

# New South Wales - Integrated Marine Observing System



## Research Projects

Estimating and maximising the survival of key species released by recreational fishers in NSW, Industry and Investment New South Wales, Matt Broadhurst, 2003-2012

“Fishtrack”: Effects of flows and barriers on the distribution, abundance, movements and migration of freshwater fishes in the Clarence River System, Industry and Investment New South Wales, Stuart Rowland, Gavin Butler, 2006-2011

Great white shark tagging project, Industry and Investment New South Wales, Nick Otway, 2006-2007

Grey Nurse Shark south-east Australian Coastal Acoustic Monitoring System (SEACAMS), Industry and Investment New South Wales, Nick Otway, 2006-2008

Movements and biology of coastal sharks in NSW, Industry and Investment New South Wales, Amy Smoothey, Vic Peddemors, 2007-2012

Autonomous Exploration and Characterization of Benthic Habitats Linked to Oceanographic Processes, University of Sydney, Stefan Williams, 2008-2010, Funding: ARC Discovery Project

Movements and ecological interactions of key fish species in estuaries and coastal waters of NSW, Industry and Investment New South Wales, Charles Gray, 2008-2013

Quantifying the role of salps in marine food webs and organic carbon export, University of New South Wales, Iain Suthers, Funding: ARC Discovery Project

Coastal cold core eddies of the East Australian Current and their fisheries potential, University of New South Wales, Iain Suthers, Funding: ARC Discovery Project

Assessing the adequacy and effectiveness of eastern blue groper protection within Bronte-Coogee Aquatic Reserve utilising habitat mapping and acoustic monitoring techniques, Department of Environment, Climate Change and Water, Macquarie University, T MacDonald, Charlie Huveneers, Rob Harcourt, 2009-2011, Partner Institution(s): Sydney Institute for Marine Science, Macquarie University, SARDI, Flinders University, Randwick Council, Waverly Council, Funding: Caring for Coasts

Offshore Artificial Reefs Research Program, Industry and Investment New South Wales, Micheal Lowry, 2009-2013

Assessment of barotrauma and its mitigation measures on the behaviour and survival of offshore species in NSW, Industry and Investment New South Wales, John Stewart, 2009-2012, Partner Institution(s): University of Western Sydney

Ocean-reef interactions as drivers of continental shelf productivity in a changing climate, University of Western Australia, University of New South Wales, Anya Waite, Moninya Roughan, Charitha Pattiaratchi, Jonne Kotta, Helen Orav-Kotta, 2010-2012, Funding: ARC

Near-shore habitat use by juvenile white sharks in coastal waters off Port Stephens, Commonwealth Scientific Industrial Research Organisation, Bary Bruce, Russell Bradford, 2010-2011, Partner Institution(s): Hunter-Central rivers CMA, Port Stephens Great Lakes Marine Park, Funding: Tag for life

Cost-effective autonomous systems for large scale monitoring of marine protected areas, University of Sydney, Oscar Pizarro, Stefan Williams, Michael Jakuba, Ryan Eustice, Louis Whitcomb, 2010-2014, Partner Institution(s): University of Michigan, Johns Hopkins University, Funding: ARC Discovery Project, QEII Fellowship

Autonomous repeatable surveys for long term monitoring of marine habitats, University of Sydney, Stefan Williams, Oscar Pizarro, Michael Jakuba, Mitchell Bryson, 2010-2013, Partner Institution(s): Thales Australia Pty. Ltd., Funding: ARC Linkage Project

Stress, virulence and bacterial disease in temperate seaweeds: the rise of the microbes, University of New South Wales, Peter Steinberg, S Kjelleberg, T Thomas, S Egan, Melinda Coleman, 2010-2013, Funding: ARC Linkage Project

Cross shelf processes and nutrient enrichment in the East Australian Current regime, University of New South Wales, Amandine Schaeffer, Moninya Roughan, 2010-2015

Machine Assisted, Multi-scale Spatial and Temporal Observation and Modelling of Marine Benthic Habitats, University of Sydney, Stefan Williams, Maria Bryne, Will Figueria, Neville Barrett, 2010-2013, Partner Institution(s): University of Tasmania, Funding: ARC Super Science Fellowship

Movements and habitat use of luderick within Jervis Bay Marine Park, New South Wales Marine Parks Authority, Nathan Knott, Matt Taylor, 2010-2011, Partner Institution(s): UNSW, UWA, NSW DPI, Funding: New South Wales Marine Parks Authority

Profiling the biology and Fishery of Rock Blackfish (*Girella elevata*) in the Sydney Region., Department of Primary Industries, NSW, Charles Gray, Matt Taylor, 2010-2013, Partner Institution(s): UNSW

Feeding and breeding: The role of hydrology in habitat use, fidelity and connectivity of iconic temperate fishes, University of New South Wales, Matt Taylor, Iain Suthers, 2010-2013, Partner Institution(s): NSW I&I, UTS, Invasive Animals CRC, Funding: ARC Linkage Project

Virulence and bacterial disease in temperate seaweeds. The rise of the microbes, University of New South Wales, Ezequiel Marzinelli, Funding: NSW State Government, ARC Future Fellowship

A laser optical plankton counter (L-OPC) for laboratory or in situ size distributions of zooplankton: Ecological dynamics of a changing East Australian Current , University of New South Wales, Iain Suthers, Anthony Richardson, M Doblin, Funding: ARC LIEF

Assessing the efficacy of small marine protected areas for the conservation of eastern blue gropers and wobbegong sharks, Macquarie University, Rob Harcourt, 2011-2012, Partner Institution(s): DECCW, I & I, Funding: Seaworld Research and Rescue Foundation

Image-based automated macrobenthic species identification, counting and sizing, University of Sydney, Commonwealth Scientific Industrial Research Organisation, University of Tasmania, Stefan Williams, Oscar Pizarro, Russ Babcock, Matthew Dunbabin, Neville Barrett, 2011-2014, Funding: SIEF Fellowship

Portland and NSW data sets acoustic data sets, University of New South Wales, Tracey Rogers, Partner Institution(s): UNSW, Funding: ARC

White shark population and abundance trends, Bary Bruce, 2011-2015, Funding: National Environmental Research Program (NERP)

Multi-Scale Recognition: Generating Meaning from Multi-Resolution Data, University of Sydney, Bertrand Douillard, Funding: ARC APD Fellow

Eddies and Upwelling: using satellite datasets to examine patterns in chlorophyll a adjacent to the East Australian Current, University of Technology Sydney, Jason Everett

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

Demography and interannual variability of salp swarms, University of New South Wales, Natasha Henschke, Jason Everett, M Doblin, Kylie Pitt, Anthony Richardson, Iain Suthers, 2011-2014, Funding: Commonwealth Government

Effects of climate change on temperate benthic assemblages on the continental shelf in eastern Australia, University of Tasmania, Craig Johnson, Neil Holbrook, Neville Barrett, Peter Steinberg, 2011-2014, Partner Institution(s): University of New South Wales, Funding: ARC Super Science Fellowship

Delivering information suitable for studying spatial and temporal variability in benthic habitats using autonomous underwater vehicles, University of Sydney, Stefan Williams, Funding: ARC Future Fellowship

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

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

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

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

Do coastal currents feed the harvest from purpose-built, offshore artificial reefs?, University of New South Wales, Sydney Institute for Marine Science, Iain Suthers, Micheal Lowry, Matt Taylor, Moninya Roughan, Emma Johnston, Charles Gray, 2012-2015, Funding: ARC Linkage Project, Department of Primary Industries, NSW

The krill pump: Transferring carbon across a layered ocean in a changing, University of New South Wales, Iain Suthers, Funding: ARC Discovery Project

Marine Video, University of Sydney, Stefan Williams, Partner Institution(s): UWA, UTAS, UNSW, CSIRO, AIMS, Funding: Australian National Data Service (ANDS)

Model benthic habitat and assemblage distribution using data derived from AUV, BUV and swath acoustic mapping in and around NSW marine parks, University of Sydney, Renata Ferrari, Partner Institution(s): NSW DPI, Funding: NSW State Government

NERP Solitary Island survey, Department of Primary Industries, NSW, Alan Jordan, Partner Institution(s): USyd, UTAS

Australian marine microbial biodiversity initiative, Commonwealth Scientific Industrial Research Organisation, Lev Bodrossy, Partner Institution(s): CSIRO, UNSW, UTS, AIMS, SIMS

Coastal carbon collaboration cluster, Commonwealth Scientific Industrial Research Organisation, Andy Steven, 2012-2015, Partner Institution(s): CSIRO, UTS, UWA, SCU, JCU, UNSW

Deep Water Kelp Forests; Benthic biodiversity in marine parks in NSW, Sydney Institute for Marine Science, University of New South Wales, Ezequiel Marzinelli

Movement of Port Jackson Sharks, Macquarie University, Christopher Brown, Nathan Knott, 2012-2020, Partner Institution(s): Taronga Conservancy Society, Fisheries NSW, Funding: ARC Linkage Project, Taronga Zoo, Seaworld Research and Rescue Foundation, Woolworths

Offshore Artificial Reefs, Industry and Investment New South Wales, Iain Suthers, Matt Taylor, 2013-2016, Funding: ARC Linkage Project

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

Topological, statistical and signal-theoretic methods for identifying Lagrangian coherent structures in the East Australian Current, University of New South Wales, Shane Keating, 2013-2013, Partner Institution(s): SIMS, Funding: University of New South Wales

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

Time series of primary productivity at the Port Hacking National Reference station, University of Technology Sydney, M Doblin, Virginie van Dongen-Vogels, 2014-2016, Partner Institution(s): OEH, Funding: CSIRO, Marine and coastal carbon biogeochemistry cluster

Finding the Shadows using the Eyes of Gliders, Robin Robertson, Funding: ADFA

Drivers of primary production in eastern Australia, University of Technology Sydney, M Doblin, 2014-2015, Partner Institution(s): CSIRO, Funding: CSIRO Marine and Coastal Carbon Biogeochemistry

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)

Productivity in the East Australian Current, University of New South Wales, Moninya Roughan, Amandine Schaeffer

Social networking in a changing ocean: microbial-scale ecological interactions control ocean-scale chemistry, DP140101045, Justin Seymour, et al., 2014-2016

Social interactions and migration patterns of Port Jackson sharks, Macquarie University, Culum Brown, Tristan Guttridge, Joanna Wiszniewski, Marlin Gregor, Nathan Knott, 2014-2017, Funding: ARC Linkage Project

Advancing dynamical understanding in the East Australian Current: optimising the ocean observation and prediction effort, Sydney Institute for Marine Science, Moninya Roughan, 2014-2016, Funding: ARC

Incorporating new knowledge of phytoplankton diversity and nutrient utilisation into an ocean-climate model to improve forecasts of ocean function, M Doblin, Shauna Murray, Richard Matear, B Hutchins, 2014-2016, Funding: ARC

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

Ocean Mixing Matters, University of New South Wales, Robin Robertson, Partner Institution(s): Defence Related Research Project

A uniquely integrated approach to predicting Fisheries Recruitment, University of New South Wales, Moninya Roughan, 2015-2018, Funding: ARC Linkage Project

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

Reflections on Sonar, University of New South Wales, Robin Robertson, Funding: ADFA

Coastal radar observations of frontal eddies in the Tasman Sea, University of New South Wales, Moninya Roughan, Shane Keating, Iain Suthers, Matt Archer, 2015-2017, Funding: NSW Research Attraction and Acceleration Program

Shark movements linked to oceanography, Rob Harcourt, Vic Peddemors, Moninya Roughan, Kate Lee, 2015-2017, Funding: NSW Research Attraction and Acceleration Program

Ichthyoplankton long-term monitoring at National Reference Stations, University of Tasmania, Iain Suthers, Ana Lara-Lopez, Anthony Richardson, Kerrie Swadling, Tim Ward, 2015-2016, Funding: AFMA - Australian Fisheries Management Authority

A unique integrated approach to predicting fisheries recruitment, LP150100064, Moninya Roughan, Andrew Jeffs, G Liggins, Melinda Coleman, 2016-2018

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## Postgraduate Research Projects

Doctor of Philosophy (PhD), Large-scale multi-sensor 3D reconstructions and visualisations of unstructured underwater environments, University of Sydney; Matthew Johnson-Robertson, 2005-2009, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Efficient and featureless approaches to bathymetric simultaneous localisation and mapping, University of Sydney; Stephen Barkby, 2007-2011, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Using ecology and behaviour to optimise release strategies for mulloway *Argyrosomus japonicus* (Sciaenidae), University of New South Wales; Alexander Pursche, 2007-2011, Supervisor(s): Matt Taylor, Iain Suthers

Doctor of Philosophy (PhD), Evaluating the potential economic benefits from regional ocean observing system to the Australian East coastal areas, Australian Defence Force Academy; Fan Zhang, 2008-2012, Supervisor(s): Xiao Hua Wang

Doctor of Philosophy (PhD), An operational circulation forecast system for Jervis Bay, NSW, Australian Defence Force Academy; Donghui Jiang, 2008-2016, Supervisor(s): Xiao Hua Wang

