

# Southern Australian Integrated Marine Observing System



## Research Projects

A hydrodynamic/biogeochemical modelling facility for S.A., South Australian Research and Development Institute, John Middleton, 2008-2014, Partner Institution(s): Marine Innovation S.A., Flinders University, Funding: Marine Innovation S.A.

Prawn and Crab harvest optimisation: a bio-physical management tool, South Australian Research and Development Institute, Lachlan McLeay, 2008-2015, Partner Institution(s): SA Government, Funding: Fisheries Research and Development Corporation, South Australian Research and Development Institute

The effects of berley on the distribution and behaviour of white sharks at the Neptune Islands, SA, Commonwealth Scientific Industrial Research Organisation, Bary Bruce, Russell Bradford, 2009-2011, Funding: Department of Environment and Natural Resources, SA, Calypso Star Charters

Carrying Capacity for Spencer Gulf, South Australian Research and Development Institute, John Middleton, 2009-2013, Partner Institution(s): Fisheries research and Development Corporation, Flinders University, Funding: South Australian Research and Development Institute

The aggregative behaviour of snapper (*Chrysophrys auratus*) and their interactions with white sharks (*Carcharodon carcharias*), South Australian Research and Development Institute, Anthony Fowler, Charlie Huveneers, Mike Steer, 2009-2010

What size do Marine Protected Area Sanctuary Zones need to be in order to protect the Near-Threatened Western Blue Groper and Harlequin Fish? , Department of Environment and Natural Resources, Simon Bryars, Paul Rogers, Charlie Huveneers, 2009-2010, Partner Institution(s): Flinders University, Funding: Department of Environment and Natural Resources, SA, South Australian Research and Development Institute

Movement and home ranges of the Harlequin Fish, Department of Environment and Natural Resources, Simon Bryars, 2010-2011, Partner Institution(s): SARDI, Flinders University, University of Adelaide

Understanding the residence time and movement patterns of whaler sharks (*Carcharhinus* spp.) along the Adelaide metropolitan beaches, South Australian Research and Development Institute, Flinders University, Charlie Huveneers, Paul Rogers, Simon Goldsworthy, 2010-2014, Partner Institution(s): DEWNR, Adelaide and Mt Lofty Range NRM Board

Acoustic telemetry in Northern Spencer Gulf, South Australia: understanding the spawning aggregative behaviour of snapper (*Chrysophrys auratus*) and their interactions with white sharks (*Carcharodon carcharias*), South Australian Research and Development Institute, Flinders University, Charlie Huveneers, 2010-2011

New pathways of exchange at the mouth of Spencer Gulf: double diffusion., South Australian Research and Development Institute, Griffith University, Mark Doubell, John Middleton, Charles Lemkert

Southern Australian Integrated Marine Observing System (SAIMOS) - Biological Survey and Data QA/QC, Flinders University, Royal Netherlands Institute, National Oceanography Centre, Station Biologique, Sophie Leterme, Corina Brussaard, Mike Zubkov, Nathalie Simon

Spencer Gulf Research Initiative: Development of an Ecosystem Model for Fisheries and Aquaculture, University of Adelaide, South Australian Research and Development Institute, Bronwyn Gillanders, Simon Goldsworthy, John Middleton, Mark Doubell, 2011-2014, Partner Institution(s): FRDC Proj. No. 2011/205, UOA, SARDI, Funding: Fisheries Research and Development Corporation

Ocean carbon and acidification, Bronte Tilbrook, Andrew Lenton, Partner Institution(s): AIMS, UQ, USyd, UNSW, UWA, NOAA(USA) NIES(Japan), IPSL(France), Funding: Australian Climate Change Science Program (ACCSP), CSIRO

Acoustic telemetry in Northern Gulf St. Vincent, South Australia: contributions to understanding the movement behaviour of Snapper (*Chrysophrys auratus*) and Whaler and White Sharks (*Carcharinus* sp. and *Carcharodon carcharias*), South Australian Research and Development Institute, Anthony Fowler, Charlie Huveneers, 2011-2012, Partner Institution(s): Flinders University, Funding: South Australian Research and Development Institute

Monitoring Threatened, Endangered and Protected shark species and species of conservation concern within the Adelaide metropolitan region, South Australian Research and Development Institute, Flinders University, Charlie Huveneers, 2011-2014, Funding: Neiser Foundation, Adelaide and Mt Lofty Ranges NRM Board

The influence of fish movement on regional fishery production and stock structure for Snapper (*Pagrus auratus*) in south eastern Australia, South Australian Research and Development Institute, Anthony Fowler, Charlie Huveneers, Mike Steer, 2012-2014, Funding: Fisheries Research and Development Corporation

South Australian Gulfs data scoping and collation, University of Adelaide, Bronwyn Gillanders, 2012-2013, Partner Institution(s): MISA, Funding: Integrated Marine Observing System (IMOS)

Long-term changes in *Vibrio* bacteria, Luigi Vezzulli, 2012-2013, Funding: CSIRO

The IMOS Plankton Ecosystem Assessment Report, Commonwealth Scientific Industrial Research Organisation, Anthony Richardson, 2012-2013, Funding: CSIRO

Phytoplankton Atlas of Australia, University of Tasmania, Gustaaf Hallegraeff, 2012-2015, Funding: University of Tasmania, Integrated Marine Observing System (IMOS), CSIRO

Zooplankton Atlas of Australia, University of Tasmania, Kerrie Swadling, 2012-2012, Funding: University of Tasmania, Integrated Marine Observing System (IMOS), CSIRO

Adelaide coastal waters modelling, SA water capital project C0738, South Australia Water, DAMCO Consulting and Deltares, Milena Fernandes, Rob Daly, Paul Erfteimeijer, Jos van Gils, 2013-2016, Funding: South Australia Water Asset Management Program

A transportable containerised laboratory for rapid cell sorting and high-resolution bioimaging of living aquatic microbes in field locations, University of New South Wales, Macquarie University, University of Western Australia, University of Tasmania, M Doblin, Justin Seymour, Peter Ralph, Saravanamuthu Vigneswaran, Cynthia Whitchurch, Partner Institution(s): University of Technology, Sydney, Funding: ARC LIEF

Autonomous benthic observing system, University of Western Australia, University of Tasmania, Commonwealth Scientific Industrial Research Organisation, Australian Institute of Marine Science, Department of Primary Industries, NSW, Stefan Williams, Oscar Pizarro, Gary Kendrick, Neville Barrett, Russ Babcock, Andrew Heyward, Alan Jordan, Partner Institution(s): University of Sydney, Funding: ARC LIEF

