doi:10.1007/s00367-016-0444-8

Teniswood, CMH, Roberts, D, Howard, WR, Bray, SG, Bradby, JE 2016, Microstructural shell strength of the Subantarctic

pteropod *Limacina helicina antarctica*, *Polar Biology*, vol. 39, no. 9, pp. 1643-1652, doi:10.1007/s00300-016-1888-z

Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L 2016, The fate of diatom valves in the Subantarctic and Polar Frontal Zones of the Southern Ocean: Sediment trap versus surface sediment assemblages, *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 457, pp. 129-143, doi:10.1016/j.palaeo.2016.06.004

Wilks, JV, Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L, Flores, J-A 2017, Biogeochemical flux and phytoplankton succession: A year-long sediment trap record in the Australian sector of the Subantarctic Zone, *Deep Sea Research Part I*, vol. 121, pp. 143-159, doi:10.1016/j.dsr.2017.01.001

Journal Count

36

Ocean gliders

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, MA 2011, The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia, *Deep Sea Research Part II*, vol. 58, pp. 592-605, doi:10.1016/j.dsr2.2010.10.002

Earp, A, Hanson, CE, Ralph, P, Brando, V, Allen, S, Baird, ME, Clementson, L, Daniel, P, Dekker, AG, Fearn, PRCS, Parslow, J, Strutton, P, Thompson, P, Underwood, M, Weeks, S, Doblin, MA 2011, Review of fluorescent standards for calibration of in situ fluorometers: recommendations applied in coastal and ocean observing programs, *Optics Express*, vol. 19, no. 27, pp. 26768-26782, doi:10.1364/OE.19.026768

Pattiaratchi, C, Hollings, B, Woo, M, Welhena, T 2011, Dense shelf water formation along the south-west Australian inner shelf, *Geophysical Research Letters*, vol. 38, doi:10.1029/2011GL046816

Baird, ME, Ridgway, K 2012, The southward transport of sub-mesoscale lenses of Bass Strait Water in the centre of anti-cyclonic mesoscale eddies, *Geophysical Research Letters*, vol. 39, doi:10.1029/2011GL050643

Jones, EM, Oke, PR, Rizwi, F, Murray, LM 2012, Assimilation of glider and mooring data into a coastal ocean model, *Ocean Modelling*, vol. 47, pp. 1-13, doi:10.1016/j.ocemod.2011.12.009

Penton, J, Pattiaratchi, C 2013, The effects of wind forcing on surface currents on the continental shelf surrounding Rottneest Island, *International Journal of Environmental, Earth Science and Engineering*, vol. 7, no. 1, pp. 13-18

Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1

Schaeffer, A, Roughan, M, Wood, JE 2014, Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 4922-4939, doi:10.1002/2013JCO09735

Boettger, D, Robertson, R, Rainville, L 2015, Characterizing the semi diurnal internal tide off Tasmania using glider data, *Journal of Geophysical Research - Oceans*, doi:10.1002/2015JC010711

Schaeffer, A, Roughan, M 2015, Influence of a western boundary current on shelf dynamics and upwelling from repeat glider deployments, *Geophysical Research Letters*, vol. 42, no. 1, pp. 121-128, doi:10.1002/2014GL062260

Everett, JD, MacDonald, HS, Baird, ME, Humphries, J, Roughan, M, Suthers, I 2015, Cyclonic entrainment of preconditioned shelf waters into a frontal eddy, *Journal of Geophysical Research - Oceans*, vol. 120, pp. 677-691, doi:10.1002/2014JC010301

Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016

Mahjabin, T, Pattiaratchi, C, Hetzel, Y 2016, Factors influencing the occurrence of dense shelf water cascades in Australia, *Journal of Coastal Research*, vol. 75, pp. 527-531, doi:10.2112/SI75-106.1

Hanson, CE, Woo, M, Thomson, P, Pattiaratchi, C 2016, Observing the ocean with gliders: techniques for data visualization and analysis, *Oceanography*, vol. 30, no. 2, pp. 72-73, doi:https://doi.org/10.5670/oceanog.2017.210

Jones, EM, Baird, ME, Mongin, M, et. al. 2016, Use of remote-sensing reflectance to constrain a data assimilating marine

biogeochemical model of the Great Barrier Reef, *Biogeosciences*, vol. 13, pp. 6441-6469, doi:10.5194/bg-13-6441-2016

Schaeffer, A, Roughan, M, Jones, EM, White, D 2016, Physical and biogeochemical spatial scales of variability in the East Australian Current separation from shelf glider measurements, *Biogeosciences*, vol. 13, pp. 1967-1975, doi:10.5194/bg-13-1967-2016

Schaeffer, A, Roughan, M, Austin, T, Everett, JD, et. al. 2016, Mean hydrography on the continental shelf from 26 repeat glider deployments along southeastern Australia, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.70

Bosserel, C, Abdo, DA, Evans, SN, Markey, KL 2016, Keeping it local: dispersal limitations of coral larvae to the high latitude coral reefs of the Houtman Abrolhos islands, *PLoS One*, vol. 11, no. 1, e0147628, doi:10.1371/journal.pone.0147628

Journal Count

18

Autonomous underwater vehicle

Mahon, I, Williams, S, Pizarro, O, Johnson-Robertson, M 2008, Efficient view-based SLAM using visual loop closures, *IEEE Transactions on Robotics*, vol. 24, no. 5, pp. 1002-1014, doi:10.1109/TRO.2008.2004888

Webster, J, Beaman, R, Bridge, T, Davies, P, Bryne, M, Williams, S, Manning, P, Pizarro, O, Thornborough, K, Woolsey, E 2008, From corals to canyons: exploring the Great Barrier Reef margin, *EOS Transactions*, vol. 89, no. 24, pp. 217-218, doi:10.1029/2008EO240002

Steinberg, D, Bender, A, Friedman, A, Jakuba, M, Pizarro, O, Williams, S 2010, Toward selection of a propulsion method for a long range benthic imaging AUV, *Marine Technology Society Journal*, vol. 44, no. 2, pp. 46-55, doi:10.4031/MTSJ.44.2.3

Rigby, P, Williams, S, Pizarro, O 2010, Towards adaptive benthic habitat mapping using Gaussian Process Classification, *Journal of Field Robotics*, vol. 27, no. 6, pp. 741-758, doi:10.1002/rob.20372

Williams, S, Pizarro, O, Webster, J, Beaman, R, Mahon, I, Johnson-Robertson, M, Bridge, T 2010, AUV-assisted surveying of drowned reefs on the shelf edge of the Great Barrier Reef, Australia, *Journal of Field Robotics*, vol. 27, no. 5, pp. 675-697, doi:10.1002/106.20356

Steinberg, D, Bender, A, Friedman, A, Jakuba, M, Pizarro, O, Williams, S 2010, Analysis of propulsion methods for long range AUVs, *Marine Technology Society Journal*, vol. 44, no. 2, pp. 46-55, doi:10.4031/MTSJ.44.2.3

Johnson-Robertson, M, Pizarro, O, Williams, S, Mahon, I 2010, Generation and visualization of large scale three-dimensional reconstructions from underwater robotic surveys, *Journal of Field Robotics*, vol. 27, no. 1, pp. 21-51, doi:10.1002/rob.20324

Stachniss, C, Williams, S, Neira, J 2010, Editorial: visual navigation and mapping outdoors, *Journal of Field Robotics*, vol. 27, no. 5, pp. 509-510, doi:10.1002/1.06.20358

Bridge, T, Done, T, Beaman, R, Friedman, A, Williams, S, Pizarro, O, Webster, J 2010, Topography, substratum and benthic macrofaunal relationships on a tropical mesophotic shelf margin, *Great Barrier Reef, Australia, Coral Reefs*, vol. 30, no. 1, pp. 143-153, doi:10.1007/s00338-010-0677-3

Bridge, T, Done, T, Friedman, A, Beaman, R, Williams, S, Pizarro, O, Webster, J 2011, Variability in mesophotic coral reef communities along the Great Barrier Reef, Australia, *Marine Ecology Progress Series*, vol. 428, pp. 63-75, doi:10.3354/meps09046

Roman, CN, Inglis, G, Vaughn, I, Williams, S, Pizarro, O, Friedman, A, Steinberg, D 2011, Development of high-resolution underwater mapping techniques, *Oceanography*, vol. 24, no. 1, pp. 14-17

Earp, A, Hanson, CE, Ralph, P, Brando, V, Allen, S, Baird, ME, Clementson, L, Daniel, P, Dekker, AG, Fearn, PRCS, Parslow, J, Strutton, P, Thompson, P, Underwood, M, Weeks, S, Doblin, MA 2011, Review of fluorescent standards for calibration of in situ fluorometers: recommendations applied in coastal and ocean observing programs, *Optics Express*, vol. 19, no. 27, pp. 26768-26782, doi:10.1364/OE.19.026768

Barkby, S, Williams, S, Pizarro, O, Jakuba, M 2011, A featureless approach to efficient bathymetric SLAM using distributed particle mapping, *Journal of Field Robotics*, vol. 28, no. 1, pp. 19-39, doi:10.1002/06.20372

Bridge, T, Steinberg, D, Scott, A 2012, Abundance and diversity of anemonefishes and their host sea anemones at two mesophotic sites on the Great Barrier Reef, Australia, *Coral Reefs*, vol. 31, no. 4, pp. 1057-1062, doi:10.1007/s00338-012-

Bridge, T, Beaman, R, Done, T, Webster, J 2012, Predicting the location and spatial extent of submerged coral reef habitat in the Great Barrier Reef world heritage area, Australia, *PLoS One*, vol. 7, no. 10, doi:10.1371/journal.pone.0048203

Friedman, A, Pizarro, O, Williams, S, Johnson-Robertson, M 2012, Multi-scale measures of rugosity, slope and aspect from benthic stereo image reconstructions, *PLoS One*, vol. 7, no. 12, doi:10.1371/journal.pone.0050440

Seiler, J, Williams, A, Barrett, N 2012, Assessing size, abundance and habitat preferences of the Ocean Perch *Helicolenus percoides* using a AUV-borne stereo camera system, *Fisheries Research*, vol. 129, pp. 64-72, doi:10.1016/j.fishres.2012.06.011

Williams, S, Pizarro, O, Jakuba, M, Johnson, C, Barrett, N, Babcock, R, Kendrick, G, Steinberg, C, Heyward, A, Doherty, P, Mahon, I, Johnson-Robertson, M, Steinberg, D, Friedman, A 2012, Monitoring of benthic reference sites: using an Autonomous Underwater Vehicle, *IEEE Robotics & Automation Magazine*, vol. 19, no. 1, pp. 73-84, doi:10.1109/MRA.2011.2181772

Seiler, J, Friedman, A, Steinberg, C, Barrett, N, Williams, A, Holbrook, N 2012, Image-based continental shelf habitat mapping using novel automated data extraction techniques, *Continental Shelf Research*, vol. 45, pp. 87-97, doi:10.1016/j.csr.2012.06.003

Barkby, S, Williams, G, Pizarro, O, Jakuba, M 2012, Bathymetric particle filter SLAM using trajectory maps, *International Journal of Robotics Research*, vol. 31, no. 11, doi:10.1177/0278364912459666

Smale, DA, Kendrick, G, Harvey, ES, Langlois, TJ, Hovey, RK, Van Niel, KP, Waddington, KI, Bellchambers, LM, Babcock, R, Vanderklift, MA, Thomson, D, Jakuba, M, Pizarro, O, Williams, S, Pember, MB 2012, Regional-scale benthic monitoring for Ecosystem-Based Fisheries Management (EBFM) using an Autonomous Underwater Vehicle (AUV), *ICES Journal of Marine Science*, vol. 69, no. 6, pp. 1108-1118, doi:doi:10.1093/icesjms/fs082

Smale, DA, Wernberg, T 2012, Ecological observations associated with an anomalous warming event at the Houtman Abrolhos Islands, Western Australia, *Coral Reefs*, vol. 31, no. 2, pp. 441-441, doi:10.1007/s00338-012-0873-4

Lucieer, V, Hill, N, Barrett, N, Nichol, SL 2013, Do marine substrates 'look' and 'sound' the same? Supervised classification of multibeam acoustic data using autonomous underwater vehicle images, *Estuarine, Coastal and Shelf Science*, vol. 117, pp. 94-106, doi:10.1016/j.ecss.2012.11.001

Douillard, B, Nourani-Vatani, N, Johnson-Robertson, M, Pizarro, O, Williams, S, Roman, CN, Vaughn, I 2013, Frequency-based underwater terrain segmentation, *Autonomous Robots*, vol. 35, no. 4, pp. 255-269, doi:10.1007/S10514-013-9353-0

Bridge, T, Ferrari, R, Bryson, M, Hovey, RK, Figueria, W, Williams, S, Pizarro, O, Harborne, AR, Byrne, M 2014, Variable responses of benthic communities to anomalously warm sea temperatures on a high-latitude coral reef, *PLoS One*, vol. 9, no. 11, e113079, doi:10.1371/journal.pone.0113079

Foster, SD, Hosack, GR, Hill, N, Barrett, N, Lucieer, V 2014, Choosing between strategies for designing surveys: autonomous underwater vehicles, *Methods in Ecology and Evolution*, vol. 5, pp. 287-297, doi:10.1111/2041-210X.12156

Ayroza, C, Hustache, J, Fagundes, L, Sumi, M, Ferrari, R 2014, Finding the right tool for benthic image analysis, *Reef Encounter*, vol. 30, no. 1

Hill, N, Lucieer, V, Barrett, N, Anderson, T, Williams, S 2014, Filling the gaps: predicting the distribution of temperate reef biota using high resolution biological and acoustic data, *Estuarine, Coastal and Shelf Science*, vol. 147, pp. 137-147, doi:10.1016/j.ecss.2014.05.019

Perkins, N, Hill, N, Foster, SD, Barrett, N 2014, Altered niche of an ecologically significant urchin species, *Centrostephanus rodgersii*, in its extended range revealed using an Autonomous Underwater Vehicle, *Estuarine, Coastal and Shelf Science*, vol. 155, pp. 56-65, doi:10.1016/j.ecss.2015.01.014

Lawrence, E, Hayes, K, Lucieer, V, Nichol, SL, et. al. 2015, Mapping habitats and developing baselines in offshore marine reserves with little prior knowledge: a critical evaluation of a new approach, *PLoS One*, vol. 10, no. 10, e0141051, doi:10.1371/journal.pone.0141051

Marzinelli, EM, Williams, S, Babcock, R, Barrett, N, Johnson, C, Jordan, A, Kendrick, G, Pizarro, O, Smale, DA, Steinberg, P 2015, Large-scale geographic variation in distribution and abundance of Australian deep-water kelp forests, *PLoS One*, vol. 10, no. 2, doi:10.1371/journal.pone.0118390

Bryson, M, Johnson-Robertson, M, Pizarro, O, Williams, S 2015, True color correction of autonomous underwater vehicle imagery, *Journal of Field Robotics*, doi:10.1002/rob.21638

Althaus, F, Hill, N, Ferrari, R, et. al. 2015, A standardised vocabulary for identifying benthic biota and substrata from underwater imagery: the CATAMI classification scheme, *PLoS One*, vol. 10, no. 10, e0141039, doi:10.1371/journal.pone.0141039

Bewley, M, Friedman, A, Ferrari, R, Hill, N, Hovey, RK, Barrett, N, Pizarro, O, Figueria, W, Meyer, A, Babcock, R, Bellchambers, LM, Byrne, M, Williams, S 2015, Australian sea-floor survey data, with images and expert annotations, *Scientific Data*, vol. 2, 150057, doi:10.1038/sdata.2015.57

Steinberg, D, Pizarro, O, Williams, S 2015, Hierarchical Bayesian models for unsupervised scene understanding, *Computer Vision and Image Understanding*, vol. 131, pp. 128-144, doi:10.1016/j.cviu.2014.06.04

Roberts, TE, Moloney, J, Sweatman, H, Bridge, T 2015, Benthic community composition on submerged reefs in the central Great Barrier Reef, *Coral Reefs*, vol. 34, no. 2, pp. 569-580, doi:10.1007/s00338-015-1261-7

Monk, J, Barrett, N, Hill, N, Lucieer, V, Nichol, SL, Siwabessy, PJW, Williams, S 2016, Outcropping reef ledges drive patterns of epibenthic assemblage diversity on cross-shelf habitats, *Biodiversity and Conservation*, vol. 25, no. 3, pp. 485-502, doi:10.1007/s10531-016-1058-1

Perkins, N, Foster, SD, Hill, N, Barrett, N 2016, Image subsampling and point scoring approaches for large-scale marine benthic monitoring programs, *Estuarine, Coastal and Shelf Science*, vol. 176, pp. 36-46, doi:10.1016/j.ecss.2016.04.005

Ferrari, R, Bryson, M, Bridge, T, Hustache, J, Williams, S, Byrne, M, Figueria, W 2016, Quantifying the response of structural complexity and community composition to environmental change in marine communities, *Global Change Biology*, vol. 22, no. 5, pp. 1965-1975, doi:10.1111/gcb.13197

Williams, S, Pizarro, O, Naganobu, M, Friedman, A, Bryson, M 2016, Reflections on a decade of autonomous underwater vehicles operations for marine survey at the Australian Centre for Field Robotics, *Annual Reviews in Control*, vol. 42, pp. 158-165, doi:10.1016/j.arcontrol.2016.09.010

Ling, S, Mahon, I, Marzloff, M, Pizarro, O, Johnson, C, Williams, S 2016, Stereo-imaging AUV detects trends in sea urchin abundance on deep overgrazed reefs, *Limnology and Oceanography: Methods*, vol. 14, no. 5, pp. 293-304, doi:10.1002/lom3.10089

Rao, D, De Deuge, M, Nourani-Vatani, N, Williams, S, Pizarro, O 2016, Multimodal learning and inference from visual and remotely sensed data, *International Journal of Robotics Research*, vol. 36, no. 1, pp. 24-43, doi:10.1177/0278364916679892

Turner, J, Babcock, R, Hovey, RK, Kendrick, G 2017, Deep thinking: a systematic review of mesophotic coral ecosystems, *ICES Journal of Marine Science*, doi:https://doi.org/10.1093/icesjms/fsx085

James, L, Marzloff, M, Barrett, N, Friedman, A, Johnson, C 2017, Changes in deep reef benthic community composition across a latitudinal and environmental gradient in temperate Eastern Australia, *Marine Ecology Progress Series*, vol. 565, pp. 35-52, doi:10.3354/meps11989

Perkins, N, Foster, SD, Hill, N, Marzloff, M, Barrett, N 2017, Temporal and spatial variability in the cover of deep reef species: Implications for monitoring, *Ecological Indicators*, vol. 77, pp. 337-347, doi:10.1016/j.ecolind.2017.02.030

Bongiorno, D, Bryson, M, Bridge, T, Dansereau, D, Williams, S 2017, Coregistered Hyperspectral and Stereo Image Seafloor Mapping from an Autonomous Underwater Vehicle, *Journal of Field Robotics*, pp. 1-18, doi:10.1002/rob.21713

