

# Postgraduate Research Projects



Postgraduate research projects using IMOS data

## Bluewater and Climate

Doctor of Philosophy (PhD), Late Pleistocene Palaeoceanographic and Geochemical Evolution of the South Tasman Rise, University of Tasmania, Antarctic Climate and Ecosystems Cooperative Research Centre; Andrew Moy, 2000-2005, Supervisor(s): William Howard

Doctor of Philosophy (PhD), Decadal ocean water mass changes: Global observations and interpretation, University of Tasmania; Kieran Helm, 2004-2008, Supervisor(s): Steve Rintoul

Doctor of Philosophy (PhD), Wind forced changes and variability in the East Australia Current, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Katy Hill, 2005-2009, Supervisor(s): Steve Rintoul, Ken Ridgway, Richard Coleman

Doctor of Philosophy (PhD), Quantifying ocean mixing from hydrographic data, University of New South Wales, Commonwealth Scientific Industrial Research Organisation; Jan Zika, 2005-2009, Supervisor(s): Trevor McDougall, Bernadette Sloyan, Matthew England

Doctor of Philosophy (PhD), Variability of Sub-Antarctic mode water and Antarctic intermediate water in the Australian sector of the Southern Ocean, University of Tasmania; Laura Herraiz-Borreguero, 2005-2010, Supervisor(s): Richard Coleman, Steve Rintoul

Doctor of Philosophy (PhD), Nitrogen isotopic fractionation during phytoplankton assimilation of nitrate, Princeton University, University of Tasmania; Kristen Karsh, 2006-2013, Supervisor(s): Daniel Sigman, Tom Trull

Doctor of Philosophy (PhD), Predicting the oceanic mesoscale dynamics in the Australian region, University of New South Wales, Australian Defence Force Academy; Robert Woodham, 2006-2013, Supervisor(s): Andrew Kiss, Oscar Alves, Gary Brassington; Partner Institution(s): CAWCR; Funding: Royal Australian Navy

Doctor of Philosophy (PhD), Global Ocean Salinity: A climate change diagnostic?, University of Tasmania; Paul Durack, 2006-2011, Supervisor(s): Susan Wijffels, Nathan Bindoff, Helen Phillips

Doctor of Philosophy (PhD), Intraseasonal variability in the Indian Ocean, Scripps Institution of Oceanography, Commonwealth Scientific Industrial Research Organisation; Kyla Drushka, 2007-2011, Supervisor(s): Sarah Gille, Daniel Steinberg, Janet Sprintall

Doctor of Philosophy (PhD), Modelling dynamics of the East Australian Current and the subtropical mode water off East Coast of Australia, University of New South Wales, Australian Defence Force Academy; Vihang Bhatt, 2007-2010, Supervisor(s): Xiao Hua Wang, John Morrison

Doctor of Philosophy (PhD), Coccolithophores evolution and calcification patterns of the late Quaternary in the Southern Ocean, University of Tasmania; Joana Cubillos, Supervisor(s): William Howard, Gustaaf Hallegraeff

Doctor of Philosophy (PhD), Southern Ocean overturning, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Amelie Meyer, 2009-2012, Supervisor(s): Nathan Bindoff, Helen Phillips, Bernadette Sloyan, Kurt Polzin

Doctor of Philosophy (PhD), Photosynthetic performance and productivity of phytoplankton in the Southern Ocean, University of Tasmania; Wee Cheah, 2009-2012, Supervisor(s): Andrew McMinn, Klaus Meiners

Honours degree, Seabirds and climate change: Can wedge-tailed shearwaters adapt to changing resource availability?, James Cook University; Fiona McDuie, 2009-2010, Supervisor(s): Brad Congdon

Masters degree, Assimilating in situ bioacoustic data in a mid-trophic level model, École Nationale Supérieure de Techniques Avancées; Anna Conchon, 2010-2011, Supervisor(s): Patrick Lehodey, I Senina; Partner Institution(s): CLS

Doctor of Philosophy (PhD), Ekman currents in the Antarctic circumpolar current, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Chris Roach, Supervisor(s): Helen Phillips, Nathan Bindoff, Steve Rintoul

Honours degree, Investigating the foraging flights and chick growth in short-tailed shearwaters, University of Tasmania; Jaimie Cleeland, 2010-2011, Supervisor(s): Mark Hindell, Mary-Anne Lea

Doctor of Philosophy (PhD), The kinematics of ocean salinity changes, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Veronique Lago, 2011-2015, Supervisor(s): John Church, Simon Marsland, Susan Wijffels

Doctor of Philosophy (PhD), Effects of climate change on phytoplankton primary production and chemotaxonomy in Southern Ocean and Antarctic ecosystems, University of Tasmania; Robert Johnson, 2011-2014, Supervisor(s): Peter Strutton, Andrew McMinn, Klaus Meiners, Simon Wright; Partner Institution(s): ACE-CRC, AAD

Honours degree, Macquarie Island tide gauge calibration and sea level extreme event analysis, University of Tasmania; Anna Hill, 2011-2011, Supervisor(s): Chris Watson; Funding: University of Tasmania

Honours degree, Zooplankton in the Tasman Sea, University of Tasmania; Briony Hutton, 2011-2012, Supervisor(s): Kerrie Swadling, Rudy Kloser; Partner Institution(s): IMAS, CSIRO

Doctor of Philosophy (PhD), Acidification and carbonate chemistry of shelf waters in the Australian Antarctic Territory, University of Tasmania; Nick Roden, 2011-2014, Supervisor(s): Tom Trull, Bronte Tilbrook, E Shadwick, Patti Virtue; Funding: APRA, European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), CSIRO

Degree - Other, 3rd year Environmental engineering research project, University of Western Australia; Jacqui Doran, 2011-2012, Supervisor(s): Anya Waite, Tom Trull

Degree - Other, KGG355 Spatial research project, sea surface height analysis in Storm Bay, Tasmania, University of Tasmania; Jack Beardsley, 2011-2011, Supervisor(s): Chris Watson; Funding: University of Tasmania

Honours degree, Faecal pellet dynamics and carbon fluxes from gel-based sediment traps in the Southern Ocean, University of Western Australia; Jacqui Doran, 2012-2012, Supervisor(s): Anya Waite, Tom Trull

Doctor of Philosophy (PhD), Controls on Southern Ocean carbon sequestration, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Emmanuel Laurenceau-Cornec, 2012-2015, Supervisor(s): Philip Boyd, Tom Trull, Mathieu Mongin

Honours degree, Southern Ocean habitat selection by short-tailed shearwaters, Institute of Marine and Antarctic Studies; Delphi Ward, Supervisor(s): Mark Hindell, Mary-Anne Lea

Doctor of Philosophy (PhD), Nitrogen cycling in the Indian Ocean, University of Western Australia; Eric Raes, 2012-2015, Supervisor(s): Anya Waite, Pauline Grierson, Peter Thompson; Partner Institution(s): CSIRO, AWI; Funding: University of Western Australia, CSIRO

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), Application of silicon isotopes to the quantification of biological pump processes in the Southern Ocean, University of Paris; Ivia Closset, 2012-2015, Supervisor(s): D Cardinal; Funding: ACECRC