Monitoring the effects of the South Australian white shark cage-diving industry, South Australian Research and Development Institute, Flinders University, Woods Hole Oceanographic Institute, Charlie Huveneers, Paul Rogers, Simon Goldsworthy, 2013-2016, Funding: Department of Environment and Natural Resources, SA

Great Australian Bight Collaborative Science Program, South Australian Research and Development Institute, Tim Ward, 2013-2016, Partner Institution(s): Marine Innovation South Australia (MISA), CSIRO, British Petroleum, SARDI

Global climate influence on local oceanography and Southern Bluefin Tuna fishing patterns in the Great Australian Bight, Southern Bluefin Tuna Industry Association, Kirstin Rough, Page Eveson, Alastair Hobday, Jessica Farley, Mark Doubell, Partner Institution(s): CSIRO, SARDI, Funding: CSIRO, South Australian Research and Development Institute

Biological nitrogen fixation in the Australian marine environment: the Southern Australian region, University of Technology Sydney, South Australian Research and Development Institute, Lauren Messer, Justin Seymour, Mark Doubell, Partner Institution(s): UTS, SARDI, Funding: ARC

Physical oceanography in GAB: the science that underpins, Department of Primary Industries SA, South Australian Research and Development Institute, John Luick, J Luetchford, 2013-2017, Partner Institution(s): CSIRO, Funding: BP

Understanding the decline of the little penguins in South Australia, Flinders University, Diane Colombelli-Negrel, Partner Institution(s): NRM Boards (Adelaide and Mt Lofty Ranges Board and Kangaroo Island Board), Funding: Adelaide and Mt Lofty Ranges NRM Board, Department of Environment and Natural Resources, SA, Nature Foundation of South Australia, Libabenda Endowment Research Fund, Birds SA, The Nature Conservation

The Great Australian Bight Research Program: Project 4.1. Status, distribution and abundance of iconic species and apex predators in the Great Australian Bight, South Australian Research and Development Institute, Flinders University, Simon Goldsworthy, Alice Mackay, Luciana Moller, Guido Para, Paul Rogers, 2014-2017, Funding: BP, South Australian Research and Development Institute, Flinders University

The Great Australian Bight Research Program: Project 7.1. Knowledge integration of socio-ecological systems of the Great Australian Bight, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, Tim Ward, Cathy Bulman, Elizabeth Fulton, Simon Goldsworthy, 2014-2017, Funding: BP, CSIRO

The Great Australian Bight Research Program, Project 2.2 Characterise variation in offshore/slope microbial, plankton and micronekton communities in the Great Australian Bight, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, Rudy Kloster, Paul van Ruth, Mark Doubell, Anthony Richardson, 2014-2017, Partner Institution(s): CSIRO, SARDI, Funding: BP, CSIRO, South Australian Research and Development Institute

The Great Australian Bight Research Program: Project 2.1. Spatial and temporal variation in shelf microbial and plankton communities in the Great Australian Bight, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, Paul van Ruth, R McGarvey, Tim Ward, Anthony Richardson, 2014-2017, Funding: BP, CSIRO, South Australian Research and Development Institute

NRS regional WQM fluorescence characterisation, Commonwealth Scientific Industrial Research Organisation, L Clementson, Tim Lynch, 2014-2016, Funding: CSIRO

Australian National Shelf Reanalysis, Emlyn Jones, Moninya Roughan, Tim Moltmann, Andreas Schiller, Peter May, 2014-2014, Funding: Integrated Marine Observing System (IMOS)

Optimising the size and quality of sardines through real-time harvest monitoring, South Australian Research and Development Institute, South Australian Sardine Industry Association, Mark Doubell, John Middleton, Tim Ward, Graham Watson, 2014-2015, Partner Institution(s): SARDI, SASIA, Funding: Australian Seafood Cooperative Research Centre

Operational oceanography for oil and gas exploration in the Great Australian Bight: British Petroleum, Oliver Jones, 2014-2017, Partner Institution(s): BP, Funding: BP

The Great Australian Bight Research Program: Project 4.2. Identifying Areas of Ecological Significance for iconic species and apex predators in the great Australian Bight, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, Simon Goldsworthy, Fred Bailleul, Toby Patterson, 2014-2017, Funding: BP, South Australian Research and Development Institute, Flinders University

The Great Australian Bight Research Program, Project 1.1, Oceanography: the science that underpins, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, John Middleton, David Griffin, 2014-2017, Funding: BP, CSIRO, South Australian Research and Development Institute

The Great Australian Bight Research Program, Project 1.2, Waves, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, David Griffin, John Middleton, 2014-2017, Funding: BP, CSIRO, South Australian Research and Development Institute

The Great Australian Bight Research Project, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation, John Middleton, David Griffin, 2014-2017, Partner Institution(s): CSIRO, SARDI, Funding: BP, CSIRO, South Australian Research and Development Institute, Flinders University, University of Adelaide

Modelling of oceanographic variables for the development of additional finfish aquaculture in Spencer gulf, South Australian Research and Development Institute, Mark Doubell, Charles James, John Middleton, Funding: Clean Seas Tuna

Australian marine microbial biodiversity initiative, Lev Bodrossy, M Brown, Tim Moltmann, 2015-2017, Funding: Integrated Marine Observing System (IMOS), Bioplatforms Australia (BPA)

Linking phytoplankton to fisheries using zooplankton size spectra, University of New South Wales, Iain Suthers, Laura Richardson, Mark Baird, Sagulenko Evgeny, 2015-2018, Partner Institution(s): ARC Discovery Project, Funding: University of New South Wales, ARC Discovery Project

Tuna and Finfish Aquaculture Environmental Program 2015/16 to 2018/19, South Australian Research and Development Institute, Maylene Loo, Mark Doubell, 2015-2019, Funding: PIRSA Fisheries and Aquaculture

Optimising the size and quality of sardines through real-time harvest monitoring: CRC Project No. 2013/746, South Australian Research and Development Institute, Mark Doubell, Tim Ward, Paul Watson, Charles James, Jonathan Carrol, Ana Redondo-Rodriguez, Funding: CRC Seafood

Environmental monitoring to improve understanding of oyster performance, Paul van Ruth, 2015-2017, Funding: Eyre Peninsula NRM Board, South Australian Oyster Growers Association, South Australian Oyster Research Council

Monitoring the effects of the South Australian white shark cage-diving industry, South Australian Research and Development Institute, Charlie Huveneers, 2016-2019, Funding: Department of Environment and Natural Resources, SA