Journal Count

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National mooring network

Middleton, J, Bye, JAT 2007, A review of the shelf-slope circulation along Australia's southern shelves: Cape Leeuwin to Portland, *Progress in Oceanography*, vol. 75, no. 1, pp. 1-41, doi:10.1016/j.pocean.2007.07.001

Brinkman, R, Steinberg, C, Bird, J 2008, Physical oceanography and the corals of Scott Reef - patterns of disturbance and dynamics of recovery, *EOS Transactions*, vol. 89, no. 23

Steinberg, C, McLean, CM, McAllister, F, Choukroun, S, Brinkman, GW 2008, The development of a Great Barrier Reef ocean observing system to monitor the Western Boundary Currents of the Coral Sea and impacts on the Great Barrier Reef, *EOS*

Steinberg, C, Andrefouet, S, Brinkman, R, Choukroun, S, Heron, SF, Herzfeld, M, Skirving, WJ, Weeks, S 2008, The physical oceanography of Heron Island, Great Barrier Reef, EOS Transactions, vol. 89, no. 23, Abstract OS52A-04

Ling, S, Johnson, C, Frusher, SD, Ridgway, K 2009, Overfishing reduces resilience of kelp beds to climate-driven catastrophic phase shift, Proceedings of the National Academy of Sciences of the United States of America, vol. 106, no. 52, pp. 22341-22345, doi:10.1073/pnas.0907529106

Steinberg, C, McAllister, F, McLean, CM, Brinkman, GW, Pitcher, C, Luetchrford, J, Rigby, P 2009, The Great Barrier Reef Ocean Observing System mooring array: monitoring the western boundary currents of the Coral Sea and impacts on the Great Barrier Reef, EOS Transactions, vol. 90, no. 22, OS32A-06

Feng, M, Waite, A, Thompson, P 2009, Climate variability and ocean production in the Leeuwin Current system off the west coast of Western Australia, Journal of the Royal Society of Western Australia, vol. 92, pp. 67-81

Thompson, P, Baird, ME, Ingleton, T, Doblin, MA 2009, Long-term changes in temperate Australian coastal waters: implications for phytoplankton, Marine Ecology Progress Series, vol. 394, pp. 1-19, doi:10.3354/meps08297

Heron, SF, Steinberg, C, Heron, M, Mantovanelli, A, Jaffres, JBD, Skirving, WJ, McAllister, F, Bainbridge, S 2010, Advancing ocean monitoring near coral reefs, EOS American Geophysical Union, vol. 91, no. 41, doi:doi:10.1029/2010EO410001

Petrusevics, P, Bye, JAT, Luick, J, Teixeira, CEP 2010, Summer sea surface temperature fronts and elevated chlorophyll-a in the entrance to Spencer Gulf, South Australia, Continental Shelf Research, vol. 31, no. 7-8, pp. 849-856, doi:10.1016/j.csr.2011.02.009

Weeks, S, Bakun, A, Steinberg, C, Brinkman, R, Hoegh-Guldberg, O 2010, The Capricorn Eddy: a prominent driver of the ecology and future of the southern Great Barrier Reef, Coral Reefs, vol. 29, no. 4, pp. 975-985, doi:10.1007/s00338-010-644-z

Roughan, M, Morris, BD, Suthers, I 2010, NSW-IMOS: An Integrated Marine Observing System for southeastern Australia, IOP Conference Series: Earth and Environmental Science, vol. 11, no. 1, doi:10.1088/1755-1315/11/1/012030

Katsumata, K, Wijffels, S, Steinberg, C, Brinkman, R 2010, Variability of the semidiurnal tides observed on the Timor Shelf, Journal of Geophysical Research - Oceans, vol. 115, doi:10.1029/2009JC006071

Bainbridge, S, Steinberg, C, Heron, M 2010, Integrating observations: an example from the Great Barrier Reef, lessons from the reef on why integration matters and why achieving integration is harder than it looks, Sea Technology, vol. 51, no. 8, pp. 33-38

Berkelmans, R, Weeks, S, Steinberg, C 2010, Upwelling linked to warm summers and bleaching on the Great Barrier Reef, Limnology and Oceanography, vol. 55, no. 6, pp. 2634-2644, doi:10.4319/10.2010.55.6.2634.

van Dongen-Vogels, V, Seymour, JR, Middleton, J, Mitchell, J, Seuront, L 2011, Influence of local physical events on picophytoplankton spatial and temporal dynamics in South Australian continental shelf waters, Journal of Plankton Research, vol. 33, no. 12, pp. 1825-1841, doi:10.1093/plamkt/fbr077

Hughes, D, Lynch, T 2011, Technical development of the Australian national reference stations, Sea Technology

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, MA 2011, The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia, Deep Sea Research Part II, vol. 58, pp. 592-605, doi:10.1016/j.dsr2.2010.10.002

Thomson, D, Bearham, D, Graham, F, Eagle, JV 2011, High latitude, deeper water coral bleaching at Rottneest Island, Western Australia, Coral Reefs, vol. 30, no. 4, pp. 1107-1107, doi:10.1007/s00338-011-0811-x

Earp, A, Hanson, CE, Ralph, P, Brando, V, Allen, S, Baird, ME, Clementson, L, Daniel, P, Dekker, AG, Fearn, PRCS, Parslow, J, Strutton, P, Thompson, P, Underwood, M, Weeks, S, Doblin, MA 2011, Review of fluorescent standards for calibration of in situ fluorometers: recommendations applied in coastal and ocean observing programs, Optics Express, vol. 19, no. 27, pp. 26768-26782, doi:10.1364/OE.19.026768

Everett, JD, Baird, ME, Suthers, I 2011, Three-dimensional structure of a salp swarm of *Thalia democratica* within a cold-core eddy of southeastern Australia, Journal of Geophysical Research - Oceans, vol. 116, C12046, doi:10.1029/2011JC007310

- Pearce, A, Slawinski, D, Feng, M, Hutchins, B, Fearn, PRCS 2011, Modelling the potential transport of tropical fish larvae in the Leeuwin Current, *Continental Shelf Research*, vol. 31, pp. 2018-2040, doi:10.1016/j.csr.2011.10.006
- Johnson, C, Banks, S, Barrett, N, Cazzasus, F, Dunstan, P, Edgar, G, Frusher, SD, Gardner, C, Helidoniotis, F, Hill, K, Holbrook, N, Hosie, G, Last, P, Ling, S, Melbourne-Thomas, J, Miller, K, Pecl, G, Richardson, A, Ridgway, K, Rintoul, S, Ritz, D, Ross, J, Sanderson, C, Shephard, S, Slotwinski, A, Swadling, K, Taw, N 2011, Climate change cascades: shifts in oceanography, species' ranges and marine community dynamics in eastern Tasmania, *Journal of Experimental Marine Biology and Ecology*, vol. 400, no. 1-2, pp. 17-32, doi:10.1016/j.jembe.2011.02.032
- Feng, M, Caputi, N, Penn, J, Slawinski, D, de Lestang, S, Pearce, A 2011, Ocean circulation, Stokes drift and connectivity of western rock lobster population, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 68, pp. 1182-1196
- Gavrilov, AS, McCauley, R, Salgado Kent, C, Tripovich, J, Burton, C 2011, Vocal characteristics of pygmy blue whales and their change over time, *Journal of Acoustical Society of America*, vol. 130, no. 6, pp. 3651-3660
- van Dongen-Vogels, V, Seymour, JR, Middleton, J, Mitchell, J, Seuront, L 2012, Shifts in picophytoplankton community structure influenced by changing upwelling conditions, *Estuarine, Coastal and Shelf Science*, vol. 109, pp. 81-90, doi:10.1016/j.ecss.2012.05.026
- Oke, PR, Sakov, P 2012, Assessing the footprint of a regional ocean observing system., *Journal of Marine Systems*, vol. 105, pp. 30-51, doi:10.1016/j.jmarsys.2012.05
- Wood, JE, Roughan, M, Tate, P 2012, Finding a proxy for wind stress over the coastal ocean off Sydney, *Marine and Freshwater Research*, vol. 63, no. 6, pp. 528-544, doi:10.1071/MF11250
- Xu, J, Lowe, R, Ivey, GN, Pattiaratchi, C, Jones, N, Brinkman, R 2012, Dynamics of the summer shelf circulation and transient upwelling off Ningaloo Reef, Western Australia, *Journal of Geophysical Research - Oceans*, vol. 118, no. 3, pp. 1099-1125, doi:10.1002/jgrc.20098
- Condon, RH, et. al. 2012, Questioning the rise of gelatinous zooplankton in the world's oceans, *BioScience*, vol. 62, no. 2, pp. 160-169, doi:10.1525/bio.2012.62.2.9
- Lowe, R, Ivey, GN, Brinkman, GW, Jones, N 2012, Seasonal circulation and temperature variability near the North West Cape of Australia, *Journal of Geophysical Research - Oceans*, vol. 117, no. C4, doi:10.1029/2011JC007653
- Gavrilov, AS, McCauley, R, Gedamke, J 2012, Steady inter and intra-annual decrease in the vocalization frequency of Antarctic blue whales., *Journal of Acoustical Society of America*, vol. 131, no. 6, pp. 4476-4480, doi:10.1121/1.4707425
- Nash, JD, Shroyer, EL, Kelly, SM, Inall, ME, Duda, T, Levine, MD, Jones, N, Musgrave, RC 2012, Are any coastal internal tides predictable?, *Oceanography*, vol. 25, no. 2, pp. 80-95, doi:10.5670/oceanog/2012.44
- Ajani, P, Murray, S, Hallegraef, GM, Lundholm, N, Gillings, M, Brett, S, Armand, L 2013, The diatom genus *Pseudo-nitzschia* (Bacillariophyceae) in New South Wales, Australia: morphotaxonomy, molecular phylogeny, toxicity, and distribution, *Journal of Phycology*, vol. 49, no. 4, pp. 765-785, doi:10.1111/jpy.12087
- Schaeffer, A, Roughan, M, Morris, BD 2013, Cross-shelf dynamics in a western boundary current regime: implications for upwelling, *Journal of Physical Oceanography*, vol. 43, pp. 1042-1059, doi:10.1175/JPO-D-12-0177.1
- Gavrilov, AS, McCauley, R 2013, Acoustic detection and long-term monitoring of pygmy blue whales over the continental slope in southwest Australia, *Journal of Acoustical Society of America*, vol. 134, no. 3, pp. 2505-2513, doi:10.1121/1.4816576
- Pearce, A, Feng, M 2013, The rise and fall of the "marine heat wave" off Western Australia during the summer of 2010/11, *Journal of Marine Systems*, vol. 111, pp. 139-156, doi:10.1016/j.jmarsys.2012.10.009
- Zhang, Z, Falter, J, Lowe, R, Ivey, GN 2013, Atmospheric forcing intensifies the effects of regional ocean warming on reef-scale temperature anomalies during a coral bleaching event, *Journal of Geophysical Research - Oceans*, vol. 118, no. 9, pp. 4600-4616, doi:10.1002/jgrc.20338
- Weeks, S, Steinberg, C, Congdon, BC 2013, Oceanography and seabird foraging: within-season impacts of increasing sea surface temperature on the Great Barrier Reef, *Marine Ecology Progress Series*, vol. 490, pp. 247-254, doi:10.3354/meps10398
- Brassington, GB 2013, Multicycle ensemble forecasting of sea surface temperature, *Geophysical Research Letters*, vol. 40, no. 23, 2013GL057752, doi:10.1002/2013GL057752

Le Quere, C, Peters, GP, Andres, RJ, Andrew, RM, Boden, T, Ciais, P, et, al. 2013, Global carbon budget 2013, *Earth System Science Data*, vol. 6, pp. 689-760, doi:10.5194/essdd-6-689-2013

Mao, Y, Luick, J 2013, Circulation in the Southern Great Barrier Reef studied through an integration of multiple remote sensing and in-situ measurements, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 1621-1643, doi:10.1002/2013JC009397

Feng, M, McPhaden, M, Xie, S, Hafner, J 2013, La Nina forces unprecedented Leeuwin Current warming in 2011, *Scientific Reports*, vol. 3, no. 1277, doi:10.1038/srep01277

Bakker, DCE, Pfeil, B, Hankin, S, Olsen, A, et, al. 2013, An update to the Surface Ocean CO2 Atlas (SOCAT version 2), *Earth System Science Data*, vol. 6, pp. 465-512, doi:10.5194/essdd-6-465-2013

Pfeil, B, Olsen, A, Bakker, DCE, Hankin, S, Koyuk, H, et, al. 2013, A uniform, quality controlled Surface Ocean CO2 Atlas (SOCAT), *Earth System Science Data*, vol. 5, pp. 125-143, doi:10.5194/essd-5-125-2013

Sabine, CL, Hankin, S, Koyuk, H, Bakker, DCE, Pfeil, B, Olsen, A, Metzl, N, et, al. 2013, Surface Ocean CO2 Atlas (SOCAT) gridded data products, *Earth System Science Data*, vol. 5, pp. 145-153, doi:10.5194/essd-5-145-2013

Rigby, P, Steinberg, C, Williams, DK, Brinkman, R, Tonin, H, Hughes, D 2014, Real-time marine observing systems: challenges, benefits and opportunities in Australian coastal waters, *Australian Journal of Civil Engineering*, vol. 12, no. 1, pp. 83-99

Rossi, V, Schaeffer, A, Wood, JE, Galibert, G, Morris, BD, Sudre, J, Roughan, M, Waite, A 2014, Seasonality of sporadic physical processes driving temperature and nutrient high-frequency variability in the coastal ocean off Southeast Australia, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 445-460, doi:10.1002/2013JC009284

Ajani, P, Allen, A, Ingleton, T, Armand, L 2014, A decadal decline in relative abundance and a shift in phytoplankton composition at a long-term coastal station off Southeast Australia, *Limnology and Oceanography*, vol. 59, no. 6, pp. 2240-2242, doi:10.4319/lo.2014.59.6.2240

Schaeffer, A, Roughan, M, Wood, JE 2014, Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 4922-4939, doi:10.1002/2013JC009735

Armbrecht, L, Roughan, M, Rossi, V, Schaeffer, A, Davies, P, Waite, A, Armand, L 2014, Phytoplankton composition under contrasting oceanographic conditions: upwelling and downwelling (Eastern Australia), *Continental Shelf Research*, vol. 75, pp. 54-67, doi:10.1016/j.csr.2013.11.024

Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1

Robinson, C, Ralph, P, Doblin, MA 2014, Performance of fast repetition rate fluorometry based estimates of primary production in coastal waters, *Journal of Marine Systems*, vol. 139, pp. 299-310, doi:10.1016/j.jmarsys.2014.07.016

Morello, E, Galibert, G, Smith, D, Ridgway, K, Howell, B, Slawinski, D, Timms, GP, Evans, K, Lynch, T 2014, Quality Control (QC) procedures for Australia's National Reference Station's sensor data - comparing semi-autonomous systems to an expert oceanographer, *Methods in Oceanography*, vol. 9, pp. 17-33, doi:10.1016/j.mio.2014.09.001

Middleton, J, James, N, James, C, Bone, Y 2014, Cross-shelf seawater exchange controls the distribution of temperature, salinity and neritic carbonate sediments in the Great Australian Bight, *Journal of Geophysical Research - Oceans*, vol. 119, no. 4, pp. 2539-2549, doi:10.1002/2013JC009420

Middleton, J, Luick, J, James, C 2014, Carrying capacity for finfish aquaculture, Part II - Rapid assessment using hydrodynamic and semi-analytic solutions, *Journal of Aquacultural Engineering*, vol. 62, pp. 66-78, doi:10.1016/j.aquaeng.2014.07.006

Ruiz-Montoya, L, Lowe, R 2014, Summer circulation dynamics within the Perth coastal waters of southwestern Australia, *Continental Shelf Research*, vol. 77, no. 1, 10.1016/j.csr.2014.01.022, pp. 81-95

Foster, SD, Griffin, DA, Dunstan, P 2014, Twenty years of high-resolution sea surface temperature imagery around Australia: inter-annual and annual variability, *PLoS One*, vol. 9, no. 7, e100762, doi:10.1371/journal.pone.0100762

Lynch, T, Morello, E, Evans, K, Richardson, A, Steinberg, C, Roughan, M, Thompson, P, Middleton, J, Feng, M, Brando, V, Tilbrook, B, Ridgway, K, Allen, S, Doherty, P, Hill, K, Moltmann, T 2014, IMOS National Reference Stations: a continental scaled physical, chemical and biological coastal observing system, *PLoS One*, vol. 9, no. 12, e113652, doi:10.1371/journal.

pone.0113652

Benthuisen, J, Feng, M, Zhong, L 2014, Spatial patterns of warming off Western Australia during the 2011 Ningaloo Nino: quantifying impacts of remote and local forcing, *Continental Shelf Research*, vol. 91, pp. 232-246, doi:10.1016/j.csr.2014.09.014

Ganachaud, AS, Cravette, S, Melet, A, Schiller, A, Holbrook, N, Sloyan, B, et, al. 2014, The southwest Pacific Ocean circulation and climate experiment (SPICE), *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 7660-7686, doi:10.1002/2013JC009678

Davies, C, Armstrong, A, Baird, ME, Coman, F, Gaughan, D, Greenwood, J, Gusmao, LFM, et, al. 2014, Over 75 years of zooplankton data in Australia, *Ecology*, vol. 95, no. 11, pp. 3229-3229, doi:10.1890/14-0697.1

Gavrilov, AS, Parsons, M 2014, A Matlab tool for the characterisation of recorded underwater sound (chorus), *Acoustics Australia*, vol. 42, no. 3, pp. 190-196

Tripovich, J, Klinck, H, Nieukirk, S, Adams, T, Mellinger, D, Balcazar, N, Klinck, K, Hall, E, Rogers, T 2014, Temporal segregation of the Australian and Antarctic blue whale call types (*Balaenoptera musculus* spp.), *Journal of Mammalogy*, vol. 96, no. 3, pp. 603-610, doi:10.1092/jmammal/gyv065

de Lestang, S, Caputi, N, Feng, M, et, al. 2014, What caused seven consecutive years of low puerulus settlement in the western rock lobster fishery of Western Australia?, *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsu177

Everett, JD, Baird, ME, Roughan, M, Suthers, I, Doblin, MA 2014, Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a western boundary current, *Progress in Oceanography*, vol. 120, pp. 340-351, doi:10.1016/j.pocean.2013.10.016

null

Scott, M, Lowry, M, Taylor, M, Suthers, I 2014, The influence of an offshore artificial reef on the abundance of fish in the surrounding pelagic environment, *Marine and Freshwater Research*, vol. 66, no. 5, pp. 429-437, doi:10.1071/MF14064

Roedenbeck, C, Bakker, DCE, Metzl, N, Olsen, A, Sabine, CL, Cassar, N, Reum, JC, Keeling, R\$F, Heimann, M 2014, Interannual sea-air CO2 flux variability from an observation-driven ocean mixed-layer scheme, *Biogeosciences*, vol. 11, pp. 4599-4613, doi:10.5194/bg-11-4599-2014