Degree - Other, Third year IMAS/UTAS research project - Distribution of *Emiliana huxleyi* calcification morphotypes in the Southern Ocean, 2006-2007, University of Tasmania; Isobel Thomas, Supervisor(s): Gustaaf Hallegraeff

Degree - Other, KSA306 Marine Research project, Institute of Marine and Antarctic Studies; Ben Weeding, 2012-2012, Supervisor(s): Tom Trull

Doctor of Philosophy (PhD), Using fisheries hydroacoustics to evaluate and predict abundance of mid-trophic level organisms for global ecosystem pattern analysis and modelling, University of Auckland; Pablo Escobar Flores, 2013-2017,

Supervisor(s): Richard O'Driscoll, J Montgomery; Funding: NIWA - National Institute of Water and Atmospheric Research

Honours degree, Biogenic silica fluxes at the Southern Ocean Time Series Site, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Chris Coxson, 2013-2013, Supervisor(s): Tom Trull; Funding: ACECRC

Doctor of Philosophy (PhD), Processes controlling Antarctic deep water formation, Australian National University; Kate Snow, Supervisor(s): Andrew Hogg, Stephanie Downes, Bernadette Sloyan

Degree - Other, Third year IMAS/UTAS research project - Variations in morphology and distribution of the coccolithophorid *Emiliana huxleyi* in the Australian sector of the Southern Ocean, 2012/2013, University of Tasmania; Lisa Harding, Supervisor(s): Gustaaf Hallegraeff

Doctor of Philosophy (PhD), Stock structure and critical habitats for a key apex predator: the sevengill shark, University of Tasmania, James Cook University, Deakin University; Alicia Schmidt-Roach, 2013-2017, Supervisor(s): Jayson Semmens, Adam Barnett, Craig Sherman, Paul Hamer

Doctor of Philosophy (PhD), Waves and ocean interactions at the SOFS site, Swinburne University; Henrique Rapizo, 2013-2017, Supervisor(s): Alexander Babanin, Malek Ghantous, Eric Schulz

Doctor of Philosophy (PhD), Foraging ecology of male and female elephant seals in the sea-ice zone: role of the physiography, hydrological factors, and sea-ice condition, University of Tasmania; Sarah Labrousse, 2013-2016, Supervisor(s): Mark Hindell, Christophe Guinet, Jean-Benoit Charrassin

Honours degree, Multi-frequency bio-acoustic measurements of grazing animal abundances at the Southern Ocean Time Series Site, University of Western Australia; Ryan Walker, 2013-2013, Supervisor(s): Anya Waite, Tom Trull; Funding: University of Western Australia, ACECRC

Doctor of Philosophy (PhD), Biogeography of the Coral and Tasman Sea micronekton based on IMOS bioacoustic data, University of Tasmania; Ryan Downie, 2014-2017, Supervisor(s): Rudy Kloser, Alastair Hobday, Simon Wotherspoon; Funding: CSIRO

Doctor of Philosophy (PhD), Variability of Indonesian through flow property transports and modulation by Indian Ocean Dipole (IOD) and ENSO, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Ana Berger, 2014-2017, Supervisor(s): Bernadette Sloyan, Susan Wijffels, Max Nikurahsin; Partner Institution(s): CSIRO/IMAS/Brazilian Government - Brazilian Agency for Science - CAPES/ARC Centre of Excellence for Climate Systems Science; Funding: Brazilian Government

Doctor of Philosophy (PhD), Southern Ocean micronekton, University of Tasmania; Roland Proud, 2014-2017, Supervisor(s): Martin Cox, Simon Wotherspoon, Andrew Brierly; Funding: Australian Antarctic Division

Doctor of Philosophy (PhD), Micronekton dynamics in Southern Indian Ocean, University of Cape Town; Nolwenn Behagle, 2014-2017, Supervisor(s): Louis du Buisson, Erwan Josse, Anne Lebourges-Dhaussy; Funding: Institute of Research and Development France, IOCCP - International Ocean Carbon Coordination Project

Doctor of Philosophy (PhD), Investigating sea surface temperature diurnal variation over the tropical warm pool using MTSAT-1R, University of New South Wales; Haifeng Zhang, 2014-2018, Supervisor(s): Xiao Hua Wang, Andrew Kiss, Helen Beggs; Partner Institution(s): Bureau of Meteorology; Funding: China Scholarship Council

Honours degree, Bio-physical characterisation of east Antarctic polynyas as key Southern Elephant seal (*Mirounga leonina*) foraging habitat, University of Tasmania; Veda Malpress, 2015-2016, Supervisor(s): Stuart Corney, Sophie Bestley, Mark Hindell, Dirk Welsford; Partner Institution(s): UTAS, ACE-CRC, AAD

Doctor of Philosophy (PhD), Inference of foraging success in a top Southern Ocean predator, University of Tasmania; Fernando Gonzalez, 2015-2018, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon, Simon Wotherspoon

Doctor of Philosophy (PhD), Uncoupling oceanographic and life-history drivers to alternate foraging strategies in long-nosed fur seals, University of Tasmania, South Australian Research and Development Institute; Dahlia Foo, 2015-2018, Supervisor(s): Mark Hindell, Simon Goldsworthy, Jayson Semmens, Clive McMahon

Doctor of Philosophy (PhD), Measuring sea surface skin temperatures using shipboard infrared radiometers, Ocean University of China; Minglun Yang, 2015-2019, Supervisor(s): Lei Guan; Partner Institution(s): Australian Bureau of Meteorology; Funding: Ocean University of China

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Doctor of Philosophy (PhD), Comparative diving physiology and ecology across Southern Ocean marine predators, University of Tasmania; Giulia Roncon, 2015-2019, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon

Doctor of Philosophy (PhD), Inter-ocean exchange around Southern Australia and its relation to regional and global climate, University of New South Wales; Christopher Bull, 2015-2018, Supervisor(s): Erik van Sebille, Matthew England, Helen Phillips

Doctor of Philosophy (PhD), The dynamics of remarkable near-surface eastward flows in the South Indian Ocean, University of Tasmania; Viviane Menezes, 2015-2018, Supervisor(s): Helen Phillips, Nathan Bindoff, Andreas Schiller, Catia Domingues

Honours degree, Comparison of two- and three- dimensional foraging metrics in southern elephant seal modelling, University of Tasmania; P Pascoe, 2015-2015, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon

Doctor of Philosophy (PhD), Overturning circulation of the Indian Ocean, Ocean University of China; Jie Ma, 2016-2018, Supervisor(s): Ming Feng; Funding: China Scholarship Council

Doctor of Philosophy (PhD), The Southern Ocean boundary layer: winds, turbulence, sea spray and clouds, Monash University ; Vidhi Bharti, Supervisor(s): Steve Siems; Funding: ARC

Masters degree, Molecular mechanisms of nutrient uptake in marine microbial ecosystems, Macquarie University; Andrew McLeish, 2016-2017, Supervisor(s): Bhumika Shah, Martin Ostrowski

