

Publications using IMOS data

Argo floats

Helm, KP 2008, Decadal ocean water mass changes: global observations and interpretation, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Herraiz-Borreguero, L 2010, The distribution, circulation and variability of subantarctic mode water, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Zika, JD 2010, Quantifying ocean mixing from hydrographic data, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Bhatt, V 2010, Modelling dynamics of the East Australian Current and the subtropical mode water off East Coast of Australia, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Jaffres, JBD 2011, The oceanographic and geochemical effects of mixed layer depth variability and increasing anthropogenic CO₂ on the inorganic carbon system of the Coral Sea, Doctor of Philosophy (PhD), James Cook University, Townsville

Durack, P 2011, Global ocean salinity: a climate change diagnostic?, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Drushka, K 2011, Ocean dynamics and thermodynamics in the tropical Indo-Pacific region, Doctor of Philosophy (PhD), Scripps Institution of Oceanography, San Diego

Zhang, F 2012, Benefits of regional ocean and weather forecast systems: evidence from the Australian East Coast, Doctor of Philosophy (PhD), Australian Defence Force Academy, Canberra

Woodham, RH 2013, Predicting the oceanic mesoscale dynamics in the Australian region, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Meyer, A 2013, Diapycnal mixing and the internal wave field north of the Kerguelen Plateau, Doctor of Philosophy (PhD), University of Tasmania, Hobart

MacDonald, HS 2013, Numerical modelling of mesoscale eddies in the Tasman Sea, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Roach, C 2014, Ekman Currents In The Antarctic Circumpolar Current, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Raes, E 2016, N₂ fixation and N cycling in the south-eastern Indian Ocean: from the Tropics to the Subtropics, Doctor of Philosophy (PhD), University of Western Australia, Perth

Lago, V 2016, Ocean temperature and salinity responses to 50 year changes in surface conditions, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Ships of opportunity

Hill, K 2009, Wind forced changes and variability in the East Australia Current, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Herraiz-Borreguero, L 2010, The distribution, circulation and variability of subantarctic mode water, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Cheah, W 2012, Photosynthetic performance and productivity of phytoplankton in the Southern Ocean, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Coughlan, A 2013, Effects of climate change on phytoplankton phenology, distribution and community composition off Australia's East Coast, Honours degree, University of Queensland, Brisbane

Cubillos, JC 2013, Calcification patterns of the coccolithophore *Coccolithus braarudii* (Haptophyta), from the late Quaternary to present in the Southern Ocean, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Russo, R 2014, Mining spatio-temporal dataset to identify environmental phenomena on the Great Barrier Reef, Honours degree, James Cook University, Townsville

Henschke, N 2015, Salp swarms in the Tasman Sea: insights into their population ecology, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Roden, N 2016, Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Escobar Flores, P 2017, The use of acoustics to characterise mid-trophic levels of the Southern Ocean pelagic ecosystem, Doctor of Philosophy (PhD), University of Auckland, Auckland

Thesis Count **9**

Deep water moorings

Moy, AD 2005, Late pleistocene palaeoceanographic and geochemical evolution of the South Tasman Rise, Doctor of Philosophy (PhD), University of Tasmania, Hobart

DiFiore, PJ 2010, Nitrate isotope dynamics in the Southern Ocean, Doctor of Philosophy (PhD), Princeton University, Princeton

Ebersbach, F 2011, Flux and modification of sinking particles: three field studies in the Southern Ocean, Doctor of Philosophy (PhD), Bremen University, Bremen

Doran, J 2012, Faecal pellet dynamics and carbon fluxes from gel-based sediment traps in the Southern Ocean, Honours degree, University of Western Australia, Perth

Karsh, K 2013, Isotopic fractionation accompanying algal nitrate assimilation, Doctor of Philosophy (PhD), Princeton University, Princeton

Cubillos, JC 2013, Calcification patterns of the coccolithophore *Coccolithus braarudii* (Haptophyta), from the late Quaternary to present in the Southern Ocean, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Coxson, C 2013, The role of biogenic silica in carbon cycling processes in the sub-Antarctic zone south of Australia, Honours degree, University of Tasmania, Hobart

Laurenceau-Cornec, E 2015, Ecosystem controls on carbon export efficiency from the naturally iron-fertilised phytoplankton bloom over the Kerguelen Plateau, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Closset, I 2015, The biogeochemical cycle of silicon in the Southern Ocean by isotopic approaches, Doctor of Philosophy (PhD), University of Paris, Paris