Landschutzer, P, Gruber, N, Bakker, DCE, Schuster, U 2014, Recent variability of the global ocean carbon sink, *Global Biogeochemical Cycles*, vol. 28, pp. 1-23, doi:10.1002/2014GB004853

Bakker, DCE, Pfeil, B, Smith, K, Hankin, S, Olsen, A, Alin, SR, Cosca, C, Harasawa, S, Kozyr, A, Nojiri, Y, O'Brien, K, Schuster, U, Telszewski, M, Tilbrook, B, et, al. 2014, An update to the Surface Ocean CO2 Atlas (SOCAT version 2) - 2014, *Earth System Science Data*, vol. 6, no. 1, pp. 69-90, doi:10.5194/essd-6-69-2014

Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012

Thompson, P, Bonham, P, Thomson, P, Rochester, W, Doblin, MA, Waite, A, Richardson, A, Rousseaux, C 2015, Climate variability drives plankton community composition changes: the 2010 -2011 El Nino to La Nina transition around Australia, *Journal of Plankton Research*, vol. 37, no. 5, pp. 966-985, doi:10.1093/plankt/fbv069

Critchell, K, Grech, A, Schlaefer, J, Andutta, FP, et, al. 2015, Modelling the fate of marine debris along a complex shoreline: lessons from the Great Barrier Reef, *Estuarine, Coastal and Shelf Science*, vol. 167, no. Part B, pp. 414-426, doi:10.1016/j.ecss.2015.10.018

Henschke, N, Smith, JA, Everett, JD, Suthers, I 2015, Population drivers of a *Thalia democratica* swarm: insights from population modelling, *Journal of Plankton Research*, vol. 0, no. 0, pp. 1-14, doi:10.1093/plankt/fbv024

Everett, JD, Doblin, MA 2015, Characterising primary productivity measurements across a dynamic western boundary current region, *Deep Sea Research Part I*, vol. 100, pp. 105-116, doi:10.1016/j.dsr.2015.02.010

Armbrecht, L, Thompson, P, Wright, SW, Schaeffer, A, Roughan, M, Henderiks, J, Armand, L 2015, Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia, *Journal of Marine Systems*, vol. 148, pp. 26-38, doi:10.1016/j.jmarsys.2015.02.002

- Gehlen, M, Barciela, R, Bertino, L, Brasseur, P, Butenschon, M, Chai, F, Crise, A, Drillet, Y, Ford, D, Lavoie, D, Lehodey, P, Perruche, C, Samuelson, A, Simon, E 2015, Building the capacity for forecasting marine biogeochemistry and ecosystems: recent advances and future developments, *Journal of Operational Oceanography*, vol. 11, no. 1, pp. 168-187, doi:10.1080/1755876X.2015.1022350
- Goddijn-Murphy, LM, Woolf, DK, Land, PE, Shutler, JD, Donlon, CJ 2015, The OceanFlux Greenhouse Gases methodology for deriving a sea surface climatology of CO₂ fugacity in support of air-sea gas flux studies, *Ocean Science*, vol. 11, pp. 519-514, doi:10.5194/os-11-519-2015
- Heinze, C, Meyer, S, Goris, N, Anderson, L, Steinfeldt, R, Chang, N, Le Quere, C, Bakker, DCE 2015, The ocean carbon sink - impacts, vulnerabilities and challenges, *Earth System Dynamics*, vol. 6, pp. 327-358, doi:10.5194/esd-6-327-2015
- Iida, Y, Kojima, A, Takatani, Y, Nakano, T, Sugimoto, H, Midorikawa, T, Ishii, M 2015, Trends in pCO₂ and sea-air CO₂ flux over the global open oceans for the last two decades, *Journal of Oceanography*, pp. 1-25, doi:10.1007/s10872-015-0306-4
- Lauvset, SK, Gruber, N, Landschutzer, P, Olsen, A, Tjiputra, J 2015, Trends and drivers in global surface ocean pH over the past 3 decades, *Biogeosciences*, vol. 12, pp. 1285-1298, doi:10.5194/bg-12-1285-2015
- Pilcher, D, Brody, SR, Johnson, L, Bronselaer, B 2015, Assessing the abilities of CMIP5 models to represent the seasonal cycle of surface ocean pCO₂, *Journal of Geophysical Research - Oceans*, doi:10.1002/2015JC010759
- Armbrecht, L, Schaeffer, A, Roughan, M, Armand, L 2015, Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~30 degrees S) of Eastern Australia, *Journal of Marine Systems*, vol. 144, pp. 92-106, doi:10.1016/j.jmarsys.2014.11.008
- Salisbury, J, Vandemark, D, Jonsson, B, Balch, W, Chakraborty, S, Lohrenz, S, Chapron, B, Hales, B, Mannino, A, Mathis, JT, Reul, N, Signorini, SR, Wanninkhof, R, Yates, KK 2015, How can present and future satellite missions support scientific studies that address ocean acidification?, *Ocean Science*, vol. 28, no. 2, pp. 108-121, doi:10.5670/oceanog.2015.35
- Raes, E, Thompson, P, McInnes, AS, Nguyen, HM, Hardman-Mountford, NJ, Waite, A 2015, Sources of new nitrogen in the Indian Ocean, *Global Biogeochemical Cycles*, vol. 29, no. 8, pp. 1283-1297, doi:10.1002/2015GB005194
- Lenton, A, Tilbrook, B, Matear, R, Sasse, T, Nojiri, Y 2015, Historical reconstruction of ocean acidification in the Australian region, *Biogeosciences*, vol. 13, pp. 1753-1765, doi:10.5194/bg-13-1753-2016
- Schiller, A, Herzfeld, M, Brinkman, GW, Rizwi, F, Andrewartha, J 2015, Cross-shelf exchanges between the Coral Sea and the Great Barrier Reef lagoon determined from a regional-scale numerical model, *Continental Shelf Research*, vol. 109, pp. 150-163, doi:10.1016/j.csr.2015.09.011
- Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M 2015, The Marine Virtual Laboratory: enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 8, pp. 9741-9768, doi:10.5194/gmdd-8-9741-2015
- Weeks, S, Magno-Canto, MM, Jaine, F, Brodie, J, Richardson, A 2015, Unique sequence of events triggers manta ray feeding frenzy in the Southern Great Barrier Reef, *Remote Sensing*, vol. 7, no. 3, pp. 3138-3152, doi:10.3390/rs70303138
- Mao, Y, Ridd, P 2015, Sea surface temperature as a tracer to estimate cross-shelf turbulent diffusivity and flushing time in the Great Barrier Reef lagoon, *Journal of Geophysical Research - Oceans*, vol. 120, no. 6, pp. 4487-4502, doi:10.1002/2015JC010745
- O'Connell, L, James, N, Doubell, M, Middleton, J, Luick, J, Currie, DR, Bone, Y 2015, Oceanographic controls on shallow-water temperate carbonate sedimentation: Spencer Gulf, South Australia, *Sedimentology*, vol. 63, no. 1, pp. 105-135, doi:10.1111/sed.12226
- Schaeffer, A, Roughan, M 2015, Influence of a western boundary current on shelf dynamics and upwelling from repeat glider deployments, *Geophysical Research Letters*, vol. 42, no. 1, pp. 121-128, doi:10.1002/2014GL062260
- Ruiz-Montoya, L, Lowe, R, Kendrick, G 2015, Contemporary connectivity is sustained by wind and current-driven seed dispersal among seagrass meadows, *Movement Ecology*, vol. 3, no. 9, doi:10.1186/s40462-015-0034-9
- Sasse, T, Matear, R, Lenton, A 2015, Quantifying the influence of CO₂ seasonality on future aragonite undersaturation onset, *Biogeosciences*, vol. 12, pp. 6017-6031, doi:10.5194/bg-12-6017-2015
- Kelly, SM, Jones, N, Ivey, GN, Lowe, R 2015, Internal-tide spectroscopy and prediction in the Timor Sea, *Journal of Physical Oceanography*, vol. 45, no. 1, pp. 64-83, doi:10.1175/JPO-D-14_0007.1

- Erbe, C, Verma, A, McCauley, R, Gavrillov, AS, Parnum, I 2015, The marine soundscape of the Perth Canyon, *Progress in Oceanography*, vol. 137, pp. 38-51, doi: doi:10.1016/j.pocean.2015.05.015
- Balcazar, N, Tripovich, J, Klinck, H, Nieuwkerk, S, Mellinger, D, Dziak, R, Rogers, T 2015, Calls reveal population structure of blue whales across the southeast Indian Ocean and southwest Pacific Ocean, *Journal of Mammalogy*, doi:10.1093/jmammal/gyv126
- Kelly, P, Clementson, L, Lyne, V 2015, Decadal and seasonal changes in temperature, salinity, nitrate and chlorophyll in inshore and offshore waters along southeast Australia, *Journal of Geophysical Research - Oceans*, vol. 120, pp. 4226-4244, doi:10.1002/2014JC010646
- Xu, J, Lowe, R, Ivey, GN, Jones, N, Brinkman, GW 2015, Observations of the shelf circulation dynamics along Ningaloo Reef, Western Australia during the austral spring and summer, *Continental Shelf Research*, vol. 95, pp. 54-73, doi:10.1016/j.csr.2014.12.013
- Jones, EM, Doblin, MA, Matear, R, King, E 2015, Assessing and evaluating the ocean-colour footprint of a regional observing system, *Journal of Marine Systems*, vol. 143, pp. 49-61, doi:10.1016/j.marsys.2014.10.012
- Metcalf, SJ, van Putten, I, Frusher, SD, et. al. 2015, Measuring the vulnerability of marine social-ecological systems: a prerequisite for the identification of climate change adaptations, *Ecology and Society*, vol. 20, no. 2, 35, doi:10.5751/ES-07509-200235
- Oke, PR, Larnicol, G, Jones, EM, et. al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080
- Ridgway, K, Goddard, JC 2015, The source of the Leeuwin Current seasonality, *Journal of Geophysical Research - Oceans*, vol. 120, no. 10, pp. 6843-6864, doi:10.1002/2015JC011049
- Feng, M, Benthuisen, J, Slawinski, D 2015, Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010-2011, *Geophysical Research Letters*, vol. 42, no. 20, pp. 8555-8562, doi:10.1002/2015GL065848
- Messer, L, Doubell, M, Jeffries, TC, Brown, MV, Seymour, JR 2015, Prokaryotic and diazotrophic population dynamics within a large oligotrophic inverse estuary, *Aquatic Microbial Ecology*, vol. 74, pp. 1-15, doi:10.3354/ameo01726
- Kopf, A, van Ruth, P, Malthouse, P 2015, The ocean sampling day consortium, *GigaScience*, vol. 4, no. 27, pp. 1-5, doi:10.1186/s13742-015-0066-5
- Armbrecht, L, Wright, SW, Petocz, P, Armand, L 2015, A new approach to testing the agreement of two phytoplankton quantification techniques: microscopy and CHEMTAX, *Limnology and Oceanography*, vol. 13, no. 8, pp. 425-437, doi:10.1002/lom3.10037
- Garcia, HE, Cosca, C, Kozyr, A, Mayorga, E, Chandler, C, Thomas, RW, O'Brien, K, Appeltans, W, Hankin, S, Newton, J, Guttierrez, A, Gattuso, J-P, Hansson, L, Zweng, M, Pfeil, B 2015, Data management strategy to improve global use of ocean acidification data and information, *Oceanography*, vol. 28, no. 2, pp. 226-228, doi:10.5670/oceanog.2015.45
- Sloyan, B, O'Kane, TJ 2015, Drivers of decadal variability in the Tasman Sea, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3193-3210, doi:10.1002/2014JC010550
- McCauley, R, Cato, D, Duncan, A 2016, Regional variations and trends in ambient noise: examples from Australian waters, *Advances in Experimental Medicine and Biology*, vol. 875, pp. 687-696, doi:10.1007/978-1-4939-2981-8-83
- McCauley, R, Cato, D 2016, Evening choruses in the Perth Canyon and their potential link with Myctophidae fishes, *Journal of Acoustical Society of America*, vol. 140, no. 4, pp. 2384-2398, doi:10.1121/1.4964108
- Benthuisen, J, Tonin, H, Brinkman, R, Herzfeld, M, Steinberg, C 2016, Intrusive upwelling in the Central Great Barrier Reef, *Journal of Geophysical Research - Oceans*, vol. 121, no. 11, pp. 8395-8416, doi:10.1002/2016JC012294
- Oliver, ECJ, Herzfeld, M, Holbrook, N 2016, Modelling the shelf circulation off eastern Tasmania, *Continental Shelf Research*, vol. 130, pp. 14-33, doi:10.1016/j.csr.2016.10.005
- Huveneers, C, Simpfendorfer, C, Kim, S, Semmens, J, Hobday, A, Pederson, H, Stieglitz, T, Vallee, R, Webber, D, Heupel, M, Peddemors, V, Harcourt, R 2016, The influence of environmental parameters on the performance and detection range of acoustic receivers, *Methods in Ecology and Evolution*, vol. 7, no. 7, pp. 825-835, doi:10.1111/2041-210X.12520
- Bennett, M, Coman, F, Townsend, K, Couturier, L, Jaine, F, Richardson, A 2016, A historical and contemporary consideration

of the diet of the reef manta ray (*Manta alfredi*) from the Great Barrier Reef, Australia, *Marine and Freshwater Research*, vol. 68, no. 5, pp. 993-997, doi:<http://dx.doi.org/10.1071/MF16046>

Jones, EM, Baird, ME, Mongin, M, et. al. 2016, Use of remote-sensing reflectance to constrain a data assimilating marine biogeochemical model of the Great Barrier Reef, *Biogeosciences*, vol. 13, pp. 6441-6469, doi:10.5194/bg-13-6441-2016

Mihanovic, H, Pattiaratchi, C, Verspecht, F 2016, Diurnal sea breezes force near-inertial waves along Rottneest continental shelf, southwestern Australia, *Journal of Physical Oceanography*, vol. 46, pp. 3487-3508, doi:10.1175/JPO-D-16-0022.1

Mongin, M, Baird, ME, Tilbrook, B, Matear, R, Lenton, A, Herzfeld, M, Wild-Allen, K, Skerratt, J, Margvelashvili, N, Robson, B, Duarte, CM, Gustafsson, M, Ralph, P, Steven, A 2016, The exposure of the Great Barrier Reef to ocean acidification, *Nature Communications*, vol. 7, doi:10.1038/ncomms10732

Feng, M, Colberg, F, Slawinski, D, Berry, O, Babcock, R 2016, Ocean circulation drives heterogeneous recruitments and connectivity among coral populations on the North West Shelf of Australia, *Journal of Marine Systems*, vol. 164, pp. 1-12, doi:<https://doi.org/10.1016/j.jmarsys.2016.08.001>

Bahmanpour, MH, Pattiaratchi, C, Wijeratne, S, Steinberg, C, D'Adamo, N 2016, Multi-year observation of Holloway Current along the shelf edge of north Western Australia, *Journal of Coastal Research*, vol. 75, doi:10.2112/SI75-104.1

McLeay, L, Doubell, M, Dixon, C, Andreatchio, L, James, C, Luick, J, Middleton, J 2016, A biophysical model to assess the trade-off between larval recruitment and sustainable harvest in southern Australia's largest prawn fishery, *Fisheries Oceanography*, vol. 25, no. 2, pp. 164-182, doi:10.1111/fog.12143

Schaeffer, A, Roughan, M, Jones, EM, White, D 2016, Physical and biogeochemical spatial scales of variability in the East Australian Current separation from shelf glider measurements , *Biogeosciences*, vol. 13, pp. 1967-1975, doi:10.5194/bg-13-1967-2016

Bosserel, C, Abdo, DA, Evans, SN, Markey, KL 2016, Keeping it local: dispersal limitations of coral larvae to the high latitude coral reefs of the Houtman Abrolhos islands, *PLoS One*, vol. 11, no. 1, e0147628, doi:10.1371/journal.pone.0147628

Salinger, J, Hobday, A, Matear, R, O'Kane, TJ, et. al. 2016, Decadal-scale forecasting of climate drivers for marine applications, *Advances in Marine Biology*, vol. 74, pp. 1-68, doi:10.1016/bs.amb.2016.04.002

Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M, Sandery, PA, Schaeffer, A, Wijeratne, S 2016, The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration, *Geoscientific Model Development* , vol. 9, no. 9, pp. 3297-3307, doi:10.5194/gmd-9-3297-2016

Erbe, C, McCauley, R, Gavrilov, AS 2016, Characterizing marine soundscapes, *Advances in Experimental Medicine and Biology*, vol. 875, pp. 265-271, doi:10.1007/978-1-4939-2981-8-83

Davies, C, Coughlan, A, Ajani, P, Armbrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et. al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.43

Le Quere, C, Andrew, RM, Canadell, JG, et. al. 2016, Global Carbon Budget 2016, *Earth System Science Data*, vol. 8, no. 2, pp. 605-649, doi:<https://doi.org/10.5194/essd-8-605-2016>

Mahjabin, T, Pattiaratchi, C, Hetzel, Y 2016, Factors influencing the occurrence of dense shelf water cascades in Australia, *Journal of Coastal Research*, vol. 75, pp. 527-531, doi:10.2112/SI75-106.1

Balcazar, N, Klinck, H, Nieukirk, S, Mellinger, D, Klinck, K, Dziak, R, Rogers, T 2016, Using calls as an indicator for Antarctic blue whale occurrence and distribution across the southwest Pacific and southeast Indian Oceans, *Marine Mammal Science*, vol. 33, no. 1, pp. 172-186, doi:10.1111/mms.12373

Bibiloni-Isaksson, J, Seymour, JR, Ingleton, T, Van De Kamp, J, Bodrossy, L, Brown, MV 2016, Spatial and temporal variability of aerobic anoxygenic phototrophic bacteria along the east coast of Australia, *Environmental Microbiology*, vol. 18, pp. 4485-4500, doi:10.1111/1462-2920.13436

Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development* , vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016

Bakker, DCE, Pfeil, B, et. al. 2016, A multi-decade record of high-quality CO₂ data in version 3 of the Surface Ocean CO₂ Atlas (SOCAT) , *Earth System Science Data*, vol. 8, pp. 383-413, doi:10.5194/essd-8-383-2016

Wood, JE, Schaeffer, A, Roughan, M, Tate, P 2016, Seasonal variability in the continental shelf waters off southeastern Australia: fact or fiction?, *Continental Shelf Research*, vol. 112, pp. 92-103, doi:10.1016/j.csr.2015.11.006

Ajani, P, Hallegraeff, GM, Coughlan, A, Richardson, A, Armand, L, Ingleton, T, Murray, S 2016, Establishing baselines: a review of eighty years of phytoplankton diversity and biomass in southeastern Australia , *Oceanography and Marine Biology - an annual review*, vol. 54, pp. 387-412