Doctor of Philosophy (PhD), Observed grouping behaviour in the mourning cuttlefish *Sepia plangon*: evidence of social interactions?, Macquarie University, University of Tasmania, Museum Victoria; Candice McBride, 2008-2010, Supervisor(s): Jane Williamson, Jayson Semmens, Mark Norman

Doctor of Philosophy (PhD), Water column current profile aided localisation for Autonomous Underwater Vehicles, University of Sydney; Lashika Medagoda, 2008-2012, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Seasonal variability in continental shelf circulation adjacent to a western boundary current, University of New South Wales; Julie Wood, 2008-2013, Supervisor(s): Moninya Roughan, Peter Tate

Doctor of Philosophy (PhD), Dirichlet process mixture models for autonomous habitat classification, University of Sydney; Daniel Steinberg, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Bayesian non-parametric benthic habitat mapping, University of Sydney; Asher Bender, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Active learning using a variational Dirichlet process model for pre-clustering and classification of underwater stereo imagery, University of Sydney; Ariell Friedman, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), ROMS Modelling of WCE motivated by glider mission, University of New South Wales; Helen MacDonald, 2009-2012, Supervisor(s): Moninya Roughan, John Wilkin, Mark Baird

Doctor of Philosophy (PhD), Predictive habitat modelling using Autonomous Underwater Vehicles, University of Sydney; Nasir Ahsan, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

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

Doctor of Philosophy (PhD), Ontogeny, phenology and ecology: drivers of temporal and spatial migratory patterns in temperate and tropical reef fish, University of Technology Sydney; Gwenael Cadiou, 2010-2014, Supervisor(s): David Booth; Partner Institution(s): NSW, I&I NSW, DECCW (Jervis Bay Marine Park); Funding: South Australian Research and Development Institute

Doctor of Philosophy (PhD), Phytoplankton diversity in coastal waters of New South Wales, Australia, Maquarie University; Penny Ajani, Supervisor(s): Leanne Armand, Michael Gillings, Shauna Murray

Doctor of Philosophy (PhD), Biodiversity, ecology and distribution of benthic foraminiferal assemblages from the southern Great Barrier Reef, Maquarie University, James Cook University; Erika Woolsey, 2010-2014, Supervisor(s): Glenn Brock

Doctor of Philosophy (PhD), Foraging ecology of the threatened Gould's Petrel, *Pterodroma leucoptera*, Maquarie University; Yuna Kim, 2010-2014, Supervisor(s): Rob Harcourt, Alana Grech, David Priddel; Funding: NSW OEH (Office of Environment & Heritage)

Doctor of Philosophy (PhD), Krill abundance in the Western Tasman Sea, University of New South Wales; Ben Harris, 2010-2014, Supervisor(s): Iain Suthers, Matt Taylor, Jason Everett, Jock Young; Partner Institution(s): CSIRO; Funding: ARC Discovery Project, CSIRO, Great Barrier Reef Foundation

Doctor of Philosophy (PhD), Effects of biophysical variables on distributions and movements of estuarine dependent predators, University of New South Wales; Dylan van der Meulen, 2010-2016, Supervisor(s): Matt Taylor, Philip Sutton, Charles Gray; Partner Institution(s): NSW DPI, UTS, NSW RFST; Funding: Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Site fidelity, natal homing and metapopulation structure in large estuarine predators, University of New South Wales; Ruan Gannon, 2010-2014, Supervisor(s): Matt Taylor, Iain Suthers, Charles Gray; Partner Institution(s): NSW DPI, NSW RSFT, UTS; Funding: Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Multi-vehicle habitat mapping using Autonomous Underwater vehicles, University of Sydney; Lachlan Toohey, 2010-2014, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Long-term distribution and ecology of pelagic tunicates, University of New South Wales; Natasha Henschke, 2010-2014, Supervisor(s): Iain Suthers, Jason Everett, Anthony Richardson; Partner Institution(s): UTS, CSIRO; Funding: ARC

Doctor of Philosophy (PhD), Recruitment and trophic processes of east coast blackfish: A changing role in a changing climate?, University of New South Wales; Jerom Stocks, 2010-2015, Supervisor(s): Matt Taylor, Iain Suthers, Charles Gray; Partner Institution(s): NSW DPI, NSW RSFT; Funding: Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Plenoptic flow: Closed-form visual odometry for light field camera, University of Sydney; Donald Dansereau, 2010-2014, Supervisor(s): Stefan Williams, Oscar Pizarro

Masters degree, Effect of predation on benthic communities on a coastal, offshore artificial reef, University of New South Wales; Shinjiro Ushijima, Supervisor(s): Emma Johnston, Iain Suthers; Funding: ARC Linkage Project, Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Connectivity and source-sink dynamics in estuarine fishes, University of Technology Sydney; Cian Foster-Thorpe, 2011-2014, Supervisor(s): Matt Taylor, David Booth, Charles Gray; Partner Institution(s): NSW DPI, NSW RFST; Funding: ARC, Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Oceanographic drivers of movement in top-level coastal predators, *Coryphaena hippurus* and *Seriola lalandi*, University of New South Wales; Stephanie Brodie, 2011-2015, Supervisor(s): Matt Taylor, Iain Suthers, Charles Gray, Jason Everett, Alastair Hobday; Partner Institution(s): NSW DPI, UNSW; Funding: ARC Linkage Project, Department of Primary Industries, NSW, CSIRO

Doctor of Philosophy (PhD), Estuarine use and ecological impacts of two stingray families; dasyatids and urolophids (stingrays and stingarees), University of New South Wales; Tegan Marzullo, 2011-2014, Supervisor(s): Iain Suthers, Matt Taylor; Partner Institution(s): NSW DPI; Funding: Department of Primary Industries, NSW

Honours degree, Correcting oceanographic estimates of chlorophyll distribution: why do coastal phytoplankton form sub-surface chlorophyll maximas?, University of Technology Sydney; Charlotte Robinson, 2011-2011, Supervisor(s): M Doblin, Peter Ralph

Doctor of Philosophy (PhD), Hyperspectral imaging for classification of marine habitats, University of Sydney; Daniel Bongiorno, 2011-2015, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Phytoplankton characterisation of the Coffs Harbour region, Eastern Australia, with special emphasis on changing biogeochemical parameters due to global warming, Macquarie University; Linda Armbrrecht, Supervisor(s): Amandine Schaeffer, Moninya Roughan, David Raftos

Doctor of Philosophy (PhD), Novel application of acoustic telemetry as a conservation tool for large predatory fish, Macquarie University; Kate Lee, 2011-2014, Supervisor(s): Rob Harcourt, Charlie Huveneers, Vic Peddemors; Partner Institution(s): DPI Fisheries, NSW MPA; Funding: Caring For Our Country

Doctor of Philosophy (PhD), Automated interpretation of visual information from marine survey, University of Sydney; Michael Bewley, 2012-2015, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), The connectivity and reef fidelity of recreationally important fish around an Offshore Artificial Reef (OAR), Department of Primary Industries, NSW, University of New South Wales; Krystle Keller, Supervisor(s): Iain Suthers, Micheal Lowry; Funding: ARC Linkage Project, Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Biogeography of photoheterotrophic bacteria in the Australian marine environment, University of Technology Sydney; Jaime Bibiloni-Isaksson, 2012-2016, Supervisor(s): Justin Seymour, M Brown

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), Dynamics of nitrogen fixation in Australia's marine environment, University of Technology Sydney; Lauren Messer, 2012-2016, Supervisor(s): Justin Seymour, M Brown

Doctor of Philosophy (PhD), An energetic model of Australian and New Zealand fur seals and applications to identifying Areas of Ecological Significance (AES), Macquarie University; Monique Lads, 2012-2016, Supervisor(s): Rob Harcourt, Iain Jonsen, David Slip; Partner Institution(s): Taronga Zoo, NSW Marine Parks, Dolphin Marine Magic; Funding: ARC Linkage Project, Taronga Zoo

Doctor of Philosophy (PhD), Optical partitioning of phytoplankton niches and implication for carbon cycling, University of Technology Sydney; Charlotte Robinson, 2012-2015, Supervisor(s): M Doblin, Peter Ralph, Nagur Cherukuru

Honours degree, Seasonal and latitudinal changes in the zooplankton community composition along the East Australia Current: The AusCPR survey, Institute of Marine and Antarctic Studies; Kate Picone, 2012-2012, Supervisor(s): Kerrie Swadling, Anthony Richardson; Funding: University of Tasmania

Doctor of Philosophy (PhD), Effective visual survey using semantic scene understanding, University of Sydney; Dushyant Rao, 2012-2015, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Ontogeny of foraging in Australian fur seals, Macquarie University; Marcus Salton, 2012-2015, Supervisor(s): Rob Harcourt, Iain Jonsen, David Slip, Roger Kirkwood; Partner Institution(s): Toronga Zoo, NSW Marine Parks; Funding: ARC Linkage Project, Philip Island Nature Parks (PINP)

Honours degree, Exogenous factors affecting activity rhythms in an estuarine teleost, University of New South Wales; Luke McPhan, 2012-2012, Supervisor(s): Nicholas Payne; Funding: Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Modelling estuarine shelf exchange flow off Sydney, University of New South Wales; Nina Ribbat, 2013-2016, Supervisor(s): Moninya Roughan, Brain Powell, Iain Suthers

Honours degree, Seasonal variability of internal waves as seen in IMOS mooring data, University of New South Wales; Matthew Bell, 2013-2013, Supervisor(s): Robin Robertson, Janet Sprintall; Funding: Royal Australian Navy

Honours degree, Internal wave and mixing fields off the NSW coast, University of New South Wales; Daniel Boettger, 2013-2014, Supervisor(s): Robin Robertson, Janet Sprintall; Funding: Royal Australian Navy

Doctor of Philosophy (PhD), Social interactions and migration patterns of Port Jackson sharks, Macquarie University; Nathan Bass, 2013-2017, Supervisor(s): Joanna Wiszniewski; Partner Institution(s): Taronga Zoo, NSW Marine Parks; Funding: ARC Linkage Project, Taronga Zoo

Masters degree, Foraging seabirds in the Bateman's Bay Marine Park: is zoning effective?, Macquarie University; Dustin O'Hara, 2013-2015, Supervisor(s): Rob Harcourt, Iain Jonsen, David Slip; Partner Institution(s): Taronga Zoo, NSW Marine Parks; Funding: ARC Linkage Project, Taronga Zoo

Degree - Other, Observations of internal tides in Eastern Australian waters in SOOP XBT, ARGO float, and glider data, University of New South Wales; Daniel Boettger, 2014-2016, Supervisor(s): Robin Robertson

Doctor of Philosophy (PhD), Influence of phytoplankton cell size on biogeochemical cycling of carbon and nitrogen, University of Technology Sydney; Marco Alvarez Rodriguez, 2014-2016, Supervisor(s): M Doblin, Peter Ralph

Doctor of Philosophy (PhD), Modulation of internal waves by the East Australian Current, University of New South Wales; Eduardo Vitarelli, Supervisor(s): Moninya Roughan

Doctor of Philosophy (PhD), The biogeochemistry of East Australian Current eddies, University of New South Wales; Carlos Rocha, 2015-2017, Supervisor(s): Moninya Roughan

Doctor of Philosophy (PhD), Using autonomous ocean gliders to explore subsurface phytoplankton distributions in Eastern Australian shelf waters, University of Technology Sydney; Adeline Soler, Supervisor(s): M Doblin

Doctor of Philosophy (PhD), Demersal fish surveys from small form factor AUVs, University of Sydney; Nader Boutrous, 2016-2019, Supervisor(s): Stefan Williams, Oscar Pizarro

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## Book

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## Book Chapters

Roughan, M, Suthers, I, Meyers, G 2010, The Australian Integrated Marine Observing System and the regional implementation in New South Wales, in Y You, A Henderson-Sellers (eds.), *Climate Alert: Climate Change Monitoring and Strategy*, Sydney University Press, Sydney, pp.299-312

Gillanders, B, Elsdon, T, Roughan, M 2012, Functioning of estuaries and coastal ecosystems, in E Wolanski (eds.), *Treatise on estuarine and coastal science*, Elsevier

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

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

Roughan, M, Schaeffer, A, Suthers, I 2015, Sustained ocean observing along the coast of southeastern Australia: NSW-IMOS 2007-2014, in Y Lui, H Kerling, R Weisberg (eds.), *Coastal ocean observing systems*, 1st Ed., Academic Press



## Community White Papers / Technical Papers

Taylor, M; 2013, A Review of Acoustic Telemetry Research within Fisheries NSW: Background Issues and Development of a Strategic Approach

Johnston, E, Booth, D, Doblin, MA, Figueria, W, Marzinelli, EM, Pritchard, T, Roughan, M, Steinberg, P; 2013, Living Harbour. Dynamic science: a systematic review of the science of Sydney Harbour, Comments: Sydney Institute of Marine Science, Sydney, Australia