Roden, N 2016, Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Thesis Count 10

Ocean gliders

Welhena, T 2014, Cross-shelf physical processes along the Rottneest continental shelf, Doctor of Philosophy (PhD), University of Western Australia, Perth

Mahjabin, T 2017, Occurances and controls on dense shelf water cascades along the Australian Continental Shelves, Doctor of Philosophy (PhD), University of Western Australia, Perth

Chen, M 2017, Chlorophyll response to physical forcing along the Rottneest continental shelf: new insights using ocean gliders, Doctor of Philosophy (PhD), University of Western Australia, Perth

Bahmanpour, MH 2017, The Holloway Current along the shelf edge of North Western Australia, Doctor of Philosophy (PhD), University of Western Australia, Perth

Bastos de Oliviera, H 2018, Upwelling dynamics in Southern Australia - Numerical Modelling and Observations , Doctor of Philosophy (PhD), University of Tasmania, Hobart

Thesis Count 5

Autonomous underwater vehicle

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

Steinberg, D 2013, Dirichlet process mixture models for autonomous habitat classification., Doctor of Philosophy (PhD), University of Sydney, Sydney

Friedman, A 2013, Active learning using a variational dirichlet process model for pre-clustering and classification of underwater stereo imagery, Doctor of Philosophy (PhD), University of Sydney, Sydney

Ahsan, N 2013, Combining exploration and exploitation in active learning, Doctor of Philosophy (PhD), University of Sydney, Sydney

Seiler, J 2013, Non-extractive monitoring of biodiversity on temperate Australian deepwater reefs: using advanced vision-processing techniques to develop and test reliable biodiversity metrics, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Bender, A 2013, Bayesian non-parametric benthic habitat mapping, Doctor of Philosophy (PhD), University of Sydney, Sydney

Barkby, S 2013, Efficient and featureless approaches to bathymetric simultaneous localisation and mapping, Doctor of Philosophy (PhD), University of Sydney, Sydney

Bridge, T 2013, Habitats and sessile benthic megafaunal communities in the mesophotic zone of the Great Barrier Reef world heritage area, Australia, Doctor of Philosophy (PhD), James Cook University, Townsville

Medagoda, L 2013, Water column current profile aided localisation for Autonomous Underwater Vehicles, Doctor of Philosophy (PhD), University of Sydney, Sydney

Dansereau, D 2014, Plenoptic signal processing for robust vision in field robotics, Doctor of Philosophy (PhD), University of Sydney, Sydney

Bongiorno, D 2015, Hyperspectral benthic mapping from underwater robotic platforms, Doctor of Philosophy (PhD), University of Sydney, Sydney

Perkins, N 2016, The application of benthic imagery from an Autonomous Underwater Vehicle to broad-scale ecological monitoring, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Bewley, M 2016, Hierarchical classification of scientific taxonomics with Autonomous Underwater Vehicles, Doctor of Philosophy (PhD), University of Sydney, Sydney

Rao, D 2016, Multimodal learning from visual and remotely sensed data, Doctor of Philosophy (PhD), University of Sydney, Sydney

Toohey, L 2017, Full history cooperative localisation with complete information sharing, Doctor of Philosophy (PhD), University of Sydney, Sydney

Thesis Count

15

National mooring network

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

Rousseaux, C 2011, Oceanographic forcing of phytoplankton dynamics in the waters off North Western Australia, Doctor of Philosophy (PhD), University of Western Australia, Perth

Redondo-Rodriguez, A 2012, Implications of climate variability and change for the oceanography of the Great Barrier Reef ecosystem, Doctor of Philosophy (PhD), University of Queensland, Brisbane

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

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

Choukroun, S 2012, The sub-surface circulation of the Coral Sea and Great Barrier Reef, Doctor of Philosophy (PhD), James Cook University, Townsville

Cetina-Heredia, P 2012, Modelling physical and biological drivers of larval retention in reef systems., Doctor of Philosophy (PhD), James Cook University, Townsville

Jaine, F 2013, The movement ecology of the reef manta ray *Manta alfredi* in Eastern Australia, Doctor of Philosophy (PhD), University of Queensland, Brisbane

Ajani, P 2013, Phytoplankton diversity in the coastal waters of New South Wales, Australia, Doctor of Philosophy (PhD), Macquarie University, Sydney

