

# Queensland's Integrated Marine Observing System



## Research Projects

Reef rescue marine monitoring program, Reef and Rainforest Research Centre, Britta Schaffelke, 2005-2013, Partner Institution(s): GBRMPA, AIMS, James Cook University, CSIRO, the Northern Fisheries Centre of the Queensland Department of Employment, Economic Development and Innovation and the National Research Centre for Environmental Toxicology at the University of Queensland, Funding: Caring For Our Country

Early warning and assessment system for thermal stress on the GBR, Marine and Tropical Sciences Research Facility, Ove Hoegh-Guldberg, Scarla Weeks, Ray Berkelmans, Craig Steinberg, 2006-2010

Study of manta rays within the South East Queensland waters, University of Queensland, Kathy Townsend, 2007-2008, Partner Institution(s): South East Queensland Catchments, Funding: South East Queensland Catchments

Reef temp project - GBRMPA web tool for predicting coral bleaching , University of Melbourne, Jeffrey Maynard

Dietary ecology and remote sensing as predictive tools for habitat utilisation of the manta ray, Manta birostris, Mike Bennett, Kathy Townsend, Scarla Weeks, 2007-2009, Partner Institution(s): Sea World, Funding: Seaworld Research and Rescue Foundation

Project Manta – a multidisciplinary study of an iconic species, University of Queensland, Kathy Townsend, Mike Bennett, Anthony Richardson, Scarla Weeks, 2007-2012, Partner Institution(s): CSIRO, Earthwatch, Lady Elliot Island Resort, CRL, Sea World, Redland City Council, SEQ Catchments, Manta Lodge and Scuba Centre

New tools for managing ecosystem responses to climate change on the Southern Great Barrier Reef, James Cook University, Ove Hoegh-Guldberg, Kenneth Anthony, Andrew Bakun, Brad Congdon, Sophie Dove, Gene Feldman, Mal Heron, Ron Johnstone, Andrew Krockenberger, Laurence McCook, Allan Strong, Paul Marshall, Diane DiMassa, Julian Michael Caley, 2007-2011

Ecological management sub-project - assessing native fish behaviour in response to flow in a dryland river (Moonie R, southwest QLD), eWater CRC, Jon Marshall, Stephen Balcombe, 2007-2010, Partner Institution(s): DERM, Griffith University, Arthur Rylah Insatiate, Monash University

Site Fidelity, localised movement patterns and migrations of manta rays along the Queensland coast, University of Queensland, Mike Bennett, Kathy Townsend, 2007-2009

Preliminary acoustic monitoring of sharks on the Ribbon Reefs, James Cook University, Michelle Heupel, 2008-2008, Partner Institution(s): Reef Channel, JCU

Project Manta – Ecology and biology of an iconic marine animal, University of Queensland, Commonwealth Scientific Industrial Research Organisation, Kathy Townsend, 2008-2011, Partner Institution(s): Hannan Productions, Redland City Council, Kaufmann Productions, Earthwatch, LEI Eco-Resort, Manta Lodge and Scuba Centre, Consolidated Rutile Limited

Plankton dynamics in Moreton Bay, University of Queensland, Griffith University, Anthony Richardson, Funding: ARC

Receiving water quality modelling, Australian Institute of Marine Science, Commonwealth Scientific Industrial Research Organisation, Richard Brinkman, Mike Herzfeld, 2009-2011, Partner Institution(s): GBRMPA, MTSRF, Funding: Marine and Tropical Sciences Research Facility (MTSRF)

Wave climate in the Southern Great Barrier Reef, James Cook University, Mal Heron, Michael Banner, Lucy Wyatt, 2009-2012, Partner Institution(s): Helzel Messtechnik GmbH, Seaview Sensing Ltd

Spatial ecology of inshore predators in tropical marine systems and implications of marine protection zones, Colin Simpfordorfer, Michelle Heupel, David Welch, John Carlson, 2009-2011, Funding: ARC Linkage Project

eAtlas, Australian Institute of Marine Science, Katrina Fabricius, 2009-2013, Partner Institution(s): JCU, GBRMPA, Funding: National Environmental Research Program (NERP) , Marine and Tropical Sciences Research Facility (MTSRF)

Innovative Solutions 2, Department of Primary Industries SA, John Luick, 2009-2013, Funding: Fisheries Research and Development Corporation

Hydrodynamics at the whole-of-GBR scale, Australian Institute of Marine Science, Commonwealth Scientific Industrial Research Organisation, Richard Brinkman, Mike Herzfeld, 2009-2010, Partner Institution(s): MTSRF and GBRMPA

Predictive tool for the improved monitoring of the onset and outbreak of coral disease (White Syndrome) in northern Australia , University of Melbourne, Jeffrey Maynard

Smart Environmental Monitoring and Analysis Technologies - SEMAT, University of Queensland, Ron Johnstone, 2009-2012, Partner Institution(s): Queensland State Government, Milan Foundation, Torino Foundation., Funding: Queensland Smart State

Presence and residency of inshore teleosts within a scientific research zone, Australian Institute of Marine Science, Michelle Heupel, Mike Cappo

Longitudinal movement of *Tandanus tandanus* in the Pioneer R, QLD: the influence of flow and connectivity, Department of Environment and Resource Management, Jon Marshall, Stephen Balcombe, 2010-2011, Partner Institution(s): Griffith University

Sub-tropical Queensland great white and bull shark tagging program, Queensland Fisheries, Jonathon Werry, 2010-2015, Partner Institution(s): Griffith University

Ultra high-resolution SST analysis over the Great Barrier Reef - testing use of IMOS HRPT AVHRR L2P products in the SST analysis system , French Research Institute for Exploration of the Sea, Jean-Francois Poille, Partner Institution(s): Ifremer, Funding: European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)

Analysis and visualisation tools for the interactions of biological and physical processes in the Great Barrier Reef, James Cook University, Michelle Heupel, Roger Proctor, Wiebke Ebeling, 2010-2012, Partner Institution(s): UTAS, JCU , Funding: ANNIMS

Long-term changes in gelatinous plankton in Australia, Griffith University, Kylie Pitt, 2010-2011, Partner Institution(s): US National Center for Ecological Analysis and Synthesis

HF radar applications on coral reefs, James Cook University, Mal Heron, Diane DiMassa, 2010-2012, Partner Institution(s): Massachusetts Maritime Academy, Funding: James Cook University, Massachusetts Maritime Academy, Bureau of Meteorology

Automated detection and identification of marine organisms using sensor networks, University of Melbourne, Marimuthu Palaniswami, 2010-2011, Funding: ARC

Reef rescue marine monitoring program, Commonwealth Scientific Industrial Research Organisation, Vittorio Brando, 2010-2010, Partner Institution(s): AIMS, JCU, Funding: Great Barrier Reef Marine Park Authority

Event detection and data management using cloud computing based systems for sensor network data, University of Melbourne, Marimuthu Palaniswami, 2010-2011, Funding: ARC

Integration of Autonomous Underwater Vehicles (AUVs) and remote satellite sensing for automated and persistent monitoring, University of Queensland, Chris Roelfsema, Matthew Dunbabin, Russ Babcock, 2011-2013, Funding: CSIRO

Understanding climate drivers and predicting the future for coastal Australian ecosystems, University of Tasmania, Peter Strutton, Jayson Semmens, Caleb Gardner, Gary Griffith, 2011-2013, Partner Institution(s): UWA, JCU, Funding: ANNIMS

Next generation satellite tools for understanding change in coral reef ecosystems due to multiple global and local stressors, University of Queensland, Ove Hoegh-Guldberg, Sophie Dove, Mark Eakin, Ray Berkelmans, Scott Bainbridge, David Wachenfeld, 2011-2016, Partner Institution(s): University of Queensland, Australian Institute of Marine Science, Great Barrier Reef Marine Park Authority, NOAA, Funding: ARC Linkage Project

An integrated examination of the drivers of movements of large filter feeding organisms of high ecotourism value: a case study, University of Queensland, Commonwealth Scientific Industrial Research Organisation, Mike Bennett, Kathy Townsend, Anthony Richardson, Scarla Weeks, 2011-2013, Partner Institution(s): Earthwatch, LEI Eco-Resort, Manta Lodge and Scuba Centre, Consolidated Rutile Limited, CSIRO, Funding: ARC Linkage Project

Changing ocean temperatures and movements of marine predators: the performance of marine protected areas in a warming ocean, James Cook University, Michelle Heupel, 2011-2015, Funding: ARC Future Fellowship

SeaDroid: low cost, real-time water temperature logging, National Oceanic and Atmospheric Administration, Jim Hendee, Tim Burgess, Scott Heron, Scott Bainbridge, 2011-2012, Partner Institution(s): Australian Institute of Marine Science, Funding: NOAA - National Oceanic and Atmospheric Administration

Ocean-shelf exchange with an emphasis on the role of waves, tides, eddies and cross-shelf flows on carbon exchange, University of Western Australia, University of Tasmania, James Cook University, Charitha Pattiaratchi, Roger Proctor, Peter Ridd, 2011-2012, Partner Institution(s): UWA, JCU, AIMS, UTas, CSIRO, UNSW, UTS, SARDI/Flinders, IOC, Proudman Oceanographic Laboratory, University of Southern Mississippi, University of Maryland, Baltic Sea Research Institute, Funding: ANNIMS

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

Scientific support for managing Australia's marine biodiversity - a national marine biodiversity hub, University of Tasmania, Nicholas Bax, Chris Austin, Russ Babcock, Neville Barrett, Mark Bravington, Brendan Brooke, Julian Michael Caley, Piers Dunstan, Karen Edyvane, Peter Harris, Sarah Jennings, Gary Kendrick, Tim O'Hara, Sean Pascoe, Bob Pressey, Wendy Proctor, Tony Smith, Chris Wilcox, 2011-2015, Partner Institution(s): AIMS, CDU, CSIRO, GA, Museum Victoria, JCU, UTas, UWA, Funding: National Environmental Research Program (NERP)

Space-based national wireless sensor network, University of South Australia, Jeff Kasparian, 2011-2015, Partner Institution(s): CSIRO, Defence Science and Technology Organisation, Australian Institute of Marine Science, Sage Automation, Funding: Department of Industry, Innovation, Science, Research and Tertiary Education

Grey nurse shark research and community engagement program, Reef Check Australia, Carley Bansemer, Mike Bennett, Partner Institution(s): Moreton Bay Regional Office of DERM, Uni of Q and Fauna & Flora International Australia (FFI)

Drivers of juvenile shark biodiversity and abundance in inshore ecosystems of the Great Barrier Reef, James Cook University, Australian Institute of Marine Science, Michelle Heupel, Colin Simpfendorfer, Andrew Tobin, 2011-2014, Funding: National Environmental Research Program (NERP)

Maximising the benefits of mobile predators to GBR ecosystems: the importance of movement, habitat and environment, Australian Institute of Marine Science, James Cook University, Michelle Heupel, Colin Simpfendorfer, 2011-2014, Funding: National Environmental Research Program (NERP)