**Research Projects 49**

## Postgraduate Research Projects

Doctor of Philosophy (PhD), Ocean dynamics of Spencer Gulf: a numerical study, University of New South Wales, South Australian Research and Development Institute; Carlos Teixeira, 2006-2010, Supervisor(s): John Middleton

Doctor of Philosophy (PhD), Movement and migration of the giant Australian cuttlefish, *Sepia apama*, University of Adelaide, University of Tasmania; Nicholas Payne, 2007-2011, Supervisor(s): Bronwyn Gillanders, Jayson Semmens

Doctor of Philosophy (PhD), Population specific spatiotemporal dynamics of viral and microbial communities in South Australian continental shelf waters: impact of coastal upwelling and hydro-climatic forcing, Flinders University; James Patterson, 2008-2012, Supervisor(s): Laurent Seuront, Jim Mitchell

Doctor of Philosophy (PhD), Impact of physical forcings (upwelling/downwelling) and nutrients availability on the space-time dynamics of picophytoplankton communities, Flinders University; Virginie van Dongen-Vogels, 2008-2011, Supervisor(s): Laurent Seuront, Sophie Leterme, Justin Seymour, Jim Mitchell

Masters degree, Composition and dynamics of phytoplankton communities along the continental shelf of South Australia, Flinders University, University of Pierre and Marie Curie; K Nedoncelle, Supervisor(s): Sophie Leterme

Masters degree, Assessing the efficacy of small marine protected areas for the conservation of wobbegong sharks and the eastern blue grouper, Maquarie University; Kate Lee, 2009-2011, Supervisor(s): Rob Harcourt, Charlie Huveneers, Vic Peddemors; Partner Institution(s): SARDI, I & I

Doctor of Philosophy (PhD), Water mass analyses and connectivity along Australia's southern shelves, Australian National University, South Australian Research and Development Institute; Laura Richardson, 2009-2014, Supervisor(s): John Middleton, Brad Opdyke

Honours degree, Impact of upwelling events on the phytoplankton communities off the South Australian continental shelf, Flinders University; Nathavong Navong, Supervisor(s): Sophie Leterme

Doctor of Philosophy (PhD), Plasticity of mating systems in the giant Australian cuttlefish, *Sepia apama*, Macquarie University; Alex Schnell, 2010-2014, Supervisor(s): Rob Harcourt, Roger Hanlon

Doctor of Philosophy (PhD), The biology and ecology of an important large bodied temperate neritic predator, the bronze whaler (*Carcharhinus brachyurus*) in South Australia's coastal waters, Flinders University, South Australian Research and Development Institute; Michael Drew, 2011-2016, Supervisor(s): Charlie Huveneers, Mark Meekan, Paul Rogers; Partner Institution(s): SARDI – Aquatic Sciences, AIMS, PIRSA

Doctor of Philosophy (PhD), Acoustics: a tool to reveal the behaviour of the blue whale, University of New South Wales; Naysa Balcazar, 2012-2014, Supervisor(s): Tracey Rogers

Doctor of Philosophy (PhD), Prediction of upwelling in Southern Australian waters: model validation, data assimilation and array design, South Australian Research and Development Institute, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Hugo Baston de Oliveira, 2013-2017, Supervisor(s): John Middleton, John Luick, Peter Oke, Richard Coleman; Partner Institution(s): CSIRO, SARDI, UTAS; Funding: CNPq - Brazilian National Council for Scientific and Technological Research

Masters degree, Temporal variations of sanctuary zone efficiency for a coastal shark species, Flinders University, South Australian Research and Development Institute; Lauriane Escalle, 2013-2015, Supervisor(s): Charlie Huveneers; Funding: South Australian Research and Development Institute

Doctor of Philosophy (PhD), Ocean dynamics of Gulf St Vincent, University of Adelaide, South Australian Research and Development Institute; Henry Ellis, 2014-2017, Supervisor(s): John Middleton, John Luick, Trent Mattner

**Postgraduate Research Projects 14**

## Book

**Book null**

## Book Chapters

Rodda, K, Huveneers, C, Baker, J 2014, Chondrichthyans of Spencer Gulf, in S Shephard, SM Madigan, B Gillanders, S Murray-Jones, D Wiltshire (eds.), *Natural History of Spencer Gulf*, Royal Society of South Australia Inc, Adelaide, pp.227-241

Steven, A, Brando, V, Clementson, L, Dekker, AG, Hardman-Mountford, NJ, Hodge, J, Jones, EM, King, E, Schroeder, T 2014, Coastal ocean colour of Australian waters: progress and outlook, in S Djavidnia, V Cheung, M Ott, S Seeyave (eds.), *Oceans and Society: Blue Planet*, Cambridge Scholars Publishing, pp.122-129

van Ruth, P 2014, Plankton in Spencer Gulf, in S Shephard, SM Madigan, B Gillanders, S Murray-Jones, D Wiltshire (eds.), *Natural History of Spencer Gulf*, Royal Society of South Australia Inc, Adelaide, pp.171-180

Roughan, M, Schaeffer, A, Suthers, I 2015, Sustained ocean observing along the coast of southeastern Australia: NSW-IMOS 2007-2015, in Y Liu, H Kerkering, R Weisberg (eds.), *Coastal Ocean Observing Systems*, Elsevier, pp.76-98

**Book Chapters 4**

## Community White Papers / Technical Papers

**Community White Papers/Technical Papers null**

## Conference Proceedings

Williams, S, Pizarro, O, How, M, Mercer, D, Powell, G, Marshall, J, Hanlon, R 2009, Surveying Nocturnal Cuttlefish Camouflage Behaviour using an AUV, Proceedings of the IEEE 2009 International Conference on Robotics and Automation Kobe, Japan, May 2009, Kobe

Middleditch, A, Cosoli, S 2016, The Australian Coastal Ocean Radar Network: Temporal and spatial scales of HF radar wave data, Proceedings of Oceans'16 MTS/IEEE, Shanghai, Presenter: Andrew Middleditch

Conference Proceedings 2

## In Press

Grammer, G, Morrongiello, J, Izzo, C, Hawthorne, P, Middleton, J, Gillanders, B 2017, Coupling biogeochemical tracers with fish growth reveals physiological and environmental controls on otolith chemistry, Ecological Monographs

In Press 1

## Journals

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

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

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

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

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

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

Rogers, P, Huvneers, C, Goldsworthy, S, Mitchell, J, Seuront, L 2012, Broad-scale movements and pelagic habitat of the dusky shark *Carcharhinus obscurus* off Southern Australia determined using pop-up satellite archival tags, Fisheries Oceanography, vol. 22, no. 2, pp. 102-112, doi:10.1111/fog.12009