MacDonald, HS 2013, Numerical modelling of mesoscale eddies in the Tasman Sea , Doctor of Philosophy (PhD), University of New South Wales, Sydney

- Li, L 2013, Modelling the Tidal and Sediment Dynamics in Darwin Harbour, Northern Territory, Australia, Doctor of Philosophy (PhD), Australian Defence Force Academy, Canberra
- Coughlan, A 2013, Effects of climate change on phytoplankton phenology, distribution and community composition off Australia's East Coast, Honours degree, University of Queensland, Brisbane
- Armbrecht, L 2014, Phytoplankton characterisation and time-series survey of the Coffs Harbour region, Eastern Australia, with special emphasis on the oceanographic context, Doctor of Philosophy (PhD), Macquarie University, Sydney
- Wood, JE 2014, The circulation on the continental shelf of South-Eastern Australia, Doctor of Philosophy (PhD), University of New South Wales, Sydney
- Welhena, T 2014, Cross-shelf physical processes along the Rottneest continental shelf, Doctor of Philosophy (PhD), University of Western Australia, Perth
- Xu, J 2014, Ocean dynamics and connectivity on the Ningaloo Shelf, Doctor of Philosophy (PhD), University of Western Australia, Perth
- Balcazar, N 2014, Acoustics: a tool to reveal the behaviour of the blue whale, Doctor of Philosophy (PhD), University of New South Wales, Sydney
- Henschke, N 2015, Salp swarms in the Tasman Sea: insights into their population ecology, Doctor of Philosophy (PhD), University of New South Wales, Sydney
- Zhu, X 2015, Coastal shallow water diurnal warming, Doctor of Philosophy (PhD), University of Miami, Miami
- Richardson, L 2015, Water mass connectivity and mixing along the southern margin of Australia: hydrographic and stable isotope analyses, Doctor of Philosophy (PhD), Australian National University, Canberra
- Robinson, C 2016, Optical niche partitioning of phytoplankton and implications for carbon fixation, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney
- Hawkins, L 2016, Using acoustics to study biological activity in the Perth Canyon, Western Australia., Honours degree, Curtin University, Perth
- Bibiloni-Isaksson, J 2016, Biogeography of photoheterotrophic bacteria in the Australian marine environment, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney
- Raes, E 2016, N₂ fixation and N cycling in the south-eastern Indian Ocean: from the Tropics to the Subtropics, Doctor of Philosophy (PhD), University of Western Australia, Perth
- Messer, L 2016, Dynamics of nitrogen fixation in Australia's marine environment, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney
- Bahmanpour, MH 2017, The Holloway Current along the shelf edge of North Western Australia, Doctor of Philosophy (PhD), University of Western Australia, Perth
- Jiang, D 2017, An operational circulation and ecology forecast system for Jervis Bay, NSW, Doctor of Philosophy (PhD), Australian Defence Force Academy, Canberra
- McCosker, E 2017, Influence of oceanographic conditions on coastal zooplankton assemblages at three IMOS National Reference Stations in Western Australia, Masters degree, Murdoch University, Perth
- Hughes, D 2018, Using next-generation multi-spectral FRRf to improve current estimates of marine primary productivity (MPP) within Australian waters, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney
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Bastos de Oliveira, H 2018, Upwelling dynamics in Southern Australia - Numerical Modelling and Observations , Doctor of Philosophy (PhD), University of Tasmania, Hobart

Thesis Count 30

Ocean radar

Penton, J 2017, Effects of wind forcing on surface currents and mesoscale eddies, Doctor of Philosophy (PhD), University of Western Australia, Perth

Bastos de Oliveira, H 2018, Upwelling dynamics in Southern Australia - Numerical Modelling and Observations , Doctor of Philosophy (PhD), University of Tasmania, Hobart

Thesis Count 2

Animal tracking

Dudgeon, C 2008, Ecology of the zebra shark *Stegostoma fasciatum*; with emphasis on a seasonal aggregation in South-East Queensland, Australia, Doctor of Philosophy (PhD), University of Queensland, Brisbane

Barnett, A 2011, The role of apex predators in coastal ecosystems: a case study examining the broadnose sevengill Shark *Notorhynchus cepedianus*, Doctor of Philosophy (PhD), University of Tasmania, Hobart

McGregor, F 2011, The trophic ecology and habitat requirements of the manta ray (*Manta birostris*) in lagoonal systems of Ningaloo Reef, Doctor of Philosophy (PhD), Murdoch University, Perth