Moreton Bay acoustic consortium, University of Queensland, Commonwealth Scientific Industrial Research Organisation, National Electronics and Computer Technology Centre, Commonwealth Scientific Industrial Research Organisation, Department of Environment and Heritage Protection, Helen Marsh, 2011-2014, Funding: Australian Marine Mammal Foundation

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

Coral sea connections, Australian Institute of Marine Science, A McKinnon, 2011-2014, Partner Institution(s): AIMS, CSIRO, Funding: Australian Institute of Marine Science

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

Shaping integrated monitoring for the Great Barrier Reef World Heritage Area, Paul Hedge, 2011-2015, Funding: National Environmental Research Program (NERP)

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

Resilience of Moreton Bay to climate change: links between nutrient inputs and plankton dynamics, Commonwealth Scientific Industrial Research Organisation, Anthony Richardson, 2012-2013, Partner Institution(s): Griffith University, Healthy Waterways Partnership, Queensland EPA, Funding: ARC Linkage Project

Biological oceanography, University of Western Australia, Australian Institute of Marine Science, Commonwealth Scientific Industrial Research Organisation, Miles Furnas, A McKinnon, Anya Waite, Jim Greenwood, 2012-2015, Partner Institution(s): AIMS, UWA, CSIRO, Funding: Western Australian Marine Science Institution, Australian Institute of Marine Science, CSIRO

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

Critical seabird foraging locations and trophic relationships for the Great Barrier Reef, James Cook University, Brad Congdon, 2012-2015, Partner Institution(s): UQ, AIMS, Funding: Australian Institute of Marine Science

Assessing threats to marine biodiversity of the Ningaloo world heritage area, Mathew Vanderklift, Russ Babcock, 2012-2013, Funding: Caring For Our Country

South East Queensland integrated terrestrial to oceans research, University of Queensland, Andy Steven, Stuart Phinn, 2012-2013, Funding: Australian National Data Service (ANDS)

eReefs - ReefTemp Next Generation, Bureau of Meteorology, Great Barrier Reef Marine Park Authority, Claire Spillman, Luke Garde, Oscar Alves, Funding: National Plan for Environmental Information (NPEI)

Ocean-shelf exchange with an emphasis on the roles of waves, tides, eddies and cross-shelf flows on carbon exchange, University of Tasmania, University of Western Australia, James Cook University, Roger Proctor, Charitha Pattiaratchi, Peter Ridd, 2012-2014, Funding: ANNIMS

Towards and integrated study of the Gladstone marine system, Commonwealth Scientific Industrial Research Organisation, Russ Babcock, R Pillans, 2012-2014, Partner Institution(s): CSIRO, APLNG, Funding: GISERA

eReefs - enhanced monitoring, Commonwealth Scientific Industrial Research Organisation, Andreas Schiller, 2012-2013, Partner Institution(s): BOM, GBRF, Funding: Great Barrier Reef Foundation, SIEF Fellowship

Additional observations in support of eReefs, Commonwealth Scientific Industrial Research Organisation, Simon Allen, Partner Institution(s): CSIRO, AIMS, IMOS, Funding: CSIRO, Australian Institute of Marine Science, Integrated Marine Observing System (IMOS)

Diffusion on the sea surface, James Cook University, Mal Heron, 2012-2014, Funding: ARC

eReefs, Commonwealth Scientific Industrial Research Organisation, Stuart Minchin, John Stevens, George Cresswell, 2012-2017, Partner Institution(s): CSIRO, AIMS, BoM, GBRMPA, GBR Foundation, DERM QLD

Utilising the Capricorn Bunker HF radar, James Cook University, Lucy Wyatt, 2012-2012

The IMOS plankton ecosystem assessment report, Commonwealth Scientific Industrial Research Organisation, Anthony Richardson, 2012-2013, Funding: CSIRO

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, James Cook University, Helen Marsh, Partner Institution(s): CSIRO, Funding: Australian Marine Mammal Centre

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

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

Future Reef MAP, Bronte Tilbrook, 2012-2015, Funding: Rio Tinto Alcan, Great Barrier Reef Foundation, CSIRO

eReefs - hydrodynamic modelling validation, BOM Queensland Regional Office, Arthur Simanjuntak, 2013-2014, Partner Institution(s): CSIRO, AIMS, Funding: Bureau of Meteorology

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

Climate-driven windblown dust and flood runoff can increase marine fungal diseases by fungal pathogens, University of Tasmania, Gustaaf Hallegraeff, Anthony Richardson, Funding: ARC Discovery Project

Physical oceanographic influences on Queensland reef fish and scallops, Queensland Department of Agriculture, Fisheries and Forestry, Tony Courtney, 2013-2015, Partner Institution(s): DAFF-BOM-CARM, Funding: Fisheries Research and Development Corporation

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

Enhanced monitoring in the GBR, Andy Steven, 2013-2016, Funding: Great Barrier Reef Foundation, CSIRO, SIEF Fellowship

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

Upwelling and shelfbreak processes: the role of local and remote forcing in driving GBR exchanges, Australian Institute of Marine Science, Jessica Benthuyesen, 2014-2016, Partner Institution(s): eReefs/IMOS, Funding: Australian Institute of Marine Science

Australian national shelf reanalysis, Emlyn Jones, Moninya Roughan, Tim Moltmann, Andreas Schiller, Peter May, 2014-2014, Funding: Integrated Marine Observing System (IMOS)

eReefs DA - phase 2, Commonwealth Scientific Industrial Research Organisation, Emlyn Jones, 2014-2015, Partner Institution(s): BOM, AIMS

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

Freshening events and hypersaline conditions in the central Great Barrier Reef, Australian Institute of Marine Science, Jessica Benthuisen

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

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

NESP project 2.3.1 - benthic light as ecologically-validated GBR-wide indicator for water quality: drivers, thresholds and cumulative risks, Australian Institute of Marine Science, University of Queensland, James Cook University, Katrina Fabricius, 2016-2018, Partner Institution(s): National Environmental Science Programme (NESP)

Understanding the physical oceanographic drivers of a mass coral bleaching event AIMS research project, Australian Institute of Marine Science, Craig Steinberg, 2016-2017

Satellite detection of marine pollution in the Great Barrier Reef, Commonwealth Scientific Industrial Research Organisation, David Blondeau-Patissier, 2016-2019, Funding: Advance Queensland Fellowship

NESP Tropical Water Quality Hub Project 3.2.1 – Deriving ecologically relevant load targets to meet desired ecosystem condition for the Great Barrier Reef: a case study for seagrass meadows in the Burdekin region, James Cook University, M Collier, Mark Baird, 2017-2019, Partner Institution(s): UQ, JCU, AIMS, Funding: National Environmental Science Program (NESP)

Reef 2050 Integrated monitoring and reporting program strategy - Data Management and Systems Actions 3 and 5: Principles, protocols and characteristics for data management, University of Tasmania, Roger Proctor, 2017-2017, Partner Institution(s): UTAS, AIMS, CSIRO, JCU

NESP TWQ - Project 3.3.3 - Defining the values of the ecological systems that influence the GBR and lie outside the marine park and world heritage area boundaries, James Cook University, Johanna Johnson, Funding: James Cook University, University of Queensland, Australian Institute of Marine Science, National Environmental Science Program (NESP)

Assessment of any impacts of scuba divers on critically endangered Grey Nurse sharks, Queensland Parks and Wildlife Service, Great Barrier Reef and Marine Parks, Carley Bansemer, 2017-2018, Partner Institution(s): QLD Government, UQ, CSIRO, Funding: Burnett Mary Regional Group from Landcare Australia, Sea Life Trust, The Edge Pledge

NESP Tropical Water Quality Hub, Project 3.2.5 – Testing and implementation of the water quality metric for the 2017 and 2018 reef report cards, Great Barrier Reef Marine Park Authority, Britta Schaffelke, Mark Baird, 2017-2017, Funding: Department of Energy and Environment, National Environmental Science Program (NESP), CSIRO, Australian Institute of Marine Science, Queensland Government - Office of the Great Barrier Reef

Scoping study to address poor water quality in the Whitsunday Region, Commonwealth Scientific Industrial Research Organisation, Mark Baird, Britta Schaffelke, 2017-2019, Partner Institution(s): AIMS, Funding: Department of Energy and Environment

AIMS Bleaching response 201, Australian Institute of Marine Science, Line Bay, Neal Cantin, Katrina Fabricius, Craig Steinberg, 2017-2018

Great Barrier Reef resilience mapping, Commonwealth Scientific Industrial Research Organisation, Mark Baird, Scott Condie, 2017-2018, Partner Institution(s): AIMS, UQ, Funding: Great Barrier Reef Foundation

Integrating biogeochemical modelling and ocean colour observations to quantify human impacts on water quality in the coastal ocean. CSIRO OCE postdoctoral fellowship, Commonwealth Scientific Industrial Research Organisation, Mark Baird, Emlyn Jones, Richard Matear, Thomas Schroeder, Funding: CSIRO

Building services for Australian marine data discovery, University of Tasmania, Roger Proctor, 2018-2018, Partner Institution(s): AAD, AIMS, CSIRO (O&A linkage + OBIS), CSIRO (ALA linkage + OBIS), Geoscience Australia, GreyBits Engineering, SIMS, TERN, Funding: Australian National Data Service (ANDS), National eResearch Collaboration Tools and Resources (NeCTAR), Research Data Cloud (RDS)

Develop/enhance the Marine Virtual Laboratory (MARVL) to provide the information infrastructure in support of the national ocean modelling system, University of Tasmania, Roger Proctor, 2018-2018, Partner Institution(s): BOM (Oceans), BOM (water), NCI, SARDI, TPAC, UWA, Funding: Australian National Data Service (ANDS), National eResearch Collaboration Tools and Resources (NeCTAR), Research Data Cloud (RDS)

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## Postgraduate Research Projects

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), 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), 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), 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), 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), 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), 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), 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

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), 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)

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

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

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

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), 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), 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

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), 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), 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

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), 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

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



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, 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

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

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

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

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

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

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

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), 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), 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), 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), Improving zooplankton realism in size spectrum models: implications for energy flow in food webs and fisheries production, University of Queensland; Ryan Heneghan, 2015-2018, Supervisor(s): Anthony Richardson, Hugh Possingham

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

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**Book null**

**Book Chapters**

Lough, JM, Bainbridge, S, Berkelmans, R, Steinberg, C 2010, Physical monitoring of the Great Barrier Reef to understand ecological responses to climate change, in Y You, A Henderson-Sellers (eds.), *Climate Alert: Climate Change Monitoring and Strategy*, Sydney University Press, Sydney, pp.66-110

Ganachaud, AS, Sen Gupta, AS, Orr, JC, Wijffels, S, Ridgway, K, Hemer, MA, Maes, C, Steinberg, C, Tribollet, AD, Qiu, B, Kruger, J 2011, Observed and expected changes to the tropical Pacific Ocean, in JD Bell, J Johnson, A Hobday (eds.), *Vulnerability of Tropical Pacific Fisheries and Aquaculture to Climate Change*