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

Bryars, S, Rogers, P, Huvneers, 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

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
- 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
- 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*
- 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
- 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, James, N, James, C, Bone, Y 2014, Cross-shelf seawater exchange controls the distribution of temperature, salinity and neritic carbonate sediments in the Great Australian Bight, *Journal of Geophysical Research - Oceans*, vol. 119, no. 4, pp. 2539-2549, doi:10.1002/2013JC009420
- Middleton, J, Luick, J, James, C 2014, Carrying capacity for finfish aquaculture, Part II - Rapid assessment using hydrodynamic and semi-analytic solutions, *Journal of Aquacultural Engineering*, vol. 62, pp. 66-78, doi:10.1016/j.aquaeng.2014.07.006
- 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
- 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
- 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
- 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
- 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

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

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

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, 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

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

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

Fowler, A, Huvneers, 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

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

**Journals 38**

## Reports

Bryars, S 2009, What size do marine protected area sanctuary zones need to be in order to protect the near-threatened Western Blue Groper and Harlequin Fish? , Comments: AATAMS Receiver Pool Yearly Reports

Bruce, B, Bradford, RW 2011, The effects of berley on the distribution and behaviour of white sharks at the Neptune Islands, SA, Comments: Final report to DENR SA

Middleton, J, James, C, Luick, J, Goldsworthy, S, Tsolos, A, Teixeira, CEP, Richardson, L 2011, Survey of sonar test sites, phase 1, literature review. Milestone 3: FINAL REPORT

Poloczanska, ES, Hobday, A, Richardson, A 2012, Marine climate change in Australia, impacts and adaptation responses

Huvneers, C, Rogers, P, Drew, M 2012, Residency and movements of whaler sharks (*Carcharhinus* spp) in Gulf St Vincent. Final Report to the Nature Foundation of South Australia, SARDI, Adelaide, Comments: F2012/000246-1 SARDI Res Rep Series No. 664

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**Reports 36**

## Thesis

Teixeria, CEP 2010, Dynamics of Spencer Gulf: a numerical study, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Payne, N 2011, Approaches to understanding the population dynamics and behaviour of *Sepia apama* in Northern Spencer Gulf, Doctor of Philosophy (PhD), University of Adelaide, Adelaide

van Dongen-Vogels, V 2012, On the role of local and global physical forcing to space-time dynamics of microbes: a case study from the Southern Seas, Doctor of Philosophy (PhD), Flinders University, Adelaide

Patterson, J 2012, Population specific spatiotemporal dynamics of viral and microbial communities in South Australian continental shelf waters: impact of coastal upwelling and hydro-climatic forcing, Doctor of Philosophy (PhD), Flinders University, Adelaide

Schnell, A 2014, Signalling, mating and conflict resolution in the giant Australian cuttlefish, *Sepia apama*, Doctor of Philosophy (PhD), Macquarie University, Sydney

Balcazar, N 2014, Acoustics: a tool to reveal the behaviour of the blue whale, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Richardson, L 2015, Water mass connectivity and mixing along the southern margin of Australia: hydrographic and stable isotope analyses, Doctor of Philosophy (PhD), Australian National University, Canberra

**Thesis 7**

## Data Product

World Ocean Database, (1993 - 2029) Database. [http://www.nodc.noaa.gov/OC5/WOD09/pr\\_wod09.html](http://www.nodc.noaa.gov/OC5/WOD09/pr_wod09.html)

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## Public Seminars

Huveneers, C; Shark biology and ecology: overview of research experience; Flinders University Seminar, 06/05/2008 - 06/05/2008, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

Huveneers, C; Shark biology and ecology: overview of research experience; SARDI Public Seminar, 07/05/2008 - 07/05/2008, South Australian Research and Development Institute, Adelaide, Presenter(s): Charlie Huveneers

Huveneers, C; Shark ecology in South Australia; Community Connections Solutions Australia (CCSA) Fundraising Presentation, 18/12/2009 - 18/12/2010, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

Goldsworthy, S; Using animal sensors to understand and monitor our marine environment; Institute of Marine Engineering, Science & Technology Presentation, 28/04/2010 - 28/04/2010, Adelaide, Presenter(s): Simon Goldsworthy

Huveneers, C; Shark research in South Australia; University of the Third Age Club Presentation, 01/08/2010 - 01/08/2010, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

Middleton, J; The Oceanography of our southern shelves.; Journey to the Abyss, 17/12/2011 - 12/03/2012, Adelaide, Presenter(s): John Middleton

Watson, C; Geodesy at UTAS and the IMOS Satellite Altimetry Sub-Facility; Seminar of the 40th Anniversary of Spatial Science at UTAS, 04/05/2012 - 04/05/2012, University of Tasmania, Hobart, Presenter(s): Chris Watson

James, C; The Oceanography of our Southern Shelves and the Southern Australian Integrated Marine Observing System.; World Ocean Day, 08/06/2012 - 08/06/2012, Port Augusta, Presenter(s): Charles James

Huveneers, C; Shark ecology and biology@Flinders University; Flinders University Public Seminar, 18/06/2013 - 18/06/2013, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

van Ruth, P; Marine food webs and plankton classification; Scientists in Schools, 22/05/2014 - 22/05/2014, Adelaide, Presenter(s): Paul van Ruth

van Ruth, P; Lower trophic ecosystem dynamics in Southern Australian waters: Regional characteristics and connectivity in the SAIMOS node region; Deakin University Invited Presentation, 30/06/2014 - 30/06/2014, Deakin University, Melbourne, Presenter(s): Paul van Ruth

Watson, C, White, N, Church, JA, King, M, Burgette, R, Legresy, B; Refining satellite era estimates of global mean sea level rise; Research School of Earth Science (RSES) Seminar, 12/02/2015 - 12/02/2015, Canberra, Presenter(s): Chris Watson

Middleton, J, et, al.; Ocean forecast models; SARDI Seminar Series, 25/02/2015 - 25/02/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): John Middleton

Bailleul, F; In the eyes of the lion... Looking at the behaviour and habitat of Australian Sea Lions and other iconic marine predators in the GAB region; SARDI Seminar Series, 27/05/2015 - 27/05/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Fred Bailleul

Redondo-Rodriguez, A; Satellite remote sensing data: Access, uses and limitations; SARDI Seminar Series, 27/05/2015 - 27/05/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Ana Redondo-Rodriguez