Honours degree, Upper ocean heat content estimates: exploring the impact of XBT corrections, University of Tasmania; Frances Pitt, Supervisor(s): Catia Domingues, Didier Monselesan, Rebecca Cowley

Doctor of Philosophy (PhD), Grazing and viral impacts on marine food webs, Macquarie University; Amaranta Focardi, 2016-2019, Supervisor(s): Ian Paulsen, Martin Ostrowski

Doctor of Philosophy (PhD), Southern ocean microbial biogeography, University of Tasmania; Swan Sow, 2016-2019, Supervisor(s): Lev Bodrossy, Philip Boyd, Tom Trull

Doctor of Philosophy (PhD), Studies of Australian Coastal Anomalies Based on Satellite Sea Surface Temperature (SST) and Sea Surface height (SSH) Datasets, University of New South Wales, Bureau of Meteorology Canberra, Commonwealth Scientific Industrial Research Organisation; Yuwei Hu, 2017-2021, Supervisor(s): Xiao Hua Wang, Helen Beggs, Benoit Legresy

Masters degree, Do Weddell seals have drift dives?, Macquarie University; C Yong, 2017-2017, Supervisor(s): Rob Harcourt, Iain Jonsen, Clive McMahon, Mark Hindell; Partner Institution(s): AAD, IMAS; Funding: Macquarie University

Honours degree, Migratory movements and acoustic repertoire of the fin whale, (*Balaenoptera physalus*) in Australian waters, Curtin University; Meghan Aulich, 2017-2018, Supervisor(s): Ben Saunders, Rob McCauley, Miles Parsons; Partner Institution(s): Curtin, AIMS

Doctor of Philosophy (PhD), Observations of Ocean - Ice Shelf Interaction at the Totten Glacier, University of Tasmania, Commonwealth Scientific Industrial Research Organisation, Antarctic Climate and Ecosystems Cooperative Research Centre; Alessandro Silvano, 2017-2020, Supervisor(s): Steve Rintoul, Beatriz Pena-Molino, Guy Williams, W Hobbs

Doctor of Philosophy (PhD), Behaviour, ecology and biology of stingrays, evaluation of human-wildlife interaction in the marine realm , Macquarie University; Joni Pini-Fitzsimmons, Supervisor(s): Culum Brown

Doctor of Philosophy (PhD), Seascape effects on temperate zone fishes, University of Wollongong; Daniel Swadling, Supervisor(s): Andy Davis, Nathan Knott

**Postgraduate Count 65**

## Queensland's Integrated Marine Observing System

Doctor of Philosophy (PhD), The ecology of the zebra shark *Stegostoma fasciatum*; with emphasis on a seasonal aggregation in South-East Queensland, Australia, University of Queensland, University of Tasmania; Chris Dudgeon, 2004-2009, Supervisor(s): Janet Lanyon, Jenny Ovenden, Jayson Semmens

Doctor of Philosophy (PhD), The sub-surface circulation of the Coral Sea and Great Barrier Reef, James Cook University; Severine Choukroun, 2005-2012, Supervisor(s): Peter Ridd, Richard Brinkman; Partner Institution(s): AIMS@JCU

Doctor of Philosophy (PhD), Argo data in the Coral Sea, James Cook University; Jasmine Jaffres, 2006-2010, Supervisor(s): Nick Oliver, Gregg Brunskill, Michael Ridd; Partner Institution(s): Australian Institute of Marine Science

Honours degree, Zooplankton community, remote sensing and seasonal migration of manta rays, *Manta birostris*, at North Stradbroke Island, University of Queensland, Commonwealth Scientific Industrial Research Organisation; Lydie Couturier, 2007-2008, Supervisor(s): Mike Bennett, Kathy Townsend, Scarla Weeks

Doctor of Philosophy (PhD), Habitats and ecological communities of the Great Barrier Reef, James Cook University; Thomas Bridge, 2007-2011, Supervisor(s): Jody Webster, Robin Beaman

Doctor of Philosophy (PhD), Coastal diurnal warming through in-situ, satellite data and modelling studies, University of Miami, Rosenstiel School of Marine and Atmospheric Science; Xiaofang Zhu, 2009-2014, Supervisor(s): Peter Minnett; Partner Institution(s): AIMS Townsville; Funding: National Aeronautics and Space Agency (NASA)

Doctor of Philosophy (PhD), The biology, ecology and habitat use of the blacktip reef shark (*Carcharhinus melanopterus*) and implications for management, James Cook University; Andrew Chin, 2009-2013, Supervisor(s): Colin Simpfendorfer, Andrew Tobin, Michelle Heupel, Mark Hamman; Funding: ARC, Great Barrier Reef Marine Park Authority, Queensland Seafood Industry Association

Doctor of Philosophy (PhD), Spatial ecology of mobile predators in a tropical environment and its implications for Marine Protected Areas, James Cook University; Danielle Knip, 2009-2012, Supervisor(s): Michelle Heupel, Colin Simpfendorfer, Andrew Tobin, James Maloney; Funding: ARC, Great Barrier Reef Marine Park Authority, Queensland Seafood Industry Association

Doctor of Philosophy (PhD), Efficacy of marine protected areas at providing refuge to batoid species from commercial fishing pressure within the Great Barrier Reef World Heritage Area, James Cook University; Jimmy White, 2009-2012, Supervisor(s): Colin Simpfendorfer; Partner Institution(s): Michelle Heupel (JCU), David Welch (QDEEDI/JCU), John Carlson (NOAA); Funding: ARC, Great Barrier Reef Marine Park Authority, Queensland Seafood Industry Association

Doctor of Philosophy (PhD), Conservation biology and ecology of the population of manta ray, *Manta alfredi*, in Eastern Australia, University of Queensland, Commonwealth Scientific Industrial Research Organisation; Lydie Couturier, 2009-2012, Supervisor(s): Mike Bennett, Kathy Townsend, Scarla Weeks, Anthony Richardson

Doctor of Philosophy (PhD), Zooplankton community dynamics: biomass, abundance, assemblages and grazing in a sub-tropical bay, University of Queensland; Sarah Pausina, 2009-2018, Supervisor(s): Hugh Possingham, Anthony Richardson, Dave McKinnon; Partner Institution(s): Healthy Waterways; Funding: ARC Linkage Project

Doctor of Philosophy (PhD), Hydrodynamic modelling and larval transport in reef systems, James Cook University; Paulina Cetina-Heredia, 2009-2012, Supervisor(s): Sean Connelly, Peter Ridd, Richard Brinkman

Doctor of Philosophy (PhD), Movements of planktivorous marine megafauna and ocean dynamics: A case study of east Australian manta rays, University of Queensland, Commonwealth Scientific Industrial Research Organisation; Fabrice Jaïne, 2009-2013, Supervisor(s): Scarla Weeks, Anthony Richardson, Kathy Townsend, Mike Bennett

Doctor of Philosophy (PhD), Implications of climate change for the oceanography of the Great Barrier Reef ecosystem, University of Queensland; Ana Redondo-Rodriguez, 2009-2012, Supervisor(s): Scarla Weeks, Janice Lough, Ray Berkelmans; Partner Institution(s): AIMS