Heron, M, Pichel, WG, Heron, SF 2012, Radar Application, in JA Goodman, SJ Purkis, SR Phinn (eds.), *Coral Reef Remote Sensing: A Guide for Mapping, Monitoring and Management*, Springer

null

Heron, SF, Heron, M, Pichel, WG 2012, Thermal and radar Overview, in JA Goodman, SJ Purkis, SR Phinn (eds.), *Coral Reef Remote Sensing: A Guide for Mapping, Monitoring and Management*, Springer

Beaman, R, Bridge, T, Done, T, Webster, J, Williams, S, Pizarro, O 2012, Habitats and benthos at Hydrographers Passage, Great Barrier Reef, Australia, in P Harris, E Baker (eds.), *Seafloor Geomorphology as Benthic Habitat: GeoHab atlas of seafloor geomorphic features and benthic habitats*, Elsevier

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

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

Wyatt, LR 2015, The IMOS Ocean Radar Facility, ACORN, in Y Liu, H Kerkering, R Weisberg (eds.), *Coastal Ocean Observing Systems*, Elsevier, pp.143-158

**Book Chapters 8**

## Community White Papers / Technical Papers

Brainard, RE, Bainbridge, S, Brinkman, R, Eakin, CM, Field, M, Gattuso, J-P, Gledhill, D, Gramer, L, Hendee, J, Hoeke, RK, Holbrook, SJ, Hoegh-Guldberg, O, Lammers, M, Manzello, D, McManus, M, Moffitt, R, Monaco, M, Morgan, JA, Obura, D, Planes, S, Schmitt, RJ, Steinberg, C, Sweatman, H, Vetter, OJ, Wong, KB, Wilkinson, C; 2010, An International Network of Coral Reef Ecosystem Observing Systems (I-CREOS), *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2)*, Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.09

Jaffres, JBD, Heron, M, Banner, MML, Middleditch, A, Steinberg, C, Durrant, TH; 2010, Evaluation of ADCP wave, WaveWatch III and HF Radar data on the GBR, *Waves Research Science Symposium, 19-20 May 2010, Gold Coast, Queensland, Comments: CAWCR Technical Report No. 029*

Heron, M, Jaffres, JBD, Middleditch, A; 2010, Wave and wind parameters from HF ocean radar, *Proceedings of the Australian Wind Waves Research Science Symposium, 19-20 May 2010, Gold Coast, Queensland, Comments: CAWCR Technical Report No. 029*

SPICE, Community; 2011, Naming a Western boundary current from Australia to the Solomon Sea, *CLIVAR Newsletter Exchanges*

Dudgeon, C; 2017, From stripes to spots and other transformations in a most unusual shark

**Community White Papers/Technical Papers 5**

## Conference Proceedings

Heron, M 2007, Tsunami monitoring by HF ocean radar: time and space scales, Proceedings of Oceans 2007 IEEE, Aberdeen, UK, May, 2007, Aberdeen

Bainbridge, S, Rehbein, MA, Feather, G, Eggeling, D 2008, Sensor networks on the Great Barrier Reef - managing marine sensor data, Proceedings of the Environmental Information Management Conference 2009, Albuquerque

Bainbridge, S, Steinberg, C, Heron, M, Rigby, P 2009, The role of observation systems in coral reef monitoring and management, Proceedings of the American Geophysical Union 2009 Joint Assembly, Toronto, Toronto

Bainbridge, S 2010, The design of a novel time series client for ocean data, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney, Presenter: Scott Bainbridge

Jaffres, JBD, Heron, M, Middleditch, A, Steinberg, C 2010, Waves in the southern Great Barrier Reef, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

Bainbridge, S 2010, GBROOS - an ocean observing system for the Great Barrier Reef, Proceedings of the 11th International Coral Reef Symposium, 2008, Fort Lauderdale, Presenter: Scott Bainbridge

Bainbridge, S, Eggeling, D 2010, Smart sensors - a new paradigm for marine management: an example from the Great Barrier Reef, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

Brando, V, Keen, R, Daniel, P, Baumeister, A, Nethery, M, Baumeister, H, Hawdon, A, Swan, G, Mitchell, R, Campbell, S, Schroeder, T, Park, Y-J, Edwards, R, Steven, A, Allen, S, Clementson, L, Dekker, AG 2010, The Lucinda Jetty Coastal Observatory's role in satellite ocean colour calibration and validation for Great Barrier Reef coastal waters, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

Mantovanelli, A, Heron, M, Prytz, A 2010, The use of HF radar surface currents for computing Lagrangian trajectories: benefits and issues, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

Bainbridge, S, Steinberg, C, Heron, M, Furnas, M 2010, Integrating observation systems: an example from the Great Barrier Reef, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

Bainbridge, S 2011, A services based architecture for achieving interoperability of environmental observational data., Proceedings of the Environmental Information Management Conference 2011, Santa Barbara, Presenter: Scott Bainbridge

Bainbridge, S, Page, G, Jaroensutasinee, M, Jaroensutasinee, K 2011, Towards a services based architecture for real time marine observing data, Proceedings of Oceans 2011 MTS/IEEE, Kona, USA, September, 2011, Kona

Heron, M, Prytz, A, Steinberg, C 2011, High resolution ocean radar observations in ports and harbours, Proceedings of Coasts and Ports 2011: 20th Australasian Coastal and Ocean Engineering Conference and the 13th Australasian Port and Harbour Conference, Perth

Mantovanelli, A, Heron, M, Prytz, A, Steinberg, C, Wisdom, D 2011, Validation of radar-based Lagrangian trajectories against surface-drogued drifters in the Coral Sea, Australia, Proceedings of Oceans 2011 MTS/IEEE, Kona, USA, September, 2011, Kona

Heron, M, Mantovanelli, A, DiMassa, D, Heron, SF 2012, Coastal ocean radars applied to coral reef science and management, Proceedings of the 12 International Coral Reef Symposium, Cairns

Heron, M 2012, VHF ocean radar for surface currents appraisal at ocean power sites, Proceedings of the 10th European Wave and Tidal Energy Conference, Southampton

Mantovanelli, A, Heron, M 2012, Radar-based tracking of pollutants and larvae in the Coral Sea, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Alessandra Mantovanelli

Heron, M, Savidge, D, Blanton, JO 2012, VHF radar measurements of flow in a salt marsh creek, Proceedings of Oceans 2012 MTS/IEEE, Hampton Roads, USA, October, 2012, Hampton Roads

Woolsey, E, Bainbridge, S, Kingsford, MJ, Byrne, M 2012, Impacts of Cyclone Hamish at One Tree Reef, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Erika Woolsey

Skirving, WJ, Dove, SG, Hoegh-Guldberg, O, Berkelmans, R, Bainbridge, S, Wachenfeld, D, Iglesias-Prieto, R, Eakin, M, Enriquez, S, Mason, R 2012, Next generation satellite tools: understanding environmental stress on coral reefs, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: William Skirving

Burgess, T, Hendee, J, Heron, SF, Bainbridge, S, Gramer, L 2012, SeaDroid: low-cost, real-time water temperature logging, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Tim Burgess

Hendee, J, Jankulak, M, Shoemaker, M, Gramer, L, Burgess, T, Heron, M, Amornthammarong, N, Bainbridge, S, Skirving, WJ 2012, Wireless architecture for coral reef environmental monitoring, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Jim Hendee

Jaroensutasinee, M, Jaroensutasinee, K, Bainbridge, S, Fountain, T, Chumkiew, S, Noonsang, P, Kuhapong, U, Vannarat, S, Poyai, A, Nekrasov, M 2012, Sensor networks applications for reefs at Racha Island, Thailand, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Mullica Jaroensutasinee

Jaroensutasinee, K, Jaroensutasinee, M, Bainbridge, S, Fountain, T, Holbrook, SJ, Nekrasov, M 2012, CREON: integrating disparate sources of remote coral reef sensor data, Proceedings of the 12th International Coral Reef Symposium, Cairns, Presenter: Krisanade Jaroensutasinee

Heupel, M, Webber, D 2013, Trends in acoustic tracking: where are the fish going and how will we follow them? , Proceedings of Advances in Fish Tagging and Marking Technology, Auckland, Presenter: Michelle Heupel

Steinberg, C, Brinkman, R, Rigby, P, Tonin, H, Herzfeld, M, Hughes, D 2013, Q-IMOS monitoring and eReefs modelling: a partnership to inform our understanding of the tropical North Queensland coast, Proceedings of Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, Sydney, Presenter: Paul Rigby

Wyatt, LR 2013, HF Radar: applications in coastal monitoring, planning and engineering, Proceedings of Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, Sydney, Presenter: Lucy Wyatt

Page, G, Bainbridge, S, Gardner, S, Hahn, S 2014, Development of a coral reef observing system using 802.11 wireless at Heron Island, Great Barrier Reef, Proceedings of Oceans 2014 MTS/IEEE, Taipei, Taiwan, April, 2014, Taipei, Presenter: Geoff Page

Page, G, Bainbridge, S, Gardner, S, Hahn, S 2014, Implementation of low-cost, long-range microwave links on the Great Barrier Reef using evaporation duct transmission, Proceedings of Oceans 2014 MTS/IEEE, Taipei, Taiwan, April, 2014, Taipei, Presenter: Geoff Page

Feng, M, Wijffels, S 2017, Monitoring variability and changes of the Indonesian Throughflow, Proceedings of the EGU General Assembly Conference 2017, Vienna, Presenter: Ming Feng

**Conference Proceedings 30**

## In Press

**In Press null**

## Journals

Bathgate, J, Heron, M, Prytz, A 2007, A method of swell wave parameter extraction from HF ocean surface radar spectra, IEEE Journal of Oceanic Engineering, vol. 31, no. 4, pp. 812-817, doi:10.1109/JOE.2006.886237

Brinkman, R, Steinberg, C, Bird, J 2008, Physical oceanography and the corals of Scott Reef - patterns of disturbance and dynamics of recovery, *EOS Transactions*, vol. 89, no. 23

Heron, M, Prytz, A, Heron, SF, Hezel, T, Schlick, T, Greenslade, DJM, Schulz, E, Skirving, WJ 2008, Tsunami observations by coastal ocean radar, *International Journal of Remote Sensing*, vol. 29, no. 21, pp. 6347-6359, doi:10.1080/01431160802175371

Webster, J, Beaman, R, Bridge, T, Davies, P, Bryne, M, Williams, S, Manning, P, Pizarro, O, Thornborough, K, Woolsey, E 2008, From corals to canyons: exploring the Great Barrier Reef margin, *EOS Transactions*, vol. 89, no. 24, pp. 217-218, doi:10.1029/2008EO240002

Mao, Y, Heron, M 2008, The influence of fetch on the response of surface currents to wind studied by HF ocean surface radar, *Journal of Physical Oceanography*, vol. 38, pp. 1107-1121, doi:10.1175/2007JPO3709.1

