

Bluewater and Climate

Mongin, M, Nelson, DM, Pondaven, P, Treguer, P 2006, Simulation of upper-ocean biogeochemistry with a flexible-composition phytoplankton model: C, N and Si cycling and Fe limitation in the Southern Ocean, *Deep Sea Research Part II*, vol. 53, no. 5-7, pp. 601-619, doi:10.1016/j.dsr2.2006.01.021

Cardinal, D, Savoye, N, Trull, T, Dehairs, F, Kopczynska, E, Fripiat, F, Tison, JL, Andre, L 2006, Silicon isotopes in spring Southern Ocean diatoms: large zonal changes despite homogeneity among size fractions, *Marine Chemistry*, vol. 106, no. 1-2, pp. 46-62, doi:10.1016/j.marchem.2006.04.006

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.2006.10.1007.

Tomczak, M 2007, Variability of Antarctic intermediate water properties in the South Pacific Ocean, *Ocean Science*, vol. 3, pp. 363-377

Cubillos, JC, Wright, SW, Nash, G, Salas, MF, Griffiths, B, Tilbrook, B, Poisson, A, Hallegraeff, GM 2007, Calcification morphotypes of the coccolithophorid *Emiliania 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

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

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

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

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

Oke, PR, Sakov, P 2008, Representation error of oceanic observations for data assimilation, *Journal of Atmospheric and Oceanic Technology*, vol. 25, pp. 1004-1017

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

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

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

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

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/JTECHO539.1

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

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

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

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

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

Roemmich, D, et. al. 2009, Argo: the challenge of continuing 10 years of progress, *Oceanography*, vol. 22, no. 3, pp. 46-55

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

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

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

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

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

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

Williams, A, Althaus, F, Dunstan, P, Poore, G, Bax, N, Kloser, R, McEnulty, 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
-

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

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

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.

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

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

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

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

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

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

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

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

Herraiz-Borreguero, L, Rintoul, S 2011, Subantarctic Mode Water: distribution and circulation, *Ocean Dynamics*, vol. 61, no. 1, pp. 103-126, doi:10.1007/s10236-010-0352-9

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

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

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:10.1029/2009JC005926

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

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

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

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

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

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

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/s10872-011-0002-y

Yin, Y, Alves, O, Oke, PR 2011, An ensemble ocean data assimilation system for seasonal prediction, *Monthly Weather Review*, doi:10.1175/2010MWR3419.0

Sandery, PA, Brassington, GB 2011, Adaptive nonlinear dynamical initialization, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2010JC006260

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

Sallee, J-B, Rintoul, S 2011, Parameterization of eddy-induced subduction in the Southern Ocean surface layer, *Ocean Modelling*, vol. 39, pp. 146-153

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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,

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

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

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

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

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

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

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

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

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

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

- 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
- Shimada, K, Aoki, S, Oshima, 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
- 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
- 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
- Flynn, AJ, Kloser, R 2012, Cross-basin heterogeneity in lanternfish (family Myctophidae) assemblages and isotopic niches (δ C-13 and δ N-15) in the southern Tasman Sea abyssal basin, *Deep Sea Research Part I*, vol. 69, pp. 113-127
- 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
- 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
- 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
- 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
- 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
- McLeod, DJ, Hallegraef, 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
- 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:10.117/1.JRS.6.063583
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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*, pp. 1-10, doi:10.1007/s11160-013-9311-0
- 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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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, Gourrion, J, Pelegri, J 2013, The Tasman leakage as inferred from Argo floats, *Geophysical Research Letters*, vol. 40, pp. 1-5, doi:10.1002/2013GL057797
- Ohshima, KI, Fukamachi, Y, Williams, G, Nishihashi, 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
-

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

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

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:10.1002/2013JC009027

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

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

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

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

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

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

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

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

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

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

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

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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

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

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

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

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

McMahon, C, Harcourt, R 2014, Antarctica: seals collect more Southern Ocean data, *Nature*, vol. 513, no. 33, doi:10.1038/513033e

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

Clelland, 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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:10.1002/2014JCO10550

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

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

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:105194/essdd-8-173-2015

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

- 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
- 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
- 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
- Muller, MN, Trull, T, Hallegraef, 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
- 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
- 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-12-5309-2015
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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, doi:10.1002/2016JC011854

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 nannoplankton genera, Hyalolithus and Petasaria, Micropaleontology, vol. 61, no. 6, pp. 439-455

- 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
- 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
- Jonsen, I 2016, Joint estimation over multiple individuals improves behavioural state inference from animal movement data, *Scientific Reports*, vol. 6, doi:10.1038/srep20625
- 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
- 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
- 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
- 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
- Taylor, M, Laffan, SW, Fairfax, AV, Payne, N 2016, Finding their way in the world: using acoustic telemetry to evaluate relative movement patterns of hatchery-reared fish in the period following release, *Fisheries Research*, vol. 186, pp. 538-543, doi:10.1016/j.fishres.2016.07.003
- Bakker, DCE, Pfeil, B, et. al. 2016, A multi-decade record of high-quality fCO₂ 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
- 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
- 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
- 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
- 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
- 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
- Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485
- 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
-