Honours degree, Satellite detection of current driven upwelling and in-situ detection of wind driven upwelling at Myrmidon Reef, James Cook University; Clair Stark, 2010-2011, Supervisor(s): Peter Ridd; Funding: James Cook University

Honours degree, Seasonal variability in zooplankton nutritional quality in relation to manta ray (*Manta alfredi*) occurrence at North Stradbroke Island, SeaWorld; Nathalie Verlinden, 2010-2010, Supervisor(s): Kathy Townsend, Anthony Richardson, Mike Bennett

Degree - Other, Investigations into the behaviour of acoustically monitored *Manta alfredi* at Lady Elliot Island, University of Queensland; Peggy Newman, 2010-2010, Supervisor(s): Mike Bennett, Kathy Townsend, Anthony Richardson, Scarla Weeks

Doctor of Philosophy (PhD), Habitat and dietary selectivity of nearshore shark populations, James Cook University, Australian Institute of Marine Science; Samantha Munroe, 2011-2014, Supervisor(s): Michelle Heupel, Colin Simpfendorfer, Andrew Tobin; Funding: Australian Institute of Marine Science, James Cook University

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Doctor of Philosophy (PhD), Movement of red throat emperor in relation to environmental change and marine protected areas, James Cook University, Australian Institute of Marine Science; Leanne Currey, 2011-2014, Supervisor(s): Michelle Heupel, Colin Simpfendorfer, Ashley Williams, Steve Sutton; Funding: ARC, Australian Institute of Marine Science, James Cook University

Doctor of Philosophy (PhD), Residency and movement patterns of blacktip reef sharks on an inshore island and effects of environmental variability, James Cook University, Australian Institute of Marine Science; Audrey Schlaff, 2011-2018, Supervisor(s): Michelle Heupel, Colin Simpfendorfer; Funding: Australian Institute of Marine Science, James Cook University

Doctor of Philosophy (PhD), Improving understanding of spatial ecology through network analysis of acoustic monitoring data, Australian Institute of Marine Science; Elodie Ledee, 2012-2015, Supervisor(s): Colin Simpfendorfer, Michelle Heupel, Andrew Tobin; Funding: Australian Institute of Marine Science, James Cook University

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), Movement patterns and habitat use of the exploited swimming crab *Scylla serrata*, Griffith University, Murdoch University, Leibniz Center for Tropical Marine Ecology; Hilke Alberts-Hubatsch, Supervisor(s): Jan-Olaf Meynecke

Doctor of Philosophy (PhD), Movements, habitat use and trophic ecology of sharks in coral reef ecosystems, James Cook University; Mario Espinoza, 2012-2015, Supervisor(s): Michelle Heupel, Colin Simpfendorfer, Andrew Tobin; Funding: Australian Institute of Marine Science, James Cook University

Honours degree, Spatial ecology of two stingray species in a reef flat ecosystem, Australian Institute of Marine Science; Lauren Davy, Supervisor(s): Colin Simpfendorfer, Michelle Heupel; Funding: Australian Institute of Marine Science, James Cook University

Doctor of Philosophy (PhD), Spatial ecology of sea snakes (Hydrophiinae) in coastal waters off Northern Queensland, James Cook University, Australian Institute of Marine Science; Vinay Udyawer, 2012-2014, Supervisor(s): Michelle Heupel, Colin Simpfendorfer; Funding: Australian Institute of Marine Science, James Cook University

Doctor of Philosophy (PhD), The potential of using data-logging acoustic receivers to study the movements and residency patterns of dugongs in port environments: a comparison with satellite tracking, Australian Institute of Marine Science, James Cook University; Daniel Zeh, 2012-2018, Supervisor(s): Helen Marsh, Mark Hamman, Michelle Heupel; Funding: Australian Institute of Marine Science, James Cook University

Doctor of Philosophy (PhD), Investigation of habitat selection and resource use by coral trout (*Plectropomus* spp.) in reef systems using telemetry and dietary indicators, Australian Institute of Marine Science, James Cook University; Jordan Matley, 2012-2015, Supervisor(s): Colin Simpfendorfer, Michelle Heupel, Andrew Tobin; Funding: Australian Institute of Marine Science, James Cook University

Honours degree, Understanding effects of climate change on Australian phytoplankton communities, University of Queensland; Alex Coughlan, Supervisor(s): Anthony Richardson, Scarla Weeks, Gustaaf Hallegraeff; Partner Institution(s): University of Tasmania

Honours degree, Modelling the distribution of kelp in a vertically structured subtropical water column, University of Queensland; Maxime Marin, 2013-2013, Supervisor(s): Russ Babcock

Doctor of Philosophy (PhD), Relationships between humpback whale distribution and environmental conditions on the Gold Coast, Griffith University; Joshua Reinke, 2013-2017, Supervisor(s): Charles Lemkert, Jan-Olaf Meynecke

Doctor of Philosophy (PhD), Looking inside and outside SeaSonde data, James Cook University; Dan Atwater, 2013-2017, Supervisor(s): Lucy Wyatt, Richard Brinkman, Peter Ridd; Partner Institution(s): AIMS

Honours degree, Can size be used to characterise community structure?, University of Queensland; Amelia Armstrong, 2013-2013, Supervisor(s): Anthony Richardson, Scarla Weeks; Partner Institution(s): CSIRO; Funding: University of Queensland

Honours degree, The recruitment of stripey snapper, *Lutjanus carponotatus*, to One Tree Island in the southern Great Barrier Reef, James Cook University; Jodie Schlaefer, 2014-2014, Supervisor(s): Michael Kingsford, Eric Wolanski

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Doctor of Philosophy (PhD), Physical oceanographic processes affecting spanner crab (*Ranina ranina*) catchability, Griffith University; David Spencer, 2014-2018, Supervisor(s): Charles Lemkert, Shing Lee, Ian Brown

Masters degree, Larval advection patterns in the Queensland scallop fishery, University of Queensland; Jesse Thomas, Supervisor(s): R Lemos; Partner Institution(s): DAFF Qld; Funding: Fisheries Research and Development Corporation

Honours degree, Mining spatio-temporal dataset to identify environmental phenomena on the Great Barrier Reef, James Cook University; Rachael Russo, 2014-2014, Supervisor(s): Yvette Everingham, Lyndon Llewellyn

Doctor of Philosophy (PhD), Determining the population structures of cubozoan jellyfishes with biophysical modelling, James Cook University; Jodie Schlaefer, 2015-2018, Supervisor(s): Michael Kingsford, Eric Wolanski

Doctor of Philosophy (PhD), Influence of increasing ocean temperature on the behavior and movement patterns of coral trout, James Cook University; Molly Scott, 2015-2018, Supervisor(s): Morgan Pratchett, Michelle Heupel, Andrew Tobin

Doctor of Philosophy (PhD), Tropical fisheries and sustainability, reef sharks, and ecosystem connectivity, James Cook University; Stacy Bierwagen, 2015-2018, Supervisor(s): Michelle Heupel, Colin Simpfendorfer, Andrew Chin