McBride, C 2011, Selective forces driving atypical group formation by the mourning cuttlefish (*Sepia plangon*), Doctor of Philosophy (PhD), Macquarie University, Sydney

Knip, D 2011, Modelling spatial ecology of mobile predators in a nearshore tropical environment and its implication for marine protected areas, Doctor of Philosophy (PhD), James Cook University, Townsville

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

McPhan, L 2012, Exogenous factors affecting activity rhythms in an estuarine teleost, Honours degree, University of New South Wales, Sydney

Couturier, L 2012, Population ecology and biology of the reef manta ray *Manta alfredi* in Eastern Australia, Doctor of Philosophy (PhD), University of Queensland, Brisbane

Sanzogni, R 2012, Multi-year impacts of ecotourism on whale shark (*Rhincodon typus*) visitation at Ningaloo Reef, Western Australia, Honours degree, University of Western Australia, Perth

Cerutti-Pereyra, F 2012, An integrated approach to the conservation and management of tropical Indo-Pacific batoids, with a focus on Australian species, Doctor of Philosophy (PhD), Charles Darwin University, Darwin

Speed, CW 2012, Behavioural and trophic ecology of reef sharks at Ningaloo Reef, Western Australia, Doctor of Philosophy (PhD), Charles Darwin University, Darwin

Pursche, A 2013, Using ecology and behaviour to optimise release strategies for mulloway *Argyrosomus japonicus* (Sciaenidae), Doctor of Philosophy (PhD), University of New South Wales, Sydney

Stehfest, K 2013, Novel methods for quantifying movement behaviour of free-ranging fish from telemetry data, Doctor of Philosophy (PhD), University of Tasmania, Hobart

- Andrzejczek, S 2013, Limited ecological connectivity of whale shark aggregations across the Indian Ocean, Honours degree, University of Western Australia, Perth
- Chin, A 2013, The biology and ecology of the blacktip reef shark *Carcharhinus melanopterus* (Quoy & Gaimard, 1824) and implications for management, Doctor of Philosophy (PhD), James Cook University, Townsville
- Twina, S 2013, The diet of whale sharks (*Rhincodon typus*) at Ningaloo Reef: an analysis using stable isotopes, Honours degree, University of Western Australia, Perth
- Lee, K 2014, Novel application of acoustic telemetry as a conservation tool for large predatory fish, Doctor of Philosophy (PhD), Macquarie University, Sydney
- Marzullo, T 2014, Estuarine use and ecological impacts of two stingray families; dasyatids and urolophids (stingrays and stingarees), Doctor of Philosophy (PhD), University of New South Wales, Sydney
- White, J 2014, The ecology of shark-like batoids: implications for management in the great barrier reef region, Doctor of Philosophy (PhD), James Cook University, Townsville
- Schnell, A 2014, Signalling, mating and conflict resolution in the giant Australian cuttlefish, *Sepia apama*, Doctor of Philosophy (PhD), Macquarie University, Sydney
- Vianna, G 2014, Population structure, spatial ecology and socio-economic value of reef sharks in Palau, Micronesia, University of Western Australia, Doctor of Philosophy (PhD), University of Western Australia, Perth
- Gannon, R 2014, Site fidelity, natal homing and metapopulation structure in large estuarine predators, Doctor of Philosophy (PhD), University of New South Wales, Sydney
- Kim, Y 2014, Breeding and foraging ecology of the threatened Gould's Petrel, *Pterodroma leucophaea*, Doctor of Philosophy (PhD), Macquarie University, Sydney
- Udyawer, V 2015, Spatial ecology of true sea snakes (Hydrophiinae) in coastal waters of North Queensland, Doctor of Philosophy (PhD), James Cook University, Townsville
- Stocks, J 2015, Ecology of the eastern rock blackfish *Girella elevata* across a latitudinal gradient, Doctor of Philosophy (PhD), University of New South Wales, Sydney
- Keller, K 2015, Fish residency and fish harvest from an offshore artificial reef, Doctor of Philosophy (PhD), Department of Primary Industries, NSW, Sydney
- Alberts-Hubatsch, H 2015, Movement patterns and habitat use of the exploited swimming crab *Scylla serrata* (Forsk., 1775), Doctor of Philosophy (PhD), Griffith University, Brisbane
- Currey, L 2015, Movement of an exploited reef teleost across spatial and temporal scales, Doctor of Philosophy (PhD), James Cook University, Townsville
- Munroe, S 2015, Habitat and dietary selectivity of nearshore shark populations, Doctor of Philosophy (PhD), James Cook University, Townsville
- Ledee, E 2015, Improving understanding of spatial ecology through network analysis of acoustic monitoring data, Doctor of Philosophy (PhD), Australian Institute of Marine Science, Townsville
- Espinoza, M 2015, Movements, habitat use and connectivity of reef-associated sharks: implications for management and conservation, Doctor of Philosophy (PhD), James Cook University, Townsville
- Brodie, S 2016, The ecology and distribution of two pelagic fish: yellowtail kingfish *Seriola lalandi* and dolphinfish *Coryphaena hippurus*, Doctor of Philosophy (PhD), University of New South Wales, Sydney
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Cadiou, G 2016, Movements and activity patterns of luderick (*Girella tricuspidata*): drivers and spatial scales, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney

Penaherrera-Palma, C 2016, Abundance, distribution and conservation value of sharks in the Galapagos Marine Reserve, Doctor of Philosophy (PhD), Commonwealth Scientific Industrial Research Organisation, Hobart

Labrousse, S 2016, Foraging ecology of male and female elephant seals in the sea-ice zone: role of the physiography, hydrological factors, and sea-ice condition, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Hubbert, K 2016, Environmental drivers of residency patterns in three batoid species; *Dasyatis brevicaudata*, *Myliobatis tenuicaudatus* and *Spiniraja whitleyi*, Masters degree, University of Tasmania, Hobart

McAllister, J 2016, Examining the role of area closures for the protection and conservation of an overexploited coastal shark species, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Matley, J 2016, Investigation of coral trout (*Plectropomus* spp.) movement patterns and resource use: a multidisciplinary approach using acoustic telemetry and dietary indicators, Doctor of Philosophy (PhD), Australian Institute of Marine Science, Townsville

Oh, B 2016, Characterising the ecological role of nursery areas for the protection of two coastal shark species at Ningaloo , Doctor of Philosophy (PhD), University of Western Australia, Perth

van der Meulen, D 2016, Environmentally mediated spawning migrations of an estuarine dependent sillaginid, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Malpress, V 2017, Bio-physical characterisation of east Antarctic polynyas as key southern elephant seal (*Mirounga leonina*) foraging habitat, Honours degree, University of Tasmania, Hobart

Lads, M 2017, Modelling energetics of fur seals and sea lions, Doctor of Philosophy (PhD), Macquarie University, Sydney

Thesis Count 42

Wireless sensor networks

Woolsey, E 2014, Coral larval ecology and biogeography in a warming ocean, Doctor of Philosophy (PhD), Macquarie University, Sydney

Thesis Count 1

Satellite remote sensing

Redondo-Rodriguez, A 2012, Implications of climate variability and change for the oceanography of the Great Barrier Reef ecosystem, Doctor of Philosophy (PhD), University of Queensland, Brisbane

MacDonald, HS 2013, Numerical modelling of mesoscale eddies in the Tasman Sea , Doctor of Philosophy (PhD), University of New South Wales, Sydney

Armbrecht, L 2014, Phytoplankton characterisation and time-series survey of the Coffs Harbour region, Eastern Australia, with special emphasis on the oceanographic context, Doctor of Philosophy (PhD), Macquarie University, Sydney

Henschke, N 2015, Salp swarms in the Tasman Sea: insights into their population ecology, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Zhu, X 2015, Coastal shallow water diurnal warming, Doctor of Philosophy (PhD), University of Miami, Miami

Johnson, R 2016, Remote sensing of phytoplankton in the Southern Ocean , Doctor of Philosophy (PhD), University of Tasmania, Hobart

Robinson, C 2016, Optical niche partitioning of phytoplankton and implications for carbon fixation, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney

Zhang, H 2017, Investigating Sea Surface Temperature Diurnal Variation over the Tropical Warm Pool Region, Doctor of Philosophy (PhD), University of New South Wales, Canberra

Penton, J 2017, Effects of wind forcing on surface currents and mesoscale eddies, Doctor of Philosophy (PhD), University of Western Australia, Perth

Thesis Count 9

OceanCurrent

Sutton, A 2015, Krill in the Leeuwin Current system: Influence of oceanography and contribution to Indian Ocean zoogeography , Doctor of Philosophy (PhD), Murdoch University, Perth

Thesis Count 1