- 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
- 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. 6, no. 66, pp. 767-783, doi: 10.1007/s10236-016-0954-y
- Sloyan, B, Ridgway, K, Cowley, R 2016, The East Australian Current and property transport at 27oS from 2012-2013, *Journal of Physical Oceanography*, vol. 46, no. 3, pp. 993-1008, doi:10.1175/JPO-D-15-0052.1
- 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
- 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
- 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
- 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
- Bestley, S, Jonsen, I, Harcourt, R, Hindell, MA, Gales, N 2016, Putting the behavior into animal movement modeling: improved activity budgets from use of ancillary tag information, *Ecology and Evolution*, vol. 6, no. 22, pp. 8243-8255, doi:10.1002/ece3.2530
- 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
- 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*, doi:10.1002/joc.4775
- 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
- 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
- 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
- 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
- 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
- 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
- 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
-

- 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
- 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
- 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
- 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:10.1175/JPO-D-14-0115.1
- Zhao, M, Hendon, H, Yin, Y, Alves, O 2016, Variations of upper-ocean salinity associated with ENSO from PEOODAS reanalyses, *Journal of Climate*, vol. 29, no. 6, pp. 2077-2094, doi:10.1175/JCLI-D-15-0650.1
- 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
- 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
- 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:10.1093/icesjms/fsw020
- 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.2016.05.002
- 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
- Matley, J, Heupel, M, Fisk, AT, Simpfendorfer, C, Tobin, A 2016, Measuring niche overlap in co-occurring *Plectropomus* spp. using acoustic telemetry and stable isotopes, *Marine and Freshwater Research*, doi:10.1071/MF16120
- 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
- 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
- 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
- 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
- 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
- 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

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

Muller, MN, Trull, T, Hallegraeff, GM 2017, Independence of nutrient limitation and carbon dioxide impacts on the Southern Ocean coccolithophore *Emiliana huxleyi*, *ISME Journal*, doi:10.1038/ismej.2017.53

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

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

Palmer, MD 2017, Reconciling Estimates of Ocean Heating and Earth's Radiation Budget, *Current Climate Change Reports*, vol. 3, no. 1, pp. 78-86, doi:10.1007/s40641-016-0053-7

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

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

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

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

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

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

Lee, K, Huvneers, 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

Meinen, CS, et, al. 2017, Characteristics and causes of Deep Western Boundary Current transport variability at 34.5°S during 2009–2014, *Ocean Science*, vol. 13, no. 1, pp. 175-194, doi:10.5194/os-13-175-2017

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

Lee, S, et, al. 2017, Wind-driven ocean dynamics impact on the contrasting sea-ice trends around West Antarctica, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012416

Lopez, H, et, al. 2017, A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870, *Geophysical Research Letters*, vol. 44, no. 7, pp. 3309-3318, doi:10.1002/2017GL073227

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

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

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

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

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

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

Everett, JD, Baird, ME, Buchanan, PJ, et, al. 2017, Modeling 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

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

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

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

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

Journal Count

365

Queensland's Integrated Marine Observing System

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

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

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 Transactions*, vol. 89, no. 23, Abstract OS44A-01

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

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

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

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, 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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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/s00338-012-0916.x

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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
- 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
- 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, 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

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

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

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

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

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

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

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

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

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

null

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

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

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

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

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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
-

- 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
- 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
- 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
- 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
- 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
- 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:105194/essdd-8-173-2015
- 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
- Critchell, K, Grech, A, Schlaefel, 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
- 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
- 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
- Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485
- 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
- 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
- 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
- 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
- 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
-

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

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

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

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

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

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*, doi:http://dx.doi.org/10.1071/MF16046

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

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

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

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

Everett, JD, Baird, ME, Buchanan, PJ, et. al. 2017, Modeling 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

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

Journal Count

118

New South Wales - Integrated Marine Observing System

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

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

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

- 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
- 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
- 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
- Mullaney, TJ, Miskiewic, 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
- 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
- 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, 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
- 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
- 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
- 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
- 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
- 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
- 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 fluorimeters: recommendations applied in coastal and ocean observing programs, *Optics Express*, vol. 19, no. 27, pp. 26768-26782, doi:10.1364/OE.19.026768
- 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
- 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
- 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Ajani, P, Murray, S, Hallegraeff, 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

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J 2013, A numerical modeling 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

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

Matis, P, Figueria, W, Suthers, I, Humphries, J, Miskewic, 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

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

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

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

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

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

Ambrecht, 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

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

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

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

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

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

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

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

van der Meulen, D, Walsh, CT, Taylor, M, Gray, M 2014, Habitat requirements and spawning strategy of an estuarine-dependant fish, *Percaletes colonorum*, *Marine and Freshwater Research*, vol. 65, no. 3, pp. 218-227, doi:10.1071/MF13060