Patten, N; Picoplankton and virioplankton in offshore waters of the central Great Australian Bight; SARDI Seminar Series, 24/06/2015 - 24/06/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Nicole Patten

Seymour, JR; Microbes in the Ocean; SARDI Seminar Series, 24/06/2015 - 24/06/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Justin Seymour

**Public Seminar 17**

## Conferences, Symposia or Workshops

### Conference Oral Presentation

Middleton, J; Physical processes of wind-forced upwelling: time and spaced scales; Scientific Committee on Oceanic Research (SCOR) Deep Ocean Exchange Working Group Meeting, 10/07/2007 - 11/07/2007, Perugia, Presenter(s): John Middleton

Allen, S, Pender, L, Steinberg, C, Middleton, J, Brando, V, Roughan, M; The Australian National Moorings Network. In situ observations for Australian Marine Research; Australian Meteorological and Oceanographic Society (AMOS) Conference, 29/01/2008 - 01/02/2008, Geelong

Leterme, S, James, C, Luick, J, Middleton, J, van Dongen-Vogels, V, Patterson, J, Seuront, L; Seasonal Variations in Biological Characteristics of the South Australian Shelf Waters – Results from the Southern Australian Integrated Marine Observing System (SAIMOS); European Geosciences Union (EGU) General Assembly, 19/04/2009 - 24/04/2009, Vienna

Coleman, M, Roughan, M, Connell, SD, Gillanders, B, Kelaher, BP, Steinberg, P; Contrasting Patterns of Connectivity among Populations of Kelp on Australia's Temperate Reefs; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

James, C, Leterme, S, Luick, J, Middleton, J, Patterson, J, van Dongen-Vogels, V, Seuront, L; Introducing the Southern Australian node of the Integrated Marine Observing System, SAIMOS; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Middleton, J, Seuront, L, Luick, J, James, C, Leterme, S, Teixeira, CEP, van Dongen-Vogels, V, Patterson, J; The biophysical landscape of the southern Australian shelves: measurement, modelling, climate and climate change; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Lynch, T, Steinberg, C, Brando, V, Roughan, M, Middleton, J, Hughes, D, Feng, M, McCauley, R, Wiltshire, M, Hill, K, Proctor, R, Allen, S, Meyers, G, Moltmann, T; The Australian National Mooring Network; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Patterson, J, van Dongen-Vogels, V, Leterme, S, Seuront, L; Viral and bacterial spatial dynamics within coastal upwelling systems; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

van Dongen-Vogels, V, Seymour, JR, Leterme, S, Patterson, J, Seuront, L; Space-time variability of picophytoplankton communities in South Australian shelf waters; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Payne, N, Semmens, J, Gillanders, B, Seymour, RS, Webber, D, Snelling, EP; Accelerometry reveals patterns in field metabolic rate of giant Australian cuttlefish *Sepia apama* during breeding; Society of Experimental Biology Conference, 30/06/2010 - 03/07/2010, Prague, Presenter(s): Jayson Semmens

Lowther, A; Avoiding the crowds: combining fine-scale biologging with stable isotope biogeochemistry to assess the temporal stability of alternate foraging behaviours in adult female Australian sea lions; Biologging IV Workshop - The use of Visual Media with Data in Biologging, 16/03/2011 - 16/03/2011, Hobart, Presenter(s): Andrew Lowther

Payne, N, Gillanders, B, Semmens, J, Taylor, M; Accelerometry - An alternative to examining the frequency of acoustic detections; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Nicholas Payne

Semmens, J, Payne, N, Webber, D, Bruce, B, Kock, A, Huvneers, C; Accelerometry estimates field metabolic rate in white sharks (*Carcharodon carcharias*) at pinniped colonies in South Australia; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Jayson Semmens

Lynch, T, Morello, E, Hughes, D, Steinberg, C, Feng, M, Richardson, A, Thompson, P, Bonham, P, Howell, B, Slawinski, D, James, C, Middleton, J, Davies, C, Rigby, P; Quality control and preliminary results from the IMOS Australian National Reference Stations; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Lowther, A; Buying local: fine-scale population structure of adult female Australian sea lions influenced by fine-scale foraging habitat fidelity; 19th Biennial Society of Marine Mammalogy Conference, 27/11/2011 - 03/12/2011, Tampa, Presenter(s): Andrew Lowther

McCauley, R, Gavrilov, AS, Salgado Kent, C, Jenner, C, Jenner, M, Gedamke, J; Migratory habits of pygmy and Antarctic blue whales in Australian waters; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Rob McCauley

Bryars, S, Rogers, P, Miller, D; Protecting the Harlequin Fish (*Othos dentex*) within South Australia's new system of marine protected areas: Acoustic tracking to determine site fidelity and movement patterns; ASFB and OCS - Australian Society for Fish Biology and Oceania Chondrichthyan Society, 15/07/2012 - 18/07/2012, Adelaide, Presenter(s): Simon Bryars

Lee, K, Huvneers, C, Harcourt, R; Is small adequate? Assessing the movement of eastern blue groper to determine the adequacy of protection in a small marine reserve; ASFB and OCS - Australian Society for Fish Biology and Oceania Chondrichthyan Society, 15/07/2012 - 18/07/2012, Adelaide

Bilgmann, K, Parra, G, Zanardo, N, Beheregaray, L, Moller, L; Identification of Management Units of short-beaked common dolphins in southern Australia and its implications for managing fisheries operational interactions; Australian Mammal Society 58th Scientific Meeting, 23/09/2012 - 29/09/2012, Port Augusta, Presenter(s): Kerstin Bilgmann

Zanardo, N, Bilgmann, K, Parra, G, Moller, L; Socio-genetic structure of short-beaked common dolphins in South Australia; Australian Mammal Society 58th Scientific Meeting, 23/09/2012 - 29/09/2012, Port Augusta, Presenter(s): Nikki Zanardo

Huvneers, C, Rogers, P, Beckman, C, Drew, M, Heard, M, Corrigan, S; Shark ecology: Relevance to Industry and the Community; Marine Innovation Southern Australia Symposium, 30/11/2012 - 30/11/2012, Port Lincoln, Presenter(s): Charlie Huvneers

Doubell, M, Middleton, J, Spencer, D, Lemkert, C; Enhanced vertical mixing by salt fingers in the shelf waters off Kangaroo Island, South Australia; 16th International Workshop on Physical Processes in Natural Waters, 08/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Mark Doubell