Wyatt, LR, Mantovanelli, A, Heron, M, Roughan, M, Steinberg, C 2017, Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation, *IEEE Journal of Oceanic Engineering*, no. 99, pp. 1-22, doi:10.1109/JOE.2017.2704165

Lee, K, Huveneers, C, Duong, T, Harcourt, R 2017, The ocean has depth: two- versus three-dimensional space use estimators in a demersal reef fish, *Marine Ecology Progress Series*, doi:10.3354/meps12097

Robinson, C, Cherukuru, N, Hardman-Mountford, NJ, Everett, JD, McLaughlin, MJ, Davies, KP, van Dongen-Vogels, V, Ralph, P, Doblin, MA 2017, Phytoplankton absorption predicts patterns in primary productivity in Australian coastal shelf waters, *Estuarine, Coastal and Shelf Science*, vol. 195, pp. 1-16, doi:10.1016/j.ecss.2017.04.012

Schaeffer, A, Roughan, M 2017, Subsurface intensification of marine heatwaves off southeastern Australia: The role of stratification and local winds, *Geophysical Research Letters*, vol. 44, no. 10, pp. 5025-5033, doi:10.1002/2017GL073714

Kaplan, MB, Jewett, L, Tilbrook, B 2017, International collaboration is vital for understanding and adapting to Ocean Acidification, *Georgetown Journal of International Affairs*

Mantovanelli, A, Keating, S, Wyatt, LR, Roughan, M, Schaeffer, A 2017, Lagrangian and Eulerian characterization of two counterrotating submesoscale eddies in a western boundary current, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC011968

Schaeffer, A, Gramouille, A, Roughan, M, Mantovanelli, A 2017, Characterizing frontal eddies along the East Australian Current from HF radar observations, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012171

Hobday, A, Cvitanovic, C 2017, Preparing Australian fisheries for the critical decade: insights from the past 25 years, *Marine and Freshwater Research*, doi:10.1071/MF16393

Everett, JD, Baird, ME, Buchanan, PJ, et. al. 2017, Modelling what we sample and sampling what we model: challenges for zooplankton model assessment, *Frontiers in Marine Science*, vol. 4, no. 77, doi:10.3389/fmars.2017.00077

Ward, R, Gavrilov, AS, McCauley, R 2017, "Spot" call: A common sound from an unidentified great whale in Australian temperate waters, *Journal of Acoustical Society of America*, vol. 142, no. 2, doi:http://dx.doi.org/10.1121/1.4998608

Journal Count

145

Ocean radar

Bathgate, J, Heron, M, Prytz, A 2007, A method of swell wave parameter extraction from HF ocean surface radar spectra, *IEEE Journal of Oceanic Engineering*, vol. 31, no. 4, pp. 812-817, doi:10.1109/JOE.2006.886237

Mao, Y, Heron, M 2008, The influence of fetch on the response of surface currents to wind studied by HF ocean surface radar, *Journal of Physical Oceanography*, vol. 38, pp. 1107-1121, doi:10.1175/2007JPO3709.1

Heron, M, Prytz, A, Heron, SF, Hezel, T, Schlick, T, Greenslade, DJM, Schulz, E, Skirving, WJ 2008, Tsunami observations by coastal ocean radar, *International Journal of Remote Sensing*, vol. 29, no. 21, pp. 6347-6359, doi:10.1080/01431160802175371

Bainbridge, S, Steinberg, C, Heron, M 2010, Integrating observations: an example from the Great Barrier Reef, lessons from the reef on why integration matters and why achieving integration is harder than it looks, *Sea Technology*, vol. 51, no. 8, pp. 33-38

Heron, SF, Steinberg, C, Heron, M, Mantovanelli, A, Jaffres, JBD, Skirving, WJ, McAllister, F, Bainbridge, S 2010, Advancing ocean monitoring near coral reefs, *EOS American Geophysical Union*, vol. 91, no. 41, doi:doi:10.1029/2010EO410001

Mantovanelli, A, Heron, M, Steinberg, C, Heron, SF 2012, Relative dispersion of surface drifters in a barrier reef region, *Journal of Geophysical Research - Oceans*, vol. 117, no. C11016, doi:10.1029/2012JC008106

Heron, M, Atwater, DP 2012, Temporal and spatial resolution of HF Ocean Radars, *Ocean Science*, vol. 48, no. 1, pp. 99-103,

doi:10.1007/s12601-013-0008-z

Penton, J, Pattiaratchi, C 2013, The effects of wind forcing on surface currents on the continental shelf surrounding Rottnest Island, *International Journal of Environmental, Earth Science and Engineering*, vol. 7, no. 1, pp. 13-18

Mao, Y, Luick, J 2013, Circulation in the Southern Great Barrier Reef studied through an integration of multiple remote sensing and in-situ measurements, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 1621-1643, doi:10.1002/2013JC009397

Wyatt, LR, Jaffres, JBD, Heron, M 2013, Spatial averaging of HF Radar data for wave measurement applications, *Journal of Atmospheric and Oceanic Technology*, vol. 30, no. 9, pp. 2216-2224, doi:10.1175/JTECH-D-12-00206.1

Fujii, S, Heron, M, Kim, K, Lai, J, Lee, S, Wu, X, Wu, X, Wyatt, LR, Yang, W 2013, An overview of developments and applications of oceanographic Radar Networks in Asia and Oceania Countries, *Ocean Science*, vol. 48, no. 1, pp. 69-97, doi:10.1007/s12601-013-0007-0

Lee, S, Heron, M 2013, Development of oceanographic radar networks, data management and applications in Asia and Oceania countries, *Ocean Science*, vol. 48, no. 1, pp. 67-68, doi:10.1007/s12601-013-0006-1

de Lestang, S 2014, The orientation and migratory dynamics of the western rock lobster, *Panulirus cygnus*, in Western Australia, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1052-1063, doi:10.1093/icesjms/fst205

Ruiz-Montoya, L, Lowe, R 2014, Summer circulation dynamics within the Perth coastal waters of southwestern Australia, *Continental Shelf Research*, vol. 77, no. 1, 10.1016/j.csr.2014.01.022, pp. 81-95

Schaeffer, A, Roughan, M, Wood, JE 2014, Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 4922-4939, doi:10.1002/2013JC009735

Middleton, J, James, N, James, C, Bone, Y 2014, Cross-shelf seawater exchange controls the distribution of temperature, salinity and neritic carbonate sediments in the Great Australian Bight, *Journal of Geophysical Research - Oceans*, vol. 119, no. 4, pp. 2539-2549, doi:10.1002/2013JC009420

Wyatt, LR 2014, High frequency radar applications in coastal monitoring, planning and engineering, *Australian Journal of Civil Engineering*, vol. 12, no. 1, pp. 1-15

Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M 2015, The Marine Virtual Laboratory: enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 8, pp. 9741-9768, doi:10.5194/gmdd-8-9741-2015

Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016

Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M, Sandery, PA, Schaeffer, A, Wijeratne, S 2016, The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 9, no. 9, pp. 3297-3307, doi:10.5194/gmd-9-3297-2016

Bosserel, C, Abdo, DA, Evans, SN, Markey, KL 2016, Keeping it local: dispersal limitations of coral larvae to the high latitude coral reefs of the Houtman Abrolhos islands, *PLoS One*, vol. 11, no. 1, e0147628, doi:10.1371/journal.pone.0147628

Mihanovic, H, Pattiaratchi, C, Verspecht, F 2016, Diurnal sea breezes force near-inertial waves along Rottnest continental shelf, southwestern Australia, *Journal of Physical Oceanography*, vol. 46, pp. 3487-3508, doi:10.1175/JPO-D-16-0022.1

Mantovanelli, A, Keating, S, Wyatt, LR, Roughan, M, Schaeffer, A 2017, Lagrangian and Eulerian characterization of two counterrotating submesoscale eddies in a western boundary current, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC011968

Schaeffer, A, Gramouille, A, Roughan, M, Mantovanelli, A 2017, Characterizing frontal eddies along the East Australian Current from HF radar observations, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012171

Wyatt, LR, Mantovanelli, A, Heron, M, Roughan, M, Steinberg, C 2017, Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation, *IEEE Journal of Oceanic Engineering*, no. 99, pp. 1-22, doi:10.1109/JOE.2017.2704165

Animal tracking

- Honda, K, Hobday, A, Kawabe, R, Tojo, N, Fujioka, K, Takao, Y, Miyashita, K 2010, Age-dependent distribution of juvenile southern blue fin tuna (*Thunnus maccoyii*) on the continental shelf off southwest Australia determined by acoustic monitoring, *Fisheries Oceanography*, vol. 19, no. 2, pp. 151-158, doi:10.1111/j.1365-2419.2010.00534.x
- Fujioka, K, Kawabe, R, Hobday, A, Takao, Y, Miyashita, K, Sakai, O, Itoh, T 2010, Spatial and temporal variation in the distribution of juvenile southern blue fin tuna *Thunnus maccoyii*: implication for precise estimation of recruitment abundance indices, *Fisheries Science*, vol. 76, no. 3, pp. 403-410, doi:10.1007/s12562-010-0228-4
- Fujioka, K, Hobday, A, Kawabe, R, Miyashita, K, Honda, K, Itoh, T, Takao, Y 2010, Interannual variation in summer habitat utilization by juvenile southern blue fin tuna (*Thunnus maccoyii*) in southern Western Australia, *Fisheries Oceanography*, vol. 19, no. 3, pp. 183-195, doi:10.1111/j.1365-2419.2010.00536.x
- Barnett, A, Stevens, JD, Frusher, SD, Semmens, J 2010, Seasonal occurrence and population structure of the broadnose sevengill shark (*Notorynchus cepedianus*) in coastal habitats of south east Tasmania, *Journal of Fish Biology*, vol. 77, no. 7, pp. 1688-1701, doi:10.1111/j.1095-8649.2010.02810
- Barnett, A, Abrantes, K, Stevens, JD, Yick, JL, Frusher, SD, Semmens, J 2010, Inferring predator-prey relationships and foraging ecology of a marine apex predator with a wide temperate distribution, *Marine Ecology Progress Series*, vol. 416, pp. 189-200, doi:10.3354/meps08778
- Semmens, J, Buxton, C, Forbes, E, Phelan, MJ 2010, Spatial and temporal use of spawning aggregation sites by the tropical sciaenid *Protonibea diacanthus*, *Marine Ecology Progress Series*, vol. 403, pp. 193-203, doi:10.3354/meps08469
- Roughan, M, Morris, BD, Suthers, I 2010, NSW-IMOS: An Integrated Marine Observing System for southeastern Australia, *IOP Conference Series: Earth and Environmental Science*, vol. 11, no. 1, doi:10.1088/1755-1315/11/1/012030
- Williams, G, Hindell, MA, Houssais, MN, Tamura, T, Field, IC 2010, Upper ocean stratification and sea ice growth rates during the summer-fall transition, as revealed by Elephant seal foraging in the Adélie Depression, East Antarctica, *Ocean Science*, vol. 7, pp. 1913-1951, doi:10.5194/osd-7-1913-2010
- Barnett, A, Abrantes, K, Stevens, JD, Bruce, B, Semmens, J 2010, Fine-scale movements of the broadnose sevengill shark, and its main prey, the gummy shark, *PLoS One*, vol. 5, no. 12, doi:10.1371/journal.pone.0015464
- Speed, CW, Field, IC, Meekan, MG, Bradshaw, CJA 2010, Complexities of coastal shark movements and their implications for management, *Marine Ecology Progress Series*, vol. 408, pp. 275-293, doi:10.3354/meps08581
- Payne, N, Gillanders, B, Webber, D, Semmens, J 2010, Interpreting diel activity patterns from acoustic telemetry: the need for controls, *Marine Ecology Progress Series*, vol. 419, no. 295, doi:10.3354/meps08864
- Knip, D, Heupel, M, Simpfendorfer, C, Tobin, A, Maloney, J 2011, Wet-season effects on the distribution of juvenile pigeye sharks, *Carcharhinus amboinensis*, in tropical nearshore waters, *Marine and Freshwater Research*, vol. 68, no. 6, pp. 658-667
- Abrantes, K, Barnett, A 2011, Intrapopulation variations in diet and habitat use in a marine apex predator, the broadnose sevengill shark *Notorynchus cepedianus*, *Marine Ecology Progress Series*, vol. 442, pp. 133-148, doi:10.3354/meps09395
- Speed, CW, Meekan, MG, Field, IC, McMahon, C, Stevens, JD, McGregor, F, Huveneers, C, Berger, Y, Bradshaw, CJA 2011, Spatial and temporal movement patterns of a multi-species coastal reef shark aggregation, *Marine Ecology Progress Series*, vol. 429, pp. 261-275, doi:10.3354/meps09080
- Taylor, M, Ko, A 2011, Monitoring acoustically-tagged king prawns *Penaeus (melicertus) plebejus* in an estuarine lagoon., *Marine Biology*, vol. 158, pp. 835-844, doi:10.1007/s00227-010-1610-6
- Neuheimer, AB, Thresher, RE, Lyle, J, Semmens, J 2011, Tolerance limit for fish growth exceeded by warming waters, *Nature Climate Change*, vol. 1, pp. 110-113, doi:10.1038/nclimate1084
- Welch, D, Melnychuk, MC, Payne, J, Rechisky, EL, Porter, AD, Jackson, GD, Ward, BJ, Vincent, S, Wood, CC 2011, In situ measurement of coastal ocean movements and survival of juvenile Pacific Salmon, *Proceedings of the National Academy of Sciences of the United States of America*, vol. 108, pp. 8708-8713

- Field, IC, Harcourt, R, Boehme, L, de Bruyn, N, Charrassin, J-B, McMahon, C, Bester, M, Fedak, M, Hindell, MA 2011, Refining instrument attachment on phocid seals, *Marine Mammal Science*, vol. 28, no. 3, pp. 325-332, doi:10.1111/j.1748-7692.2011.00519.x
- Knip, D, Heupel, M, Simpfendorfer, C, Tobin, A, Maloney, J 2011, Ontogenetic shifts in movement and habitat use of juvenile pigeye sharks (*Carcharhinus amboinensis*) in a tropical nearshore region, *Marine Ecology Progress Series*, vol. 425, pp. 233-246, doi:10.3354/meps09006
- Field, IC, Meekan, MG, Speed, CW, White, W, Bradshaw, CJA 2011, Quantifying movement patterns for shark conservation at remote coral atolls in the Indian Ocean, *Coral Reefs*, vol. 30, no. 1, pp. 61-71, doi:10.1007/s00338-010-0699-x
- Barnett, A, Abrantes, K, Stevens, JD, Semmens, J 2011, Site fidelity and sex-specific migrations in a mobile apex predator: implications for conservation and ecosystem dynamics, *Animal Behaviour*, vol. 81, no. 5, pp. 1039-1048, doi:10.1016/j.anbehav.2011.02.011
- Payne, N, Gillanders, B, Seymour, RS, Webber, D, Snelling, EP, Semmens, J 2011, Accelerometry estimates field metabolic rate in giant Australian cuttlefish *Sepia apama* during breeding, *Journal of Animal Ecology*, vol. 80, no. 2, pp. 422-430, doi:10.1111/j.1365-2656.2010.01758.x
- Payne, N, Gillanders, B, Semmens, J 2011, Breeding durations as estimators of adult sex ratios and population size, *Oecologia*, vol. 165, no. 2, pp. 341-347, doi:10.1007/s00442-010-1729-7
- Speed, CW, Meekan, MG, Field, IC, McMahon, C, Abrantes, K, Bradshaw, CJA 2012, Trophic ecology of reef sharks determined using stable isotopes and telemetry, *Coral Reefs*, vol. 31, no. 2, pp. 357-367, doi:10.1007/s00338-011-0850-3
- Babcock, R, Egli, D, Attwood, C 2012, Incorporating behavioural variation in individual-based simulation models of marine reserve effectiveness, *Environmental Conservation*, vol. 39, no. 3, doi:10.1017/S0376892912000148
- Cerutti-Pereyra, F, Meekan, MG, O'Shea, OR, Bradshaw, CJA, Austin, C 2012, Identification of rays through DNA barcoding: an application for ecologists, *PLoS One*, vol. 7, no. 6, doi:10.1371/journal.pone.0036479
- Welsh, JQ, Fox, R, Webber, D, Bellwood, DR 2012, Performance of remote acoustic receivers within a coral reef habitat: implications for array design, *Coral Reefs*, vol. 31, no. 3, pp. 693-702, doi:10.1007/s00338-012-0892-1
- Knip, D, Heupel, M, Simpfendorfer, C 2012, To roam or to home: site fidelity in a tropical coastal shark, *Marine Biology*, vol. 159, no. 8, pp. 1647-1658, doi:10.1007/s00227-012-1950-5
- Speed, CW, Meekan, MG, Field, IC, McMahon, C, Bradshaw, CJA 2012, Heat seeking sharks: support for behavioural thermoregulation in reef sharks, *Marine Ecology Progress Series*, vol. 463, pp. 231-245, doi:10.3354/meps09864
- Bestley, S, Jonsen, I, Hindell, MA, Guinet, C, Charrassin, J-B 2012, Integrative modelling of animal movement: incorporating in situ habitat and behavioural information for a migratory marine predator, *Proceedings of the Royal Society Series B*, vol. 280, no. 1750, doi:10.1098/rspb.2012.2262
- Rogers, P, Huvneers, C, Goldsworthy, S, Mitchell, J, Seuront, L 2012, Broad-scale movements and pelagic habitat of the dusky shark *Carcharhinus obscurus* off Southern Australia determined using pop-up satellite archival tags, *Fisheries Oceanography*, vol. 22, no. 2, pp. 102-112, doi:10.1111/fog.12009
- Fedak, M 2012, The impact of animal platforms on polar ocean observation, *Deep Sea Research Part II*, vol. 88, pp. 7-13, doi:10.1016/j.dsr2.2012.07.007
- Knip, D, Heupel, M, Simpfendorfer, C 2012, Habitat use and spatial segregation of adult spottail sharks *Carcharhinus sorrah* in tropical nearshore waters, *Journal of Fish Biology*, vol. 80, no. 4, pp. 767-784, doi:10.1111/j.1095-8649.2012.03223.x
- Barnett, A, Braccini, M, Awruch, CA, Ebert, DA 2012, An overview on the role of Hexanchiformes in marine ecosystems: biology, ecology and conservation status of a primitive order of modern sharks, *Journal of Fish Biology*, vol. 80, no. 5, pp. 966-990, doi:10.1111/j.1095-8649.2012.03242.x
- Barnett, A, Semmens, J 2012, Sequential movement into coastal habitats and high spatial overlap of predator and prey suggest high predation pressure in protected areas, *OIKOS - Synthesising Ecology*, vol. 121, no. 6, pp. 882-890, doi:10.1111/j.1600-0706-2011.20000.x
- Thums, M, Reisser, J, Pendoley, K, Pattiaratchi, C, Harcourt, R, McMahon, C, Meekan, MG 2012, Tracking turtle hatchlings - a pilot study using acoustic telemetry. , *Journal of Experimental Marine Biology and Ecology*, vol. 440, pp. 156-163, doi:10.1016/j.jembe.2012.12.006