- 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
- 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
- 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
- Harris, B, Young, J, Reville, 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
- 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
- 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
- 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
- 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
- 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
- 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
- Lee, K, Huvneers, 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
- 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
- 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
- Lee, K, Huvneers, 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
- 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
- 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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- Balcazar, N, Tripovich, J, Klinck, H, Nieuwkirk, 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
- 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

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

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

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

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

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

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

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

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

Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485

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

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

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

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

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

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

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

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

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

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

Litzow, MA, Hobday, A, Frusher, SD, Dann, P, Tuck, GN 2016, Detecting regime shifts in marine systems with limited biological data: an example from southeast Australia, *Progress in Oceanography*, vol. 141, pp. 96-108, doi:10.1016/j.pocean.2015.12.001

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

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

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

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

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

Schaeffer, A, Gramoulle, 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

Coleman, M, Cetina-Heredia, P, Roughan, M, Feng, M, van Sebille, E, Kelaher, BP 2017, Anticipating changes to future connectivity within a network of marine protected areas, *Global Change Biology*, doi:10.1111/gcb.13634

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

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, Modeling 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

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

Journal Count

117

Southern Australian Integrated Marine Observing System

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

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

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

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

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

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

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

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

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

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

Rogers, P, Huveneers, 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

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

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

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

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*

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

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

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

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

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

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

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

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

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

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

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

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

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

McLeay, L, Doubell, M, Dixon, C, Andreacchio, 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

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

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

Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485

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

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, Modeling 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

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

Journal Count 38

Western Australian Integrated Marine Observing System

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

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

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

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

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

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

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

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

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

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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
-

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/fss082

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

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

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

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

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

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

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

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

Erbe, C 2013, Underwater passive acoustic monitoring and noise impacts on marine fauna - a workshop report, *Acoustics Australia*, vol. 41, no. 1, pp. 113-119

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

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

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

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, 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

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

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.

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

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

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

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

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

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

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

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

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

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

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 cautus* in nearshore coastal waters, *Journal of Fish Biology*, vol. 87, no. 2, pp. 323-341

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

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

Speed, CW, Meekan, MG, Field, IC, McMahon, 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

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

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

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

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

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

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

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

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

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

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, Gavrilov, AS, Parnum, I 2015, The marine soundscape of the Perth Canyon, *Progress in Oceanography*, vol. 137, pp. 38-51, doi:10.1016/j.pocean.2015.05.015

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

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

Balcazar, N, Tripovich, J, Klinck, H, Nieu Kirk, 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

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

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:10.1002/2015JC011351

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-

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485
- 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
- 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
- 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
- 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, doi:10.1002/2016JC011854
- 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
- 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
- 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
- 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

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, Modeling 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

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

Journal Count **99**

South East Australia Integrated Marine Observing System

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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/essd-8-173-2015

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

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

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

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

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

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

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

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

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

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

Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485

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

Erbe, C, McCauley, R, Gavrillov, 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

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

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

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

Litzow, MA, Hobday, A, Frusher, SD, Dann, P, Tuck, GN 2016, Detecting regime shifts in marine systems with limited biological data: an example from southeast Australia, *Progress in Oceanography*, vol. 141, pp. 96-108, doi:10.1016/j.pocean.2015.12.001

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

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

Everett, JD, Baird, ME, Buchanan, PJ, et. al. 2017, Modeling 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

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

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

Journal Count 64

No Associated Node

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

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

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

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

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

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

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

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

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

Lee, R, Black, KP, Bosserel, 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- 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
- 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
- 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
- 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
- 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
- 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
- Roedenbeck, C, Bakker, DCE, Metzl, N, Olsen, A, Sabine, CL, Cassar, N, Reum, JC, Keeling, R^SF, 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

- 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
- 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, Arneeth, 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
- Verron, J, Sengenès, P, Lambin, J, et. al. 2015, The SARAL/AltiKa altimetry satellite mission, *Marine Geodesy*, doi:10.1080/01490419.2014.1000471
- 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
- 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
- Gehlen, M, Barciela, R, Bertino, L, Brasseur, P, Butenschon, M, Chai, F, Crise, A, Drillet, Y, Ford, D, Lavoie, D, Lehodey, P, Perruche, C, Samuelsen, 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

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

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

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

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

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

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

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

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

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

Hanson, CE, Woo, M, Thomson, P, Pattiaratchi, C 2017, Observing the ocean with gliders: techniques for data visualization and analysis, *Oceanography*, vol. 20, no. 2, doi:https://doi.org/10.5670/oceanog.2017.210

Pizarro, O, Friedman, A, Bryson, M, Williams, S 2017, A simple, fast, and repeatable survey method for underwater visual 3D benthic mapping and monitoring, *Ecology and Evolution*, vol. 7, no. 6, pp. 1770-1782, doi:10.1002/ece3.2701

Journal Count 72