Maynard, J, Turner, P, Anthony, KR, Baird, A, Berkelmans, R, Eakin, CM, Johnson, J, Marshall, P, Packer, G, Rea, A, Willis, B 2008, An interactive monitoring system for coral bleaching using high-resolution SST and improved stress predictors, *Geophysical Research Letters*, vol. 35, doi:10.1029/2007GL032175

Steinberg, C, McLean, CM, McAllister, F, Choukroun, S, Brinkman, GW 2008, The development of a Great Barrier Reef ocean observing system to monitor the Western Boundary Currents of the Coral Sea and impacts on the Great Barrier Reef, *EOS Transactions*, vol. 89, no. 23

Steinberg, C, Andrefouet, S, Brinkman, R, Choukroun, S, Heron, SF, Herzfeld, M, Skirving, WJ, Weeks, S 2008, The physical oceanography of Heron Island, Great Barrier Reef, *EOS Transactions*, vol. 89, no. 23, Abstract OS52A-04

Schiller, A, Ridgway, K, Steinberg, C, Oke, PR 2009, Dynamics of three anomalous SST events in the Coral Sea, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL036997

Steinberg, C, McAllister, F, McLean, CM, Brinkman, GW, Pitcher, C, Luetchrford, J, Rigby, P 2009, The Great Barrier Reef Ocean Observing System mooring array: monitoring the western boundary currents of the Coral Sea and impacts on the Great Barrier Reef, *EOS Transactions*, vol. 90, no. 22, OS32A-06

Bridge, T, Done, T, Beaman, R, Friedman, A, Williams, S, Pizarro, O, Webster, J 2010, Topography, substratum and benthic macrofaunal relationships on a tropical mesophotic shelf margin, *Great Barrier Reef, Australia, Coral Reefs*, vol. 30, no. 1, pp. 143-153, doi:10.1007/s00338-010-0677-3

Weeks, S, Bakun, A, Steinberg, C, Brinkman, R, Hoegh-Guldberg, O 2010, The Capricorn Eddy: a prominent driver of the ecology and future of the southern Great Barrier Reef, *Coral Reefs*, vol. 29, no. 4, pp. 975-985, doi:10.1007/s00338-010-644-z

Katsumata, K, Wijffels, S, Steinberg, C, Brinkman, R 2010, Variability of the semidiurnal tides observed on the Timor Shelf, *Journal of Geophysical Research - Oceans*, vol. 115, doi:10.1029/2009JC006071

Berkelmans, R, Weeks, S, Steinberg, C 2010, Upwelling linked to warm summers and bleaching on the Great Barrier Reef, *Limnology and Oceanography*, vol. 55, no. 6, pp. 2634-2644, doi:10.4319/10.2010.55.6.2634.

Williams, S, Pizarro, O, Webster, J, Beaman, R, Mahon, I, Johnson-Robertson, M, Bridge, T 2010, AUV-assisted surveying of drowned reefs on the shelf edge of the Great Barrier Reef, Australia, *Journal of Field Robotics*, vol. 27, no. 5, pp. 675-697, doi:10.1002/106.20356

Bainbridge, S, Steinberg, C, Heron, M 2010, Integrating observations: an example from the Great Barrier Reef, lessons from the reef on why integration matters and why achieving integration is harder than it looks, *Sea Technology*, vol. 51, no. 8, pp. 33-38

Heron, SF, Steinberg, C, Heron, M, Mantovanelli, A, Jaffres, JBD, Skirving, WJ, McAllister, F, Bainbridge, S 2010, Advancing ocean monitoring near coral reefs, *EOS American Geophysical Union*, vol. 91, no. 41, doi:doi:10.1029/2010EO410001

Bainbridge, S, Eggeling, D, Page, G 2011, Lessons from the field - Two years of deploying operational wireless sensor networks on the Great Barrier Reef, *Sensors*, vol. 11, no. 7, pp. 6842-6855, doi:10.3390/s110706842

Woolsey, E, Bainbridge, S, Kingsford, MJ, Byrne, M 2011, Impacts of cyclone Hamish at One Tree Reef: integrating environmental and benthic habitat data, *Marine Biology*, vol. 159, no. 4, pp. 793-803, doi:10.1007/s00227-011-1855-8

- Knip, D, Heupel, M, Simpfendorfer, C, Tobin, A, Maloney, J 2011, Ontogenetic shifts in movement and habitat use of juvenile pigeye sharks (*Carcharhinus amboinensis*) in a tropical nearshore region, *Marine Ecology Progress Series*, vol. 425, pp. 233-246, doi:10.3354/meps09006
- Knip, D, Heupel, M, Simpfendorfer, C, Tobin, A, Maloney, J 2011, Wet-season effects on the distribution of juvenile pigeye sharks, *Carcharhinus amboinensis*, in tropical nearshore waters, *Marine and Freshwater Research*, vol. 68, no. 6, pp. 658-667
- Bridge, T, Done, T, Friedman, A, Beaman, R, Williams, S, Pizarro, O, Webster, J 2011, Variability in mesophotic coral reef communities along the Great Barrier Reef, Australia, *Marine Ecology Progress Series*, vol. 428, pp. 63-75, doi:10.3354/meps09046
- Hollier, W, Rau, G, Dicks, A, Bainbridge, S 2011, Reef climate adaptation research and technology, *International Journal of Climate Change: Impacts and Responses*, vol. 2, no. 4, pp. 127-142
- Knip, D, Heupel, M, Simpfendorfer, C 2012, Habitat use and spatial segregation of adult spottail sharks *Carcharhinus sorrah* in tropical nearshore waters, *Journal of Fish Biology*, vol. 80, no. 4, pp. 767-784, doi:10.1111/j.1095-8649.2012.03223.x
- Mantovanelli, A, Heron, M, Steinberg, C, Heron, SF 2012, Relative dispersion of surface drifters in a barrier reef region, *Journal of Geophysical Research - Oceans*, vol. 117, no. C11016, doi:10.1029/2012JC008106
- Williams, S, Pizarro, O, Jakuba, M, Johnson, C, Barrett, N, Babcock, R, Kendrick, G, Steinberg, C, Heyward, A, Doherty, P, Mahon, I, Johnson-Robertson, M, Steinberg, D, Friedman, A 2012, Monitoring of benthic reference sites: using an Autonomous Underwater Vehicle, *IEEE Robotics & Automation Magazine*, vol. 19, no. 1, pp. 73-84, doi:10.1109/MRA.2011.2181772
- Welsh, JQ, Fox, R, Webber, D, Bellwood, DR 2012, Performance of remote acoustic receivers within a coral reef habitat: implications for array design, *Coral Reefs*, vol. 31, no. 3, pp. 693-702, doi:10.1007/s00338-012-0892-1
- Bridge, T, Steinberg, D, Scott, A 2012, Abundance and diversity of anemonefishes and their host sea anemones at two mesophotic sites on the Great Barrier Reef, Australia, *Coral Reefs*, vol. 31, no. 4, pp. 1057-1062, doi:10.1007/s00338-012-0916.x
- Knip, D, Heupel, M, Simpfendorfer, C 2012, To roam or to home: site fidelity in a tropical coastal shark, *Marine Biology*, vol. 159, no. 8, pp. 1647-1658, doi:10.1007/s00227-012-1950-5
- Knip, D, Heupel, M, Simpfendorfer, C 2012, Mortality rates for two shark species occupying a shared coastal environment, *Fisheries Research*, vol. 125, pp. 184-189, doi:10.1016/j.fisheries.2012.02.023
- Knip, D, Heupel, M, Simpfendorfer, C 2012, Evaluating marine protected areas for the conservation of tropical coastal sharks, *Biological Conservation*, vol. 148, no. 1, pp. 200-209, doi:10.1016/j.biocon.2012.01.008
- Oke, PR, Sakov, P 2012, Assessing the footprint of a regional ocean observing system., *Journal of Marine Systems*, vol. 105, pp. 30-51, doi:10.1016/j.jmarsys.2012.05
- Bridge, T, Beaman, R, Done, T, Webster, J 2012, Predicting the location and spatial extent of submerged coral reef habitat in the Great Barrier Reef world heritage area, Australia, *PLoS One*, vol. 7, no. 10, doi:10.1371/journal.pone.0048203
- Heron, M, Atwater, DP 2012, Temporal and spatial resolution of HF Ocean Radars, *Ocean Science*, vol. 48, no. 1, pp. 99-103, doi:10.1007/s12601-013-0008-z
- Chin, A, Tobin, A, Simpfendorfer, C, Heupel, M 2012, Reef sharks and inshore habitats: patterns of occurrence and implications for vulnerability, *Marine Ecology Progress Series*, vol. 460, pp. 115-125, doi:10.3354/meps09722
- Weeks, S, Steinberg, C, Congdon, BC 2013, Oceanography and seabird foraging: within-season impacts of increasing sea surface temperature on the Great Barrier Reef, *Marine Ecology Progress Series*, vol. 490, pp. 247-254, doi:10.3354/meps10398
- Lukoschek, V, Cross, P, Torda, G, Zimmerman, R, Willis, B 2013, The importance of coral larval recruitment for the recovery of reefs impacted by Cyclone Yasi in the Central Great Barrier Reef, *PLoS One*, vol. 8, e65363, doi:10.1371/journal.pone.0065363