Doctor of Philosophy (PhD), Population structure and connectivity of Queensland dugongs, University of Queensland; Alexandra McGowan, 2015-2018, Supervisor(s): Jenny Seddon, Janet Lanyon, Justine Gibson, Nick Clark

Doctor of Philosophy (PhD), Resolving the role of zooplankton in the marine ecosystem with functional size spectra, University of Queensland; Ryan Heneghan, 2015-2018, Supervisor(s): Anthony Richardson, Julia Blanchard

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp, Mark Brown

Honours degree, Testing macroecological hypotheses that drive community structure of zooplankton in the global ocean, University of Queensland; Max Campbell, 2018-2018, Supervisor(s): Anthony Richardson, David Schoeman, Claire Davies

Doctor of Philosophy (PhD), Machine learning algorithms for time-series and their application to restoration, prediction and quality control of oceanographic data, Australian Institute of Marine Science, James Cook University; Vinicius Santino Alves, 2018-2022, Supervisor(s): Ricardo Campello, Paul Rigby, Ickjai Lee, Oleg Makarynsky

**Postgraduate Count 45**

## New South Wales - Integrated Marine Observing System

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), 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), 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), 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), Bayesian non-parametric benthic habitat mapping, University of Sydney; Asher Bender, 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), Predictive habitat modelling using Autonomous Underwater Vehicles, University of Sydney; Nasir Ahsan, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

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

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), Phytoplankton diversity in coastal waters of New South Wales, Australia, Macquarie University; Penny Ajani, 2010-2013, 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, Macquarie University, James Cook University; Erika Woolsey, 2010-2014, Supervisor(s): Andrew Baird, S Keith

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

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), 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), 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

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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), Phytoplankton characterisation of the Coffs Harbour region, Eastern Australia, with special emphasis on changing biogeochemical parameters due to global warming, Macquarie University; Linda Armbrrecht, 2011-2014, Supervisor(s): Amandine Schaeffer, Moninya Roughan, David Raftos

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

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

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

Doctor of Philosophy (PhD), Ontogeny of foraging in Australian fur seals, Macquarie University; Marcus Salton, 2012-2018, 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), 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), 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, 2012-2015, Supervisor(s): Iain Suthers, Micheal Lowry; Funding: ARC Linkage Project, Department of Primary Industries, NSW

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

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

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, Mark Brown

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), Diatom sedimentation and ecological seasonality as observed through sediment-trap studies in the Southern Ocean and New Zealand, Macquarie University; Jessica Wilks, 2013-2018, Supervisor(s): Leanne Armand, Glenn Brock

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

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

Doctor of Philosophy (PhD), Modelling estuarine shelf exchange flow off Sydney, University of New South Wales; Nina Ribbat, 2013-2018, Supervisor(s): Moninya Roughan, Brain Powell, Iain Suthers

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

Doctor of Philosophy (PhD), Influence of phytoplankton cell size on biogeochemical cycling of carbon and nitrogen, University of Technology Sydney; Marco Alvarez Rodriguez, 2014-2018, Supervisor(s): M Doblin, Peter Ralph

Doctor of Philosophy (PhD), Using next-generation multi-spectral FRRf to improve current estimates of marine primary productivity (MPP) within Australian waters, University of Technology Sydney; David Hughes, 2014-2018, Supervisor(s): David Suggett, M Doblin

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), The biogeochemistry of East Australian Current eddies, University of New South Wales; Carlos Rocha, 2015-2018, Supervisor(s): Moninya Roughan

Doctor of Philosophy (PhD), Modulation of internal waves by the East Australian Current, University of New South Wales; Eduardo Vitarelli De Queiroz, 2015-2018, 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, 2016-2019, Supervisor(s): M Doblin

Doctor of Philosophy (PhD), Elasmobranch site fidelity to soft sediment marine reserves of Jervis Bay, NSW, University of Wollongong; Kye Adams, 2016-2019, Supervisor(s): Nathan Knott, Matt Taylor

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

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp, Mark Brown

Masters degree, Molecular mechanisms of nutrient uptake in marine microbial ecosystems, Macquarie University; Andrew McLeish, 2016-2017, Supervisor(s): Bhumika Shah, Martin Ostrowski

Doctor of Philosophy (PhD), Grazing and viral impacts on marine food webs, Macquarie University; Amaranta Focardi, 2016-2019, Supervisor(s): Ian Paulsen, Martin Ostrowski

Honours degree, From production to predation in the western Tasman Sea: the trophic ecology of size structured pelagic ecosystems, University of New South Wales; Lucas Kas, 2017-2018, Supervisor(s): Iain Suthers, Jason Everett

Doctor of Philosophy (PhD), DMSP cycling dynamics in the Australian marine environment, University of Technology Sydney; James O'Brien, 2017-2020, Supervisor(s): Katherina Petrou, Justin Seymour; Funding: ARC

Masters degree, Zooplankton size structure off south-eastern Australia; quantifying the missing trophic link for fisheries, University of New South Wales; Zoe White, 2017-2018, Supervisor(s): Iain Suthers, Jason Everett, Anthony Richardson

Masters degree, Detection of Meteotsunami along the New South Wales coastal region from High Frequency Radar Data, University of Western Australia; Steven Kunej, 2018-2019, Supervisor(s): Charitha Pattiaratchi, Simone Cosoli

**Postgraduate Count 63**

## Southern Australian Integrated Marine Observing System

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

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

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

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

Masters degree, 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

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

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

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

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

Doctor of Philosophy (PhD), The biology and ecology of an important large bodied temperate neritic predator, the bronze whaler (*Carcharhinus brachyurus*) in South Australia's coastal waters, Flinders University, South Australian Research and Development Institute; Michael Drew, 2011-2017, Supervisor(s): Charlie Huveneers, Mark Meekan, Paul Rogers; Partner Institution(s): SARDI – Aquatic Sciences, AIMS, PIRSA

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

Doctor of Philosophy (PhD), Upwelling dynamics in Southern Australia - Numerical Modelling and Observations , University of Tasmania, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation; Hugo Bastos de Oliveira, 2013-2017, Supervisor(s): John Middleton, Peter Oke, Richard Coleman; Partner Institution(s): CSIRO, SARDI; Funding: QMS - Quantitative Marine Sciences and CAPES (Brazilian federal foundation) - Coordination for the Improvement of Higher Education Personnel

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

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

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp,

Mark Brown

Doctor of Philosophy (PhD), Reconstructing the growth and physiological histories of an iconic Australian fish species, University of Adelaide, Gillanders Aquatic Ecology Lab, South Australian Research and Development Institute; Jasmin Martino, 2017-2020, Supervisor(s): Bronwyn Gillanders, Anthony Fowler

Masters degree, Characterisation of the western Great Australian Bight upwelling, Flinders University; Nathan Teder, Supervisor(s): Florence Kaempf

Doctor of Philosophy (PhD), Identifying spawning behaviour and movement patterns of yellowtail kingfish (*Seriola lalandi*) in southern Australia, Flinders University; Thomas Clarke, Supervisor(s): Charlie Huvneers