Rudnick, D, Lee, C, et. al.; 2016, OceanGliders Boundary Ocean Observing Network

**Community White Papers/Technical Papers 3**

## Conference Proceedings

Johnson-Robertson, M, Pizarro, O, Williams, S 2007, Towards Three-Dimensional Heterogeneous Imaging Sensor Correspondence and Registration for Visualization, Proceedings of the IEEE Oceans 2007 Conference, Aberdeen, May 2007, Aberdeen

Williams, S, Pizarro, O, Webster, J, Beaman, R, Johnson-Robertson, M, Mahon, I, Bridge, T 2008, AUV-assisted Surveying of Relic Reef Sites, Proceedings of the IEEE Oceans 2008 Conference, Quebec, Canada, September 2008, Quebec City

Pizarro, O, Colquhoun, J, Rigby, P, Johnson-Robertson, M, Williams, S 2008, Towards Image-based Marine Habitat Classification, Proceedings of the IEEE Oceans 2008 Conference, Quebec, Canada, September 2008, Quebec City

Williams, S, Pizarro, O, Mahon, I, Johnson-Robertson, M 2008, Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV, Proceedings of the International Symposium on Experimental Robotics 2008, Athens, Greece, Athens

Barkby, S, Williams, S, Jakuba, M 2009, An efficient approach to bathymetric SLAM, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, St. Louis

Rao, D, Williams, S 2009, Large-scale path planning for underwater gliders in ocean currents, Proceedings of the 2009 Australasian Conference on Robotics and Automation, Sydney

Williams, S, Pizarro, O, Jakuba, M, Barrett, N 2009, AUV benthic habitat mapping in south eastern Tasmania, Proceedings of the 7th International Conference on Field and Service Robotics, Cambridge

Pizarro, O, Williams, S, Colquhoun, J 2009, Topic-Based Habitat Classification Using Visual Data, Proceedings of the MTS/IEEE Oceans 2009, Bremen, Germany, May 2009, Bremen

Jakuba, M, Pizarro, O, Williams, S 2010, High resolution, consistent navigation and 3D optical reconstructions from AUVs using magnetic compasses and pressure-based depth sensors, Proceedings of the IEEE Oceans 2010, Sydney, May 2010, Sydney

Steinberg, D, Pizarro, O, Williams, S, Jakuba, M 2010, Dirichlet process mixture models for autonomous habitat classification, Proceedings of the IEEE Oceans 2010, Sydney, Australia, May 2010, Sydney

Williams, S, Pizarro, O, Jakuba, M, Mahon, I, Ling, S, Johnson, C 2010, Repeated AUV surveying of urchin barrens in North Eastern Tasmania, Proceedings of the IEEE 2010 International Conference on Robotics and Automation Anchorage, USA, May 2010, Anchorage

Medagoda, L, Jakuba, M, Pizarro, O, Williams, S 2010, Water column current profile aided localisation for autonomous underwater vehicles, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney, Presenter: Lashika Medagoda

Steinberg, D, Williams, S, Pizarro, O, Jakuba, M 2010, Towards autonomous habitat classification using Gaussian Mixture Model, Intelligent Robots and Systems (IROS), 2010 IEEE/RSJ International Conference, Taipei

Johnson-Robertson, M, Pizarro, O, Williams, S 2010, Saliency ranking for benthic survey using underwater images, Proceedings of the 11th International Conference on Control, Automation, Robotics and Vision, ICARCV 2010, Singapore

Friedman, A, Pizarro, O, Williams, S 2010, Rugosity, slope and aspect from bathymetric Stereo image reconstructions, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney, Presenter: Ariell Friedman

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## Thesis

Johnson-Robertson, M 2011, Large-scale multi-sensor 3D reconstructions and visualisations of unstructured underwater environments, Doctor of Philosophy (PhD), University of Sydney, Sydney

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## 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

Harcourt, R; Australian Acoustic Tagging and Monitoring System; SIMS Open Day, 04/03/2007 - 04/03/2007, Sydney Institute for Marine Science, Sydney, Presenter(s): Rob Harcourt

Suthers, I; The Integrated Marine Observing Systems; SIMS Open Day, 04/03/2007 - 04/03/2007, Sydney Institute for Marine Science, Sydney, Presenter(s): Iain Suthers

Harcourt, R, Huveneers, C; Australian Acoustic Tagging and Monitoring System (AATAMS); SIMS Open Day, 02/03/2008 - 02/03/2008, Sydney Institute for Marine Science, Sydney

Lee, K; Shark Research at SIMS; SIMS Open Day, 15/03/2009 - 15/03/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Kate Lee

Williams, S; Marine Life through the eyes of a remote operated, deep sea, autonomous vehicle; SIMS Open Day, 15/03/2009 - 15/03/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Stefan Williams

Lee, K, Harcourt, R, Huveneers, C; Effectiveness of Marine Protected Areas - Conservation of Wobbegongs; Graduate School of the Environment Seminar Series, 28/05/2009 - 28/05/2009, Macquarie University, Sydney

Lee, K; The efficacy of small marine protected areas for the conservation of eastern blue groper; Graduate School of the Environment Seminar Series, 28/05/2009 - 28/05/2009, Macquarie University, Sydney, Presenter(s): Kate Lee

Huveneers, C; Deadly Encounter, How safe are we from sharks in Sydney Waters?; SIMS Presentation, 10/06/2009 - 10/06/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Charlie Huveneers

Huveneers, C, Lee, K, Peddemors, V, Webber, D, Vallee, R, Harcourt, R, MacDonald, T; Lazy Sharks? The wobbegong shark tracking project in Sydney; SIMS Presentation, 10/06/2009 - 10/06/2009, Sydney Institute for Marine Science, Sydney

Huveneers, C; Deadly Encounter, How safe are we from sharks in Sydney Waters? ; Sydney Aquarium Presentation, 20/09/2009 - 20/09/2009, Sydney Aquarium, Sydney, Presenter(s): Charlie Huveneers

Lee, K; Wobbegong research at Cabbage Tree Bay; Manly Environment Awareness Day, 23/01/2010 - 23/01/2010, Sydney, Presenter(s): Kate Lee

Bruce, B; White shark movements off the NSW coast; Jervis Bay Marine Park Marine Lecture Series, 18/03/2010 - 18/03/2010, Jervis Bay, Presenter(s): Bary Bruce

Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seaoor Reconstruction using an AUV; University of Southern California Open Forum, 01/04/2010 - 01/04/2010, Los Angeles, Presenter(s): Stefan Williams

Bruce, B; De-mistifying great white sharks; Hunter-Central Rivers Catchment Management Authority (HCRCMA) Marine Discovery Series 2010, 05/05/2010 - 05/05/2010, Port Stephens, Presenter(s): Bary Bruce

Lee, K; 'Blue groper, wobbegongs and small marine protected areas; Department Environment, Climate Change and Water Seminar, 18/08/2010 - 18/08/2010, Department of Environment, Climate Change and Water, Sydney, Presenter(s): Kate Lee

Lee, K; Whats happened to blue? The use of MPAs by wobbegongs and blue groper; Waverley Council Presentation, 14/10/2010 - 14/10/2010, Sydney, Presenter(s): Kate Lee

Lee, K; Blue groper and small MPAs; Advisory Council for Recreational Fishing Presentation, 07/12/2010 - 07/12/2010, Industry and Investment New South Wales, Sydney, Presenter(s): Kate Lee

Lee, K; The use of VR2W positioning system to position for a cryptic species; Industry and Investment New South Wales Presentation, 09/12/2010 - 09/12/2010, Industry and Investment New South Wales, Sydney, Presenter(s): Kate Lee

Roughan, M; NSW IMOS and Integrated Marine Observing System for South Eastern Australia; NSW Sea Week, 06/03/2011 - 12/03/2011, Sydney, Presenter(s): Moninya Roughan

Roughan, M; NSW IMOS and Integrated Marine Observing System for South Eastern Australia; Hunter Northern Rivers Catchment Management Authority Meeting, 19/04/2011 - 19/04/2011, Central Coast, Presenter(s): Moninya Roughan

Roughan, M; NSW IMOS and Integrated Marine Observing System for South Eastern Australia; Solitary Islands Underwater Club Meeting, 25/05/2011 - 25/05/2011, Coffs Harbour, Presenter(s): Moninya Roughan

van der Meulen, D, Walsh, CT, Gray, C, Taylor, M; Investigating fine-scale spawning habitat and reproductive dynamics of estuarine-dependent fishes; NSW Department of Primary Industries (NSW DPI) Seminar Series, 26/05/2011 - 26/05/2011, Department of Primary Industries, NSW, Sydney, Presenter(s): Dylan van der Meulen

Bruce, B; Great white sharks and marine areas in the Hunter-Central Rivers region; Hunter-Central Rivers Catchment Management Authority (HCRCMA) Marine Discovery Series 2011, 27/05/2011 - 27/05/2011, Aberdeen, Presenter(s): Bary Bruce

Lee, K, Huveneers, C, Peddemors, V, Harcourt, R; Where is bluey now? Results of blue groper monitoring programme in Bronte-Coogee Aquatic Reserve; Waverley Council Presentation, 03/08/2011 - 03/08/2011, Sydney

Lee, K, Huveneers, C, Peddemors, V, Harcourt, R; The wonder of the fourth dimension. Four dimensional modeling of high movement; Macquarie University Internal Seminar, 23/11/2011 - 23/11/2011, Maquarie University, Sydney

Roughan, M; Finding Nemo Understanding the oceanic circulation, nutrient enrichment and connectivity along the coast of Eastern Australia; SIMS Presentation, 15/03/2012 - 15/03/2012, Sydney Institute for Marine Science, Sydney, Presenter(s): Moninya Roughan

Roughan, M; Finding Nemo Understanding the oceanic circulation and connectivity along the coast of Eastern Australia; Sapphire Coast Marine Discovery Forum, 25/03/2012 - 25/03/2012, Eden, Presenter(s): Moninya Roughan

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

Schaeffer, A, Roughan, M, Morris, BD; Shelf dynamics in the Australian Western Boundary Current system from an Integrated Marine Observing System; Mediterranean Institute of Oceanography (MIO) Public Seminar, 03/09/2012 - 03/09/2012, Toulon, Presenter(s): Amandine Schaeffer

Rossi, V, Schaeffer, A, Feng, M, Pattiaratchi, C, Galibert, G, Wood, JE, Sudre, J, Roughan, M, Waite, A; Sporadic physical processes driving temperature and nutrient variability in the Coastal ocean: a comparative study over the East and West Australian continental shelves; CCRC/UNSW Seminar, 12/12/2012 - 12/12/2012, University of New South Wales, Sydney, Presenter(s): Vincent Rossi

Roughan, M, Schaeffer, A, Mantovanelli, A; The Oceanography of 30 degrees South; NMSC Public Seminar, 04/03/2013 - 04/03/2013, Coffs Harbour, Presenter(s): Moninya Roughan

Jakuba, M; Invited seminar for Deep Submergence Lab; Woods Hole Oceanographic Institute Seminar, 03/06/2013 - 03/06/2013, Woods Hole Oceanographic Institute, Woods Hole, Presenter(s): Michael Jakuba

Schaeffer, A, Roughan, M, Morris, BD; Understanding the complex roles of alongshore current and wind forcing in driving upwelling in the East Australian Current; Woods Hole Oceanographic Institute Seminar, 03/06/2013 - 03/06/2013, Woods Hole Oceanographic Institute, Woods Hole, Presenter(s): Amandine Schaeffer

Schaeffer, A, Roughan, M, Morris, BD; Coastal Observations of cross-shelf ocean dynamics in Eastern Australia: implications for upwelling; Gordon Research Conference, 08/06/2013 - 09/06/2013, Madgwick, Presenter(s): Amandine Schaeffer

Kioroglou, S; Assessing temporal and spatial variability of the temperature and velocity fields at the broader shelf area of New South Wales; UNSW Seminar, 18/06/2013 - 18/06/2013, University of New South Wales, Sydney, Presenter(s): Sotirios Kioroglou

Milburn, S; NSW-IMOS and Oceanography.unsw.edu.au; UNSW Seminar, 18/06/2013 - 18/06/2013, University of New South Wales, Sydney, Presenter(s): Stuart Milburn

Ribbat, N; Estuarine –Shelf Exchange off Sydney, and the impact on circulation around a purpose built offshore Artificial Reef; UNSW Seminar, 18/06/2013 - 18/06/2013, University of New South Wales, Sydney, Presenter(s): Nina Ribbat

Roughan, M; Continental shelf processes off southeastern Australia: new insights from the NSW Integrated Marine Observing System; UNSW Seminar, 18/06/2013 - 18/06/2013, University of New South Wales, Sydney, Presenter(s): Moninya Roughan

Wood, JE; Mean circulation, inter-annual, seasonal and monthly variability on the south east Australian continental shelf ; UNSW Seminar, 18/06/2013 - 18/06/2013, University of New South Wales, Sydney, Presenter(s): Julie Wood