- Chin, A, Heupel, M, Simpfendorfer, C, Tobin, A 2013, Ontogenetic movements of juvenile blacktip reef sharks: evidence of dispersal and connectivity between coastal habitats and coral reefs., *Marine and Freshwater Research*, vol. 23, pp. 468-474, doi:10.1002/aqc.2349
- Chin, A, Tobin, A, Heupel, M, Simpfendorfer, C 2013, Population structure and residency patterns of the blacktip reef shark *Carcharhinus melanopterus* in turbid coastal environments, *Journal of Fish Biology*, vol. 82, pp. 1192-1210, doi:10.1111/jfb.12057
- Mao, Y, Luick, J 2013, Circulation in the Southern Great Barrier Reef studied through an integration of multiple remote sensing and in-situ measurements, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 1621-1643, doi:10.1002/2013JC009397
- Udyawer, V, Read, M, Hamman, M, Simpfendorfer, C, Heupel, M 2013, First record of sea snake (*Hydrophis elegans*, Hydrophiinae) entrapped in marine debris, *Marine Pollution Bulletin*, vol. 73, pp. 336-338, doi:10.1016/j.marpolbul.2013.06.023
- Udyawer, V, Simpfendorfer, C, Chin, A, Knip, D, Heupel, M 2013, Variable response of coastal sharks to severe tropical storms: environmental cues and changes in space use, *Marine Ecology Progress Series*, vol. 480, pp. 171-183, doi:10.3354/meps10244
- White, J, Heupel, M, Simpfendorfer, C, Tobin, A 2013, Incidence and availability of shark-like batoids of conservation concern to a gill-net fishery within the Great Barrier Reef Marine Park, *Endangered Species Research*, vol. 19, pp. 277-284
- Leahy, SM, Kingsford, MJ, Steinberg, C 2013, Do clouds save the Great Barrier Reef? Satellite imagery elucidates the cloud-SST relationship at the local scale , *PLoS One*, vol. 8, no. 7, doi:10.1371/journal.pone.0070400
- Chin, A, Simpfendorfer, C, Tobin, A, Heupel, M 2013, Validated age, growth and reproductive biology of *Carcharhinus melanopterus*, a widely distributed and exploited reef shark, *Marine and Freshwater Research*, vol. 64, no. 10, pp. 965-975, doi:10.1071/MF13017
- Currey, L, Heupel, M, Simpfendorfer, C, Clark, TD 2013, Blood lactate loads of redthroat emperor *Lethrinus miniatus* associated with angling stress and exhaustive exercise, *Journal of Fish Biology*, vol. 83, no. 5, pp. 1401-1406, doi:10.1111/jfb.12216
- Spillman, CM, Alves, O, Hudson, DA 2013, Predicting thermal stress for coral bleaching in the Great Barrier Reef using a coupled ocean-atmosphere seasonal forecast model, *International Journal of Climatology*, vol. 33, no. 4, pp. 1001-1014, doi:10.1002/joc.3486
- Fujii, S, Heron, M, Kim, K, Lai, J, Lee, S, Wu, X, Wu, X, Wyatt, LR, Yang, W 2013, An overview of developments and applications of oceanographic Radar Networks in Asia and Oceania Countries, *Ocean Science*, vol. 48, no. 1, pp. 69-97, doi:10.1007/s12601-013-0007-0
- Woolsey, E, Byrne, M, Baird, A 2013, The effects of temperature on embryonic development and larval survival in two scleractinian corals, *Marine Ecology Progress Series*, vol. 493, pp. 179-184, doi:10.3354/meps10499
- Munroe, S, Simpfendorfer, C, Heupel, M 2014, Habitat and space use of an abundant nearshore shark, *Rhizoprionodon taylori*, *Marine and Freshwater Research*, vol. 65, no. 11, pp. 959-968, doi:10.1071/MF13272
- Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1
- White, J, Simpfendorfer, C, Tobin, A, Heupel, M 2014, Spatial ecology of shark-like batoids in a large coastal embayment, *Environmental Biology of Fishes*, vol. 97, no. 7, pp. 773-786, doi:10.1007/s10641-013-0178-7
- Heupel, M, Simpfendorfer, C 2014, Importance of environmental and biological drivers in the presence and space use of a reef-associated shark, *Marine Ecology Progress Series*, vol. 496, pp. 47-57, doi:10.3354/meps10529
- Werry, JM, Planes, S, Berumen, ML, Lee, K, Braun, CD, Clua, E 2014, Reef-fidelity and migration of tiger sharks, *Galeocerdo cuvier*, across the Coral Sea , *PLoS One*, vol. 9, no. 1, e83249, doi:10.1371/journal.pone.0083249
- Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2014, Sedentary or mobile? Variability in space and depth use of an exploited coral reef fish, *Marine Biology*, vol. 161, no. 9, pp. 2155-2166, doi:10.1007/s00227-014-2497-4

- Garde, L, Spillman, CM, Heron, SF, Beeden, R 2014, ReefTemp Next Generation: a new operational system for monitoring reef thermal stress, *Journal of Operational Oceanography*, vol. 7, no. 1, pp. 21-33
- Sandery, PA, O'Kane, TJ 2014, Coupled initialization in an ocean-atmosphere tropical cyclone prediction system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 678, pp. 82-95, doi:10.1002/qj.2117
- Hallegraeff, GM, Coman, F, Davies, C, McLeod, DJ, Slotwinski, A, Whittock, L, Richardson, A 2014, Australian dust storm associated with extensive *Aspergillus sydowii* fungal "bloom" in coastal waters, *Applied and Environmental Microbiology*, vol. 80, no. 11, pp. 3315-3320, doi:10.1128/AEM.04118-13
- White, N, Haigh, ID, Church, JA, Koen, T, Watson, C, Pritchard, T, Watson, PJ, Burgette, R, McInnes, KL, You, Z-J, Zhang, X, Tregoning, P 2014, Australian sea levels-trends, regional variability and influencing factors, *Earth-Science Reviews*, vol. 136, pp. 155-174, doi:10.1016/j.earscirev.2014.05.011
- Lynch, T, Morello, E, Evans, K, Richardson, A, Steinberg, C, Roughan, M, Thompson, P, Middleton, J, Feng, M, Brando, V, Tilbrook, B, Ridgway, K, Allen, S, Doherty, P, Hill, K, Moltmann, T 2014, IMOS National Reference Stations: a continental scaled physical, chemical and biological coastal observing system, *PLoS One*, vol. 9, no. 12, e113652, doi:10.1371/journal.pone.0113652
- Rigby, P, Steinberg, C, Williams, DK, Brinkman, R, Tonin, H, Hughes, D 2014, Real-time marine observing systems: challenges, benefits and opportunities in Australian coastal waters, *Australian Journal of Civil Engineering*, vol. 12, no. 1, pp. 83-99
- Wyatt, LR 2014, High frequency radar applications in coastal monitoring, planning and engineering, *Australian Journal of Civil Engineering*, vol. 12, no. 1, pp. 1-15
- Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012
- Phinn, SR, Tilbrook, B, Steven, A, Shaw, E 2014, Comparability of slack water and Lagrangian flow respirometry methods for community metabolic measurements, *PLoS One*, vol. 9, e112161, doi:10.1371/journal.pone.0112161
- Woolsey, E, Keith, S, Byrne, M, Schmidt-Roach, S, Baird, A 2014, Latitudinal variation in thermal tolerance thresholds of early life stages of corals, *Coral Reefs*, vol. 34, pp. 471-478, doi:10.1007/s00338-014-1253-2
- Ganachaud, AS, Cravette, S, Melet, A, Schiller, A, Holbrook, N, Sloyan, B, et. al. 2014, The southwest Pacific Ocean circulation and climate experiment (SPICE), *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 7660-7686, doi:10.1002/2013JC009678
- null
- Davies, C, Armstrong, A, Baird, ME, Coman, F, Gaughan, D, Greenwood, J, Gusmao, LFM, et. al. 2014, Over 75 years of zooplankton data in Australia, *Ecology*, vol. 95, no. 11, pp. 3229-3229, doi:10.1890/14-0697.1
- Capelle, V, et. al. 2014, Evaluation of IASI-derived dust aerosol characteristics over the tropical belt, *Climatic Change*, vol. 14, pp. 9343-9362, doi:10.5194/acp-14-9343-2014
- Bewley, M, Friedman, A, Ferrari, R, Hill, N, Hovey, RK, Barrett, N, Pizarro, O, Figueria, W, Meyer, A, Babcock, R, Bellchambers, LM, Byrne, M, Williams, S 2015, Australian sea-floor survey data, with images and expert annotations, *Scientific Data*, vol. 2, 150057, doi:10.1038/sdata.2015.57
- Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2015, Assessing environmental correlates of fish movement on a coral reef, *Coral Reefs*, vol. 34, no. 4, pp. 1267-1277, doi:10.1007/s00338-015-1318-7
- Munroe, S, Heupel, M, Simpfendorfer, C 2015, Nearshore movement ecology of a medium-bodied shark the creek whaler, *Animal Biotelemetry*, vol. 3, doi:10.1189/s40317-015-0026-y
- Ledee, E, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Movements and space use of giant trevally in coral reef habitats and the importance of environmental drivers, *Animal Biotelemetry*, vol. 3, no. 1, pp. 1-14, doi:10.1186/s40317-015-0024-0



- Ledee, E, Heupel, M, Tobin, A, Knip, D, Simpfendorfer, C 2015, A comparison between traditional kernel-based methods and network analysis: an example from two nearshore shark species, *Animal Behaviour*, vol. 103, pp. 17-28
- Munroe, S, Heupel, M, Fisk, AT, Simpfendorfer, C 2015, Regional movement patterns of a small-bodied shark revealed by stable-isotope analysis, *Journal of Fish Biology*, vol. 86, no. 5, pp. 1567-1586
- Munroe, S, Heupel, M, Fisk, AT, Simpfendorfer, C 2015, Geographic and temporal variation in the trophic ecology of a small bodied-shark: evidence of resilience to environmental change, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 72, no. 3, pp. 343-351, doi:10.1139/cjfas-2014-0230
- Davy, L, Simpfendorfer, C, Heupel, M 2015, Movement patterns and habitat use of juvenile mangrove whiprays *Himantura granulata*, *Marine and Freshwater Research*, vol. 66, no. 6, pp. 481-492, doi:10.1071/MF14028
- Zeh, D, Heupel, M, Limpus, C, Hamman, M, et, al. 2015, Is acoustic tracking appropriate for air-breathing marine animals? Dugongs as a case study, *Journal of Experimental Marine Biology and Ecology*, vol. 464, pp. 1-10, doi:10.1016/j.jembe.2014.11.013
- Metcalf, SJ, van Putten, I, Frusher, SD, et, al. 2015, Measuring the vulnerability of marine social-ecological systems: a prerequisite for the identification of climate change adaptations, *Ecology and Society*, vol. 20, no. 2, 35, doi:10.5751/ES-07509-200235
- Heupel, M, Simpfendorfer, C 2015, Long-term movement patterns of a coral reef predator, *Coral Reefs*, vol. 34, pp. 679-691, doi:10.1007/s00338-015-1272-4
- Roberts, TE, Moloney, J, Sweatman, H, Bridge, T 2015, Benthic community composition on submerged reefs in the central Great Barrier Reef, *Coral Reefs*, vol. 34, no. 2, pp. 569-580, doi:10.1007/s00338-015-1261-7
- Shaw, E, Phinn, SR, Tilbrook, B, Steven, A 2015, Natural in situ relationships suggest coral reef calcium carbonate production will decline with ocean acidification, *Limnology and Oceanography*, vol. 60, no. 3, pp. 777-788, doi:10.1002/lno.10048
- Critchell, K, Grech, A, Schlaefel, J, Andutta, FP, et, al. 2015, Modelling the fate of marine debris along a complex shoreline: lessons from the Great Barrier Reef, *Estuarine, Coastal and Shelf Science*, vol. 167, no. Part B, pp. 414-426, doi:10.1016/j.ecss.2015.10.018
- Watson, C, White, N, Church, JA, King, M, Burgette, R, Legresy, B 2015, Unabated global mean sea-level rise over the satellite altimeter era, *Nature Climate Change*, vol. 5, pp. 565-568, doi:10.1038/NCLIMATE2635
- Marzinelli, EM, Williams, S, Babcock, R, Barrett, N, Johnson, C, Jordan, A, Kendrick, G, Pizarro, O, Smale, DA, Steinberg, P 2015, Large-scale geographic variation in distribution and abundance of Australian deep-water kelp forests, *PLoS One*, vol. 10, no. 2, doi:10.1371/journal.pone.0118390
- Nechad, B, Ruddick, K, Schroeder, T, et, al. 2015, The CoastColour Round Robin datasets: a database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters, *Earth System Science Data*, vol. 8, pp. 173-258, doi:105194/essdd-8-173-2015
- Oke, PR, Larnicol, G, Jones, EM, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080
- Kopf, A, van Ruth, P, Malthouse, P 2015, The ocean sampling day consortium, *GigaScience*, vol. 4, no. 27, pp. 1-5, doi:10.1186/s13742-015-0066-5
- Matley, J, Heupel, M, Simpfendorfer, C 2015, Depth and space use of leopard coral grouper *Plectropomus leopardus* using passive acoustic tracking, *Marine Ecology Progress Series*, vol. 521, pp. 201-216, doi:10.3354/meps11122
- Heupel, M, Simpfendorfer, C, Espinoza, M, Smoothey, A, Tobin, A, Peddemors, V 2015, Conservation challenges of sharks with continental scale migrations, *Frontiers in Marine Science*, vol. 2, no. 12, pp. 1-7, doi:10.3389/fmars.2015.00012
- Thompson, P, Bonham, P, Thomson, P, Rochester, W, Doblin, MA, Waite, A, Richardson, A, Rousseaux, C 2015, Climate variability drives plankton community composition changes: the 2010 -2011 El Nino to La Nina transition around Australia, *Journal of Plankton Research*, vol. 37, no. 5, pp. 966-985, doi:10.1093/plankt/fbv069