Huveneers, C, Simpfendorfer, C, Kim, S, Semmens, J, Boomer, A, Heupel, M, Peddemors, V, Hobday, A, Stieglitz, T, Pederson, H, Vallee, R, Webber, D, Harcourt, R; The influence of depth, orientation, and environmental parameters on the performance and detection range of acoustic receivers; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Charlie Huveneers

Doubell, M; How much is just right?: a model to manage aquaculture; SARDI Aquatic Sciences Open Day Lecture Series, 17/11/2013 - 17/11/2013, South Australian Research and Development Institute, Adelaide, Presenter(s): Mark Doubell

van Ruth, P, Doubell, M; Bottom-up regulation of primary productivity in a seasonally flushed inverse estuary; Australasian Society for Phycology and Aquatic Botany Annual Conference, 27/11/2013 - 27/11/2013, Sydney, Presenter(s): Paul van Ruth

Middleton, J, Richardson, L, James, C; The Flinders Current: fact or fiction?; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): John Middleton

Wyatt, LR; HF radar short wave direction measurements in the South Australian Gulfs; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Lucy Wyatt

Doubell, M, James, C, van Ruth, P, Luick, J, Middleton, J; Development of a biogeochemical model for Spencer Gulf, South Australia: Application and implications for aquaculture development and sustainability; World Aquaculture Conference, 07/06/2014 - 11/06/2014, Adelaide, Presenter(s): Mark Doubell

Middleton, J, Doubell, M, James, C, Luick, J; A Graphical user interface: a tool for finfish carrying capacity; World Aquaculture Conference, 07/06/2014 - 11/06/2014, Adelaide, Presenter(s): Charles James, John Middleton

Middleton, J, Doubell, M, James, C, Luick, J; Carrying capacity for finfish aquaculture. Part 1&2 - rapid assessment using hydrodynamic and semi-analytical solutions; World Aquaculture Conference, 07/06/2014 - 11/06/2014, Adelaide, Presenter(s): John Middleton

Balcazar, N, Nieuwkerk, S, Klinck, H, Mellinger, D, Tripovich, J, Dziak, R, Rogers, T; Calls reveal population structure of the elusive blue whale; Eco-acoustics Science Conference; Ecology and acoustics: emergent properties from community to landscape, 16/06/2014 - 18/06/2014, Paris, Presenter(s): Naysa Balcazar

Messer, L, Jeffries, TC, Mahaffey, C, Doubell, M, Doblin, MA, Brown, MV, Seymour, JR; Diazotroph dynamics across Australia's oligotrophic oceans; Australian Society for Microbiology Conference, 06/07/2014 - 09/07/2014, Melbourne, Presenter(s): Lauren Messer

Balcazar, N, Tripovich, J, Nieuwkerk, S, Klinck, H, Mellinger, D, Dziak, R, Rogers, T; Call reveal population structure and behaviour of the elusive blue whale; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Naysa Balcazar

Messer, L, Jeffries, TC, Mahaffey, C, Doubell, M, Doblin, MA, Brown, MV, Seymour, JR; Diazotroph dynamics across Australia's oligotrophic oceans; 15th International Symposium on Microbial Ecology, 24/08/2014 - 29/08/2014, Seoul, Presenter(s): Lauren Messer

James, C, Doubell, M, Luick, J, Middleton, J; SWAN model study: Effects of wind forcing temporal resolution on waves in Spencer Gulf; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Charles James

Middleton, J, Luick, J, James, C, Doubell, M, Bastos de Oliveira, H; Coastal Modelling at the South Australian Research and Development Institute; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): John Middleton

Watson, C, White, N, Church, JA, Beardsley, J, Legresy, B, King, M; Update results from the Australian in-situ calibration sites: Bass Strait and Storm Bay; Ocean Surface Topography Science Team (OSTST) Meeting, 27/10/2014 - 31/10/2014, Lake Constance, Presenter(s): Chris Watson

Watson, C, White, N, Church, JA, King, M, Burgette, R; Refining satellite era estimates of global mean sea level rise; Geography and Spatial Sciences Conference, 25/11/2014 - 26/11/2014, Hobart, Presenter(s): Chris Watson

Gavrilov, AS, McCauley, R, Charlton, C, Ward, R; Spot calls and its probable source; 3rd Underwater Acoustics Conference and Exhibition, 21/06/2015 - 26/06/2015, Crete, Presenter(s): Alexander Gavrilov

Pattiaratchi, C; Dense shelf water cascades around Australia: dynamics and water column processes; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Charitha Pattiaratchi

Wijeratne, S, Pattiaratchi, C, Proctor, R; Simulation of boundary currents around Australia; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Charitha Pattiaratchi

Bailleul, F, Goldsworthy, S, van Ruth, P, Harcourt, R, McMahon, C; Assessing the smallest by one of the biggest: Australian sea lions as investigators of primary production in the Great Australian Bight; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Fred Bailleul

Clementson, L, Lynch, T, Kelly, P, Moore, D, Kay, R; A systematic approach to providing high quality bio-optical data streams from moored observing systems over broad spatial and temporal scales - part II; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): L Clementson

Doubell, M, Redondo-Rodriguez, A, James, C, Carrol, J, Watson, P, Ward, T; Predictability of South Australian sardine habitat distribution; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Mark Doubell

Eriksen, R, Bonham, P, Coman, F, et, al.; Using plankton data from National Reference Stations in the Australian Integrated Marine Observing System; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Ruth Eriksen

Patten, N, van Ruth, P; Picoplankton and virioplankton in offshore waters of the central Great Australian Bight; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Nicole Patten

Richardson, A, Rochester, W, Eriksen, R; Plankton 2015: as assessment of Australia's oceans using plankton as ecosystem indicators; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Anthony Richardson

Bodrossy, L; Microbial Cycling in Marine Waters Around Australia; Applied and Environmental Microbiology Gordon research Conference, 12/07/2015 - 17/07/2015, Massachusetts, Presenter(s): Lev Bodrossy

Church, JA; Sea-level change: a scientific and social challenge for the 21st century; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): John Church

Roughan, M, Jones, EM, Oke, PR, Moltmann, T, May, P, Schiller, A; A National Shelf Re-analysis (ANSR) project for Australia; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Moninya Roughan

McCauley, R; Definition of the blue whale species complex and their movements in Australian and Southern Ocean waters; 12th International Congress on Theoretical and Computational Acoustics, 11/10/2015 - 16/10/2015, Hangzhou, Presenter(s): Rob McCauley