**Postgraduate Count 18**

## Western Australian Integrated Marine Observing System

Doctor of Philosophy (PhD), The trophic ecology and habitat requirements of the manta ray (*Manta biostriis*) in lagoonal systems of Ningaloo Reef, Western Australia, Murdoch University; Frazer McGregor, 2006-2010, Supervisor(s): Mike Van Keulen, Anya Waite, Mark Meekan; Funding: Murdoch University, Australian Institute of Marine Science

Honours degree, System reliability modelling for the ocean gliders, University of Western Australia; Belinda Chan, 2007-2007, Supervisor(s): Charitha Pattiaratchi

Doctor of Philosophy (PhD), Demography and migration patterns of manta rays (*Manta birostris*) at Ningaloo Reef, Charles Darwin University, Australian Institute of Marine Science; Florencia Cerutti-Pereyra, 2007-2011, Supervisor(s): Corey Bradshaw, Mark Meekan, Chris Austin; Partner Institution(s): AATAMS, University of Adelaide, AIMS, CSIRO, DEC, WA Fisheries, Eonfusion

Doctor of Philosophy (PhD), Oceanographic forcing of phytoplankton dynamics in the waters off North Western Australia, University of Western Australia; Cecile Rousseaux, 2007-2011, Supervisor(s): Anya Waite, Peter Thompson, Ryan Lowe

Doctor of Philosophy (PhD), Movement, feeding and behaviour of reef sharks at Ningaloo Reef, Western Australia, Charles Darwin University, Australian Institute of Marine Science; Conrad Speed, 2007-2011, Supervisor(s): Corey Bradshaw, Mark Meekan, Iain Field, Clive McMahon; Partner Institution(s): AATAMS, University of Adelaide, Macquarie University, AIMS, CSIRO, DEC, WA Fisheries, Eonfusion

Masters degree, Movements and habitat use of freshwater sawfish (*Pristis microdon*) and northern river shark (*Glyphis garricki*) in Western Australia, Murdoch University; Jeff Whitty, 2007-2010, Supervisor(s): David Morgan

Doctor of Philosophy (PhD), Physical processes along the Rottneest continental shelf, University of Western Australia; Thisara Welhena, 2009-2013, Supervisor(s): Charitha Pattiaratchi, Ming Feng; Partner Institution(s): CSIRO; Funding: Western Australian Marine Science Institution, University of Western Australia

Masters degree, Acoustic identification and tracking of marine megafauna, Curtin University, Chalmers University of Technology; Benjamin Trimoreau, 2010-2011, Supervisor(s): Rob McCauley, Alexander Gavrilov, Chandra Salgado Kent

Doctor of Philosophy (PhD), The dynamics of the Ningaloo current system, University of Western Australia; Jiangtao Xu, 2010-2013, Supervisor(s): Gregory Ivey, Ryan Lowe, Charitha Pattiaratchi

Honours degree, Analysis of Seaglider data, University of Western Australia; Ping Jie Teo, 2010-2010, Supervisor(s): Charitha Pattiaratchi, Christine Hanson, Mun Woo

Doctor of Philosophy (PhD), Modelling the tide and sediment dynamics in Darwin Harbour, Northern Territory, Australia, Australian Defence Force Academy; Li Li, 2011-2014, Supervisor(s): Xiao Hua Wang, David Williams; Partner Institution(s): ADFA, AIMS, ARC; Funding: ADFA, ARC

Honours degree, Function and failure analysis (FMEA) of the critical subsystems and components for the UWA ocean gliders, University of Western Australia; Adrian Wan, 2011-2012, Supervisor(s): Charitha Pattiaratchi, Kecheng Shen

Doctor of Philosophy (PhD), Zoogeography and ecology of Euphausiids (krill) in the Indian Ocean, Murdoch University; Alicia Sutton, 2012-2015, Supervisor(s): Lynnath Beckley; Partner Institution(s): Murdoch University; Funding: Australian Postgraduate Award

Honours degree, Ocean sediment dynamics off South Western Australia using ocean gliders, University of Western Australia; Jacob Sutton, 2012-2013, Supervisor(s): Charitha Pattiaratchi, Christine Hanson

Honours degree, Suspended sediment processes along the Kimberley shelf using Slocum ocean gliders, University of Western Australia; Rachel Huynh, 2012-2013, Supervisor(s): Charitha Pattiaratchi, Christine Hanson

Doctor of Philosophy (PhD), Nitrogen cycling in the Indian Ocean, University of Western Australia; Eric Raes, 2012-2015, Supervisor(s): Anya Waite, Pauline Grierson, Peter Thompson; Partner Institution(s): CSIRO, AWI; Funding: University of Western Australia, CSIRO

Doctor of Philosophy (PhD), Circulation of surface water on the Rottneest continental shelf in Western Australia using HF Radar, University of Western Australia; Jennifer Penton, 2012-2014, Supervisor(s): Charitha Pattiaratchi

Honours degree, Multi-year impacts of ecotourism on whale shark (*Rhincodon typus*) visitation at Ningaloo Reef, Western Australia, University of Western Australia; Robert Sanzogni, 2012-2012, Supervisor(s): Mark Meekan, Jessica Meeuwig; Funding: Australian Institute of Marine Science, Apache Energy Ltd, Western Australia Department of Parks and Wildlife

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

Honours degree, Seasonal variability in phytoplankton biomass off the South-West of Western Australia: a phenology of the winter bloom, University of Western Australia; Antony Kuret, 2012-2012, Supervisor(s): Charitha Pattiaratchi, Christine Hanson, Martin Lourey

Doctor of Philosophy (PhD), Shallow water soundscapes, Curtin University; Jamie McWilliam, 2013-2016, Supervisor(s): Rob McCauley, Christine Erbe, Euan Harvey, Miles Parsons; Funding: Curtin International Postgraduate Research Scholarship (CIPRS)

Doctor of Philosophy (PhD), Characterising the ecological role of nursery areas for the protection of two coastal shark species at Ningaloo Reef, Western Australia, University of Western Australia; Beverly Oh, 2013-2015, Supervisor(s): Mark Meekan, Jessica Meeuwig, Michelle Thums

Honours degree, The diet of whale sharks (*Rhincodon typus*) at Ningaloo Reef: An analysis using stable isotopes, University of Western Australia; Samantha Twiname, 2013-2013, Supervisor(s): Mark Meekan, Anya Waite; Funding: Australian Institute of Marine Science, Apache Energy Ltd, Western Australia Department of Parks and Wildlife

Honours degree, Planning ocean glider tracks across the Indian Ocean, University of Western Australia; Clair Ashburn, 2013-2013, Supervisor(s): Charitha Pattiaratchi

Doctor of Philosophy (PhD), The physical and biological variability along the Rottneest continental shelf, University of Western Australia; Miaoju Chen, 2013-2017, Supervisor(s): Charitha Pattiaratchi, Anas Ghadouani, Christine Hanson; Funding: IPRS Scholarship

Doctor of Philosophy (PhD), Surface gravity waves and circulation on the Rottneest continental shelf, Western Australia, University of Western Australia; Moritz Wandres, 2013-2017, Supervisor(s): Charitha Pattiaratchi, Sarath Wijeratne