- Mao, Y, Ridd, P 2015, Sea surface temperature as a tracer to estimate cross-shelf turbulent diffusivity and flushing time in the Great Barrier Reef lagoon, *Journal of Geophysical Research - Oceans*, vol. 120, no. 6, pp. 4487-4502, doi:10.1002/2015JC010745
- Schiller, A, Herzfeld, M, Brinkman, GW, Rizwi, F, Andrewartha, J 2015, Cross-shelf exchanges between the Coral Sea and the Great Barrier Reef lagoon determined from a regional-scale numerical model, *Continental Shelf Research*, vol. 109, pp. 150-163, doi:10.1016/j.csr.2015.09.011
- Weeks, S, Magno-Canto, MM, Jaine, F, Brodie, J, Richardson, A 2015, Unique sequence of events triggers manta ray feeding frenzy in the Southern Great Barrier Reef, *Remote Sensing*, vol. 7, no. 3, pp. 3138-3152, doi:10.3390/rs70303138
- Currey, L, Heupel, M, Simpfendorfer, C, Williams, A 2015, Assessing fine-scale diel movement patterns of an exploited coral reef fish, *Animal Biotelemetry*, vol. 3, no. 41, doi:10.1186/s40317-015-0072-5
- Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Movement patterns of silvertip sharks (*Carcharhinus albimarginatus*) on coral reefs, *Coral Reefs*, vol. 34, no. 3, pp. 807-821, doi:10.1007/s00338-015-1312-0
- Lenton, A, Tilbrook, B, Matear, R, Sasse, T, Nojiri, Y 2015, Historical reconstruction of ocean acidification in the Australian region, *Biogeosciences*, vol. 13, pp. 1753-1765, doi:10.5194/bg-13-1753-2016
- Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M 2015, The Marine Virtual Laboratory: enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 8, pp. 9741-9768, doi:10.5194/gmdd-8-9741-2015
- Espinoza, M, Ledee, E, Simpfendorfer, C, Tobin, A, Heupel, M 2015, Contrasting movements and connectivity of reef-associated sharks using acoustic telemetry: implications for management, *Ecological Applications*, vol. 25, no. 8, pp. 2101-2118, doi:10.1890/14-2293.1
- Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2015, Residency patterns and movements of grey reef sharks (*Carcharhinus amblyrhynchos*) in semi-isolated coral reef habitats, *Marine Biology*, vol. 162, no. 2, pp. 343-358, doi:10.1007/s00227-014-2572-x
- Matley, J, Heupel, M, Fisk, AT, Simpfendorfer, C, Tobin, A 2016, Measuring niche overlap between co-occurring *Plectropomus* spp. using acoustic telemetry and stable isotopes, *Marine and Freshwater Research*, vol. 68, no. 8, pp. 1468-1478, doi:10.1071/MF16120
- Chin, A, Tobin, A, Heupel, M, Simpfendorfer, C 2016, Population organisation in reef sharks: new variations in coastal habitat use by mobile marine predators, *Marine Ecology Progress Series*, vol. 544, pp. 197-211, doi:10.3354/meps11545
- Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C 2016, Evidence of partial migration in a large coastal predator: opportunistic foraging and reproduction as key drivers?, *PLoS One*, vol. 11, no. 2, e0147608, doi:10.1371/journal.pone.0147608
- Mahjabin, T, Pattiaratchi, C, Hetzel, Y 2016, Factors influencing the occurrence of dense shelf water cascades in Australia, *Journal of Coastal Research*, vol. 75, pp. 527-531, doi:10.2112/SI75-106.1
- Munroe, S, Simpfendorfer, C, Heupel, M 2016, Variation in blacktip shark movement patterns in a tropical coastal bay, *Environmental Biology of Fishes*, vol. 99, pp. 377-389, doi:10.1007/s10641-016-0480-2
- Ledee, E, Heupel, M, Tobin, A, Mapleston, A, Simpfendorfer, C 2016, Movement patterns of two carangid species in inshore habitats characterised using network analysis, *Marine Ecology Progress Series*, vol. 553, pp. 219-232, doi:10.3354/meps11777
- Bennett, M, Coman, F, Townsend, K, Couturier, L, Jaine, F, Richardson, A 2016, A historical and contemporary consideration of the diet of the reef manta ray (*Manta alfredi*) from the Great Barrier Reef, Australia, *Marine and Freshwater Research*, vol. 68, no. 5, pp. 993-997, doi:http://dx.doi.org/10.1071/MF16046
- Udyawer, V, Simpfendorfer, C, Read, M, Hamman, M, Heupel, M 2016, Exploring habitat selection in sea snakes using passive acoustic monitoring and Bayesian hierarchical models, *Marine Ecology Progress Series*, vol. 546, pp. 249-262, doi:10.3354/meps11632

- Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, vol. 25, no. 10, pp. 1264-1277, doi:10.1111/geb.12485
- Mongin, M, Baird, ME, Tilbrook, B, Matear, R, Lenton, A, Herzfeld, M, Wild-Allen, K, Skerratt, J, Margvelashvili, N, Robson, B, Duarte, CM, Gustafsson, M, Ralph, P, Steven, A 2016, The exposure of the Great Barrier Reef to ocean acidification, *Nature Communications*, vol. 7, doi:10.1038/ncomms10732
- Perkins, N, Foster, SD, Hill, N, Barrett, N 2016, Image subsampling and point scoring approaches for large-scale marine benthic monitoring programs, *Estuarine, Coastal and Shelf Science*, vol. 176, pp. 36-46, doi:10.1016/j.ecss.2016.04.005
- Brando, V, Lovell, J, King, E, Scott, R, Schroeder, T 2016, The potential of autonomous ship-borne hyperspectral radiometers for the validation of ocean color radiometry data, *Remote Sensing*, vol. 8, no. 150, doi:10.3390/rs8020150
- Oke, PR, Proctor, R, Rosebrock, U, Brinkman, R, Cahill, M, Coghlan, I, Divakaran, P, Freeman, J, Pattiaratchi, C, Roughan, M, Sandery, PA, Schaeffer, A, Wijeratne, S 2016, The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration, *Geoscientific Model Development*, vol. 9, no. 9, pp. 3297-3307, doi:10.5194/gmd-9-3297-2016
- Benthuisen, J, Tonin, H, Brinkman, R, Herzfeld, M, Steinberg, C 2016, Intrusive upwelling in the Central Great Barrier Reef, *Journal of Geophysical Research - Oceans*, vol. 121, no. 11, pp. 8395-8416, doi:10.1002/2016JC012294
- Williams, S, Pizarro, O, Naganobu, M, Friedman, A, Bryson, M 2016, Reflections on a decade of autonomous underwater vehicles operations for marine survey at the Australian Centre for Field Robotics, *Annual Reviews in Control*, vol. 42, pp. 158-165, doi:10.1016/j.arcontrol.2016.09.010
- Bibiloni-Isaksson, J, Seymour, JR, Ingleton, T, Van De Kamp, J, Bodrossy, L, Brown, MV 2016, Spatial and temporal variability of aerobic anoxygenic photoheterotrophic bacteria along the east coast of Australia, *Environmental Microbiology*, vol. 18, pp. 4485-4500, doi:10.1111/1462-2920.13436
- Jones, EM, Baird, ME, Mongin, M, et, al. 2016, Use of remote-sensing reflectance to constrain a data assimilating marine biogeochemical model of the Great Barrier Reef, *Biogeosciences*, vol. 13, pp. 6441-6469, doi:10.5194/bg-13-6441-2016
- Margvelashvili, N, Herzfeld, M, Rizwi, F, et, al. 2016, Emulator-assisted data assimilation in complex models, *Ocean Dynamics*, vol. 66, pp. 1109-1112, doi:10.1007/s10236-016-0973-8
- Zeh, D, Heupel, M, Hamman, M, Limpus, C, Marsh, H 2016, Qucik fix GPS technology highlights risk to dugongs moving between protected areas, *Endangered Species Research*, vol. 30, pp. 37-34, doi:http://dx.doi.org/10.3354/esr00725
- Apostle, R, Gazit, T, Haward, M 2016, Ocean tracking and marine species protection in Australia and Canada: science, technology, and knowledge brokering, *Ocean Development and International Law*, vol. 47, no. 4, pp. 368-377, doi:10.1080/00908320.2016.1229944
- Davies, C, Coughlan, A, Ajani, P, Armbrrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et, al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.43
- Wyatt, LR, Mantovanelli, A, Heron, M, Roughan, M, Steinberg, C 2017, Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation, *IEEE Journal of Oceanic Engineering*, no. 99, pp. 1-22, doi:10.1109/JOE.2017.2704165
- Kamya, PZ, et, al. 2017, Indirect effects of ocean acidification drive feeding and growth of juvenile crown-of-thorns starfish, *Acanthaster planci*, *Proceedings of the Royal Society Series B*, vol. 284, no. 1856, doi:http://dx.doi.org/10.1098/rspb.2017.0778
- Schlaff, A, Heupel, M, Udyawer, V, Simpfendorfer, C 2017, Biological and environmental effects on activity space of a common reef shark on an inshore reef, *Marine Ecology Progress Series*, vol. 571, pp. 169-181, doi:https://doi.org/10.3354/meps12107
- Turner, J, Babcock, R, Hovey, RK, Kendrick, G 2017, Deep thinking: a systematic review of mesophotic coral ecosystems, *ICES Journal of Marine Science*, vol. 74, no. 9, pp. 2309-2320, doi:https://doi.org/10.1093/icesjms/fsx085
- Pattiaratchi, C, Woo, M, Thomson, P, Hong, KK, Stanley, D 2017, Ocean glider observations around Australia, *Oceanography*, vol. 30, no. 2, pp. 90-91, doi:https://doi.org/ 10.5670/oceanog.2017.226