- Knip, D, Heupel, M, Simpfendorfer, C 2012, Evaluating marine protected areas for the conservation of tropical coastal sharks, *Biological Conservation*, vol. 148, no. 1, pp. 200-209, doi:10.1016/j.biocon.2012.01.008
- Bryars, S, Rogers, P, Huveneers, C, Payne, N, Smith, I, McDonald, B 2012, Small home range in southern Australia's largest resident reef fish, the western blue groper (*Achoerodus gouldii*): implications for adequacy of no-take marine protected areas., *Marine and Freshwater Research*, vol. 63, no. 6, pp. 552-563
- Chin, A, Tobin, A, Simpfendorfer, C, Heupel, M 2012, Reef sharks and inshore habitats: patterns of occurrence and implications for vulnerability, *Marine Ecology Progress Series*, vol. 460, pp. 115-125, doi:10.3354/meps09722
- Knip, D, Heupel, M, Simpfendorfer, C 2012, Mortality rates for two shark species occupying a shared coastal environment, *Fisheries Research*, vol. 125, pp. 184-189, doi:10.1016/j.fisheries.2012.02.023
- Barnett, A, Abrantes, K, Seymour, RS, Fitzpatrick, R 2012, Residency and spatial use by reef sharks of an isolated seamount and its implications for conservation, *PLoS One*, vol. 7, e:36574, doi:10.1371/journal.pone.0036574
- Fitzpatrick, R, Thums, M, Bell, I, Meekan, MG, Stevens, JD, Barnett, A 2012, A comparison of the seasonal movements of tiger sharks and green turtles provides insight into their predator-prey relationship, *PLoS One*, vol. 7, E51927
- Bruce, B, Bradford, RW 2012, The effects of shark cage-diving operations on the behaviour and movements of white sharks, *Carcharodon carcharias*, at the Neptune Islands, South Australia, *Marine Biology*, vol. 160, no. 4, pp. 889-907, doi:10.1007/s00227-012-2142-z
- Hobday, A, Young, J, Abe, O, Costa, D, Cowen, R, Evans, K, Gasalla, M, Kloser, R, Maury, O, Weng, KC 2013, Climate impacts and oceanic top predators: moving from impacts to adaptation in oceanic systems, *Reviews in Fish Biology and Fisheries*, vol. 23, no. 4, pp. 1-10, doi:10.1007/s11160-013-9311-0
- Hughes, JM, Stewart, J, Lyle, J, McAllister, J, Stocks, J, Suthers, I 2013, Latitudinal, ontogenetic, and historical shifts in the diet of a carnivorous teleost, *Arripis trutta*, in a coastal pelagic ecosystem altered by climate change, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 70, no. 8, pp. 1209-1230, doi:10.1139/cjfas-2013-0083
- Robbins, W, Peddemors, V, Broadhurst, M, Gray, C 2013, Hooked on fishing? Recreational angling interactions with the critically endangered grey nurse shark *Carcharias taurus* in eastern Australia, *Endangered Species Research*, vol. 21, pp. 161-170, doi:10.3354/esr00520
- Vianna, G, Meekan, MG, Meeuwig, J, Speed, CW 2013, Environmental Influences on Patterns of Vertical Movement and Site Fidelity of Grey Reef Sharks (*Carcharhinus amblyrhynchos*) at Aggregation Sites , *PLoS One*, vol. 8, no. 4, doi:10.1371/journal.pone.0060331
- Taylor, M, Fairfax, AV, Suthers, I 2013, The race for space: using acoustic telemetry to understand density-dependent emigration and habitat selection in a released predatory fish, *Reviews in Fisheries Science*, vol. 21, no. 3-4, pp. 276-285, doi:10.1080/10641262.2013.796813
- Taylor, M, McPhan, L, van der Meulen, D, Gray, C, Payne, N 2013, Interactive drivers of activity in a free-ranging estuarine predator, *PLoS One*, doi:10.1371/journal.pone.0080962
- Pursche, A, Suthers, I, Taylor, M 2013, The effect of targeted stocking on behaviour and space utilization of a released finfish, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1100-1106, doi:10.1093/icesjms/fst209
- Rogers, P, Huveneers, C, Goldsworthy, S, Cheung, W, Jones, G, Mitchell, J, Seuront, L 2013, Population metrics and movement of two sympatric carcharhinids: a comparison of the vulnerability of pelagic sharks of the southern Australian gulfs and shelves, *Marine and Freshwater Research*, vol. 64, no. 1, pp. 20-30, doi:10.1071/MF11234
- Currey, L, Heupel, M, Simpfendorfer, C, Clark, TD 2013, Blood lactate loads of redthroat emperor *Lethrinus miniatus* associated with angling stress and exhaustive exercise, *Journal of Fish Biology*, vol. 83, no. 5, pp. 1401-1406, doi:10.1111/jfb.12216
- Lowther, A, Harcourt, R, Page, B, Goldsworthy, S 2013, Steady as he goes: at-sea movement of adult male Australian sea lions in a dynamic marine environment, *PLoS One*, vol. 8, no. 9, e74348, doi:10.1371/journal.pone.0074348
- Chin, A, Simpfendorfer, C, Tobin, A, Heupel, M 2013, Validated age, growth and reproductive biology of *Carcharhinus melanopterus*, a widely distributed and exploited reef shark, *Marine and Freshwater Research*, vol. 64, no. 10, pp. 965-975, doi:10.1071/MF13017
- Payne, N, van der Meulen, D, Gannon, R, Semmens, J, Suthers, I, Gray, C, Taylor, M 2013, Rain reverses diel activity rhythms in bream., *Proceedings of the Royal Society Series B*, vol. 280, 2022363

- Pursche, A, Suthers, I, Taylor, M 2013, Post-release monitoring of site and group fidelity in acoustically-tagged stocked fish, *Fisheries Management and Ecology*, vol. 20, no. 5, pp. 445-453, doi:10.1111/fme.12031
- Ferguson, A, Harvey, ES, Taylor, M, Knott, N 2013, A herbivore knows its patch: the key grazer luderick, *Girella tricuspidata*, exhibits strong site fidelity on shallow subtidal reefs in a temperate marine park., *PLoS One*, vol. 8, e65838, doi:10.1371/journal.pone.0065838
- White, J, Heupel, M, Simpfendorfer, C, Tobin, A 2013, Incidence and availability of shark-like batoids of conservation concern to a gill-net fishery within the Great Barrier Reef Marine Park, *Endangered Species Research*, vol. 19, pp. 277-284
- Udyawer, V, Simpfendorfer, C, Chin, A, Knip, D, Heupel, M 2013, Variable response of coastal sharks to severe tropical storms: environmental cues and changes in space use, *Marine Ecology Progress Series*, vol. 480, pp. 171-183, doi:10.3354/meps10244
- Udyawer, V, Read, M, Hamman, M, Simpfendorfer, C, Heupel, M 2013, First record of sea snake (*Hydrophis elegans*, Hydrophiinae) entrapped in marine debris, *Marine Pollution Bulletin*, vol. 73, pp. 336-338, doi:10.1016/j.marpolbul.2013.06.023
- Chin, A, Tobin, A, Heupel, M, Simpfendorfer, C 2013, Population structure and residency patterns of the blacktip reef shark *Carcharhinus melanopterus* in turbid coastal environments, *Journal of Fish Biology*, vol. 82, pp. 1192-1210, doi:10.1111/jfb.12057
- Chin, A, Heupel, M, Simpfendorfer, C, Tobin, A 2013, Ontogenetic movements of juvenile blacktip reef sharks: evidence of dispersal and connectivity between coastal habitats and coral reefs., *Marine and Freshwater Research*, vol. 23, pp. 468-474, doi:10.1002/aqc.2349
- Huveneers, C, Rogers, P, Beckman, C, Semmens, J, Bruce, B, Seuront, L 2013, Effects of the fine-scale movement of white sharks (*Carcharodon carcharias*), *Marine Biology*
- Stehfest, K, Patterson, T, Dagorn, L, Holland, K, Itano, D, Semmens, J 2013, Network analysis of acoustic tracking data reveals the structure and stability of fish aggregations in the open ocean, *Animal Behaviour*, vol. 85, pp. 839-848, doi:10.1016/j.anbehav.2013.02.003
- Semmens, J, Payne, N, Huveneers, C, Sims, DW, Bruce, B 2013, Feeding requirements of white sharks may be higher than originally thought, *Scientific Reports*, vol. 3, doi:10.1038/srep01471
- Huveneers, C, Rogers, P, Beckman, C, Semmens, J, Bruce, B, Seuront, L 2013, The effects of cage-diving activities on the fine-scale swimming behaviour and space use of white sharks, *Marine Biology*, vol. 160, no. 11, pp. 2863-2875, doi:10.1007/s00227-013-2277-6
- Ohshima, KI, Fukamachi, Y, Williams, G, Nihashi, S, Roquet, F, Kitade, Y, Tamura, T, Hirano, D, Herraiz-Borreguero, L, Field, IC, Hindell, MA, Aoki, S, Wakatsuchi, M 2013, Antarctic bottom water production by intense sea-ice formation in the Cape Darnley polynya, *Nature Geoscience*, vol. 6, pp. 235-240, doi:10.1038/ngeo1738
- Payne, N, Taylor, M, Watanabe, Y, Semmens, J 2014, From physiology to physics: are we recognizing the flexibility of biologging tools?, *Journal of Experimental Biology*, vol. 217, pp. 317-322, doi: 10.1242/jeb.093922
- Taylor, M, van der Meulen, D, Walsh, CT, Reinfelds, I, Gray, C 2014, Shock, stress or signal? Implications of freshwater flows for a top-level estuarine predator , *PLoS One*, doi:10.1371/journal.pone.0095680
- McMahon, C, Harcourt, R 2014, Antarctica: seals collect more Southern Ocean data, *Nature*, vol. 513, no. 33, doi:10.1038/513033e
- Cleeland, J, Lea, MA, Hindell, MA 2014, Use of the Southern Ocean by breeding short-tailed shearwaters (*Puffinus tenuirostris*), *Journal of Experimental Marine Biology and Ecology*, vol. 450, pp. 109-117, doi:10.1016/j.jembe.2013.10.012
- Harris, B, Young, J, Revill, A, Taylor, M 2014, Understanding diel-vertical feeding migrations in zooplankton using bulk carbon and nitrogen stable isotopes, *Journal of Plankton Research*, vol. 36, no. 4, pp. 1159-1163, doi:10.1093/plankt/fbu026
- Stehfest, K, Patterson, T, Barnett, A, Semmens, J 2014, Markov models and network analysis reveal sex-specific differences in the space-use of a coastal apex predator, *OIKOS - Synthesising Ecology*, doi:10.1111/oik.01429
- Kim, Y, Priddel, D, Carlile, N, Merrick, JR, Harcourt, R 2014, Do tracking tags impede breeding performance in the threatened Gould's Petrel *Pterodroma leucoptera*?, *Marine Ornithology*, vol. 42, pp. 63-68

- Kitade, Y, Shimada, K, Tamura, T, Williams, G, Aoki, S, Fukamachi, Y, Roquet, F, Hindell, MA, Ushio, S, Ohshima, KI 2014, Antarctic bottom water production from the Vincennes Bay polynya, East Antarctica, *Geophysical Research Letters*, vol. 41, no. 10, pp. 3528-3534, doi:10.1002/2014GL059971
- Vianna, G, Meekan, MG, Bornovski, TH, Meeuwig, J 2014, Acoustic telemetry validates a citizen science approach for monitoring sharks on coral reefs , *PLoS One*, vol. 9, no. 4, e95565, doi:10.1371/journal.pone.0095565
- Werry, JM, Planes, S, Berumen, ML, Lee, K, Braun, CD, Clua, E 2014, Reef-fidelity and migration of tiger sharks, *Galeocerdo cuvier*, across the Coral Sea , *PLoS One*, vol. 9, no. 1, e83249, doi:10.1371/journal.pone.0083249
- Heupel, M, Simpfendorfer, C 2014, Importance of environmental and biological drivers in the presence and space use of a reef-associated shark, *Marine Ecology Progress Series*, vol. 496, pp. 47-57, doi:10.3354/meps10529
- van der Meulen, D, Walsh, CT, Taylor, M, Gray, M 2014, Habitat requirements and spawning strategy of an estuarine-dependant fish, *Perca latipes*, *Marine and Freshwater Research*, vol. 65, no. 3, pp. 218-227, doi:10.1071/MF13060
- Banks, J, Lea, MA, McMahon, C, Hindell, MA 2014, Combining bio-logging and fatty acid signature analysis indicates spatio-temporal variation in the diet of the southern elephant seal, *Mirounga leonina*, *Journal of Experimental Marine Biology and Ecology*, vol. 450, pp. 79-90
- Munroe, S, Simpfendorfer, C, Heupel, M 2014, Habitat and space use of an abundant nearshore shark, *Rhizoprionodon taylori*, *Marine and Freshwater Research*, vol. 65, pp. 959-968, doi:10.1071/MF13272
- Stocks, J, Gray, C, Taylor, M 2014, Out in the wash: spatial ecology of a temperate marine shallow rocky-reef species derived using acoustic telemetry, *Marine and Freshwater Research*, vol. 66, no. 6, pp. 559-571, doi:10.1071/MF14182
- Bestley, S, Jonsen, I, Gales, N, Harcourt, R, Hindell, MA 2014, Taking animal tracking to new depths: synthesizing horizontal-vertical movement relationships for four marine predators, *Ecology*, vol. 96, pp. 417-427, doi:10.1890/14-0469.1
- Pursche, A, Walsh, CT, Taylor, M 2014, Evaluation of a novel external tag-mount for acoustic tracking of small finfish, *Fisheries Management and Ecology*, vol. 21, no. 2, pp. 169-172, doi:10.1111/fme.12051
- White, J, Simpfendorfer, C, Tobin, A, Heupel, M 2014, Spatial ecology of shark-like batoids in a large coastal embayment, *Environmental Biology of Fishes*, vol. 97, no. 7, pp. 773-786, doi:10.1007/s10641-013-0178-7
- Vanderklift, MA, Boschetti, F, Roubertie, C, Pillans, R, Haywood, M, Babcock, R 2014, Density of reef sharks estimated by applying an agent-based model to video surveys, *Marine Ecology Progress Series*, vol. 508, pp. 201-209, doi:10.3354/meps10813
- Pillans, R, Bearham, D, Boomer, A, Downie, R, Patterson, T, Thomson, D, Babcock, R 2014, Multi year observations reveal variability in residence of a tropical demersal fish, *Lethrinus nebulosus*: implications for spatial management, *PLoS One*, vol. 9, no. 9, e105507, doi:10.1371/journal.pone.0105507
- McMahon, C, Simpkins, GR, Hindell, MA, et, al. 2014, Bottom-up regulation of a pole-ward migratory predator population, *Proceedings of the Royal Society Series B*, vol. 281, 20132842
- Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2014, Sedentary or mobile? Variability in space and depth use of an exploited coral reef fish, *Marine Biology*, vol. 161, no. 9, pp. 2155-2166, doi:10.1007/s00227-014-2497-4
- Gannon, R, Taylor, M, Suthers, I, Gray, C, van der Meulen, D, Payne, N 2014, Thermal limitations of performance and biogeography in a free-ranging ectotherm: insights from accelerometry, *Experimental Biology*, vol. 217, pp. 3033-3037, doi:10.1242/jeb.104455
- Lee, K, Huvaneers, C, Gimenez, O, Peddemors, V, Harcourt, R 2014, To catch or to sight? A comparison of demographic parameter estimates obtained from mark-recapture and mark-resight models, *Biodiversity and Conservation*, vol. 23, no. 11, pp. 2781-2800, doi:DOI 10.1007/s10531-014-0748-9
- Cerutti-Pereyra, F, Thums, M, Austin, C, Bradshaw, CJA, Stevens, JD, Babcock, R, Pillans, R, Meekan, MG 2014, Restricted movements of juvenile rays in the lagoon of Ningaloo Reef, Western Australia - evidence for the existence of a nursery, *Environmental Biology of Fishes*, vol. 97, no. 4, pp. 371-383, doi:10.1007/s10641-013-0158-y
- Roquet, F, Williams, G, Hindell, MA, Harcourt, R, McMahon, C, Guinet, C, Charrassin, J-B, Reverdin, G, Boehme, L, Lovell, P, Fedak, M 2014, A southern Indian Ocean database of hydrographic profiles obtained with instrumented elephant seals, *Scientific Data*, vol. 1, 140028, doi:10.1038/sdata.2014.28
- Stocks, J, Gray, C, Taylor, M 2014, Testing the effects of near-shore environmental variables on acoustic detections:

implications on telemetry array design and data interpretation, *Marine Technology Society Journal*, vol. 48, no. 1, pp. 28-35, doi:10.4031/MTSJ.48.1.8

Simpfendorfer, C, Huveneers, C, Steckenreuter, A, Tattersall, K, Hoenner, X, Harcourt, R, Heupel, M 2015, Ghosts in the data: false detections in VEMCO pulse position modulation acoustic telemetry monitoring equipment, *Animal Biotelemetry*, vol. 3, doi:10.1186/s40317-015-0094-2

Davy, L, Simpfendorfer, C, Heupel, M 2015, Movement patterns and habitat use of juvenile mangrove whiprays *Himantura granulata*, *Marine and Freshwater Research*, vol. 66, no. 6, pp. 481-492, doi:10.1071/MF14028

Zeh, D, Heupel, M, Limpus, C, Hamman, M, et, al. 2015, Is acoustic tracking appropriate for air-breathing marine animals? Dugongs as a case study, *Journal of Experimental Marine Biology and Ecology*, vol. 464, pp. 1-10, doi:10.1016/j.jembe.2014.11.013

Raymond, B, Lea, MA, Patterson, T, Andrews-Goff, V, Sharples, R, Charrassin, J-B, Cottin, M, Emmerson, L, Gales, N, Gales, R, Goldsworthy, S, Harcourt, R, Kato, A, Kirkwood, R, Lawton, K, Ropert-Coudert, Y, Southwell, C, Van Den Hoff, J, Wienecke, B, Woehler, EJ, Wotherspoon, S, Hindell, MA 2015, Important marine habitat off east Antarctica revealed by two decades of multi-species predator tracking, *Ecography*, vol. 38, no. 2, pp. 121-129, doi:10.1111/ecog.01021

Francis, M, Duffy, C, Lyon, W 2015, Spatial and temporal habitat use by white sharks (*Carcharodon carcharias*) at an aggregation site in southern New Zealand, *Marine and Freshwater Research*, doi:10.1071/MF14186

Munroe, S, Heupel, M, Fisk, AT, Simpfendorfer, C 2015, Geographic and temporal variation in the trophic ecology of a small bodied-shark: evidence of resilience to environmental change, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 72, no. 3, pp. 343-351, doi:10.1139/cjfas-2014-0230