McLeay, L, Doubell, M, Dixon, C, Andreacchio, L, James, C, Luick, J, Middleton, J; A biophysical model to assess tradeoffs in larval recruitment and catch in Southern Australia's largest prawn fishery; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Lachlan McLeay

Steckenreuter, A, Peddemors, V, Simpfendorfer, C, Hoenner, X, Tattersall, K, Babcock, R, Huveneers, C, Heupel, M, Meekan, MG, Harcourt, R; Optimising the integrity of a national network of acoustic telemetry research infrastructure in Australia ; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Andre Steckenreuter

Begg, G, Middleton, J, Nayar, S, Doubell, M; SARFU Iceabigraphy: Research and Capabilities; South Australian Water Presentation, 03/03/2016 - 03/03/2016, Adelaide, Presenter(s): G Begg

Mahjabin, T, Pattiaratchi, C, Hetzel, Y; Factors influencing the occurrence of Dense Water Cascades in Australia; International Coastal Symposium, 06/03/2016 - 11/03/2016, Sydney, Presenter(s): Tanziha Mahjabin

van Ruth, P; Regional ecosystem monitoring to improve understanding of oyster productivity; South Australian Natural Resource Management Science Conference, 13/04/2016 - 15/04/2016, Adelaide, Presenter(s): Paul van Ruth

Spillman, CM, Hobday, A, Eveson, P, Hartog, JR; Seasonal forecasting for decision support in marine fisheries and aquaculture; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Claire Spillman

Middleton, J; Physics to fisheries: IMOS data enables; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): John Middleton

Lowther, A; The conservation dilemma: Integrating ecological and molecular data to determine appropriate management units for the Australian sea lion *Neophoca cinerea*; Royal Society of South Australia, University of Adelaide, Adelaide, Presenter(s): Andrew Lowther

## Conference Poster

James, C, Luick, J, Leterme, S, Middleton, J, Seuront, L; Seasonal Variations in Physical Characteristics of the South Australian Shelf Waters –Results from the Southern Australian Integrated Marine Observing System (SAIMOS); European Geosciences Union (EGU) General Assembly, 19/04/2009 - 24/04/2009, Vienna

Seuront, L, Leterme, S, Middleton, J, Ridgway, K, Doherty, P, Bainbridge, S, Steinberg, C, Suthers, I, Roughan, M, Pattiaratchi, C, Thresher, A, Trull, T, Schulz, E, Wijffels, S, Williams, S, Allen, S, Heron, M, Harcourt, R, Proctor, R, Turner, P, Critchley, G, Richardson, A, Coman, F, Bonham, P, Terhell, D, Thompson, P, Tilbrook, B, Berry, K, Clementson, L, Robert, S, Lynch, T, Furnas, M, Roberts, K, Magierowski, R, Meyers, G; IMOS, an Integrated Marine Observing System for Australia; European Geosciences Union (EGU) General Assembly, 19/04/2009 - 24/04/2009, Vienna

van Dongen-Vogels, V, Seymour, JR, Leterme, S, Seuront, L; Spatial and temporal dynamics in picophytoplankton community structure along a shelf plume (South Australia); Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Lynch, T, Steinberg, C, Brando, V, Roughan, M, Middleton, J, Hughes, D, Feng, M, McCauley, R, Wiltshire, M, Hill, K, Proctor, R, Allen, S, Meyers, G, Moltmann, T; The Australian National Mooring Network; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Seuront, L, Leterme, S, Middleton, J, Bryne, M, James, C, Luick, J, Nedoncelle, K, Patterson, J, Teixeira, CEP, van Dongen-Vogels, V; Biophysical couplings in South Australian shelf waters under conditions of summer upwelling and winter downwelling: Results from the Southern Australian Integrated Marine Observing System (SAIMOS); OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Boomer, A, Huvneers, C, Goldsworthy, S, Hindell, MA, Semmens, J, Tattersall, K, Field, IC, Harcourt, R; Australian Animal Tagging and Monitoring System (AATAMS): higher predators providing sustained observations of the marine environment; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Navong, N, James, C, Leterme, S; Impacts of upwelling events on the phytoplankton communities off the South Australian continental shelf; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Doubell, M, James, C, Luick, J, Middleton, J; Development and application of ROMS based models for the South Australian region; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Mark Doubell

Wijeratne, S, Pattiaratchi, C, Proctor, R; Modelling meso-scale dynamics along western and southern Australian shelf and slopes: A ROMS modelling approach; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Sarath Wijeratne

Doubell, M, Middleton, J, Spencer, D, Lemkert, C; Salt-finger enhanced mixing and vertical nutrient fluxes on Australia's southern shelf: microstructure observations during the 2012 summertime upwelling; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Mark Doubell

Wijeratne, S, Pattiaratchi, C, Proctor, R; Estimates of alongshore and cross-shelf transports around Australia; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Sarath Wijeratne

Wyatt, LR; Wave measurements from the Australian Coastal Ocean Radar Network; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Zhang, H, Beggs, H, Majewski, L, Huang, X, Kiss, A; Investigating sea surface temperature diurnal variation over the tropical warm pool using MTSAT-1R data; 16th GHRSS Science Team Meeting, 20/07/2015 - 24/07/2015, Noordwyk, Presenter(s): Helen Beggs

Middleton, J, Schulz, E, et. al.; eSAMarine - phase 1: the first step towards an operational now-cast/forecast ocean prediction system for Southern Australia; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): John Middleton



Balcazar, N, Klinck, H, Nieukirk, S, Mellinger, D, Tripovich, J, Dziak, R; Acoustics reveals the population structure of the elusive blue whale; 2015 Ecological Society of America (ESA) Annual Meeting, 09/08/2015 - 14/08/2015, Baltimore, Presenter(s): Naysa Balcazar

Everett, JD, Richardson, A, Baird, ME, et, al.; Bridging the zooplankton gap between models and observations: the IMOS Zooplankton Ocean Observations and Modelling Task Team (ZOOM); Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Yeung, V, Everett, JD, Richardson, A, Suthers, I; Quantifying the oceanographic and seasonal patterns of zooplankton size-structure at the IMOS National Reference Stations; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

### **Meeting Presentation**

Middleton, J; IMOS/SAIMOS; Scientific Committee on Oceanic Research (SCOR) Deep Ocean Exchange Working Group Meeting, 10/07/2007 - 11/07/2007, Perugia, Presenter(s): John Middleton

Middleton, J; SAIMOS Update; PIRSA Public Meeting Series, 25/02/2013 - 28/02/2013, Adelaide, Presenter(s): John Middleton