Honours degree, Limited ecological connectivity of whale shark aggregations across the Indian Ocean, University of Western Australia; Samantha Andrzejczek, 2013-2013, Supervisor(s): Mark Meekan, Jessica Meeuwig; Funding: Australian Institute of Marine Science, Apache Energy Ltd, Western Australia Department of Parks and Wildlife

Doctor of Philosophy (PhD), Dense shelf water formation and gravitational motion, University of Western Australia; Tanziha Mahjabin, 2013-2017, Supervisor(s): Charitha Pattiaratchi, Yasha Hetzel

Honours degree, Surface current measurements using HF radar, University of Western Australia; Vincent Oliveri, 2013-2013, Supervisor(s): Charitha Pattiaratchi

Honours degree, Ocean circulation in the vicinity of the Perth Submarine Canyon viewed using Seagliders, University of Western Australia; Kah Kiat Hong, 2013-2013, Supervisor(s): Charitha Pattiaratchi, Christine Hanson

Honours degree, Sediment dynamics off the Pilbara Coast during a cyclone via Ocean Gliders, University of Western Australia; Yi Jie Wang, 2013-2013, Supervisor(s): Charitha Pattiaratchi, Christine Hanson, Florence Kaempf

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Doctor of Philosophy (PhD), The study of seasonal variability of currents (particularly Holloway current) along the North-West shelf of Australia, University of Western Australia; Mohammad Bahmanpour, 2014-2017, Supervisor(s): Charitha Pattiaratchi; Funding: SIRF Scholarship

Doctor of Philosophy (PhD), Working towards understanding the calling behaviour of the eastern Indian Ocean Pygmy Blue Whales, and how their calling can be used to census the population, Curtin University; Crystal Beckman, 2014-2020, Supervisor(s): Alexander Gavrilov, Rob McCauley

Masters degree, Influence of oceanographic conditions on coastal zooplankton assemblages at three IMOS National Reference Stations in Western Australia, Murdoch University; Erin McCosker, 2015-2016, Supervisor(s): Lynnath Beckley, Claire Davies

Doctor of Philosophy (PhD), Deep learning for underwater scene classifications, University of Western Australia; Ammar Mahmood, 2015-2018, Supervisor(s): Mohammed Bennamoun, Senijan An, Ferdous Sohel

Masters degree, 3D structure of the mesoscale eddies offshore Rottneest Island, University of Western Australia; Yijun Chen, 2016-2016, Supervisor(s): Charitha Pattiaratchi, Simone Cosoli

Doctor of Philosophy (PhD), Upper ocean heat and salinity balance in the South East Indian Ocean, Ocean University of China; Ningning Zhang, 2016-2019, Supervisor(s): Ming Feng; Partner Institution(s): CSIRO; Funding: Western Australian Marine Science Institution

Masters degree, Intra-annual shelf current variability off Northwest WA, University Pierre and Marie Curie; Maxime Marin, 2016-2016, Supervisor(s): Ming Feng; Partner Institution(s): CSIRO; Funding: NCB

Doctor of Philosophy (PhD), Southern right whale vocalisations, distribution and movement patterns in Southern Australian waters, Curtin University; Rhianna Ward, 2016-2019, Supervisor(s): Rob McCauley, Iain Parnum, Alexander Gavrilov; Funding: Curtin University

Doctor of Philosophy (PhD), Overturning circulation of the Indian Ocean, Ocean University of China; Jie Ma, 2016-2018, Supervisor(s): Ming Feng; Funding: China Scholarship Council

Masters degree, Response of Rottneest Island kelp habitats to the marine heatwave of 2010/2011, University of Western Australia; Tim Ward, 2016-2017, Supervisor(s): Leanne Ward

Honours degree, Using acoustics (ADCP and passive acoustics) to investigate biological activity in the Perth Canyon, Curtin University; Lauren Hawkins, 2016-2016, Supervisor(s): Ben Saunders, Iain Parnum, Rob McCauley; Funding: Curtin University

Doctor of Philosophy (PhD), Use of distance sampling and sonobuoy data to estimate abundance of baleen whales, Curtin University; Tamara Al-Hashimi, 2016-2020, Supervisor(s): Rob McCauley, Curt Jenner, Chandra Salgado Kent; Funding: Curtin University

Doctor of Philosophy (PhD), Understanding the role of mid-shelf reefs in coastal ecology: can they act as refugia for shallow marine communities in an extreme climatic event?, University of Western Australia; Ana Ospina, 2016-2019, Supervisor(s): Gary Kendrick, Renae Hovey

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp, Mark Brown

Masters degree, Interaction between currents and waves offshore Rottneest Island, University of Western Australia; Julian Rodino, 2016-2016, Supervisor(s): Simone Cosoli, Charitha Pattiaratchi, Andrew Middleditch

Doctor of Philosophy (PhD), Sperm whales in Australian waters, Curtin University; Chris Johnson, 2017-2020, Supervisor(s): Rob McCauley, Christine Erbe; Partner Institution(s): World Wildlife Fund

Doctor of Philosophy (PhD), Passive acoustic survey of two Australian populations of humpback whales during one breeding season in 2013, Curtin University; Carrie Skorcz, 2017-2020, Supervisor(s): Rob McCauley

Masters degree, Variability of the attenuation coefficient along Two Rocks, University of Western Australia; Winton Huck, 2017-2017, Supervisor(s): Charitha Pattiaratchi

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Masters degree, Detection of meteotsunamis along the Western Australia coastal region from High-Frequency radar data, University of Western Australia; Martyn Craft, 2017-2017, Supervisor(s): Simone Cosoli

Masters degree, Accuracy of wind mapping from HF WERA radars, University of Western Australia; Joseph Walder, 2017-2017, Supervisor(s): Charitha Pattiaratchi, Simone Cosoli

Doctor of Philosophy (PhD), Internal wave dynamics on the continental shelf and the effect of mesoscale processes, University of Western Australia; Yankun Gong, 2017-2020, Supervisor(s): Gregory Ivey, Nicole Jones, M Rayson

Masters degree, Internal wave characterisation on the North West Shelf, University of Western Australia; Mark Spearman, 2018-2018, Supervisor(s): Nicole Jones

**Postgraduate Count 53**

## South East Australia Integrated Marine Observing System

Doctor of Philosophy (PhD), The role of higher trophic level predators on inshore ecosystems and their interactions with fisheries: A case study examining sevengill sharks (*Notorynchus cepedianus*), University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Adam Barnett, 2006-2011, Supervisor(s): Jayson Semmens, John Stevens, Stewart Frusher

Doctor of Philosophy (PhD), Non-extractive monitoring of biodiversity on temperate Australian deepwater reefs: Using advanced vision-processing techniques to develop and test reliable biodiversity metrics, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Jan Seiler, 2008-2011, Supervisor(s): Neville Barrett, Alan Williams, Neil Holbrook