Roughan, M; Cross shelf circulation along the coast of southeastern Australia; Sydney Institute of Marine Science Seminar, 20/03/2014 - 20/03/2014, Sydney, Presenter(s): Moninya Roughan

Suthers, I; Zooplankton eddies and the EAC ; Sydney Institute of Marine Science Seminar, 10/04/2014 - 10/04/2014, Sydney, Presenter(s): Iain Suthers

Roughan, M; The oceanography of southeastern Australia; Eastern China Normal University Seminar, 05/05/2014 - 05/05/2014, Shanghai, Presenter(s): Moninya Roughan

Roughan, M; The oceanography of southeastern Australia; State Ocean Administration, 06/05/2014 - 06/05/2014, Shanghai, Presenter(s): Moninya Roughan

Roughan, M; Continental shelf processes along the coast of southeastern Australia; ISMAR CNR, 08/05/2014 - 09/05/2014, Venice, Presenter(s): Moninya Roughan

Harcourt, R; Harbour shark alarm: acoustic network monitoring our migrating marine life ; The Daily Telegraph, 17/07/2014 - 17/07/2014, Sydney, Presenter(s): Rob Harcourt

Harcourt, R; how will the oceans be different if large fish and mammals build up again?; Genes to Geosciences Outlook, 29/07/2014 - 30/07/2014, Macquarie University, Sydney, Presenter(s): Rob Harcourt

Roughan, M; Continental shelf processes along the coast of southeastern Australia; International Science Workshop, 19/08/2014 - 20/08/2014, Kona, Presenter(s): Moninya Roughan

Roughan, M; Continental shelf processes along the coast of southeastern Australia; Ocean University of China Seminar, 24/10/2014 - 24/10/2014, Ocean University of China, Qingdao, Presenter(s): Moninya Roughan

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

Messer, L, et, al.; Spatiotemporal patterns in diazotroph diversity and activity across Australia's oligotrophic coastal ocean; University of Liverpool Invited Seminar, 27/02/2015 - 27/02/2015, University of Liverpool, Liverpool, Presenter(s): Lauren Messer

Doblin, MA; Using advanced bio-optics to observe photosynthetic ocean microbes; SIMS Seminar Series, 09/03/2015 - 09/03/2015, Sydney, Presenter(s): M Doblin

Roughan, M; Continental shelf processes along the coast of southeastern Australia; Sun Yat-Sen University Seminar, 01/04/2015 - 01/04/2015, Sun Yat-Sen University, Guangzhou and Xiamen, Presenter(s): Moninya Roughan

Ambrecht, L; Phytoplankton and oceanography of the Coffs Harbour region, Eastern Australia; Center for Microbial Oceanography: Research and Education Seminar, 01/05/2015 - 01/05/2015, Kona, Presenter(s): Linda Ambrecht

Peddemors, V, Smoothey, A, Bruce, B; Shark movements and attack mitigation strategies; NSW Fisheries - Monthly Presentations, Ballina, Presenter(s): Vic Peddemors

Peddemors, V, Smoothey, A, Bruce, B; Shark movements and attack mitigation strategies, November 2015; NSW Fisheries - Monthly Presentations, Ballina, Presenter(s): Vic Peddemors

Peddemors, V, Smoothey, A, Butcher, P, Bruce, B; Shark movements and attack mitigation strategies, December 2015; NSW Fisheries - Monthly Presentations, Ballina, Presenter(s): Vic Peddemors

Roughan, M; Cross shelf processes in the East Australian Current; NIWA Seminar, 17/12/2015 - 17/12/2015, Wellington, Presenter(s): Moninya Roughan

Doblin, MA; Drift in ocean currents impacts thermal exposure of planktonic organisms; Public Seminar Sydney Institute for Marine Science (SIMS), 06/04/2016 - 06/04/2016, Sydney Institute for Marine Science, Sydney, Presenter(s): M Doblin

Roughan, M; The Influence of a western boundary current on continental Shelf Processes Along SE Australia; SIMS Public Lecture, 07/04/2016 - 07/04/2016, Sydney Institute for Marine Science, Sydney, Presenter(s): Moninya Roughan

Steckenreuter, A; Tracking Marine Species around Australia - Great Barrier Reef to Southern Ocean and Ningaloo Reef to Sydney Harbour; Invited Seminar at Stockholm University, 12/05/2016 - 12/05/2016, Stockholm, Presenter(s): Andre Steckenreuter

Marzinelli, EM; The ecology of SE Australian underwater forests: declines and potential solutions; SIMS Seminar Series & Topics in Australian Marine Science Seminar Program, 31/05/2016 - 31/05/2016, Sydney, Presenter(s): Ezequiel Marzinelli

Roughan, M; Observing system design; NIWA Seminar, 16/06/2016 - 16/06/2016, New South Wales Marine Parks Authority, Wellington, Presenter(s): Moninya Roughan

Wood, JE; The circulation on the continental shelf of south eastern Australia from 2009 to 20163; Seminar at National Institute of Oceanography, 07/02/2017 - 07/02/2017, National Institute of Oceanography, Haifa, Presenter(s): Julie Wood

Ambrecht, L; Relationship between modern phytoplankton and oceanography in the context of paleo-oceanographic estimates; Micropaleontology Reference Center, Kochi University, Kochi, Presenter(s): Linda Ambrecht

Harcourt, R; Bionic seals doing their bit for science in Antarctica as transmitting headsets help our understanding of changes in the Southern Ocean ; 4BL Radio, Sydney, Presenter(s): Rob Harcourt

Harcourt, R; Bionic seals doing their bit for science in Antarctica as transmitting headsets help our understanding of changes in the Southern Ocean ; The Daily Telegraph, Sydney, Presenter(s): Rob Harcourt

Jakuba, M, Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seaoor Reconstruction using an AUV; Centre for Marine Studies and Centre for Remote Sensing and Spatial Information Science Seminar, University of Queensland, Brisbane

Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seaoor Reconstruction using an AUV; Monterey Bay Aquarium Research Institute Seminar, Monterey Bay Aquarium Research Institute, Moss Landing, Presenter(s): Stefan Williams

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## Conferences, Symposia or Workshops

### Conference Oral Presentation

Cetina-Heredia, P, van Sebille, E, Roughan, M; Nutrient input into Australian ocean basins by ocean boundary currents; International Union of Geophysics and Geology (IUGG) General Assembly, 02/07/2007 - 13/07/2007, Perugia, Presenter(s): Paulina Cetina-Heredia

Johnson-Robertson, M, Pizarro, O, Williams, S, Rees, M; Identifying novel benthic habitats in high resolution AUV imagery; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne

Roughan, M; NSW-IMOS and oceanographic science; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): Moninya Roughan

Suthers, I, Harcourt, R, Huveneers, C; NSW-IMOS and oceanographic effects on organisms, and AATAMS (Australian Acoustic Tagging & Monitoring System); Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne

Suthers, I; SIMS and the Australian Acoustic Telemetry & Monitoring System; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): Iain Suthers

Williams, S, Pizarro, O, Johnson-Robertson, M, Mahon, I, Rigby, P, Barkby, S; IMOS—Integrated Marine Observing System: Integrating IMOS with underwater cultural heritage research; New Ground: Australian Archaeological Conference, 21/09/2007 - 26/09/2007, Sydney

Johnson-Robertson, M, Mahon, I, Pizarro, O, Williams, S; Generating Visually Consistent Benthic Surface Meshes Using Visual Features Matthew; OCEANS 2007 MTS/IEEE, 29/09/2007 - 04/10/2007, Vancouver

Rigby, P, Pizarro, O, Williams, S, Colquhoun, J; Effective Benthic Surveying with Autonomous Underwater Vehicles; OCEANS 2007 MTS/IEEE, 29/09/2007 - 04/10/2007, Vancouver

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

Pizarro, O, Seiler, J, Bridge, T, Colquhoun, J, Barrett, N, Williams, S; Towards image-based habitat classification; GeoHab 2009, 05/05/2008 - 08/05/2009, Trondheim

Williams, S, Pizarro, O, Mahon, I, Johnson-Robertson, M; Habitat mapping using AUVs; Australia-Japan Marine Science Forum, 27/10/2008 - 30/10/2008, Australian Institute of Marine Science, Townsville



Roughan, M, Suthers, I, Pritchard, T; Cross-shelf processes off the coast of NSW; results from the SEAMOS array; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Huveneers, C, Lee, K, Peddemors, V, Webber, D, Vallee, R, Harcourt, R, MacDonald, T; Fine-scale position of wobbeongs within an aquatic reserve – novel use for VR2W acoustic receiver; 8th Indo-Pacific Fish Conference, 31/05/2009 - 05/06/2009, Fremantle

Johnson-Robertson, M, Pizarro, O, Williams, S; Towards Large Scale, Integrated Optical And Acoustic AUV Survey; Underwater Acoustic Measurements (UAM): Technologies and Results, 3rd International Conference, 21/06/2009 - 26/06/2009, Nafpilon, Presenter(s): Stefan Williams

Bryars, S, Paul, R, Huveneers, C, Smith, I, Payne, N, MacDonald, T; What size do no-take marine reserves need to be for total protection of adult western blue groper? ; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

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

Coman, F, Davies, C, Delacruz, J, McLeod, DJ, Pritchard, T, Slotwinski, A, Richardson, A; Seasonal, inter-annual, and potential decadal changes in the zooplankton community off Port Hacking, NSW; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Doblin, MA, Thompson, P, Hassler, C, Baird, ME, Suthers, I, Ralph, P; IMOS: The bridge between bio-optical data and modelled primary production; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Huveneers, C, Bruce, B, Hobday, A, Speed, CW, Meekan, MG, Harcourt, R; The Australian Acoustic Tagging and Monitoring System (AATAMS): applications for high trophic level predators; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Jakuba, M, Johnson-Robertson, M, Pizarro, O, Williams, S; Co-registered multibeam acoustic and photographic mapping of benthic environments with an AUV; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Pritchard, T, Krogh, M, Delacruz, J, Davies, P, Ingleton, T; The legacy of Sydney's long term monitoring stations and prospects for integrated monitoring of coastal waters; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Roughan, M, MacDonald, HS, Baird, ME; Connectivity along the Continental Shelf of southeastern Australia; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Roughan, M, Suthers, I, Harcourt, R, Williams, S, Pritchard, T; Highlights from NSW IMOS; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Wood, JE, Roughan, M, Tate, P; Upwelling off the Coast of Sydney: Observations from the NSW IMOS Array ; 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

Barkby, S, Williams, S, Pizarro, O, Jakuba, M; Incorporating prior bathymetric maps with distributed particle bathymetric SLAM for improved AUV navigation and mapping; OCEANS 2009 MTS/IEEE Biloxi Conference and Exhibition, 26/10/2009 - 29/10/2009, Biloxi

Roughan, M, Morris, BD, Suthers, I; An Integrated Marine Observing System for southeastern Australia; Australian Meteorological and Oceanographic Society (AMOS) Conference, 27/01/2010 - 29/01/2010, Canberra, Presenter(s): Moninya Roughan

Baird, ME, Roughan, M, Morris, BD, Suthers, I; An Integrated Marine Observing System for southeastern Australia: the East Australian Current and its interaction with coastal environments; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Pizarro, O, Colquhoun, J, Moore, C, Radford, B, Williams, S, Jakuba, M, Heyward, A; Automated Benthic Habitat Classification from Optical Imagery; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM; Downscaling an eddy resolving model to investigate seasonal and inter-annual variability in coastal connectivity in a Western Boundary Current; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Lee, K, Huveneers, C, Peddemors, V, Smith, F, Harcourt, R; VPS, a novel use of VR2W's for long-term precise movement assessment: trials and tribulations in determining wobbegong shark habitat use; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Lee, K; VPS, a novel use of VR2s for long-term precise movement assessment: trials and tribulations in determining wobbegong shark habitat use; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Kate Lee

Smoothey, A, Peddemors, V, Gray, C, Kennelly, SJ; Patterns of distribution and movement of adult bull sharks in Sydney Harbour; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Morris, BD, Roughan, M, Doblin, MA; Variability and boundary current effects on the coastal waters of Sydney, Australia using IMOS data; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Ahsan, N, Williams, S, Jakuba, M, Pizarro, O, Radford, B; Predictive habitat models from AUV-based multibeam and optical imagery; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Bender, A, Williams, S, Pizarro, O, Radford, B; Adaptive exploration of benthic habitats using gaussian processes; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Schaeffer, A, Roughan, M, Morris, BD, Rossi, V; Physical variability on the shelf off NSW Australia: New Insights from the NSW Integrated Marine Observing System; ICES Annual Science Conference, 20/09/2010 - 24/09/2010, Nantes

Gray, C, Taylor, M, Walsh, CT, Reinfelds, I, Smoothey, A, van der Meulen, D, Peddemors, V, Payne, N, Gannon, R, Butler, G, Suthers, I; Acoustic telemetry: Connectivity and fidelity of southeast Australian estuarine and coastal fishes and sharks; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Charles Gray

van der Meulen, D, Walsh, CT, Gray, C, Taylor, M; Investigating fine-scale spawning habitat and reproductive dynamics of estuarine-dependant fishes; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Dylan van der Meulen