Wolfe, K, et, al. 2017, Superstars: Assessing nutrient thresholds for enhanced larval success of *Acanthaster planci*, a review of the evidence, *Marine Pollution Bulletin*, vol. 116, no. 1-2, pp. 307-314, doi:10.1016/j.marpolbul.2016.12.079

Wolfe, K, Byrne, M 2017, Biology and ecology of the vulnerable holothuroid, *Stichopus herrmanni*, on a high-latitude coral reef on the Great Barrier Reef, *Coral Reefs*, vol. 36, no. 4, pp. 1143-1156, doi:10.1007/s00338-017-1606-5

Everett, JD, Baird, ME, Buchanan, PJ, et, al. 2017, Modelling what we sample and sampling what we model: challenges for zooplankton model assessment, *Frontiers in Marine Science*, vol. 4, no. 77, doi:10.3389/fmars.2017.00077

Hobday, A, Cvitanovic, C 2017, Preparing Australian fisheries for the critical decade: insights from the past 25 years, *Marine and Freshwater Research*, vol. 68, pp. 1779-1787, doi:10.1071/MF16393

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

Bainbridge, S 2017, Temperature and light patterns at four reefs along the Great Barrier Reef during the 2015–2016 austral summer: understanding patterns of observed coral bleaching, *Journal of Operational Oceanography*, vol. 10, no. 1, pp. 16-29, doi:10.1080/1755876X.2017.1290863

James, L, Marzloff, M, Barrett, N, Friedman, A, Johnson, C 2017, Changes in deep reef benthic community composition across a latitudinal and environmental gradient in temperate Eastern Australia, *Marine Ecology Progress Series*, vol. 565, pp. 35-52, doi:10.3354/meps11989

Davies, C, Ajani, P, Armbrecht, L, Atkins, N, Baird, ME, et, al. 2018, A database of chlorophyll a in Australian waters, *Scientific Data*, vol. 5, no. 180018, doi:10.1038/sdata.2018.18

Benthuisen, J, Oliver, ECJ, Feng, M, Marshall, AD 2018, Extreme marine warming across tropical Australia during austral summer 2015-16, *Journal of Geophysical Research - Oceans*, doi:10.1002/2017JC013326

**Journals 134**

## Reports

Stieglitz, T 2008, The Yongala's Halo of Holes - Who is digging It? , Comments: AATAMS Receiver Pool Yearly Reports

Fox, R 2009, Movement patterns and habitat use of rabbitfishes (f. Siganidae) on the Great Barrier Reef as a link to ecosystem function, Comments: AATAMS Receiver Pool Half Yearly Reports

Dunstan, A 2009, Project: Coral Sea nautilus tracking, Comments: AATAMS Receiver Pool Yearly Reports

Bennett, M, Townsend, K, Weeks, S, Richardson, A, Couturier, L, Jaine, F 2009, Project Manta, Comments: AATAMS Receiver Pool Yearly Reports

Negri, A, Speare, P, Berkelmans, R, Stieglitz, T, Botting, R, Steinberg, C, Brinkman, R, Heron, M, Doherty, P 2010, Douglas Shoal ship grounding survey: RV Cape Ferguson habitat damage monitoring using multibeam sonar and towed video assessments, Comments: Final Confidential Report to GBRMPA

Brinkman, R, Herzfeld, M, Andrewartha, J, Rizwi, F, Steinberg, C, Spagnol, S 2011, Project 2.5i.1 hydrodynamics at the whole-of-GBR scale: A foundation for receiving water quality models. Final Report to the Marine and Tropical Sciences Research Facility

Bridge, T, Guinotte, J 2011, Mesophotic coral reef ecosystems in the Great Barrier Reef World Heritage Area: Their distribution and possible role as refugia from disturbance., Comments: Report to the Great Barrier Reef Marine Park Authority

Hill, K, Kelly-Gerreyn, B, Stuart-Smith, R, Evans, K, Hayes, K 2012, Australia's continental scale acoustic tracking database and its quality control process, CSIRO, Comments: National Climate Change Adaptation Research Facility, FRDC and CSIRO, Australia

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

Brassington, GB, Freeman, J, Huang, X, Pugh, TF, Oke, PR, Sandery, PA, Taylor, A, Andreu-Burillo, I, Schiller, A, Griffin, DA, Fiedler, R, Mansbridge, JV, Beggs, H, Spillman, CM 2012, Ocean model, analysis and prediction system: version 2, CAWCR - Centre for Australian Weather and Climate Research, Comments: Technical report No. 052

Garde, L, Spillman, CM, Majewski, L, Griffin, C, Kruger, G, Beggs, H 2013, ReefTemp Next Generation, CAWCR Technical Report No. 63

Cahill, M 2014, MARVL Report: SHOC simulation of the Southern Barrier Reef region

Herzfeld, M, Andrewartha, J, Baird, ME, Brinkman, GW, et. al. 2014, eReefs WP3 marine modelling: phase II interim report

Miles, E, Griesser, A, Charles, A, Spillman, CM 2014, The Pacific-Australia climate change science and adaptation planning program's seasonal prediction websites, CAWCR - Centre for Australian Weather and Climate Research, Comments: Technical Report: NO 072 pp 26

Bax, N, Hedge, P 2015, Marine Biodiversity Hub, National Environmental Research Program, final report 2011-2015., Hobart

Trebaul, J-P 2015, Satellite altimetry CAL/VAL at the Australian Bass Strait site in the context of the new missions Jason-3 and Sentinel-3, Comments: Research Intern Report

Griffin, DA 2015, OceanCurrent model validation - Applied Research Program 3

Hayes, K, Dambacher, J, Hedge, P, et. al. 2015, Towards a blueprint for monitoring key ecological features in the Commonwealth Marine Area, Comments: NERP Marine Biodiversity Hub Report

Richardson, A, Eriksen, R, Rochester, W 2015, Plankton 2015: state of Australia's oceans, Comments: CSIRO Report; ISBN 978-1-4863-0565-0

Courtney, AJ, Spillman, CM, Lemos, R, Thomas, J, Leigh, G, Campbell, AH 2015, Physical oceanographic influences on Queensland reef fish and scallops, Comments: FRDC Project #2013/020 Final Report 153

Brando, V, Schroeder, T, King, E, Dyce, P 2015, Reef rescue marine monitoring program: using remote sensing for GBR-wide water quality, Comments: Final report for 2012/13 activities, CSIRO report to the Great Barrier Reef Marine Park Authority, 213pp.

Baldry, K 2016, Report on CSIRO vacation scholarship: carbonate system of Australian coastal waters from IMOS NRS and VOS measurements

Thompson, P, O'Brien, TD, Lorenzoni, L, Richardson, A, Chavez, F 2016, The South Pacific Ocean, in What are Marine Ecological Time Series telling us about the ocean? A status report., Paris, Comments: O'Brien, T.D., Isensee, K., Lorenzoni, L., Valdés, J.L. (eds). IOC-UNESCO, Paris. IOC Technical Series, No. 129.

Thompson, P, O'Brien, TD, Isensee, K, Lorenzoni, L, Beckley, L 2016, The Indian Ocean, in What are Marine Ecological Time Series telling us about the ocean? A status report., Paris, Comments: O'Brien, T.D., Isensee, K., Lorenzoni, L., Valdés, J.L. (eds). IOC-UNESCO, Paris. IOC Technical Series, No. 129

Blondeau-Patissier, D, Schroeder, T, Brando, V, King, E, Steven, A 2016, Assessing uncertainties of the CSIRO MODIS ocean colour products on the Great Barrier Reef paddock to reef water quality reporting metrics, Comments: Technical Report, CSIRO Oceans and Atmosphere

Evans-Illidge, L, Tonin, H, Lawrey, E, Steinberg, C, Johns, K, Emslie, M, Brinkman, R 2016, Preliminary baseline knowledge to support a first-stage marine-environmental assessment of proposed in-sea desalination pipeline infrastructure at Great Palm Island (Bwgcolman), supplementary report - The Northern Site, Queensland, Comments: Report prepared for Palm Island Aboriginal Shire Council and the Queensland Department of Infrastructure, Local Government Planning. AIMS, Townsville, 58 pp.

null

Smith, JA, Suthers, I, Lara-Lopez, A, Richardson, A, Swadling, K, Ward, T, van Ruth, P, Everett, JD 2016, An evaluation of ichthyoplankton monitoring at national reference stations. Final report to the Australian Fisheries Management Authority (AFMA) , Comments: Project 2015/0819

Gallen, C, Thompson, KR, Paxman, C, Devlin, M, Mueller, J 2016, Marine Monitoring Program: annual report for inshore pesticide monitoring 2014 to 2015, University of Queensland, National Research Centre for Environmental Toxicology, Brisbane

Antoine, D, Schroeder, T, Slivkoff, M, et, al. 2017, The IMOS Radiometry Task Team, Final Report

Reports 29

## Thesis

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

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

Jaffres, JBD 2011, The oceanographic and geochemical effects of mixed layer depth variability and increasing anthropogenic CO<sub>2</sub> on the inorganic carbon system of the Coral Sea, 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

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

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

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

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

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

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

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

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

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

Munroe, S 2015, Habitat and dietary selectivity of nearshore shark populations, Doctor of Philosophy (PhD), James Cook University, Townsville

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

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

Udyawer, V 2015, Spatial ecology of true sea snakes (Hydrophiinae) in coastal waters of North Queensland, 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

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

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

Bibiloni-Isaksson, J 2016, Biogeography of photoheterotrophic bacteria in the Australian marine environment, Doctor of Philosophy (PhD), University of Technology Sydney, Sydney

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## Data Product

Global Ocean Surface Underway Data, (1939 - 2029) Database. <http://www.gosud.org/>

International Comprehensive Ocean-Atmosphere Data Set (ICOADS), (1961 - 2029) Database. <http://icoads.noaa.gov/>

International Comprehensive Ocean Atmosphere Data Set (ICOADS), (1961 - 2029) Database.  
<http://icoads.noaa.gov/index.shtml>

Thermosalinograph Data Portal, (1979 - 2036) Database. <https://www.nodc.noaa.gov/tsg/>

Global Temperature and Salinity profile Programme (GTSP), (1989 - 2029) Database. <http://www.nodc.noaa.gov/GTSP/>

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

NASA SeaBASS (Sea-viewing Wide Field-of-view Sensor Bio-optical Archive, (1996 - 2029) Satellite Products.  
<http://seabass.gsfc.nasa.gov/>

Global Telecommunication System (GTS), (1997 - 2029) Database.  
[http://www.wmo.int/pages/prog/www/TEM/GTS/index\\_en.html](http://www.wmo.int/pages/prog/www/TEM/GTS/index_en.html)