Doctor of Philosophy (PhD), The impact of Fish Aggregating Devices (FADs) on the movement of two tropical tuna species (*Katsuwonus pelamis* and *Thunnus albacares*), University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kilian Stehfest, 2009-2013, Supervisor(s): Jayson Semmens, Mark Hindell, Toby Patterson, Laurent Dagorn

Doctor of Philosophy (PhD), Processes and patterns of colonisation of artificial reefs by fish, Deakin University; Kade Mills, 2010-2016, Supervisor(s): Paul Hamer, Daniel Ierodiaconou, Gerry Quinn; Funding: Victorian Recreational Fishing Licence Trust

Doctor of Philosophy (PhD), Examining the role of area closures for the protection and conservation of an overexploited coastal shark species, University of Tasmania, Institute of Marine and Antarctic Studies; Jaime McAllister, 2010-2014, Supervisor(s): Jeremy Lyle, Jayson Semmens, Colin Buxton; Funding: University of Tasmania, IMAS

Doctor of Philosophy (PhD), The implications for environmental change on the relative importance of salps, copepods and krill in the Storm Bay (Tasmania) ecosystem, Institute of Marine and Antarctic Studies; Nurul Huda Binti Ahmad Ishak, 2011-2014, Supervisor(s): Kerrie Swadling, So Kawaguchi, Guy Williams, Steve Nicol; Funding: Government of Malaysia

Doctor of Philosophy (PhD), Developing conservation management strategies for vulnerable deep water sharks off Southeast Australia, Commonwealth Scientific Industrial Research Organisation, University of Tasmania; Ross Daley, 2011-2017, Supervisor(s): Jayson Semmens, Alastair Hobday; Funding: CSIRO, University of Tasmania

Honours degree, Zooplankton in Recherche Bay and relationship to oceanographic drivers, University of Tasmania; Lucy Quayle, 2012-2012, Supervisor(s): Kerrie Swadling

Doctor of Philosophy (PhD), Benthic habitat modelling using AUV imagery, University of Tasmania; Nicholas Perkins, 2012-2015, Supervisor(s): Neville Barrett

Degree - Other, 3rd year project - Seasonal and inter-annual variation in profiling CTD/FLNTU castes at the Maria Island National Reference Station, University of Tasmania; Anne Ford, 2012-2012, Supervisor(s): Tim Lynch, Kerrie Swadling; Partner Institution(s): UTas; Funding: CSIRO

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

Honours degree, Can size be used to characterise community structure?, University of Queensland; Amelia Armstrong, 2013-2013, Supervisor(s): Anthony Richardson, Scarla Weeks; Partner Institution(s): CSIRO; Funding: University of Queensland

Doctor of Philosophy (PhD), Biology of the White Spotted Dogfish (*Squalus acanthias*) in South-East Australia, University of Tasmania; David Iturria, 2013-2017, Supervisor(s): Jeremy Lyle, Justin Bell, Jayson Semmens

Honours degree, Drivers of Eastern Australia zooplankton community composition: emphasis on the distribution patterns at Maria Island, University of Tasmania; Paige Kelly, 2013-2014, Supervisor(s): L Clementson, Kerrie Swadling

Honours degree, CO2 System variability at the Maria Island National Reference Station, University of Tasmania; Jane Moran, Supervisor(s): Zanna Chase, Katherine Jones, Bronte Tilbrook

Doctor of Philosophy (PhD), Stock structure and critical habitats for a key apex predator: the sevengill shark, University of Tasmania, James Cook University, Deakin University; Alicia Schmidt-Roach, 2013-2017, Supervisor(s): Jayson Semmens, Adam Barnett, Craig Sherman, Paul Hamer

Doctor of Philosophy (PhD), Autonomous underwater vehicles: a platform for investigating biophysical relationships in cross self-benthic communities, University of Tasmania; Lainey James, 2015-2019, Supervisor(s): Neville Barrett, Jacquomo Monk, Vanessa Lucieer, Martin Marzloff

Doctor of Philosophy (PhD), Uncoupling oceanographic and life-history drivers to alternate foraging strategies in long-nosed fur seals, University of Tasmania, South Australian Research and Development Institute; Dahlia Foo, 2015-2018, Supervisor(s): Mark Hindell, Simon Goldsworthy, Jayson Semmens, Clive McMahon

Doctor of Philosophy (PhD), Evaluating the role of inertial and tidal internal wave dynamics on a narrow continental shelf: an assessment of the dominant physical dynamics influencing the nutrient energy budget, University of Western Australia; Tamara Schlosser, 2015-2019, Supervisor(s): Nicole Jones, Cynthia Bluteau, Gregory Ivey, Andrew Lucas

Masters degree, Environmental drivers of residency patterns in three batoid species; *Dasyatis brevicaudata*, *Myliobatis tenuicaudatus* and *Spiniraja whitleyi*, University of Tasmania; Kali Hubbert, 2015-2016, Supervisor(s): Jayson Semmens, Kilian Stehfest

Masters degree, Behaviour of a unique temperate elasmobranch assemblage, University of Tasmania; Evan Leonard, 2016-2017, Supervisor(s): Jayson Semmens, Kilian Stehfest

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp, Mark Brown

Masters degree, Variability in the attenuation coefficient in Storm Bay, University of Western Australia; Nathaniel Kwong, 2017-2017, Supervisor(s): Charitha Pattiaratchi

**Postgraduate Count 23**

## No Associated Node

Doctor of Philosophy (PhD), The role of aggregation in the control of particulate carbon export, Bremen University; Friederike Ebersbach, 2006-2010, Supervisor(s): Dieter Wolf-Gladrow, Tom Trull

Doctor of Philosophy (PhD), Subantarctic zone nitrogen cycling, Princeton University; Peter DiFiore, 2006-2010, Supervisor(s): Daniel Sigman

Doctor of Philosophy (PhD), Population structure, spatial ecology and socio-economic value of reef sharks in Palau, Micronesia, University of Western Australia, Australian Institute of Marine Science; Gabriel Vianna, 2010-2013, Supervisor(s): Mark Meekan, Jessica Meeuwig, Gary Kendrick

Doctor of Philosophy (PhD), Abundance, distribution and conservation value of sharks in the Galapagos Marine Reserve, Commonwealth Scientific Industrial Research Organisation, University of Tasmania; Cesar Penaherrera-Palma, 2012-2016, Supervisor(s): Jayson Semmens, Stewart Frusher, Alastair Hobday, Alex Hearn



Doctor of Philosophy (PhD), The Evolution of Anticyclonic Eddies of the Tasman Sea: Vertical Velocity and Other Properties, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Gabriela Pilo, 2014-2018, Supervisor(s): Richard Coleman, Peter Oke

Doctor of Philosophy (PhD), Modelling Marine Communities to Produce the First Global Data-Driven Bioregionalisation and Inform Conservation, University of Queensland; Phil Dyer, 2017-2020, Supervisor(s): Anthony Richardson, David Schoeman, Roland Pitcher

Doctor of Philosophy (PhD), Oceanographic Drivers of Coral Reef Connectivity off northwestern Australia, University of Western Australia; Camille Grimaldi, 2018-2020, Supervisor(s): Ryan Lowe, Jessica Benthuisen

**Postgraduate Count 7**