Watson, C, White, N, Church, JA, King, M, Burgette, R; Refining satellite era estimates of global mean sea level rise; Australian Geodesy Meeting, 01/07/2014 - 02/07/2014, Canberra, Presenter(s): Chris Watson

Harcourt, R; White Sharks, Australian Animal Tracking and global links through the Ocean Tracking Network; Shark Mitigation Strategies and Alternatives Briefing, 16/07/2014 - 16/07/2014, Canberra, Presenter(s): Rob Harcourt

Watson, C, White, N, Church, JA, King, M, Burgette, R; Sea level rise; Surveying & Spatial Sciences Institute State Congress, 24/07/2015 - 24/07/2015, Hobart, Presenter(s): Chris Watson

Middleton, J, Doubell, M; SARDI Oceanographic Fisheries research and Opportunities; FRDC Board Presentation, 15/02/2016 - 15/02/2016, South Australian Sardine Industry Association, Adelaide, Presenter(s): John Middleton

Extracting wave parameters from HF radar installations around Australia; Wave buoy user group meeting, 15/06/2016 - 16/06/2016, Fremantle

Moltmann, T; IMOS observations for coasts and extremes (Meeting Nov 2014); CAWCR, Melbourne, Presenter(s): Tim Moltmann

### **Plenary Address**

Goldsworthy, S, Page, B, Baylis, A, Bool, N, Caines, N, Daly, K, Einoder, L, Hamer, D, Huveneers, C, Lowther, A, McLeay, L, Peters, K, Roberts, P, Rogers, P, Wiebkin, A, Bulman, C, Ward, T; Marine connectivity of high trophic level predators in the eastern Great Australian Bight: linking spatial and temporal use to regional oceanographic features; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

### **Symposium Presentation**

Middleton, J; IMOS/SAIMOS; International Coastal Symposium, 16/04/2007 - 20/04/2007, Gold Coast, Presenter(s): John Middleton

Lowther, A, Harcourt, R, Page, B, Goldsworthy, S; "The Knowledge": male Australian sea lions and Hackney Cab Drivers share common attributes when it comes to knowing where to go; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Andrew Lowther

Middleton, J; Achievements of the Oceanography Program at SAIMOS; Marine Innovation Southern Australia Symposium, 30/11/2012 - 30/11/2012, Port Lincoln, Presenter(s): John Middleton

van Ruth, P, Kloser, R; Pelagic ecosystem and environmental drivers; Great Australian Bight Research Program Annual Symposium, 18/11/2014 - 19/11/2014, Adelaide, Presenter(s): Paul van Ruth

Baldry, K, Hardman-Mountford, NJ, Greenwood, J, Tilbrook, B; Remotely-sensed estimation of alkalinity in coastal waters around Australia; 4th Oceans in a high CO2 World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): K Baldry

## Workshop Presentation

Middleton, J; The Oceanography and SAIMOS for the Bonney Coast; Climate Change Planning Workshop: The Bonney Coast, 04/04/2008 - 04/04/2008, Queenscliff, Presenter(s): John Middleton

Heron, M; The Australian Coastal Ocean Radar Network; International Radiowave Oceanography Workshop 9 (ROW), 19/05/2009 - 22/05/2009, Split, Presenter(s): Mal Heron

Middleton, J; IMOS/SAIMOS; 10th GHRSS Science Team Meeting, 01/06/2009 - 01/06/2009, Santa Rosa, Presenter(s): John Middleton

Malthouse, P; SAIMOS progress update; ACORN Workshop, 14/06/2012 - 15/06/2012, James Cook University, Townsville, Presenter(s): Paul Malthouse

Middleton, J; SAIMOS and Oceanography at SARDI; CAWCR Regional Workshop, 28/09/2012 - 28/09/2012, Adelaide, Presenter(s): John Middleton

Middleton, J, Pattiaratchi, C, Roughan, M, Luick, J, Ivey, GN, Lowe, R, Phillips, H, Benthuyesen, J, Wijeratne, S, MacDonald, HS; ROMS Modelling in Australia: status, plans and aspirations; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): John Middleton

Steinberg, C, Baird, ME, Middleton, J, Pattiaratchi, C, Roughan, M, Stevens, C, Wyatt, LR; Ocean Observation uptake: Present status and the way forward; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Craig Steinberg

van Ruth, P, Doubell, M, Middleton, J, Luick, J; Ocean Modeling of the southern shelves: activity, capability and needs.; CAWCR ROMS Modeling Workshop, 03/12/2013 - 03/12/2013, Bureau of Meteorology, Melbourne, Presenter(s): Paul van Ruth

Harcourt, R; Oceans of opportunity, an Australian perspective on continental scale observing; An Ocean of Opportunity: Mutual Goals, shared resources, effective outcomes, 06/06/2014 - 06/06/2014, Ocean Tracking Network, Ottawa, Presenter(s): Rob Harcourt

Goldsworthy, S; Development of a Spencer Gulf ecosystem model for fisheries and aquaculture; Practical steps to implementation of integrated marine management, 13/04/2015 - 15/04/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Simon Goldsworthy

Middleton, J; CarCap - a decision support tool for aquaculture expansion and gulf developments based on nutrient carrying capacity; Practical steps to implementation of integrated marine management, 13/04/2015 - 15/04/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): John Middleton

Legresy, B, Church, JA, White, N, Monselesan, D, Slangen, A; Sensitivity of sea-level rise reconstruction from tide gauges; Workshop on Global and Regional Sea Level Variability and Change, 10/06/2015 - 12/06/2015, Majorca, Presenter(s): Benoit Legresy

James, C, Sandery, PA, Middleton, J, Mattner, T, et, al.; eSAMarine, Phase 1: Developing a now-cast/forecast system for Australia's Southern Shelves; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Charles James

Middleton, J, Griffin, DA, Luick, J, Herzfeld, M; Hydrodynamic modelling of the circulation in the Great Australian Bight; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): John Middleton

Oliveira, H, Middleton, J, Oke, PR, Coleman, R; The upwelling circulation along the shelves of the Great Australian Bight: idealized simulations and the role of banks and valleys; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Hugo Oliveira

Sandery, PA; Aspects of sub-mesoscale ocean analysis and forecasting; Bureau of Meteorology Annual R&D Workshop: Data Assimilation, 05/12/2016 - 09/12/2016, Melbourne, Presenter(s): Paul Sandery

van Ruth, P; Understanding the drivers of environmental change: harnessing variations in food web dynamics to maximise productivity; South Australian Shellfish Research and Development Workshop 2014, Port Lincoln, Presenter(s): Paul van Ruth