Earp, A, Hanson, CE, Baird, ME, Brando, V, Allen, S, Clementson, L, Daniel, P, Humphries, J, Parslow, J, Ralph, P, Strutton, P, Suthers, I, Thompson, P, Underwood, M, Doblin, MA; Calibrating and validating bio-optical signals from ocean sensors; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Harcourt, R, et. al.; The Australian Animal Tagging and Monitoring System (AATAMS); Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Rob Harcourt

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

Roughan, M, Morris, BD, Doblin, MA, Ingleton, T, Pritchard, T, Suthers, I, Wood, JE; Giving spatial & temporal context to 70 years of oceanographic observations at Port Hacking, NSW; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Moninya Roughan

Wood, JE, Roughan, M, Morris, BD; The origin & variability of cold water events observed off Sydney, NSW; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Julie Wood

Griffin, DA, Cahill, M, Roughan, M, Oke, PR; Observing and modelling the East Australian Current and its eddies using IMOS data and the Bluelink models; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J; Anatomy of a flooding warm-core eddy; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Morris, BD, Macdonald, G, Roughan, M, Holden, C; The first three years of NSW-IMOS mooring deployments; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Rossi, V, Galibert, G, Wood, JE, Schaeffer, A, Sudre, J, Roughan, M, Waite, A; Spatio-temporal variability of sporadic upwelling events over the East Australian continental margin for the last decade; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Roughan, M, Morris, BD, Schaeffer, A; Using High-Resolution Ocean Timeseries Data to Give Context to long term hydrographic Sampling off Sydney, Australia; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Schaeffer, A, Roughan, M, Morris, BD; Physical variability on the shelf off NSW Australia: New Insights from the NSW Integrated Marine Observing System; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Rossi, V, Feng, M, Roughan, M, Waite, A; Upwelling over North-Western Australia: complex interactions between the surface and sub-surface circulation in the Leeuwin Current; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Roughan, M, Everett, JD, Galibert, G, Doblin, MA; Walsh Advances In Incorporating Bio-Optical Data in Long Term Observing Systems Challenges and Solutions; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City, Presenter(s): Moninya Roughan

Roughan, M, Everett, JD, Galibert, G, Doblin, MA, Walsh, ID; Advances in Incorporating Bio-Optical Data in long term observing systems. Challenges and Solutions; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Roughan, M, Morris, BD, Schaeffer, A; Using high-resolution ocean timeseries data to give context to long term hydrographic sampling off Port Hacking, NSW, Australia; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Roughan, M, Morris, BD, Schaeffer, A; Using High-Resolution Ocean Timeseries Data to Give Context to long term hydrographic Sampling off Sydney, Australia; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Schaeffer, A, Roughan, M, Morris, BD, Rossi, V; Physical Variability of the eastern Australian shelf from an Integrated marine Observation System; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea

Armbrecht, L, Armand, L, Raftos, L, Roughan, M; Phytoplankton time-series Survey and biogeochemical Assessment of the Coffs Harbour Region; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Armbrecht, L, Armand, L, Raftos, L, Roughan, M; Phytoplankton time-series Survey and biogeochemical Assessment of the Coffs Harbour Region, Eastern Australia; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Linda Armbrecht

Everett, JD, Baird, ME, Roughan, M, Suthers, I, Oke, PR, Doblin, MA; Using satellite datasets to examine patterns in chlorophyll a and net primary productivity adjacent to the East Australian Current; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Jason Everett

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J; The evolution of a Cold-Core Eddy in a Western Boundary Current; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Helen MacDonald

Roughan, M, Galibert, G, Morris, BD; Using High-Resolution Ocean Timeseries Data to Give Context to 50 years of hydrographic Sampling off Sydney, Australia; AOGS - AGU(WPGM) Joint Assembly, 13/08/2012 - 17/08/2012, Singapore

Schaeffer, A, Roughan, M, Morris, BD, Rossi, V; Physical Variability on the Shelf off NSW Australia: New Insights from the NSW Marine Integrated Observing System; AOGS - AGU(WPGM) Joint Assembly, 13/08/2012 - 17/08/2012, Singapore, Presenter(s): Amandine Schaeffer

Steinberg, C, Roughan, M, Austin, T; IMOS Australian National Mooring Network - Regional Mooring Arrays; ADCP's (Acoustic Doppler Current Profiler) in Action 2012, 08/10/2012 - 09/10/2012, Gold Coast, Presenter(s): Craig Steinberg

Bell, M, Robertson, R; Internal Tides and Waves off NSW coast as Observed in IMOS Mooring Data; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Matthew Bell

Mantovanelli, A, Roughan, M; Lagrangian dynamics in the solitary islands Marine Park (SIMP); Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Alessandra Mantovanelli

Schaeffer, A, Roughan, M, Morris, BD; Understanding the complex roles of alongshore current and wind forcing in driving upwelling in the east Australian Current; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Amandine Schaeffer

Waite, A, Thompson, P, Tilbrook, B, Akl, J, Raes, E, Feng, M, Rossi, V, Roughan, M, Wyatt, A; Formation of shallow high-nitrate low-oxygen layers in the eastern Indian Ocean supported by surface nitrogen fixation; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Anya Waite

Wood, JE, Roughan, M; Explaining variability on the continental shelf upstream and downstream of a western boundary current's separation zone; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Julie Wood

Armbrecht, L, Roughan, M, Rossi, V, Schaeffer, A, Davies, P, Waite, A, Armand, L; Phytoplankton composition under contrasting oceanographic conditions in a biological hotspot; ASLO 2013 Aquatic Sciences Meeting, 17/02/2013 - 22/02/2013, New Orleans, Presenter(s): Linda Armbrecht

Ajani, P, Armand, L, Murray, S, Brett, S, Hallegraeff, GM; Morphological, molecular and toxicological characterization of the diatom genus *Pseudo-nitzschia* in southeastern Australian coastal waters; 9th International Conference on Molluscan Shellfish Safety, 17/03/2013 - 22/03/2013, Sydney, Presenter(s): Penny Ajani

Henschke, N, Everett, JD, Doblin, MA, Pitt, K, Richardson, A, Suthers, I; Demographic characteristics of salp swarms (*Thalia democratica*) and their interannual variability; 4th International Jellyfish Bloom Symposium, 05/06/2013 - 07/06/2013, Hiroshima, Presenter(s): Natasha Henschke

Cadiou, G, Booth, D, Gray, C, Taylor, M; Drivers of temporal and spatial movements patterns in luderick *Girella tricuspidata* in NSW, Australia; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Gwenael Cadiou

Kobashi, D, Robertson, R, Warner, J; Internal tides in shallow water and their interactions with the bottom boundary layer; Asia-Oceania Geosciences Society Annual Meeting, 24/06/2013 - 28/06/2013, Brisbane, Presenter(s): Daijiro Kobashi

Marzullo, T; Accelerometry estimates in a free-living benthic elasmobranch, the Common Stingaree (*Trygonoptera testacea*); 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Tegan Marzullo

Marzullo, T, Payne, N, Suthers, I, Knott, N, Taylor, M; Driving factors behind stingaree activity; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Tegan Marzullo

Payne, N, Taylor, M, Watanabe, Y, Semmens, J; From physiology to physics: the strength of biotelemetry is its flexibility; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Nicholas Payne

Roughan, M, Mantovanelli, A, MacDonald, HS; Physical variability on the Continental Shelf off southeastern Australia: new insights from the NSW Integrated Marine Observing System; AOGS - Asia Oceania Geosciences Society Annual Meeting, 24/06/2013 - 28/06/2013, Brisbane, Presenter(s): Moninya Roughan

Schaeffer, A, Roughan, M; Cross-shelf dynamics in a western boundary current regime: implications for upwelling; Asia-Oceania Geosciences Society Annual Meeting, 24/06/2013 - 28/06/2013, Brisbane, Presenter(s): Amandine Schaeffer

Simpfendorfer, C, Espinoza, M, Heupel, M, Tobin, A; The role of non-resident sharks in shaping coral reef communities; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Colin Simpfendorfer

Taylor, M, McPhan, L, Gray, C, van der Meulen, D, Payne, N; Interactive drivers of activity in a free-ranging estuarine predator; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Matt Taylor

Armbrecht, L, Schaeffer, A, Roughan, M, Davies, P, Armand, L; Phytoplankton abundance and distribution in a biological hotspot; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Linda Armbrecht

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M; Inter-annual variability of the circulation along the coast of southeastern Australia and its impact on particle transport; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Paulina Cetina-Heredia

Ferrari, R, Malcolm, HA, Byrne, M, Williams, S, Jordan, A, Friedman, A, Figueria, W; Habitat structural complexity drives fish spatial distribution at multiple scales; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Renata Ferrari

Ingleton, T, Davies, P, Jordan, A, Williams, S; Hydrographic observations, towed video and relationships to benthic habitat: recent surveys in NSW's marine protected areas; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): T Ingleton

Marzinelli, EM, Campbell, AH, Verges, A, Wernberg, T, Thomas, T, Steinberg, P; Continental patterns of kelp condition and associated bacterial communities; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Ezequiel Marzinelli

Roughan, M, Schaeffer, A, Mantovanelli, A; Quantifying upwelling on the continental shelf of southeastern Australia; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Moninya Roughan

Verges, A, Campbell, AH, Marzinelli, EM, Ballesteros, E, Steinberg, P; A novel herbivore-mediated community phase shift and the tropicalisation of temperate marine ecosystems; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Adriana Verges

Balcazar, N, Tripovich, J, Dziak, R, Mellinger, D, Nieu Kirk, S, Klinck, H, Rogers, T; Calls reveal population structure of two pygmy blue whales in the Indo-Pacific; Australian Mammal Society 59th Scientific meeting, 08/07/2013 - 10/07/2013, University of New South Wales, Sydney, Presenter(s): Naysa Balcazar

Lee, K, Huvneers, C, Gimenez, O, Peddemors, V, Harcourt, R; To catch or to sight? A comparison of demographic parameter estimates obtained from mark-recapture and mark-resight models; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Kate Lee

Stocks, J, Gray, C, Taylor, M; Movements, home range and habitat associations of a temperate shallow reef species, *Girella elevata*; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Jerom Stocks

Armbrecht, L; Testing phytoplankton quantification techniques: microscopy and CHEMTAX; Macquarie University Higher Degree Research Conference, 05/11/2013 - 07/11/2013, Macquarie University, Sydney, Presenter(s): Linda Armbrecht

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M; Transport and separation in the East Australian Current: inter-annual variability, trend, and implications for advection of propagules; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Paulina Cetina-Heredia

Mantovanelli, A, Roughan, M, Keating, S, Wyatt, LR, Schaeffer, A; On the complex interactions of the East Australian Current (EAC) and continental shelf waters; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Alessandra Mantovanelli

Robertson, R; Coastally trapped waves on the southern and eastern coasts of Australia; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Robin Robertson

Robertson, R; The Effects of Latitude on Internal Tides and Tidal Mixing; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Robin Robertson

Rykova, T; A comparison of the three-dimensional structure of the western boundary current eddies; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Tatiana Rykova

Schaeffer, A; Can we quantify the transport and frequency of bottom water uplift driven by the East Australian Current?; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Amandine Schaeffer

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M, Feng, M; Larval transport under a climate change scenario in a strengthening western boundary current; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Paulina Cetina-Heredia

Mantovanelli, A, Roughan, M, Keating, S, Wyatt, LR, Schaeffer, A; Has the importance of submesoscale fronts been undervalued in coastal areas bordered by the East Australian Current?; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Alessandra Mantovanelli

Robertson, R, Kobashi, D; The Effects of Latitude on Internal Tides and Mixing; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu

Schaeffer, A, Roughan, M, Wood, JE; Quantifying Ekman transport and bottom water uplift by a western boundary current: in-situ observations on the Australian continental shelf; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Amandine Schaeffer

Ingleton, T, Davies, C, Jordan, A, Neilson, J, et, al.; Habitat mapping, towed video and benthic invertebrate assemblages within a marine park on Australi's temperate east coast; GeoHab 2014 Workshop: Ground-validation for remotely sensed marine habitat mapping and species distribution modelling, 05/05/2014 - 05/05/2014, Melbourne, Presenter(s): T Ingleton

MacDonald, HS, Roughan, M, Wilkin, J, Baird, ME; Eddies in the East Australian Current; ROMS/TOMS Workshop, 26/05/2014 - 29/05/2014, Rovinj, Presenter(s): Helen MacDonald

Francis, M, Duffy, C, Lyon, W; White shark (*Carcharodon carcharias*) spatial and temporal use of an aggregation site in southern New Zealand; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Malcolm Francis

Keller, K; Reef residency and behaviour of two Australian elasmobranchs; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Krystle Keller

Balcazar, N, Nieu Kirk, 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

Ajani, P, Murray, S, Hallegraeff, GM, Brett, S, Armand, L; Cryptic and harmful: molecular analysis of algal species causing amnesic shellfish poisoning in Australian waters; 5th Congress of the International Society for Applied Phycology, 22/06/2014 - 27/06/2014, Sydney, Presenter(s): Penny Ajani