Lee, K, Huveneers, C, MacDonald, T, Harcourt, R 2015, Size isn't everything: movements, home range, and habitat preferences of eastern blue groper (*Achoerodus viridis*) demonstrate the efficiency of a small marine reserve, *Aquatic Conservation - Marine and Freshwater Ecosystems*, vol. 25, no. 2, pp. 174-186, doi:10.1002/aqc.2431

Matley, J, Heupel, M, Simpfendorfer, C 2015, Depth and space use of leopard coral grouper *Plectropomus leopardus* using passive acoustic tracking, *Marine Ecology Progress Series*, vol. 521, pp. 201-216, doi:10.3354/meps11122

McAllister, J, Barnett, A, Lyle, J, Semmens, J 2015, Examining the functional role of current area closures used for the conservation of an overexploited and highly mobile fishery species, *ICES Journal of Marine Science*, vol. 72, no. 8, pp. 2234-2244, doi:10.1093/icesjms/fsv079

Stehfest, K, Lyle, J, Semmens, J 2015, The use of acoustic accelerometer tags to determine seasonal changes in activity and catchability of a recreationally caught marine teleost, *ICES Journal of Marine Science*, vol. 72, no. 8, pp. 2512-2520, doi:10.1093/icesjms/fsv115

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2015, Assessing fine-scale diel movement patterns of an exploited coral reef fish, *Animal Biotelemetry*, vol. 3, no. 41, doi:10.1186/s40317-015-0072-5

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Movement patterns of silvertip sharks (*Carcharhinus albimarginatus*) on coral reefs, *Coral Reefs*, vol. 34, no. 3, pp. 807-821, doi:10.1007/s00338-015-1312-0

Espinoza, M, Ledee, E, Simpfendorfer, C, Tobin, A, Heupel, M 2015, Contrasting movements and connectivity of reef-associated sharks using acoustic telemetry: implications for management, *Ecological Applications*, vol. 25, no. 8, pp. 2101-2118, doi:10.1890/14-2293.1

Heupel, M, Simpfendorfer, C, Espinoza, M, Smoothey, A, Tobin, A, Peddemors, V 2015, Conservation challenges of sharks with continental scale migrations, *Frontiers in Marine Science*, vol. 2, no. 12, pp. 1-7, doi:10.3389/fmars.2015.00012

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Residency patterns and movements of grey reef sharks (*Carcharhinus amblyrhynchos*) in semi-isolated coral reef habitats, *Marine Biology*, vol. 162, no. 2, pp. 343-358, doi:10.1007/s00227-014-2572-x

Speed, CW, Meekan, MG, Field, IC, McMahan, C, Harcourt, R, Stevens, JD, Babcock, R, Pillans, R, Bradshaw, CJA 2015, Reef shark movements relative to a coastal marine protected area, *Regional Studies in Marine Science*, doi:10.1016/j.rsma.2015.05.002

Dudgeon, C, Pollock, KH, Semmens, J, Barnett, A 2015, Integrating acoustic telemetry into mark-recapture models to improve the precision of apparent survival and abundance estimates, *Oecologia*, vol. 178, no. 3, pp. 761-772

- Escalle, L, Speed, CW, Meekan, MG, White, W, Babcock, R, Pillans, R, Huveneers, C 2015, Restricted movements and mangrove dependency of the nervous shark *Carcharhinus caudatus* in nearshore coastal waters, *Journal of Fish Biology*, vol. 87, no. 2, pp. 323-341
- Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2015, Assessing environmental correlates of fish movement on a coral reef, *Coral Reefs*, vol. 34, no. 4, pp. 1267-1277, doi:10.1007/s00338-015-1318-7
- Munroe, S, Heupel, M, Simpfendorfer, C 2015, Nearshore movement ecology of a medium-bodied shark the creek whaler, *Animal Biotelemetry*, vol. 3, doi:10.1189/s40317-015-0026-y
- Ledee, E, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Movements and space use of giant trevally in coral reef habitats and the importance of environmental drivers, *Animal Biotelemetry*, vol. 3, no. 1, pp. 1-14, doi:10.1186/s40317-015-0024-0
- Ledee, E, Heupel, M, Tobin, A, Knip, D, Simpfendorfer, C 2015, A comparison between traditional kernel-based methods and network analysis: an example from two nearshore shark species, *Animal Behaviour*, vol. 103, pp. 17-28
- Labrousse, S, Vacquie-Garcia, J, Heerah, K, et. al. 2015, Winter use of sea ice and ocean water mass habitat by southern elephant seals: the length and breadth of the mystery, *Progress in Oceanography*, vol. 137, no. Part A, pp. 52-68, doi:10.1016/j.pocean.2015.05.023
- Heerah, K, Hindell, MA, Guinet, C, Charrassin, J-B 2015, From high-resolution to low-resolution dive datasets: a new index to quantify the foraging effort of marine predators, *Animal Biotelemetry*, vol. 3, no. 42, doi:10.1186/s40317-015-0074-3
- Munroe, S, Heupel, M, Fisk, AT, Simpfendorfer, C 2015, Regional movement patterns of a small-bodied shark revealed by stable-isotope analysis, *Journal of Fish Biology*, vol. 86, no. 5, pp. 1567-1586
- Glasby, TM, Gibson, PT, West, G, Voerman, SR 2015, Range and habitat associations of the native *Caulerpa filiformis* in New South Wales, Australia, *Marine and Freshwater Research*, vol. 1, doi:10.1071/MF14282
- Gannon, R, Payne, N, Suthers, I, Gray, C, van der Meulen, D, Taylor, M 2015, Fine-scale movements, site fidelity and habitat use of an estuarine dependent sparid, *Environmental Biology of Fishes*, vol. 98, no. 6, pp. 1599-1608, doi:10.1007/s10641-015-0385-5
- Heupel, M, Simpfendorfer, C 2015, Long-term movement patterns of a coral reef predator, *Coral Reefs*, vol. 34, pp. 679-691, doi:10.1007/s00338-015-1272-4
- Lee, K, Huveneers, C, Peddemors, V, Harcourt, R 2015, Born to be free? Assessing the viability of releasing captive-bred wobbegongs to restock depleted populations, *Frontiers in Marine Science*, vol. 2, doi:10.3389/fmars.2015.00018
- Meeuwig, J, Harcourt, R, Whoriskey, F 2015, When science places threatened species at risk, *Conservation Letters*, vol. 8, no. 3, pp. 151-152, doi:10.1111/conl.12185
- Hussey, NE, Kessel, ST, Cooke, SJ, et. al. 2015, Aquatic animal telemetry: a panoramic window into the underwater world, *Science*, vol. 348, no. 6240, doi:10.1126/science.1255642
- Zeh, D, Heupel, M, Hamman, M, Limpus, C, Marsh, H 2016, Quick fix GPS technology highlights risk to dugongs moving between protected areas, *Endangered Species Research*, vol. 30, pp. 37-34, doi:http://dx.doi.org/10.3354/esr00725
- Jonsen, I 2016, Joint estimation over multiple individuals improves behavioural state inference from animal movement data, *Scientific Reports*, vol. 6, doi:10.1038/srep20625
- McCauley, R, Cato, D 2016, Evening choruses in the Perth Canyon and their potential link with Myctophidae fishes, *Journal of Acoustical Society of America*, vol. 140, no. 4, pp. 2384-2398, doi:10.1121/1.4964108
- McGowan, J, Beger, M, Lewison, R, Harcourt, R, Campbell, H, et. al. 2016, Integrating research using animal-borne telemetry with the needs of conservation management, *Journal of Applied Ecology*, doi:10.1111/1365-2664.12755
- Hays, GC, Ferreira, LC, Sequeira, A, Meekan, MG, Duarte, CM 2016, Key questions in marine megafauna movement ecology, *Trends in Ecology and Evolution*, vol. 31, no. 6, pp. 463-475, doi:10.1016/j.tree.2016.02.015
- Ledee, E, Heupel, M, Tobin, A, Mapleston, A, Simpfendorfer, C 2016, Movement patterns of two carangid species in inshore habitats characterised using network analysis, *Marine Ecology Progress Series*, vol. 553, pp. 219-232, doi:10.3354/meps11777
- Pascoe, P, Lea, MA, Mattlin, R, et. al. 2016, Assessing the utility of two-and three-dimensional behavioural metrics in habitat usage models, *Marine Ecology Progress Series*, vol. 562, pp. 181-192, doi:10.3354/meps11947

- Heerah, K, Hindell, MA, Andrews-Goff, V, Field, IC, McMahon, C, Charrassin, J-B 2016, Contrasting behavior between two populations of an ice-obligate predator in East Antarctica, *Ecology and Evolution*, vol. 7, no. 2, pp. 606-618, doi:10.1002/ece3.2652
- Munroe, S, Simpfendorfer, C, Heupel, M 2016, Variation in blacktip shark movement patterns in a tropical coastal bay, *Environmental Biology of Fishes*, vol. 99, pp. 377-389, doi:10.1007/s10641-016-0480-2
- Chin, A, Tobin, A, Heupel, M, Simpfendorfer, C 2016, Population organisation in reef sharks: new variations in coastal habitat use by mobile marine predators, *Marine Ecology Progress Series*, vol. 544, pp. 197-211, doi:10.3354/meps11545
- Matley, J, Heupel, M, Fisk, AT, Simpfendorfer, C, Tobin, A 2016, Measuring niche overlap between co-occurring *Plectropomus* spp. using acoustic telemetry and stable isotopes, *Marine and Freshwater Research*, doi:10.1071/MF16120
- Tamura, T, Ohshima, KI, Fraser, AD, Williams, G 2016, Sea ice production variability in Antarctic coastal polynyas, *Journal of Geophysical Research - Oceans*, vol. 121, no. 5, pp. 2967-2979, doi:10.1002/2015JC011537
- Hindell, MA, McMahon, C, Bester, M, et, al. 2016, Circumpolar habitat use in the southern elephant seal: implications for foraging success and population trajectories, *Ecosphere*, vol. 7, no. 5, e01213, doi:10.1002/ecs2.1213
- Armansin, N, Lee, K, Huvaneers, C, Harcourt, R 2016, Integrating social network analysis and fine-scale positioning to characterise the associations of a benthic shark, *Animal Behaviour*, vol. 115, pp. 245-258, doi:10.1016/j.anbehav.2016.02.014
- Block, BA, Holbrook, CM, Simmons, S, et, al. 2016, Toward a national animal telemetry network for aquatic observations in the United States, *Animal Biotelemetry*, vol. 4, no. 6, doi:10.1186/s40317-015-0092-1
- Huvaneers, C, Simpfendorfer, C, Kim, S, Semmens, J, Hobday, A, Pederson, H, Stieglitz, T, Vallee, R, Webber, D, Heupel, M, Peddemors, V, Harcourt, R 2016, The influence of environmental parameters on the performance and detection range of acoustic receivers, *Methods in Ecology and Evolution*, vol. 7, no. 7, pp. 825-835, doi:10.1111/2041-210X.12520
- Udyawer, V, Simpfendorfer, C, Read, M, Hamman, M, Heupel, M 2016, Exploring habitat selection in sea snakes using passive acoustic monitoring and Bayesian hierarchical models, *Marine Ecology Progress Series*, vol. 546, pp. 249-262, doi:10.3354/meps11632
- Crossin, G, Heupel, M, Holbrook, CM, Hussey, NE, Lowerre-Barbieri, N, Nguyen, V, et, al. 2016, Acoustic telemetry and fisheries management, *Ecological Applications*, vol. 27, no. 4, pp. 1031-1049, doi:10.1002/eap.1533
- Williams, G, Herraiz-Borreguero, L, Roquet, F, Tamura, T, et, al. 2016, The suppression of Antarctic bottom water formation by melting ice shelves in Prydz Bay, *Nature Communications*, vol. 7, 12577, doi:10.1038/ncomms12577
- Bestley, S, Jonsen, I, Harcourt, R, Hindell, MA, Gales, N 2016, Putting the behaviour into animal movement modelling: improved activity budgets from use of ancillary tag information, *Ecology and Evolution*, vol. 6, no. 22, pp. 8243-8255, doi:10.1002/ece3.2530
- Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2016, Evidence of partial migration in a large coastal predator: opportunistic foraging and reproduction as key drivers?, *PLoS One*, vol. 11, no. 2, e0147608, doi:10.1371/journal.pone.0147608
- Steckenreuter, A, Hoenner, X, Huvaneers, C, Simpfendorfer, C, Buscot, MJ, Tattersall, K, Babcock, R, Heupel, M, Meekan, MG, McDowall, P, Peddemors, V, Harcourt, R 2016, Optimising the design of large scale acoustic telemetry curtains, *Marine and Freshwater Research*, vol. 68, no. 8, pp. 1403-1413, doi:10.1071/MF16126
- Whoriskey, F, Hindell, MA 2016, Developments in tagging technology and their contributions to the protection of marine species at risk, *Ocean Development and International Law*, vol. 47, no. 3, pp. 221-232, doi:10.1080/00908320.2016.1194090
- Apostle, R, Gazit, T, Haward, M 2016, Ocean tracking and marine species protection in Australia and Canada: science, technology, and knowledge brokering, *Ocean Development and International Law*, vol. 47, no. 4, pp. 368-377, doi:10.1080/00908320.2016.1229944
- Ferguson, A, Harvey, ES, Knott, N 2016, Herbivore abundance, site fidelity and grazing rates on temperate reefs inside and outside marine reserves, *Journal of Experimental Marine Biology and Ecology*, vol. 478, pp. 96-105, doi:10.1016/j.jembe.2016.02.008
- Bass, N, Mourier, J, Knott, N, Guttridge, T, Brown, C 2016, Long-term migration patterns and bisexual philopatry in a benthic shark species, *Marine and Freshwater Research*, doi:10.1071/MF16122

Labrousse, S, Sallee, J-B, Fraser, AD, Massom, R, Reid, P, Sumner, MD, Guinet, C, McMahon, C, Bailleul, F, Hindell, MA, Charrassin, J-B 2017, Under the sea ice: Exploring the relationship between sea ice and the foraging behaviour of southern elephant seals in East Antarctica, *Progress in Oceanography*, vol. 156, pp. 17-40, doi:10.1016/j.pocean.2017.05.014

Keller, K, Smith, JA, Lowry, M, Taylor, M, Suthers, I 2017, Multispecies presence and connectivity around a designed artificial reef, *Marine and Freshwater Research*, doi:https://doi.org/10.1071/MF16127

Huveneers, C, Stehfest, K, Simpfendorfer, C, Semmens, J, et, al. 2017, Application of the Acoustic Propagation Model to a deep-water cross-shelf curtain, *Methods in Ecology and Evolution*, doi:10.1111/2041-210X.12806

Schlaff, A, Heupel, M, Udyawer, V, Simpfendorfer, C 2017, Biological and environmental effects on activity space of a common reef shark on an inshore reef, *Marine Ecology Progress Series*, vol. 571, pp. 169-181, doi:https://doi.org/10.3354/meps12107

Nguyen, V, Brooks, JL, Young, N, et, al. 2017, To share or not to share in the emerging era of big data: perspectives from fish telemetry researchers on data sharing, *Canadian Journal of Fisheries and Aquatic Sciences*, doi:10.1139/cjfas-2016-0261

Taylor, M, Babcock, R, Simpfendorfer, C, Crook, D 2017, Where technology meets ecology: acoustic telemetry in contemporary Australian aquatic research and management, *Marine and Freshwater Research*, vol. 68, pp. 1397-1402, doi:http://dx.doi.org/10.1071/MF17054

McMahon, C, Harcourt, R, Burton, HR, Hindell, MA 2017, Seal mothers expend more on offspring under favourable conditions and less when resources are limited, *Journal of Animal Ecology*, vol. 86, no. 2, 370, doi:10.1111/1365-2656.12611

Michelot, T, et, al. 2017, Estimation and simulation of foraging trips in land-based marine predators, *Ecology*, vol. 98, no. 7, pp. 1932-1944, doi:10.1002/ecy.1880

Lee, K, Huveneers, C, Duong, T, Harcourt, R 2017, The ocean has depth: two- versus three-dimensional space use estimators in a demersal reef fish, *Marine Ecology Progress Series*, doi:10.3354/meps12097

Harasti, D, Lee, K, Bruce, B, Gallen, C, Bradford, RW 2017, Juvenile white sharks *Carcharodon carcharias* use estuarine environments in south-eastern Australia, *Marine Biology*, vol. 164, no. 3, pp. 1-14, doi:10.1007/s00227-017-3087-z

Pillans, R, Babcock, R, Thomson, D, et, al. 2017, Habitat effects on home range and schooling behaviour in a herbivorous fish (*Kyphosus bigibbus*) revealed by acoustic tracking, *Marine and Freshwater Research*, doi:10.1071/MF16199

McCauley, R, Bruce, B, Keay, I, Mountford, S, Pinnell, T, Whoriskey, F 2017, Broad-scale coastal movements of white sharks off Western Australia described by passive acoustic telemetry data, *Marine and Freshwater Research*, doi:10.1071/MF16222

Labrousse, S, Sallee, J-B, Fraser, AD, Massom, R, et, al. 2017, Variability in sea ice cover and climate elicit sex specific responses in an Antarctic predator, *Scientific Reports*, vol. 7, 43236, doi:10.1038/srep43236

Rodriguez, J, Fernandez-Gracia, J, Thums, M, Hindell, MA, et, al. 2017, Big data analyses reveal patterns and drivers of the movements of southern elephant seals, *Scientific Reports*, vol. 7, 112, doi:10.1038/s41598-017-00165-0

Meekan, MG, Duarte, CM, Fernandez-Gracia, J, Thums, M, Sequeira, A, Harcourt, R 2017, The Ecology of Human Mobility, *Trends in Ecology and Evolution*, vol. 32, no. 3, pp. 198-210, doi:10.1016/j.tree.2016.12.006

Fowler, A, Huveneers, C, Lloyd, M 2017, Insights into movement behaviour of snapper (*Chrysophrys auratus*, Sparidae) from a large acoustic array, *Marine and Freshwater Research*, doi:10.1071/MF16121

Clausius, E, McMahon, C, Harcourt, R, Hindell, MA 2017, The effect of climate variability on weaning mass in a declining population of southern elephant seals *Mirounga leonina*, *Marine Ecology Progress Series*, doi:10.3354/meps12085

Journal Count

168

Wireless sensor networks

Bainbridge, S, Steinberg, C, Heron, M 2010, Integrating observations: an example from the Great Barrier Reef, lessons from the reef on why integration matters and why achieving integration is harder than it looks, *Sea Technology*, vol. 51, no. 8, pp. 33-38

Woolsey, E, Bainbridge, S, Kingsford, MJ, Byrne, M 2011, Impacts of cyclone Hamish at One Tree Reef: integrating environmental and benthic habitat data , *Marine Biology*, vol. 159, no. 4, pp. 793-803, doi:10.1007/s00227-011-1855-8