Brodie, S, Hobday, A, Smith, JA, Everett, JD, Taylor, M, Gray, C, Suthers, I; The oceanographic habitats of two migratory pelagic fish: dolphinfish (mahi mahi) and yellowtail kingfish ; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Stephanie Brodie

Keller, K; Reef residency and behaviour of two endemic elasmobranchs; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Krystle Keller

Marzullo, T; Divergent thermal performance in wild, co-habiting stingrays; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Tegan Marzullo

Taylor, M, van der Meulen, D, Walsh, CT, Reinfelds, I, Ives, M, Gray, C; Shock, stress or signal? Implications of freshwater flows for a top-level estuarine predator; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Matt Taylor

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, Nieu Kirk, 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

Cadiou, G, Booth, D, Taylor, M, Payne, N; Multi-scale movement patterns and field metabolic rates in luderick *Girella tricuspidata* using acoustic accelerometers; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Gwenael Cadiou

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M, Feng, M; Larval transport and connectivity of marine reserves under a climate change scenario; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Paulina Cetina-Heredia

Robertson, R, Hartlipp, P, Boettger, D, Bell, M; The role of tides and tidal mixing in temperature and nitrate distributions off New South Wales; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Robin Robertson

Schaeffer, A, Roughan, M, White, D; Watermass Characteristics in the East Australian Current Separation Zone from Repeat Autonomous Glider Deployments; AOGS - Asia Oceania Geosciences Annual Meeting, 28/07/2014 - 04/08/2014, Sapporo, Presenter(s): Amandine Schaeffer

Wood, JE, Roughan, M, Schaeffer, A; Low Frequency Variability in the Circulation on the southeastern Australian Continental Shelf; AOGS - Asia Oceania Geosciences Annual Meeting, 28/07/2014 - 04/08/2014, Sapporo, Presenter(s): Julie Wood

Francis, M, Duffy, C, Lyon, W; White shark (*Carcharodon carcharias*) aggregations at Stewart Island - spatial and temporal habitat use; New Zealand Marine Sciences Society Conference, 11/08/2014 - 14/08/2014, Nelson, Presenter(s): Malcolm Francis

Brown, MV; Patterns and predictions in Australian marine microbiota; Singapore Interactive Meeting on Microbial Ecology Research, 22/08/2014 - 23/08/2014, Singapore, Presenter(s): M Brown

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

Henschke, N, Smith, J, Everett, JD, Suthers, I; A density dependent *Thalia democratica* population model ; ICES Annual Science Conference, 15/09/2014 - 19/09/2014, Coruna, Presenter(s): Natasha Henschke

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M, Feng, M; Past, present and future transport patterns along the east Australian coast and its impact on larval dispersal; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Paulina Cetina-Heredia

Coughlan, I, Peirson, B, Morison, R, Banner, MML; Measured and modelled Wave Climates of South-Eastern Australia; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Russel Morison

Robertson, R; Parameterization of Vertical Tidal Mixing in ROMS; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Robin Robertson

Robinson, C, Hughes, D, Ralph, P, Suggett, DJ, Cherukuru, N, Doblin, MA; Using multi-colour fast repetition rate fluorometers to discriminate the taxon specific photoacclimation strategies of mixed phytoplankton communities; Ocean Optics XXII, 26/10/2014 - 31/10/2014, Portland, Presenter(s): Charlotte Robinson

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

Robertson, R, Clements, J; Acoustic ray propagation in the waters off eastern Australia using ocean glider data; 43rd International Congress on Noise Control Engineering, 16/11/2014 - 19/11/2014, Melbourne, Presenter(s): J Clements

Robertson, R, Clements, J; Tidal Effects on Acoustic Propagation off Eastern Australia; 43rd International Congress on Noise Control Engineering, 16/11/2014 - 19/11/2014, Melbourne, Presenter(s): Robin Robertson

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

Schaeffer, A, Gramouille, A, Mantovanelli, A, Roughan, M; Submesoscale meanders and frontal effies along east Australian current observed by HF radars; 47th International Liege Colloquium on Ocean Dynamics Marine Environmental Monitoring, Modelling and Prediction, 04/05/2015 - 08/05/2015, Liege, Presenter(s): Amandine Schaeffer

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

Schaeffer, A, Roughan, M; Influence of a western boundary current on shelf dynamics, upwelling and bio-physical variability from repeat glider deployments; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Amandine Schaeffer

Schaeffer, A, Roughan, M, Wood, JE; Cross-Shelf Dynamics, bottom boundary layer transport and upwelling on the continental shelf adjacent to the East Australian Current; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Amandine Schaeffer

van Sebille, E, Bull, C, Cetina-Heredia, P, Ypma, S, Roughan, M, England, MH; Variability in the Australian Boundary Currents: connecting the East Australian and Leeuwin Currents; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Erik van Sebille

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

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

Davies, P, Potts, J, Sutherland, M, et. al.; Where does all the mud go?; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Peter Davies

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

Everett, JD, Smith, J, Suthers, I, Taylor, M; Eastern king prawn dispersal in eastern Australia: new information from particle tracking; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Jason Everett

Harrison, DE; Phytoplankton class selectivity of oligotrophic phytoplankton assemblages under nutrient enrichment; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): D Harrison

Jordan, A; Recent advances in the mapping and monitoring of marine habitats that aim to improve management effectiveness; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Alan Jordan

Richardson, A, Rochester, W, Eriksen, R; Plankton 2015: an 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

Ajani, P, Hallegraeff, GM, Kohli, G, Murray, S; Population structure of ecologically significant diatoms in south eastern Australia using microsatellite markers; Molecular Life of Diatoms, 07/07/2015 - 10/07/2015, Seattle, Presenter(s): Penny Ajani

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

Hoenner, X, Steckenreuter, A, Simpfendorfer, C, Peddemors, V, Burgess, J, Tattersall, K, Harcourt, R; Australia's National Database for Acoustic Monitoring of Marine Species; 3rd International Conference on Fish Telemetry (ICFT) / 5th Annual OTN Canada Symposium, 13/07/2015 - 17/07/2015, Halifax, Presenter(s): Xavier Hoenner

Taylor, M, Becker, A, Payne, N, Lowry, M; Feels like home: Movement and homing behaviour of mature fish translocated from a power-station canal; 3rd International Conference on Fish Telemetry (ICFT) / 5th Annual OTN Canada Symposium, 13/07/2015 - 17/07/2015, Halifax, Presenter(s): Matt Taylor

van der Meulen, D, Payne, N, Gray, C, Walsh, CT, Reinfelds, I, Suthers, I, Taylor, M; Temperature-mediated spawning migrations of an estuarine-dependent sillaginid; 3rd International Conference on Fish Telemetry (ICFT) / 5th Annual OTN Canada Symposium, 13/07/2015 - 17/07/2015, Halifax, Presenter(s): Dylan van der Meulen

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

Hartlipp, P, Robertson, R, Bell, M; Observed Internal Tides on the Continental Shelf off Eastern Australia; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): P Hartlipp

Hartlipp, P, Robertson, R; Internal Tides of Eastern Australia; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): P Hartlipp



Hartlipp, P, Robertson, R; Internal Tides off Eastern Australia; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): P Hartlipp

Keating, S; Estimating mixing by submesoscale eddies using super-resolved satellite images; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Shane Keating

Robertson, R, Hartlipp, P; Internal Tides off Eastern Tasmania and the T-Tide Project; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Robin Robertson

Roughan, M, Kerry, C, Powell, B, Oke, PR; Observation Impact in Australia's Western Boundary Current; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Moninya Roughan

Roughan, M; Upwelling along southeastern Australia; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Moninya Roughan

Schaeffer, A, Roughan, M; Influence of the East Australian Current on shelf dynamics, upwelling and bio-physical variability from repeat glider deployments; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Amandine Schaeffer

Wood, JE, Schaeffer, A, Roughan, M; Investigations into seasonal variability on the continental shelf adjacent to the East Australian Current; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Julie Wood

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

Ferrari, R, Byrne, M, Williams, S, Figueria, W; Disentangling the relationship between community composition and habitat structural complexity: what is the best metric?; 89th Australian Coral Reef Society Conference, 28/07/2015 - 31/07/2015, Day Dream Island, Presenter(s): Renata Ferrari

Ostrowski, M, Mazard, S, Varkey, D, Pitt, F, Scanlan, D, Paulsen, I; Lifestyle choices: Molecular analysis of niche adaptation in marine cyanobacteria; Gordon Conference on Molecular Marine Ecology, 02/08/2015 - 07/08/2015, Hong Kong, Presenter(s): Martin Ostrowski

Adams, K, Fetterplace, L, Taylor, M, Davis, A, Knott, N; Fiddler on the Reef- Movement and Abundance of the Eastern Fiddler Ray; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Kye Adams

Cadiou, G, Booth, D, Taylor, M; Drivers of temporal and spatial movements patterns in *Girella tricuspidata*; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Gwenael Cadiou

Everett, JD, Smith, JA, Suthers, I, Taylor, M; Eastern king prawn dispersal in Eastern Australia: new information from particle tracking; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Jason Everett

Fetterplace, L, Adams, K, Taylor, M, Davis, A, Knott, N; Are soft sediment fishes always highly mobile? An assessment of the movement patterns of the bluespotted flathead; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Lachlan Fetterplace

Fowler, A, Lloyd, M, Huveneers, C; Acoustic telemetry informs about movement behaviour of snapper in Northern Gulf St. Vincent - thoughts for spatial management. ; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Anthony Fowler

Gannon, R, Suthers, I, Gray, C, Payne, N, Taylor, M; Effect of environmental variables on the movements of dusky flathead; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Ruan Gannon

Knott, N, Ferguson, A, Fetterplace, L, Marzullo, T, Bass, N, Brown, CJ, Suthers, I, Harvey, ES, Davis, A, Taylor, M; Movement of fishes among reefs and over soft sediments within a temperate embayment: the necessity and implication of movement data for spatial management; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Nathan Knott

Marzullo, T, Taylor, M, Payne, N, Suthers, I; Shedding light on the spatial ecology of the estuary stingray, *Dasyatis fluviorum*; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Tegan Marzullo

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

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

van der Meulen, D, Payne, N, Gray, C, Walsh, CT, Reinfelds, I, Suthers, I, Taylor, M; Temperature-mediated spawning migrations of an estuarine-dependent sillaginid; Australian Society for Fish Biology Conference, 11/10/2015 - 14/10/2015, Sydney, Presenter(s): Dylan van der Meulen

Robertson, R, Hartlipp, P; Acoustic Propagation off Eastern Australia; Australian Acoustical Society Conference, 15/11/2015 - 18/11/2015, Hunter Valley, Presenter(s): Robin Robertson

Brown, MV, Bodrossy, L, Van De Kamp, J, Ostrowski, M, Seymour, JR, Bissett, A, Kahlke, T, Fitzgerald, A, Moltmann, T; Molecular time series and species distribution modelling reveal the long-term patterns of unseen organisms; C3 UTS Annual Colloquium on Functional Genetics of Phytoplankton, 26/11/2015 - 27/11/2015, Sydney Institute for Marine Science, Sydney, Presenter(s): M Brown

Fitzgerald, A; Bioplatforms Australia Marine Microbial Biodiversity Data Resource; C3 UTS Annual Colloquium on Functional Genetics of Phytoplankton, 26/11/2015 - 27/11/2015, Sydney Institute for Marine Science, Sydney, Presenter(s): Anna Fitzgerald

Ostrowski, M, Mazard, S, Varkey, D, Pitt, F, Scanlan, D, Paulsen, I; A global perspective on local biogeography; C3 UTS Annual Colloquium on Functional Genetics of Phytoplankton, 26/11/2015 - 27/11/2015, Sydney Institute for Marine Science, Sydney, Presenter(s): Ian Paulsen

Keating, S; ACT Stochastic methods for interpolating satellite imagery; ANZIAM annual Conference, 07/02/2016 - 11/02/2016, Canberra, Presenter(s): Shane Keating

Ribbat, N; Drivers of variability across the inner shelf off Sydney; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Nina Ribbat

Schaeffer, A; Submesoscale frontal meanders and eddies along the East Australian Current observed by HF Radars; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Amandine Schaeffer

Doblin, MA, van Sebille, E; Plastic and evolutionary responses of plankton to environmental change are influenced by drift in ocean currents; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): M Doblin

Schaeffer, A, Mantovanelli, A, Gramouille, A, Roughan, M; Submesoscale frontal meanders and eddies along the East Australian Current observed by HF Radars; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Amandine Schaeffer

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): Taniha Mahjabin

Williams, S; High-resolution marine survey: applications in engineering science, ecology, archaeology and geology; IEEE International Conference on Robotics and Automation , 16/05/2016 - 21/05/2016, Stockholm, Presenter(s): Stefan Williams

Robertson, R; Surface Mixing and Its Implementation in Regional Ocean Models; Japanese Geophysical Union Conference, 23/05/2016 - 25/05/2016, Chiba, Presenter(s): Robin Robertson

Ajani, P, Kohli, G, Darling, AE, Liu, M, Ostrowski, M, Murray, S; Genome variability in the ecologically significant marine diatom *Leptocylindrus* (Bacillariophyta) in a southern hemisphere upwelling system; Society for Conservation Biology Symposium, 04/07/2016 - 10/07/2016, Brisbane, Presenter(s): Penny Ajani

Roughan, M, Keating, S, Schaeffer, A, Cetina-Heredia, P; An observational study of the biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current system; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Moninya Roughan

Ajani, P, Kohli, G, Darling, AE, Liu, M, Ostrowski, M, Murray, S; Genome variability in the ecologically significant marine diatom *Leptocylindrus* (Bacillariophyta) in a southern hemisphere upwelling system; Sydney Bioinformatics Research Symposium, 22/07/2016 - 22/07/2016, University of Sydney, Sydney, Presenter(s): Penny Ajani

Robertson, R, Hartlipp, P; Internal Tides off Eastern Australia; 13th Annual Meeting, Asia Oceania Geosciences Society (AOGS), 31/07/2016 - 05/08/2016, Beijing, Presenter(s): Robin Robertson

Robertson, R, Hartlipp, P; Wind, Tidal, and Geothermal Mixing on the Heard Island Plateau; 13th Annual Meeting, Asia Oceania Geosciences Society (AOGS), 31/07/2016 - 05/08/2016, Beijing, Presenter(s): Robin Robertson

Miskiewic, AG; Comparisson of fish larvae communities in a young versus an old frontal eddy of the East Australian Current in relation to possible source waters; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart

Smith, JA; An evaluation of long-term monitoring of larval fish in eastern Australia; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): James Smith

### Conference Poster

Harcourt, R, Suthers, I, Huveneers, C, Semmens, J; Australian Acoustic Tracking and Monitoring System (AATAMS); 7th Conference on Fish Telemetry, 17/06/2007 - 21/06/2007, Silkeborg

Harcourt, R, Suthers, I, Huveneers, C, Semmens, J; Australian Acoustic Tracking and Monitoring System (AATAMS); Ocean Tracking Network Workshop for South Africa, 16/07/2007 - 17/07/2007, Cape Town

Heron, M, Roughan, M, Suthers, I, Banner, MML, Prytz, A, Page, G, Atwater, DP; Monitoring ocean parameters from an HF radar: case study at Coffs Harbour, Australia; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Heron, M, Roughan, M, Suthers, I, Prytz, A, Page, G, Atwater, DP; Monitoring parameters from an HF radar: Case study at Coffs Harbour, Australia; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Pritchard, T, Krogh, M, Davies, P, Ingleton, T, Suthers, I, Roughan, M; Detecting climate change in the coastal waters off south east Australia – past, present and future; Greenhouse 2009: Climate Change and Resources, 23/03/2009 - 26/03/2009, Perth

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

Johnson-Robertson, M, Pizarro, O, Williams, S; Large Scale Optical and Acoustic Sensor Integration for Visualization; IEEE Oceans 2009, 11/05/2009 - 14/05/2009, Bremen

Boomer, A, Huveneers, C, Semmens, J, Harcourt, R; The Australian Acoustic Tagging and Monitoring System (AATAMS): creating a network of acoustic receivers for the community. ; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Morris, BD, Roughan, M, Suthers, I, Pritchard, T; Cross-shelf Processes off the Coast of NSW; Preliminary Results from the NSW IMOS Array; 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

Roughan, M, Suthers, I, Pritchard, T, Meyers, G; NSW-IMOS an integrated marine observing system for south-eastern Australia: The East Australian Current and its interaction with coastal environments; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Williams, S, Pizarro, O, Jakuba, M, Mahon, I, Johnson-Robertson, M; Australia's Integrated Marine Observing System Autonomous Underwater Vehicle Facility; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Friedman, A, Pizarro, O, Williams, S; Rugosity, slope and aspect from bathymetric Stereo image reconstructions; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney

Medagoda, L, Jakuba, M, Pizarro, O, Williams, S; Water column current profile aided localisation for autonomous underwater vehicles; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney

White, J, Heupel, M, Simpfendorfer, C, Tobin, A; Assessing the susceptibility of *Glaucothegus typus*, *Rhynchobatus australiae* and *Anoxypristis cuspidata* to commercial fishing activity; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Brodie, S, Taylor, M, Smith, JA, Gray, C, Suthers, I, Payne, N; Estimating the consumption rate of a marine predator using field-derived activity measurements ; Society of Experimental Biology Conference , 30/06/2010 - 03/07/2010, Prague, Presenter(s): Stephanie Brodie

Boomer, A, Huveneers, 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

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J; Coupled physical-biological modelling of eddies off southeastern Australia; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Wood, JE, Roughan, M; Wind, Temperature and Current observations from a Long Term Continental Shelf Mooring; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Ahsan, N, Jakuba, M, Pizarro, O, Williams, S, Radford, B; Learning Predictive Habitat Models using Bathymetry, Seabed Terrain Features and Optical Imagery; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Bender, A, Williams, S, Pizarro, O, Jakuba, M; Adaptive Exploration Of Benthic Habitats Using Gaussian Processes; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Ajani, P, Armand, L, Murray, S; Travelling Through Time: Microalgal Diversity in New South Wales, Australia; 14th International Conference on Harmful Algae, 01/11/2010 - 05/11/2010, Creta & Terra Maris Convention Center & Golf Resort, Crete

Ajani, P, Armand, L, Murray, S; Travelling Through Time: Microalgal Diversity in New South Wales, Australia; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Lee, K, Harcourt, R; Does small work? Assessing the movement of eastern blue groper in relation to a small marine reserve; Faculty of Science Conference, 14/09/2011 - 14/09/2011, Macquarie University, Sydney, Presenter(s): Kate Lee

Hallegraef, GM, Coman, F, Davies, C, Slotwinski, A, Whittock, L, Richardson, A; Australian dust storm associated with potentially pathogenic fungal "bloom"; Plankton Symposium: Plankton Biodiversity and Climate Change, 22/09/2011 - 23/09/2011, Plymouth

Roughan, M, Morris, BD, Schaeffer, A; Using high-resolution ocean timeseries data to give context to long term hydrographic sampling off Port Hacking, NSW, Australia; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Suthers, I, Everett, JD, Baird, ME, Oke, PR; Entrain, retain and nurture: The fisheries oceanography potential of submesoscale eddies of western boundary currents; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Wood, JE, Roughan, M; Finding a proxy for wind stress over the coastal ocean off Sydney; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Schaeffer, A, Roughan, M, Morris, BD; Physical variability on the shelf off NSW Australia: New Insights from the NSW Integrated Marine Observing System; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Rossi, V, Galibert, G, Wood, JE, Schaeffer, A, Sudre, J, Roughan, M, Waite, A; Spatio-temporal variability of sporadic upwelling events over the East Australian continental margin for the last decade; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea

Archer, M, Roughan, M, Keating, S, Schaeffer, A; Meandering of the East Australian Current at 30 degrees South; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra

Wood, JE; Explaining variability on the continental shelf upstream and downstream of a western boundary current's separation zone; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Julie Wood

Schaeffer, A, Roughan, M, Morris, BD; Cross-Shelf dynamics in the East Australian Current. from a coastal mooring array: implications for upwelling; Gordon Research Conference, 08/06/2013 - 09/06/2013, Madgwick, Presenter(s): Amandine Schaeffer

Ajani, P, Allen, A, Ingleton, T, Armand, L; A decadal decline in abundance and a shift in microphytoplankton composition at a long-term coastal station off southeast Australia; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Penny Ajani

Bell, M, Robertson, R; Internal tides off the Eastern Australian coast and their seasonal variability as observed by moorings; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Robin Robertson

Boettger, D, Robertson, R; Internal waves in the waters off East Australia; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Robin Robertson

Grosjean, L, Robertson, R; Internal tides and waves off East Australia as observed in seaglider data; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): L Grosjean

Roughan, M, Schaeffer, A, Kioroglou, S; Assessing the design of the NSW-IMOS moored observation array from 2008-2013: recommendations for the future; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Moninya Roughan

Schaeffer, A, Roughan, M; Topics in Australian marine science: introducing MSc students to regional oceanography using NSW-IMOS data; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Amandine Schaeffer

Roughan, M, Schaeffer, A, Kioroglou, S; Assessing the design of the NSW-IMOS moored observation array from 2008-2013: recommendedations for the future; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Moninya Roughan

Bodrossy, L, Van De Kamp, J, Abell, GJC, Brown, MV, Seymour, JR, Moltmann, T, Frampton, DM, Coman, F, Davies, C; From Queensland to Tasmania - a one-year pilot project in microbial oceanography; 15th International Symposium on Microbial Ecology, 24/08/2014 - 29/08/2014, Seoul, Presenter(s): Lev Bodrossy

Kerry, C, Roughan, M, Powell, B; A high resolution re-analysis for the East Australian Current; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Schaeffer, A, Roughan, M; Marine Virtual Laboratory (MARVL) high-resolution ROMS test: the East Australian Current at 30 degrees South in Solitary Island Marine Park (SIMP) ; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

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 GHRST Science Team Meeting, 20/07/2015 - 24/07/2015, Noordwyk, Presenter(s): Helen Beggs

Roughan, M, Kerry, C, Powell, B, Oke, PR; Using multiple ocean observations to constrain a high-resolution model of the East Australian Current; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Moninya Roughan

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

Ribbat, N, Roughan, M, Powell, B; Mean circulation on the continental shelf off South-East Australia 31.5-34.5: the Hawkesbury Bioregion 2012-2013; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Rocha, C, Edwards, CA, Kerry, C, Roughan, M; Towards biogeochemical modelling of the EAC; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Schaeffer, A, Roughan, M, Austin, T, Hollings, B, et, al.; Mean hydrography on the continental shelf from 26 repeat glider deployments along southeastern Australia; 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

### **Course Presentation**

Suthers, I; Observations and implications at the two separation zones of the East Australian Current (EAC); Topics in Australian Marine Science (TAMS) Workshop, 06/03/2014 - 30/05/2014, Sydney Institute for Marine Science, Sydney, Presenter(s): Iain Suthers

Williams, S; Robotic vision for marine survey: applications in engineering science, ecology, archaeology and geology; Robot Vision Summer School (RVSS), 18/04/2016 - 22/04/2016, Kioloa, Presenter(s): Stefan Williams

### **Meeting Presentation**

Harcourt, R, Huveneers, C; Australian Acoustic Tagging and Monitoring System (AATAMS); NSW-IMOS Node Meeting, 04/06/2007 - 04/06/2007, Sydney Institute for Marine Science, Sydney

Huveneers, C, Harcourt, R, Suthers, I, Semmens, J; The Australian Acoustic Tagging and Monitoring System (AATAMS) – Applications for the investigation of shark movements and residence time; Oceania Chondrichthyan Society Conference, 22/09/2008 - 24/09/2008, Sydney

Williams, S, Pizarro, O; High Resolution Optical Surveying using an AUV; Australasian Hydrographic Society and The Society for Underwater Technology Technical Seminar - AUVs: Future Technologies & Emerging Markets, 30/10/2008 - 30/10/2008, Perth

Harcourt, R; Australian Acoustic Tagging and Monitoring System: AATAMS Current status and future plans; NSW-IMOS Node Meeting, 30/04/2009 - 30/04/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Rob Harcourt

Harcourt, R; Australian Acoustic Tagging and Monitoring System: AATAMS Progress in IMOS1 & Prospects for IMOS 2; ESCII Meeting, 18/06/2009 - 18/06/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Rob Harcourt

Steinberg, P; IMOS AUV Facility Update; NSW-IMOS Node Meeting, 21/05/2010 - 21/05/2010, Sydney Institute for Marine Science, Sydney, Presenter(s): Peter Steinberg

Wood, JE, Roughan, M; The origin and variability of major cold water events observed off Sydney; European Geosciences Union (EGU), 21/04/2012 - 27/04/2012, Vienna, Presenter(s): Julie Wood

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

Bodrossy, L, Van De Kamp, J, Abell, GJC, Brown, MV, Seymour, JR, Moltmann, T, Frampton, DM, Coman, F, Davies, C; From Queensland to Tasmania - a one-year pilot project in microbial oceanography; Singapore Interactive Meeting on Microbial Ecology Research, 22/08/2014 - 23/08/2014, Singapore, Presenter(s): Lev Bodrossy

Messer, L, Jeffries, TC, Mahaffey, C, Doubell, M, Doblin, MA, Brown, MV, Seymour, JR; Diazotroph dynamics across Australia's oligotrophic oceans; Singapore Interactive Meeting on Microbial Ecology Research, 22/08/2014 - 23/08/2014, Singapore, Presenter(s): Lauren Messer

van Dongen-Vogels, V, Matear, R, Cherukuru, N, Hardman-Mountford, NJ, McLaughlin, J, Westwood, KJ, Doblin, MA, Thompson, P; Modelling primary production in Australian waters; IMOS Bio-Optical Working Group Workshop, 01/07/2015 - 03/07/2015, Perth, Presenter(s): Virginie van Dongen-Vogels