Bainbridge, S, Eggeling, D, Page, G 2011, Lessons from the field - Two years of deploying operational wireless sensor networks on the Great Barrier Reef, *Sensors*, vol. 11, no. 7, pp. 6842-6855, doi:10.3390/s110706842

Hollier, W, Rau, G, Dicks, A, Bainbridge, S 2011, Reef climate adaptation research and technology, *International Journal of Climate Change: Impacts and Responses*, vol. 2, no. 4, pp. 127-142

Leahy, SM, Kingsford, MJ, Steinberg, C 2013, Do clouds save the Great Barrier Reef? Satellite imagery elucidates the cloud-SST relationship at the local scale , *PLoS One*, vol. 8, no. 7, doi:10.1371/journal.pone.0070400

Lukoschek, V, Cross, P, Torda, G, Zimmerman, R, Willis, B 2013, The importance of coral larval recruitment for the recovery of reefs impacted by Cyclone Yasi in the Central Great Barrier Reef, *PLoS One*, vol. 8, e65363, doi:10.1371/journal.pone.0065363

Woolsey, E, Byrne, M, Baird, A 2013, The effects of temperature on embryonic development and larval survival in two scleractinian corals, *Marine Ecology Progress Series*, vol. 493, pp. 179-184, doi:10.3354/meps10499

Phinn, SR, Tilbrook, B, Steven, A, Shaw, E 2014, Comparability of slack water and Lagrangian flow respirometry methods for community metabolic measurements, *PLoS One*, vol. 9, e112161, doi:10.1371/journal.pone.0112161

Woolsey, E, Keith, S, Byrne, M, Schmidt-Roach, S, Baird, A 2014, Latitudinal variation in thermal tolerance thresholds of early life stages of corals, *Coral Reefs*, vol. 34, pp. 471-478, doi:10.1007/s00338-014-1253-2

null

Shaw, E, Phinn, SR, Tilbrook, B, Steven, A 2015, Natural in situ relationships suggest coral reef calcium carbonate production will decline with ocean acidification, *Limnology and Oceanography*, vol. 60, no. 3, pp. 777-788, doi:10.1002/lno.10048

Bainbridge, S 2017, Temperature and light patterns at four reefs along the Great Barrier Reef during the 2015–2016 austral summer: understanding patterns of observed coral bleaching, *Journal of Operational Oceanography*, vol. 10, no. 1, pp. 16-29, doi:10.1080/1755876X.2017.1290863

Wolfe, K, Byrne, M 2017, Biology and ecology of the vulnerable holothuroid, *Stichopus herrmanni*, on a high-latitude coral reef on the Great Barrier Reef, *Coral Reefs*, doi:10.1007/s00338-017-1606-5

Journal Count

12

Australian Ocean Data Network

De Mey, P, Craig, P, Davidson, F, Edwards, CA, Ishikawa, Y, Kindle, JC, Proctor, R, Thompson, KR, Zhu, J, et, al. 2009, Applications in coastal modelling and forecasting, *Oceanography*, vol. 22, no. 3, pp. 198-205

Hill, K, Moltmann, T, Proctor, R, Allen, S 2010, The Australian Integrated Marine Observing System: delivering data streams to address national and international research priorities, *Marine Technology Society Journal*, vol. 44, no. 6, pp. 65-72, doi:10.4031/MTSJ.44.6.13

Proctor, R, Roberts, K, Ward, BJ 2010, A data delivery system for IMOS, the Australian Integrated Marine Observing System, *Advances in Geosciences*, vol. 28, pp. 11-16, doi:10.5194/adgeo-28-11-2010

Holt, J, Hughes, S, Hopkins, J, Wakelin, S, Holliday, P, Dye, S, Gonzalez-Pola, C, Saetre-Hjollo, S, Mork, KA, Nolan, G, Proctor, R, Read, J, Shammon, T, Sherwin, T, Smyth, T, Tattersall, G, Ward, B, Wiltshire, KH 2012, Multi-decadal variability and trends in the temperature of the northwest European continental shelf: a model-data synthesis, *Progress in Oceanography*, vol. 106, pp. 96-117, doi:10.1016/j.pocean.2012.08.001

Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M 2015, The Marine Virtual Laboratory: enabling efficient ocean model configuration, *Geoscientific Model Development* , vol. 8, pp. 9741-9768, doi:10.5194/gmdd-8-9741-2015

Raes, E, Thompson, P, McInnes, AS, Nguyen, HM, Hardman-Mountford, NJ, Waite, A 2015, Sources of new nitrogen in the Indian Ocean, *Global Biogeochemical Cycles*, vol. 29, no. 8, pp. 1283-1297, doi:10.1002/2015GB005194

Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M, Sandery, PA, Schaeffer, A, Wijeratne, S 2016, The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 9, no. 9, pp. 3297-3307, doi:10.5194/gmd-9-3297-2016

Hidas, MG, Proctor, R, Atkins, N, Atkinson, J, Besnard, L, Blain, P, Bohm, P, Burgess, J, Galibert, G, Hoenner, X, Hope, J, Jones, C, Mancini, S, Pasquer, B, Nahodil, D, Reid, K, Tattersall, K 2016, Information infrastructure for Australia's Integrated Marine Observing System, *Earth Science Informatics*, vol. 9, no. 4, pp. 525-534, doi:10.1007/s12145-016-0266-2

Davies, C, Coughlan, A, Ajani, P, Armbrrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et. al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.43

Lara-Lopez, A, Proctor, R, Moltmann, T 2016, Australia's Integrated Marine Observing System (IMOS) - Data impacts and lessons learned, *Marine Technology Society Journal*, vol. 50, no. 3, pp. 23-33, doi:10.4031/MTSJ.50.3.1

Melbourne-Thomas, J, Constable, A, Fulton, EA, Corney, S, et. al. 2017, Integrated modelling to support decision-making for marine social–ecological systems in Australia, *ICES Journal of Marine Science*, doi: <https://doi.org/10.1093/icesjms/fsx078>

Journal Count

11

Satellite remote sensing

Maynard, J, Turner, P, Anthony, KR, Baird, A, Berkelmans, R, Eakin, CM, Johnson, J, Marshall, P, Packer, G, Rea, A, Willis, B 2008, An interactive monitoring system for coral bleaching using high-resolution SST and improved stress predictors, *Geophysical Research Letters*, vol. 35, doi:10.1029/2007GL032175

Schiller, A, Ridgway, K, Steinberg, C, Oke, PR 2009, Dynamics of three anomalous SST events in the Coral Sea, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL036997

Ridgway, K, Dunn, JR 2010, Satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/j.dsr.2010.05.010.

Bainbridge, S, Steinberg, C, Heron, M 2010, Integrating observations: an example from the Great Barrier Reef, lessons from the reef on why integration matters and why achieving integration is harder than it looks, *Sea Technology*, vol. 51, no. 8, pp. 33-38

Weller, E, Holliday, D, Feng, M, Beckley, L, Thompson, P 2011, A continental shelf scale examination of the Leeuwin Current off Western Australia during the austral autumn-winter, *Continental Shelf Research*, vol. 31, pp. 1858-1868, doi:10.1016/j.csr.2011.08.008

Neuheimer, AB, Thresher, RE, Lyle, J, Semmens, J 2011, Tolerance limit for fish growth exceeded by warming waters, *Nature Climate Change*, vol. 1, pp. 110-113, doi:10.1038/nclimate1084

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling coastal connectivity in a western boundary current: seasonal and inter-annual variability, *Deep Sea Research Part II*, vol. 58, pp. 628-644, doi:10.1016/j.dsr2.2010.06.004

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R 2011, Absolute calibration in Bass Strait, Australia: TOPEX, Jason-1 and OSTM/Jason-2, *Marine Geodesy*, vol. 34, no. 3-4, pp. 242-260, doi:10.1080/01490419.2011.584834

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling seasonal and interannual variability in a western boundary current and its impact on coastal connectivity, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 628-644, doi:10.1016/J.dsr2.2010.06.009

Feng, M, Boning, CW, Biastoch, A, Behrens, E, Weller, E, Masumoto, Y 2011, The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian throughflow and Leeuwin Current transports, *Geophysical Research Letters*, vol. 38, no. 11, doi:10.1029/2011GL047291

Mullaney, TJ, Miskewic, AG, Baird, ME, Burns, PTP, Suthers, I 2011, Entrainment of larval fish assemblages from the inner shelf into the East Australian Current, *Fisheries Oceanography*, vol. 20, pp. 434-447, doi:10.1111/j.1365-2419.2011.00594.x

Coleman, M, Roughan, M, MacDonald, HS, Connell, SD, Gillanders, B, Kelaher, BP, Steinberg, C 2011, Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp, *Journal of Ecology*, vol. 99, no. 4, pp. 1026-1032, doi:10.1111/j.1365-2745.2011.01822.x

- Pearce, A, Slawinski, D, Feng, M, Hutchins, B, Fearn, PRCS 2011, Modelling the potential transport of tropical fish larvae in the Leeuwin Current, *Continental Shelf Research*, vol. 31, pp. 2018-2040, doi:10.1016/j.csr.2011.10.006
- Oke, PR, Sakov, P 2012, Assessing the footprint of a regional ocean observing system., *Journal of Marine Systems*, vol. 105, pp. 30-51, doi:10.1016/j.jmarsys.2012.05
- Everett, JD, Baird, ME, Oke, PR, Suthers, I 2012, An avenue of eddies: quantifying the biophysical properties of mesoscale eddies in the Tasman Sea, *Geophysical Research Letters*, vol. 39, no. 16, L16608, doi:10.1029/2012GL053091
- Wu, L, Cai, W, Zhang, L, Nakamura, H, Timmermann, A, Joyce, T, McPhaden, M, Alexander, MA, Qiu, B, Visbeck, M, Chang, P, Giese, B 2012, Enhanced warming over the global subtropical western boundary currents, *Nature Climate Change*, no. 2, pp. 161-166, doi:DOI: 10.1038/NCLIMATE1353
- Beggs, H, Verein, R, Paltoglou, G, Kippo, H, Underwood, M 2012, Enhancing ship of opportunity sea surface temperature observations in the Australian region , *Journal of Operational Oceanography*, vol. 5, no. 1, pp. 59-73
- Jones, EM, Oke, PR, Rizwi, F, Murray, LM 2012, Assimilation of glider and mooring data into a coastal ocean model, *Ocean Modelling*, vol. 47, pp. 1-13, doi:10.1016/j.ocemod.2011.12.009
- Johnson, R, Strutton, P, Wright, SW, McMinn, A, Meiners, K 2013, Three improved satellite chlorophyll algorithms for the Southern Ocean, *Journal of Geophysical Research - Oceans*, vol. 118, no. 7, pp. 3694-3703, doi:10.1002/jgrc.20270
- Gaube, P, Chelton, DB, Strutton, P, Behrenfeld, MJ 2013, Satellite observations of chlorophyll, phytoplankton biomass and Ekman pumping in nonlinear mesoscale eddies, *Journal of Geophysical Research - Oceans*, vol. 118, no. 12, pp. 6349-6370, doi:10.1002/2013JCO09027
- Brassington, GB 2013, Multicycle ensemble forecasting of sea surface temperature, *Geophysical Research Letters*, vol. 40, no. 23, 2013GL057752, doi:10.1002/2013GL057752
- Mao, Y, Luick, J 2013, Circulation in the Southern Great Barrier Reef studied through an integration of multiple remote sensing and in-situ measurements, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 1621-1643, doi:10.1002/2013JC009397
- Chiswell, SM 2013, Lagrangian time scales and eddy diffusivity at 1000m compared to the surface in the south Pacific and Indian Oceans, *Journal of Physical Oceanography*, vol. 43, pp. 2718-2732, doi:10.1175/JPO-D-13-044.1
- Johnson, G, Lyman, J, Willis, J, Levitus, S, Boyer, T, Antonov, J, Good, S, Domingues, CM, Wijffels, S, Bindoff, N 2013, Global Oceans: ocean heat content in State of the Climate in 2012 , *Bulletin of the American Meteorological Society*, vol. 94, no. 8, pp. 50-53, doi:10.1175/2013BAMSStateoftheClimate.1
- Couto, AB, Holbrook, N, Maharaj, AM 2013, Unravelling eastern Pacific and central Pacific ENSO contributions in south Pacific chlorophyll-a variability through remote sensing, *Remote Sensing*, vol. 5, no. 8, pp. 4067-4087, doi:10.3390/rs5084067
- Zhang, Z, Falter, J, Lowe, R, Ivey, GN 2013, Atmospheric forcing intensifies the effects of regional ocean warming on reef-scale temperature anomalies during a coral bleaching event, *Journal of Geophysical Research - Oceans*, vol. 118, no. 9, pp. 4600-4616, doi:10.1002/jgrc.20338
- Leahy, SM, Kingsford, MJ, Steinberg, C 2013, Do clouds save the Great Barrier Reef? Satellite imagery elucidates the cloud-SST relationship at the local scale , *PLoS One*, vol. 8, no. 7, doi:10.1371/journal.pone.0070400
- Weeks, S, Steinberg, C, Congdon, BC 2013, Oceanography and seabird foraging: within-season impacts of increasing sea surface temperature on the Great Barrier Reef, *Marine Ecology Progress Series*, vol. 490, pp. 247-254, doi:10.3354/meps10398
- Spillman, CM, Alves, O, Hudson, DA 2013, Predicting thermal stress for coral bleaching in the Great Barrier Reef using a coupled ocean-atmosphere seasonal forecast model, *International Journal of Climatology*, vol. 33, no. 4, pp. 1001-1014, doi:10.1002/joc.3486
- MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J 2013, A numerical modelling study of the East Australian Current encircling and overwashing a warm-core eddy, *Journal of Geophysical Research - Oceans*, vol. 118, no. 1, pp. 301-315, doi:10.1029/2012JC008386
- Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Herbette, S, Matear, R 2014, Impact of eddies on surface chlorophyll in the south Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 8061-8077, doi:10.1002/2014JC010164

- Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1
- Buchanan, PJ, Swadling, K, Eriksen, C, Wild-Allen, K 2014, New evidence links changing shelf phytoplankton communities to boundary currents in Southeast Tasmania, *Reviews in Fish Biology and Fisheries*, vol. 24, pp. 427-442, doi:10.1007/s11160-013-9312-z
- White, N, Haigh, ID, Church, JA, Koen, T, Watson, C, Pritchard, T, Watson, PJ, Burgette, R, McInnes, KL, You, Z-J, Zhang, X, Tregoning, P 2014, Australian sea levels-trends, regional variability and influencing factors, *Earth-Science Reviews*, vol. 136, pp. 155-174, doi:10.1016/j.earscirev.2014.05.011
- Matis, P, Figueria, W, Suthers, I, Humphries, J, Miskiewic, AG, Coleman, R, Kelaher, BP, Taylor, M 2014, Cyclonic entrainment? The ichthyoplankton attributes of three major water mass types generated by the separation of the East Australian Current, *ICES Journal of Marine Science*, vol. 71, pp. 1696-1705, doi:10.1093/icesjms/fsu062
- Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012
- Sawstrom, C, Beckley, L, Saunders, M, Thompson, P, Waite, A 2014, The zooplankton prey field for rock lobster phyllosoma larvae in relation to oceanographic features of the south-eastern Indian Ocean, *Journal of Plankton Research*, vol. 36, no. 4, pp. 1003-1016, doi:10.1093/plankt/fbu019
- Rossi, V, Schaeffer, A, Wood, JE, Galibert, G, Morris, BD, Sudre, J, Roughan, M, Waite, A 2014, Seasonality of sporadic physical processes driving temperature and nutrient high-frequency variability in the coastal ocean off Southeast Australia, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 445-460, doi:10.1002/2013JC009284
- Schaeffer, A, Roughan, M, Wood, JE 2014, Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 4922-4939, doi:10.1002/2013JC009735
- de Lestang, S 2014, The orientation and migratory dynamics of the western rock lobster, *Panulirus cygnus*, in Western Australia, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1052-1063, doi:10.1093/icesjms/fst205
- Miles, E, Spillman, CM, Church, JA, Mcintosh, P 2014, Seasonal prediction of global sea level anomalies using an ocean-atmosphere dynamical model, *Climate Dynamics*, vol. 43, no. 7-8, pp. 2131-2145, doi:10.1007/s00382-013-2039-7
- Sandery, PA, O'Kane, TJ 2014, Coupled initialization in an ocean-atmosphere tropical cyclone prediction system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 678, pp. 82-95, doi:10.1002/qj.2117
- Everett, JD, Baird, ME, Roughan, M, Suthers, I, Doblin, MA 2014, Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a western boundary current, *Progress in Oceanography*, vol. 120, pp. 340-351, doi:10.1016/j.pocean.2013.10.016
- Henschke, N, Everett, JD, Doblin, MA, et. al. 2014, Demography and interannual variability of salp swarms (*Thalia democratica*), *Marine Biology*, vol. 161, no. 1, pp. 149-163, doi:10.1007/s00227-013-2325-2
- Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M 2014, Long-term trends in the East Australian Current separation latitude and eddy driven transport, *Journal of Geophysical Research - Oceans*, vol. 119, doi:10.1002/2014JC010071
- Capelle, V, et. al. 2014, Evaluation of IASI-derived dust aerosol characteristics over the tropical belt, *Climatic Change*, vol. 14, pp. 9343-9362, doi:10.5194/acp-14-9343-2014
- Verges, A, Steinberg, P, Hay, ME, Poore, AG, Campbell, AH, Ballesteros, E, Heck, K, Booth, D, Coleman, M, Feary, DA, Figueria, W, Langlois, TJ, Marzinelli, EM, Mizerek, T, Mumby, P, Nakamura, Y, Roughan, M, van Sebille, E, Sen Gupta, AS, Smale, DA, Tomas, F, Wernberg, T, Wilson, SK 2014, The tropicalization of temperate marine ecosystems: climate-mediated changes in herbivory and community phase shifts, *Proceedings of the Royal Society Series B*, vol. 281, no. 1789, doi:10.1098/rspb.2014.0846
- Garde, L, Spillman, CM, Heron, SF, Beeden, R 2014, ReefTemp Next Generation: a new operational system for monitoring reef thermal stress, *Journal of Operational Oceanography*, vol. 7, no. 1, pp. 21-33
- Metcalfe, SJ, van Putten, I, Frusher, SD, et. al. 2015, Measuring the vulnerability of marine social-ecological systems: a prerequisite for the identification of climate change adaptations, *Ecology and Society*, vol. 20, no. 2, 35, doi:10.5751/ES-

07509-200235

Henschke, N, Smith, JA, Everett, JD, Suthers, I 2015, Population drivers of a *Thalia democratica* swarm: insights from population modelling, *Journal of Plankton Research*, vol. 0, no. 0, pp. 1-14, doi:10.1093/plankt/fbv024

Rykova, T, Oke, PR 2015, Recent freshening of the East Australian Current and its eddies, *Geophysical Research Letters*, vol. 42, no. 21, pp. 9369-9378, doi:10.1002/2015GL066050

Merrifield, M, et, al. 2015, Global Oceans: sea level variability and change in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 82-85, doi:10.1175/2015BAMSStateoftheClimate.1