Messer, L, Mahaffey, C, Jeffries, TC, Doblin, MA; Biogeography of nitrogen fixers in Australia's coastal ocean; Australian Society for Microbiology Annual Scientific Meeting, 13/07/2015 - 15/07/2015, Canberra, Presenter(s): Lauren Messer

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

Hartlipp, P, Robertson, R, Bell, M; Observed Internal Tides on the Continental Shelf off Eastern Australia; AOGS - Asia Oceania Geosciences Annual Meeting, 31/07/2015 - 05/08/2015, Singapore, Presenter(s): P Hartlipp

Hartlipp, P, Robertson, R; Tidal Impacts off Eastern Australia; AOGS - Asia Oceania Geosciences Annual Meeting, 31/07/2015 - 05/08/2015, Singapore, Presenter(s): P Hartlipp

Robertson, R, Hartlipp, P; Internal Tides off Eastern Tasmania and the T-Tide Project; AOGS - Asia Oceania Geosciences Annual Meeting, 31/07/2015 - 05/08/2015, Singapore, Presenter(s): Robin Robertson

Doblin, MA; An introduction to Australia's Integrated Marine Observing System; Presentation to Chairman of SIMS Board and associates, 07/12/2015 - 07/12/2015, Sydney Institute for Marine Science, Sydney, Presenter(s): M Doblin

Keating, S; Flavours of Baroclinic Instability in the Global Ocean; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Shane Keating

Doblin, MA; Exploring the ocean microbiome once cell at a time; Sydflow meeting, 29/05/2016 - 29/05/2016, Sydney, Presenter(s): M Doblin

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**

Roughan, M; Continental shelf processes along the coast of southeastern Australia; Australian Hydrographers Association Annual Meeting, 31/10/2014 - 31/10/2014, Sydney, Presenter(s): Moninya Roughan

## **Symposium Presentation**

Huveneers, C, Harcourt, R; The Australian Acoustic Tagging and Monitoring System (AATAMS) – A national network for the investigation of migratory marine species; Biologging Science Symposium III, 01/09/2008 - 05/09/2008, Pacific Grove

Roughan, M, Suthers, I; Measuring the Coastal Ocean off Northern NSW: Coffs Harbour; Climate Change Symposium, 03/06/2009 - 04/06/2009, Melbourne

Steinberg, D, Bender, A, Friedman, A; Analysis of propulsion methods for long range AUVs; International Symposium on Unmanned Untethered Submersible Technology (UUST), 23/08/2009 - 26/08/2009, Durham

Williams, S; Autonomous Underwater Vehicle Support for Marine Science Projects around Australia; Society for Underwater Technology and Australian Hydrographic Office Autonomous Underwater Vehicle Symposium, 28/10/2010 - 28/10/2010, Perth, Presenter(s): Stefan Williams

Richardson, A, Gusmao, LFM, Baird, ME, Coman, F, Delacruz, J, Pritchard, T, Slotwinski, A, Suthers, I; Long-term hydroclimate drivers of zooplankton composition and phenology off eastern Australia; 5th International Zooplankton Production Symposium, 14/03/2011 - 18/03/2011, Pucon, Presenter(s): Anthony Richardson

Barrett, N; Developing a non-intrusive monitoring approach for describing deep water habitats and biodiversity within Australia's new commonwealth MPA network and collecting the information necessary for optimal on-reserve and off-reserve management; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Neville Barrett

Lynch, T, Clementson, L, Kay, R, Roughan, M, Galibert, G, Brando, V, Doblin, MA; Systematic approach to reducing uncertainties in bio-optical data streams in a sustained observing system; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Tim Lynch

Marzinelli, EM, Williams, S, Babcock, R, Barrett, N, Johnson, C, Jordan, A, Kendrick, G, Hill, N, Pizarro, O, Smale, DA, Steinberg, P; AUV surveys of deep-water kelp across Australia; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Ezequiel Marzinelli

Wood, JE, Roughan, M, Morris, BD; Mean circulation, inter-annual, seasonal and monthly variability on the Sydney shelf; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Moninya Roughan

Cadiou, G, Chateau, O, Taylor, M, Booth, D, Wantiez, L; Small scale movements and habitat preferences of *Lujanus fulviflamma*; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns, Presenter(s): Gwenael Cadiou

Marzullo, T; Divergent thermal performance in wild, co-habiting stingrays; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Tegan Marzullo

Brown, MV, Ostrowski, M, Seymour, JR, Van De Kamp, J, Kahlke, T, Craw, P, Moltmann, T, Bodrossy, L; A continental scale genomic ocean monitoring network: the Australian Marine Microbiology Biodiversity Initiative; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): M Brown

Steckenreuter, A, Simpfendorfer, C, Peddemors, V, Hoenner, X, Burgess, J, Tattersall, K, Harcourt, R, Van Den Broek, J, McDowall, P; Australia's National Database for Acoustic Monitoring of Marine Species - A collaborative approach; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Andre Steckenreuter

Fowler, A, Lloyd, M, Huveneers, C; Acoustic telemetry informs about movement behaviour of snapper in Northern Gulf St. Vincent - thoughts for spatial management. ; AMSA South Australian Branch 10th Symposium, 30/10/2015 - 30/10/2015, Flinders University, Adelaide, Presenter(s): Anthony Fowler

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

Mongin, M, Baird, ME, Hadley, S, Lenton, A; Optimising island-scale buffering of ocean acidification; 4th Oceans in a high CO2 World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): Mathieu Mongin

Dwyer, R; Using telemetry to formulate conservation plans for migratory species: optimising closure scenarios to reduce bycatch of a critically endangered shark; Society for Conservation Biology Symposium, 04/07/2016 - 10/07/2016, Brisbane, Presenter(s): Ross Dwyer

Harcourt, R; Data sharing and aquatic telemetry: a challenge to maximizing effective conservation outcomes; Society for Conservation Biology Symposium, 04/07/2016 - 10/07/2016, Brisbane, Presenter(s): Rob Harcourt

Steckenreuter, A; A Cultural Change in SHaring Acoustic Telemetry Data and Advantages for the Meta-analysis of a National Database; Society for Conservation Biology Symposium, 04/07/2016 - 10/07/2016, Brisbane, Presenter(s): Andre Steckenreuter

Bodrossy, L, Brown, MV, Van De Kamp, J, Ostrowski, M, Seymour, JR, Bissett, A, Kahlke, T, Goossen, K, Fitzgerald, A, Moltmann, T; The Australian Marine Microbial Biodiversity Initiative: Establishing a continental scale, long term microbial oceanography observatory; 16th International Symposium on Microbial Ecology (ISME), 21/08/2016 - 26/08/2016, Montreal, Presenter(s): Lev Bodrossy

## **Workshop Presentation**

Huveneers, C; Australian Acoustic Tracking and Monitoring System (AATAMS); Ocean Tracking Network Data Management Committee Workshop, 06/10/2007 - 07/10/2007, Halifax, Presenter(s): Charlie Huveneers

Harcourt, R, Huveneers, C; The formation of the Australian Acoustic Tagging and Monitoring System (AATAMS): background and aims; Vemco and AATAMS Acoustic Telemetry Workshop, 21/11/2007 - 23/11/2007, Sydney Institute for Marine Science, Sydney



Huveneers, C, Harcourt, R; Australian Acoustic Tagging and Monitoring System (AATAMS) in practice – Deployments, projects and data management; Vemco and AATAMS Acoustic Telemetry Workshop, 21/11/2007 - 23/11/2007, Sydney Institute for Marine Science, Sydney

Johnson-Robertson, M, Pizarro, O, Williams, S, Mahon, I; Large Scale 3D Reconstruction and Visualization of Stereo Surveys; GeoHab 2009 Video Workshop, 03/05/2009 - 04/05/2009, Trondheim

Williams, S, Pizarro, O, Jakuba, M, Mahon, I, Johnson-Robertson, M, Rigby, P, Barkby, S; Autonomous Marine Systems for Navigation, Mapping and Data Interpretation; GeoHab 2009 Video Workshop, 03/05/2009 - 04/05/2009, Trondheim

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

Marzinelli, EM, Steinberg, P; Kelp cover and distribution in deep water temperate reefs.; 10th GHRSSST Science Team Meeting, 01/06/2009 - 01/06/2009, Santa Rosa

Harcourt, R; The Australian Integrated Marine Observing System, IMOS: potential for integration with blue whale studies; Blue Whale Workshop, 12/07/2009 - 16/07/2009, Flinders University, Adelaide, Presenter(s): Rob Harcourt

Pizarro, O; Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV; Office of Naval Research Workshop on Machine Intelligence, 07/10/2009 - 08/10/2009, Lerici, Presenter(s): Oscar Pizarro

Williams, S, Pizarro, O, Jakuba, M, Steinberg, D, Friedman, A, Ahsan, N; Autonomous Underwater Vehicle monitoring of benthic reference sites; IEEE/RSJ International Conference on Intelligent Robots and Systems, 11/10/2009 - 15/10/2009, St. Louis, Presenter(s): Stefan Williams

Harcourt, R; Australian Acoustic Tagging and Monitoring System: What is AATAMS current status and where to the future? ; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Rob Harcourt

Huveneers, C, Harcourt, R, Boomer, A, Hobday, A, Pederson, H, Semmens, J, Stieglitz, T, Vallee, R, Webber, D, Heupel, M, Simpfendorfer, C, Peddemors, V; The influence of environmental parameters (meteorological and oceanographic) on the performance of acoustic receivers; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Lee, K, Huveneers, C, Peddemors, V, MacDonald, T, Harcourt, R; Assessing the efficiency of small marine protected areas for the conservation of eastern blue groper and wobbegong sharks; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Peddemors, V, Robbins, W, Smoothey, A, Lee, K, Gray, C; Sydney's Sharks - I&I NSW Shark Research Programs; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Smoothey, A, Peddemors, V, Robbins, W, Gray, C; Patterns of movement of bull sharks in Port Jackson, NSW; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Roughan, M; 2 months of radar data at Coffs harbour; ACORN Workshop, 14/06/2012 - 15/06/2012, James Cook University, Townsville, Presenter(s): Moninya Roughan

Marzloff, M, Oliver, ECJ, Barrett, N, Holbrook, N, James, L, Wotherspoon, S, Johnson, C; Differential vulnerability of deep-reef habitat-forming organisms to climate change; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Craig Johnson

Middleton, J, Pattiaratchi, C, Roughan, M, Luick, J, Ivey, GN, Lowe, R, Phillips, H, Benthuisen, 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

Ajani, P; Microalgal diversity in the coastal waters of New South Wales; 10th Advanced Phytoplankton Course: Taxonomy and Systematics, 12/11/2012 - 30/11/2012, Copenhagen, Presenter(s): Penny Ajani

Keller, K; The behaviour, fidelity and interaction of non-recreational elasmobranchs associated with a Sydney Offshore Artificial Reef (OAR); AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Krystle Keller

Marzullo, T; Stingray movements - a step toward revealing the environmental and physiological drivers behind their behaviour; AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Tegan Marzullo

Ambrecht, L; Testing phytoplankton quantification techniques off Eastern Australia; Alexander von Humboldt Foundation Colloquium, 17/11/2013 - 19/11/2013, Sydney, Presenter(s): Linda Ambrecht

Doblin, MA; Micro-CSI: Investigating ocean microbes; Topics in Australian Marine Science (TAMS) Workshop, 06/03/2014 - 30/05/2014, Sydney Institute for Marine Science, Sydney, Presenter(s): M Doblin

Peddemors, V; Shark fisheries: research into assisting their management; Topics in Australian Marine Science (TAMS) Workshop, 06/03/2014 - 30/05/2014, Sydney Institute for Marine Science, Sydney, Presenter(s): Vic Peddemors

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

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Roughan, M; Continental shelf processes along the coast of southeastern Australia; SIMS Port Hacking Timeseries Workshop, 07/08/2014 - 08/08/2014, Sydney Institute for Marine Science, Sydney, Presenter(s): Moninya Roughan

Roughan, M, Oke, PR; A National Shelf Re-Analysis project for Australia; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Moninya Roughan

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Keating, S; Upper ocean statistics from super-resolved sea-surface temperature imagery; Satellite Oceanography Users Workshop, 09/11/2015 - 11/11/2015, Melbourne, Presenter(s): Shane Keating

Robertson, R; Effects of Tides and Mixing in Regional Ocean Models; International Workshop on Regional Ocean Numerical Simulation and Observation, 30/05/2016 - 31/05/2016, Nanjing, Presenter(s): Robin Robertson

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Suthers, I, Smith, JA, Everett, JD, Miskiewic, AG, Richardson, A, Lara-Lopez, A; Long-term observations of weighted temperature-salinity habitats of larval fish in the western Tasman Front: seasonal, species and family level patterns; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Iain Suthers

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