Keating, S, Shafer Smith, KS 2015, Upper ocean flow statistics estimated from superresolved sea-surface temperature images, *Journal of Geophysical Research - Oceans*, vol. 120, no. 2, pp. 1197-1214, doi:10.1002/2014JC010357

Armbrecht, L, Schaeffer, A, Roughan, M, Armand, L 2015, Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~30 degrees S) of Eastern Australia, *Journal of Marine Systems*, vol. 144, pp. 92-106, doi:10.1016/j.jmarsys.2014.11.008

Moore, TS, Campbell, JW, Feng, H 2015, Characterising the uncertainty in spectral remote sensing reflectance for SeaWiFS and MODIS-Aqua based on global in-situ match data sets, *Remote Sensing of Environment*, vol. 159, pp. 14-27

Frouin, R, Pelletier, B 2015, Bayesian methodology for inverting satellite ocean-color data, *Remote Sensing of Environment*, vol. 159, pp. 332-360, doi:10.1016/j.rse.2014.12.001

Mao, Y, Ridd, P 2015, Sea surface temperature as a tracer to estimate cross-shelf turbulent diffusivity and flushing time in the Great Barrier Reef lagoon, *Journal of Geophysical Research - Oceans*, vol. 120, no. 6, pp. 4487-4502, doi:10.1002/2015JC010745

Henschke, N, Everett, JD, Suthers, I, Doblin, MA, Hunt, BPV, Taylor, M 2015, Zooplankton trophic niches respond to different water types of the western Tasman Sea: a stable isotope analysis, *Deep Sea Research Part I*, vol. 104, pp. 1-8, doi:10.1016/j.dsr.2015.06.010

Verron, J, Sengenès, P, Lambin, J, et, al. 2015, The SARAL/AltiKa altimetry satellite mission, *Marine Geodesy*, doi:10.1080/01490419.2014.1000471

Everett, JD, Doblin, MA 2015, Characterising primary productivity measurements across a dynamic western boundary current region, *Deep Sea Research Part I*, vol. 100, pp. 105-116, doi:10.1016/j.dsr.2015.02.010

Lathlean, JA, McWilliam, RA, Ayre, DJ, Minchinton, TE 2015, Biogeographical patterns of rocky shore community structure in south-east Australia: effects of oceanographic conditions and heat stress, *Journal of Biogeography*, vol. 42, pp. 1538-1552, doi:10.1111/jbi.12511

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Global Oceans: Ocean Heat Content in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Everett, JD, MacDonald, HS, Baird, ME, Humphries, J, Roughan, M, Suthers, I 2015, Cyclonic entrainment of preconditioned shelf waters into a frontal eddy, *Journal of Geophysical Research - Oceans*, vol. 120, pp. 677-691, doi:10.1002/2014JC010301

Raes, E, Thompson, P, McInnes, AS, Nguyen, HM, Hardman-Mountford, NJ, Waite, A 2015, Sources of new nitrogen in the Indian Ocean, *Global Biogeochemical Cycles*, vol. 29, no. 8, pp. 1283-1297, doi:10.1002/2015GB005194

Watson, C, White, N, Church, JA, King, M, Burgette, R, Legresy, B 2015, Unabated global mean sea-level rise over the satellite altimeter era, *Nature Climate Change*, vol. 5, pp. 565-568, doi:10.1038/NCLIMATE2635

Jones, EM, Doblin, MA, Matear, R, King, E 2015, Assessing and evaluating the ocean-colour footprint of a regional observing system, *Journal of Marine Systems*, vol. 143, pp. 49-61, doi:10.1016/j.jmarsys.2014.10.012

Kowalczyk, N, Reina, R, Preston, T, Chiaradia, A 2015, Selective foraging within estuarine plume fronts by an inshore resident seabird, *Frontiers in Marine Science*, vol. 2, no. 42, doi:10.3389/fmars.2015.00042

Nechad, B, Ruddick, K, Schroeder, T, et, al. 2015, The CoastColour Round Robin datasets: a database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters, *Earth System Science Data*, vol. 8, pp. 173-258, doi:10.5194/essdd-8-173-2015

- Oke, PR, Larnicol, G, Jones, EM, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080
- Morrison, A, England, MH, Hogg, A 2015, Response of Southern Ocean convection and abyssal overturning to surface buoyancy perturbations, *Journal of Climate*, vol. 28, no. 10, pp. 4263-4278, doi:10.1175/JCLI-D-14-00110.1
- Martin, MJ, Balmaseda, MA, Bertino, L, Brasseur, P, Brassington, GB, Cummings, J, Fujii, Y, Lea, D, Lellouche, JM, Mogensen, K, Oke, PR, et, al. 2015, Status and future of data assimilation in operational oceanography, *Journal of Operational Oceanography*, vol. 8, pp. 28-48, doi:10.1080/1755876X.2015.1022055
- LeTraon, P, Antoine, D, et, al. 2015, Use of satellite observations for operational oceanography: recent achievements and future prospects, *Journal of Operational Oceanography*, vol. 8, pp. 12-27, doi:10.1080/1755876x.2015.1022050
- Divakaran, P, Brassington, GB, Ryan, A, Regnier, C, Spindler, T, Mehra, A, Hernandez, F, Smith, G, Liu, Y, Davidson, F 2015, GODAE OceanView inter-comparison for the Australian region, *Journal of Operational Oceanography*, vol. 8, pp. 112-126, doi:10.1080/1755876X.2015.1022333
- Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M 2015, The Marine Virtual Laboratory: enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 8, pp. 9741-9768, doi:10.5194/gmdd-8-9741-2015
- Bell, M, Schiller, A, LeTraon, P, Smith, NR, Dombrowsky, E, Wilmer-Becker, K 2015, An introduction to GODAE OceanView, *Journal of Operational Oceanography*, vol. 8, pp. 8-11, doi:10.1080/1755876X.2015.1022041
- Balmaseda, MA, Hernandez, F, Storto, A, Palmer, MD, Alves, O, Shi, L, Smith, G, et, al. 2015, The Ocean Reanalyses Intercomparison Project (ORA-IP), *Journal of Operational Oceanography*, vol. 8, pp. 80-97, doi:10.1080/1755876X.2015.1022329
- Xu, J, Lowe, R, Ivey, GN, Jones, N, Brinkman, GW 2015, Observations of the shelf circulation dynamics along Ningaloo Reef, Western Australia during the austral spring and summer, *Continental Shelf Research*, vol. 95, pp. 54-73, doi:10.1016/j.csr.2014.12.013
- Sloyan, B, O'Kane, TJ 2015, Drivers of decadal variability in the Tasman Sea, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3193-3210, doi:10.1002/2014JC010550
- Klocker, A, Marshall, DP, Keating, S 2016, A regime diagram for ocean geostrophic turbulence, *Quarterly Journal of the Royal Meteorological Society*, doi:10.1002/qj.2833
- Zhang, H, Beggs, H, Wang, XH, Kiss, A, Griffin, C 2016, Seasonal patterns of SST diurnal variation over the Tropical Warm Pool region, *Journal of Geophysical Research - Oceans*, vol. 121, doi:10.1002/2016JC012210
- Margvelashvili, N, Herzfeld, M, Rizwi, F, et, al. 2016, Emulator-assisted data assimilation in complex models, *Ocean Dynamics*, vol. 66, pp. 1109-1112, doi:10.1007/s10236-016-0973-8
- Hobday, A, Alexander, LV, Perkins, SE, Smale, DA, et, al. 2016, A hierarchical approach to defining marine heatwaves, *Progress in Oceanography*, vol. 141, pp. 227-238, doi:10.1016/j.pocean.2015.12.014
- Jones, EM, Baird, ME, Mongin, M, et, al. 2016, Use of remote-sensing reflectance to constrain a data assimilating marine biogeochemical model of the Great Barrier Reef, *Biogeosciences*, vol. 13, pp. 6441-6469, doi:10.5194/bg-13-6441-2016
- Salinger, J, Hobday, A, Matear, R, O'Kane, TJ, et, al. 2016, Decadal-scale forecasting of climate drivers for marine applications, *Advances in Marine Biology*, vol. 74, pp. 1-68, doi:10.1016/bs.amb.2016.04.002
- Colombelli-Negrel, D 2016, Both natural selection and isolation by distance explain phenotypic divergence in bill size and body mass between South Australian little penguin colonies, *Ecology and Evolution*, vol. 6, no. 22, pp. 7965-7975, doi:10.1002/ece3.2516
- Laiolo, L, McInnes, AS, Matear, R, Doblin, MA 2016, Key drivers of seasonal plankton dynamics in cyclonic and anticyclonic eddies off east Australia, *Frontiers in Marine Science*, vol. 3, doi:10.3389/fmars.2016.00155
- Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Matear, R 2016, Anticyclonic eddies are more productive than cyclonic eddies in subtropical gyres because of winter mixing, *Science Advances*, vol. 2, no. 5, e1600282-e1600282
- Zhang, H, Beggs, H, Majewski, L, Wang, XH, Kiss, A 2016, Investigating sea surface temperature diurnal variation over the Tropical Warm Pool using MTSAT-1R data, *Remote Sensing of Environment*, vol. 183, pp. 1-12, doi:10.1016/j.rse.

- Caputi, N, Kangas, M, Hetzel, Y, Denham, A, Pearce, A, Chandrapavan, A 2016, Management adaptation of invertebrate fisheries to an extreme marine heat wave event at a global warming hot spot, *Ecology and Evolution*, vol. 6, no. 11, 3593, doi:10.1002/ece3.2137
- Valente, A, et, al. 2016, A compilation of global bio-optical in situ data for ocean-colour satellite applications, *Earth System Science Data*, vol. 8, pp. 235-252, doi:10.5194/essd-8-235-2016
- Bosserel, C, Abdo, DA, Evans, SN, Markey, KL 2016, Keeping it local: dispersal limitations of coral larvae to the high latitude coral reefs of the Houtman Abrolhos islands, *PLoS One*, vol. 11, no. 1, e0147628, doi:10.1371/journal.pone.0147628
- Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M, Sandery, PA, Schaeffer, A, Wijeratne, S 2016, The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 9, no. 9, pp. 3297-3307, doi:10.5194/gmd-9-3297-2016
- Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485
- Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016
- Tu, Q 2016, SST Diurnal Warming in the China Seas and Northwestern Pacific Ocean using MTSAT satellite observations, *Acta Oceanologica Sinica*, *Acta Oceanologica Sinica*, vol. 35, no. 12, pp. 12-18, doi:10.1007/s13131-016-0968-9
- Brando, V, Lovell, J, King, E, Scott, R, Schroeder, T 2016, The potential of autonomous ship-borne hyperspectral radiometers for the validation of ocean color radiometry data, *Remote Sensing*, vol. 8, no. 150, doi:10.3390/rs8020150
- Zhang, N, Feng, M, Du, Y, et, al. 2016, Seasonal and interannual variations of mixed layer salinity in the southeast tropical Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 121, pp. 4716-4731, doi:10.1002/2016JC011854
- Cherukuru, N, Davies, P, Brando, V, Anstee, J, Baird, ME, Clementson, L, Doblin, MA 2016, Physical oceanographic processes influence bio-optical properties in the Tasman Sea, *Journal of Sea research*, vol. 110, pp. 1-7, doi:10.1016/j.seares.2016.01.008
- Carroll, G, Everett, JD, Harcourt, R, Slip, D, Jonsen, I 2016, High sea surface temperatures driven by a strengthening current reduce foraging success by penguins, *Nature Scientific Reports*, vol. 6, 22236, doi:10.1038/srep22236
- Xu, J, Lowe, R, Ivey, GN, Jones, N, Zhang, Z 2016, Transport pathways to a world heritage fringing coral reef: Ningaloo Reef, Western Australia, *PLoS One*, vol. 11, no. 1, e0145822, doi:10.1371/journal.pone.0145822
- Kamya, PZ, et, al. 2017, Indirect effects of ocean acidification drive feeding and growth of juvenile crown-of-thorns starfish, *Acanthaster planci*, *Proceedings of the Royal Society Series B*, vol. 284, no. 1856, doi:http://dx.doi.org/10.1098/rspb.2017.0778
- Larsson, ME, Ajani, P, Rubio, AM, Guise, K, McPherson, R, Brett, S, Davies, KP, Doblin, MA 2017, Long-term perspective on the relationship between phytoplankton and nutrient concentrations in a southeastern Australian estuary, *Marine Pollution Bulletin*, vol. 114, no. 1, pp. 227-238, doi:10.1016/j.marpolbul.2016.09.011
- Chen, X, Zhang, X, Church, JA, Watson, C, et, al. 2017, The increasing rate of global mean sea-level rise during 1993-2014, *Nature Climate Change*, vol. 7, pp. 492-495, doi:10.1038/nclimate3325
- Fan, Y, Li, W, Gatebe, CK 2017, Atmospheric correction over coastal waters using multilayer neural networks, *Remote Sensing of Environment*, vol. 199, pp. 218-240, doi:http://dx.doi.org/10.1016/j.rse.2017.07.016
- Wolfe, K, et, al. 2017, Superstars: Assessing nutrient thresholds for enhanced larval success of *Acanthaster planci*, a review of the evidence, *Marine Pollution Bulletin*, vol. 116, no. 1-2, pp. 307-314, doi:10.1016/j.marpolbul.2016.12.079
- Lee, K, Huveneers, C, Duong, T, Harcourt, R 2017, The ocean has depth: two- versus three-dimensional space use estimators in a demersal reef fish, *Marine Ecology Progress Series*, doi:10.3354/meps12097
- Roughan, M, Keating, S, Schaeffer, A, Cetina-Heredia, P, Rocha, C, Griffin, DA, Robertson, R, Suthers, I 2017, A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current System, *Journal of Geophysical Research - Oceans*, vol. 122, pp. 2494-2518, doi:10.1002/2016JC012241

IMOS Office

Hill, K, Moltmann, T, Proctor, R, Allen, S 2010, The Australian Integrated Marine Observing System: delivering data streams to address national and international research priorities, *Marine Technology Society Journal*, vol. 44, no. 6, pp. 65-72, doi:10.4031/MTSJ.44.6.13

Constable, A, Costa, D, Schofield, O, Newman, L, Urban, E, Fulton, EA, Melbourne-Thomas, J, et. al. 2016, Developing priority variables ("ecosystem Essential Ocean Variables" - eEOVs) for observing dynamics and change in Southern Ocean ecosystems, *Journal of Marine Systems*, vol. 161, pp. 26-41, doi:10.1016/j.jmarsys.2016.05.003

Lara-Lopez, A, Proctor, R, Moltmann, T 2016, Australia's Integrated Marine Observing System (IMOS) - Data impacts and lessons learned, *Marine Technology Society Journal*, vol. 50, no. 3, pp. 23-33, doi:10.4031/MTSJ.50.3.1

Melbourne-Thomas, J, Constable, A, Fulton, EA, Corney, S, et. al. 2017, Integrated modelling to support decision-making for marine social-ecological systems in Australia, *ICES Journal of Marine Science*, doi: <https://doi.org/10.1093/icesjms/fsx078>

Journal Count

4

OceanCurrent

Patterson, J, Nayar, S, Mitchell, J, Seuront, L 2012, A local upwelling controls viral and microbial community structure in South Australian continental shelf waters, *Estuarine, Coastal and Shelf Science*, vol. 96, pp. 197-208, doi:10.1016/j.ecss.2011.11.009

Sawstrom, C, Beckley, L, Saunders, M, Thompson, P, Waite, A 2014, The zooplankton prey field for rock lobster phyllosoma larvae in relation to oceanographic features of the south-eastern Indian Ocean, *Journal of Plankton Research*, vol. 36, no. 4, pp. 1003-1016, doi:10.1093/plankt/fbu019

de Lestang, S 2014, The orientation and migratory dynamics of the western rock lobster, *Panulirus cygnus*, in Western Australia, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1052-1063, doi:10.1093/icesjms/fst205

Foster, SD, Griffin, DA, Dunstan, P 2014, Twenty years of high-resolution sea surface temperature imagery around Australia: inter-annual and annual variability, *PLoS One*, vol. 9, no. 7, e100762, doi:10.1371/journal.pone.0100762

Xu, J, Lowe, R, Ivey, GN, Jones, N, Brinkman, GW 2015, Observations of the shelf circulation dynamics along Ningaloo Reef, Western Australia during the austral spring and summer, *Continental Shelf Research*, vol. 95, pp. 54-73, doi:10.1016/j.csr.2014.12.013

Messer, L, Doubell, M, Jeffries, TC, Brown, MV, Seymour, JR 2015, Prokaryotic and diazotrophic population dynamics within a large oligotrophic inverse estuary, *Aquatic Microbial Ecology*, vol. 74, pp. 1-15, doi:10.3354/ameo01726

Bibiloni-Isaksson, J, Seymour, JR, Ingleton, T, Van De Kamp, J, Bodrossy, L, Brown, MV 2016, Spatial and temporal variability of aerobic anoxygenic photoheterotrophic bacteria along the east coast of Australia, *Environmental Microbiology*, vol. 18, pp. 4485-4500, doi:10.1111/1462-2920.13436

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J 2016, The formation of a cold-core eddy in the East Australian Current, *Continental Shelf Research*, vol. 114, pp. 72-84, doi:10.1016/j.csr.2016.01.002

Sutton, A, Beckley, L 2017, Vertical structuring of epipelagic euphausiid assemblages across a thermohaline front in the south-east Indian Ocean, *Journal of Plankton Research*, vol. 39, no. 3, pp. 463-478, doi:<https://doi.org/10.1093/plankt/fbx012>

Roughan, M, Keating, S, Schaeffer, A, Cetina-Heredia, P, Rocha, C, Griffin, DA, Robertson, R, Suthers, I 2017, A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current System, *Journal of Geophysical Research - Oceans*, vol. 122, pp. 2494-2518, doi:10.1002/2016JC012241

Journal Count

10

No Associated Facility

Lough, JM, Hobday, A 2011, Observed climate change in Australian marine and freshwater environments, *Marine and Freshwater Research*, vol. 62, no. 9, pp. 984-999, doi:10.1071/MF10272

Suthers, I, Young, J, Baird, ME, Roughan, M, Everett, JD, Brassington, GB, Byrne, M, Condie, SA, Hartog, JR, Hassler, C, Hobday, A, Holbrook, N, Malcolm, HA, Oke, PR, Thompson, P, Ridgway, K 2011, The strengthening East Australian Current, its eddies and biological effects - an introduction and overview, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 538-546, doi:10.1016/j.dsr.2010.09.029

Zhang, F, Wang, XH 2011, Estimating the potential benefits of the Integrated Marine Observing System on Australian commercial fisheries, *Australian Journal of Maritime and Ocean Affairs*, vol. 3, no. 4, pp. 130-135

Zhang, F, Wang, XH 2011, Evaluating the potential economic benefits of the NSW node of Australia's Integrated Marine Observing System, *Sociology Study*, vol. 1, no. 6, pp. 395-406

Journal Count **4**