CSIRO Atlas of Regional Seas (CARS), (1997 - 2010) Climatology. <http://www.marine.csiro.au/~dunn/cars2009/>

ozROMS, (1999 - 2014) Modelling reanalysis. <http://130.95.29.56:8080/tredds/catalog.html>

Shipboard Automated Meteorological and Ocean System (SAMOS), (2004 - 2029) Database.  
<http://samos.coaps.fsu.edu/html/>

Coral Reef Environmental Observatory Network (CREON), (2008 - 2029) Database.  
<http://creon.sdsc.edu:8080/confluence/display/creon/Welcome>

OceanMAPSv2.0, (2010 - 2029) Ocean States Estimates, data assimilation.  
<http://www.bom.gov.au/oceanography/forecasts/index.shtml>

GBR - Coral Reef Temperature Dashboard, (2013 - 2035) Climatology. <http://138.7.120.39:47080/coralwatch/index.html>

sailwx.info, (2013 - 2029) Near Real Time Information. <http://www.sailwx.info/shiptrack/index.html>

Lizard Island Observing System (LIOS), (2014 - 2035) Database. [kiosk.aims.gov.au:47080/lizard/index.html](http://kiosk.aims.gov.au:47080/lizard/index.html)

**Data Product Count 16**

## Public Seminars

Heron, M, Steinberg, C; Marine science instrumentation in Australia: the Integrated Marine Observing System; Department of Primary Industries and Fisheries Queensland Seminar, 30/07/2008 - 30/07/2008, Cairns

Townsend, K; Project manta - ecology and biology of an iconic marine species; Women in Diving, 06/06/2009 - 06/06/2009, Brisbane, Presenter(s): Kathy Townsend

Stieglitz, T; Physics at the land-ocean interface: stories of mangroves, submarine groundwater & shipwrecks - processes driving connectivity; Laboratoire des sciences de l'environnement marin, Institut Universitaire Européen de la Mer, 09/02/2010 - 09/02/2010, Université de Bretagne Occidentale, Brest, Presenter(s): T Stieglitz

Townsend, K; Project Manta – Ecology and biology of an iconic marine species; Open Gala - Earthwatch Institute, 10/08/2011 - 10/08/2011, Melbourne, Presenter(s): Kathy Townsend

Currey, L; The Great Barrier Reef: A great place to study!; Milchester State School Public Seminar, 07/03/2012 - 07/03/2012, Charters Towers, Presenter(s): Leanne Currey

Udyawer, V; The movement of blacktip sharks within a nursery habitat and the effects of extreme weather; DEEDI Public Seminar, 07/03/2012 - 07/03/2012, Brisbane, Presenter(s): Vinay Udyawer

Currey, L, Heupel, M, Clark, TD, Simpfendorfer, C, Williams, A, Sutton, S; Max from the catch? Blood lactate loads of redthroat emperor associated with angling stress and exhaustive exercise; AIMS Seminar, 26/04/2012 - 26/04/2012, Australian Institute of Marine Science, Darwin, Presenter(s): Leanne Currey

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

Garde, L, Spillman, CM; ReefTemp Next Generation: Preliminary prototype system; Australian Bureau of Meteorology, 06/06/2012 - 06/06/2012, BOM Queensland Regional Office, Brisbane

Espinoza, M, Heupel, M, Simpfendorfer, C, Tobin, A; The role of sharks in coral reef ecosystems: movements and trophic ecology of top predators along the Great Barrier Reef; AIMS@JCU Seminar Day, 26/06/2012 - 26/06/2012, Townsville, Presenter(s): Mario Espinoza

Munroe, S, Heupel, M, Simpfendorfer, C; Habitat selectivity of nearshore sharks; AIMS@JCU Seminar Day, 26/06/2012 - 26/06/2012, Townsville, Presenter(s): Samantha Munroe

Udyawer, V, Knip, D, Chin, A, Heupel, M, Simpfendorfer, C; Effects of large-scale storm disturbances on movement and habitat use of coastal sharks within Cleveland Bay; AIMS@JCU Seminar Day, 26/06/2012 - 26/06/2012, Townsville, Presenter(s): Vinay Udyawer

Heupel, M; Acoustic Tracking; Heron Island Research Station Public Seminar Series 2012, 06/09/2012 - 06/09/2012, Heron Island, Presenter(s): Michelle Heupel

Garde, L; ReefTemp Next Generation: a new operational system for monitoring reef thermal stress; CAWCR Seminar Series, 12/09/2012 - 12/09/2012, Melbourne, Presenter(s): Luke Garde



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

Heupel, M; Acoustic Tracking; Heron Island Research Station Public Seminar Series 2013, 10/03/2013 - 10/03/2013, Heron Island, Presenter(s): Michelle Heupel

Heupel, M; Advances in acoustic tracking; School of Marine and Tropical Biology Seminar, 01/04/2013 - 01/04/2013, James Cook University, Townsville, Presenter(s): Michelle Heupel

Currey, L; Movement of redthroat emperor (a tasty reef fish) in time and space; Townsville Central Rotary Club Public Seminar, 12/05/2013 - 12/05/2013, Townsville, Presenter(s): Leanne Currey

Wyatt, LR; Applications of HF radar to marine science; TropWater Seminar, 15/05/2013 - 15/05/2013, James Cook University, Townsville, Presenter(s): Lucy Wyatt

Heupel, M; Understanding fish behaviour using acoustic methods; Hichinbrook Fishing Club Public Seminar, 09/07/2013 - 09/07/2013, Townsville, Presenter(s): Michelle Heupel

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C; Movements and residency patterns of grey reef sharks in semi-continuous reef habitats; AIMS@JCU Seminar Day, 08/08/2014 - 08/08/2014, Townsville, Presenter(s): Mario Espinoza

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C; Partial migration of marine predators: is habitat the key?; AIMS@JCU Seminar Day, 08/08/2014 - 08/08/2014, Townsville, Presenter(s): Mario Espinoza

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

Steinberg, C, Bainbridge, S, Heupel, M, Meekan, MG, Benthuyesen, J, Williams, DK, Brinkman, R; Coastal and Ocean Observing at AIMS; AIMS Science Days, 11/03/2015 - 12/03/2015, Australian Institute of Marine Science, Townsville, Presenter(s): Craig Steinberg

Tilbrook, B, Neill, C, Berry, K, et, al.; Future Reef 2.0; Future Reef 2.0, 20/06/2017 - 20/06/2017, Brisbane, Presenter(s): Bronte Tilbrook

Uribe-Palomino, J; TV Program Episode - Fieldwork - field work on plankton in Moreton Bay; Scope, 29/06/2017 - 29/06/2017, Brisbane, Presenter(s): Julian Uribe-Palomino

Bainbridge, S; Computers and climate change - Q-IMOS, Queensland's ocean observing system; 2011 Rotary Meeting, Townsville, Presenter(s): Scott Bainbridge

Heron, M; The Australian Coastal Ocean Radar Network; Dandaragan Shire Council, Perth, Presenter(s): Mal Heron

Heron, M; The Australian Coastal Ocean Radar Network; Gingin Shire Council, Perth, Presenter(s): Mal Heron

Wyatt, LR; Using radar to measure the sea surface: methods and applications; JCU Faculty of Science and Engineering Public Lecture, Townsville, Presenter(s): Lucy Wyatt

**Public Seminars 30**

## Conferences, Symposia or Workshops

### Conference Oral Presentation

Heron, M, Prytz, A, Cetina-Heredia, P, Mao, Y, Hoegh-Guldberg, O, Willis, B, Skirving, WJ, Heron, SF, Caley, J, Bayler, E, Coulton, M; HF ocean surface radar monitoring for coral bleaching in the Great Barrier Reef; OCEANS 2006 MTS/IEEE, 18/09/2006 - 21/09/2006, Boston

Heron, M, Prytz, A, Heron, SF, Helzel, T, Schlick, T, Greenslade, DJM, Schulz, E; Application of HF coastal ocean radar to tsunami observations; Pan Ocean Remote Sensing Conference (PARSEC) 2006, 01/11/2006 - 04/11/2006, Busan

Doherty, P; GBROOS – an observation system for the Great Barrier Reef; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): Peter Doherty

Stieglitz, T; The Yongala's Halo of Holes – Who's digging it? Acoustic Tracking of Stingrays at the wreck of the Yongala; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): T Stieglitz

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

Prytz, A, Heron, M, Searson, S; ACORN: The HF Coastal Ocean Radar Network: the facility and the archive; Australian Meteorological and Oceanographic Society (AMOS) Conference, 29/01/2008 - 01/02/2008, Geelong

Heron, M, Gill, EW, Prytz, A; A de-convolution approach to analysis of double-peaked HF Radar spectra; OCEANS 2008 MTS/IEEE - Kobe Techno-Ocean '08, 08/04/2008 - 11/04/2008, Kobe

Heron, M, Prytz, A, Searson, S; The Australian Coastal Ocean Radar Network (ACORN); IEEE Working Conference on Current Measurement Technology, 28/04/2008 - 02/05/2008, Charleston

Steinberg, C, Herzfeld, M, Schiller, A, Feng, M; Downscaling climate change to a reef on the GBR: Heron Island case study: Project 2.5i.1; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 28/04/2008 - 01/05/2008, Cairns

Bainbridge, S; A services based architecture for achieving interoperability of environmental observational data; Environmental Information Management Conference , 10/09/2008 - 11/09/2008, Albuquerque, Presenter(s): Scott Bainbridge

Bainbridge, S, Rehbein, MA, Feather, G, Eggeling, D; Sensor networks on the Great Barrier Reef - managing marine sensor data; Environmental Information Management Conference , 10/09/2008 - 11/09/2008, Albuquerque

Johnson, C; The Australian Ocean Data Network: Building the e-Research marine science information infrastructure; Environmental Information Management Conference , 10/09/2008 - 11/09/2008, Albuquerque, Presenter(s): Craig Johnson

Bainbridge, S, Feather, G, Eggeling, D; GBROOS - Application of sensor networks to coral reef systems; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Heron, M, Prytz, A, Page, G, Atwater, DP; The Australian Coastal Ocean Radar Network: A Facility of the Integrated Marine Observing System; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Jaffres, JBD; Mixed layer depth variability in the Coral Sea from ARGO observations ; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Steinberg, C, McAllister, F, McLean, CM, Brinkman, GW, Pitcher, C, Luetchford, J, Rigby, P; The implementation of a Great Barrier Reef Ocean Observing System to monitor the Western Boundary Currents of the Coral Sea and impacts on the Great Barrier Reef; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Ganachaud, AS, Sen Gupta, AS, Steinberg, C, Maes, C; Projected ocean circulation changes to the tropical Pacific over the 21st century; Greenhouse 2009: Climate Change and Resources, 23/03/2009 - 26/03/2009, Perth

Steinberg, C, Weeks, S, Berkelmans, R; East Australian Current and upwelling influences on the thermal environment of the Great Barrier Reef; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 28/04/2009 - 30/04/2009, Townsville

Heron, M; The Australian Coastal Ocean Radar Network Facility; Canadian Conference on Electrical and Computer Engineering, 03/05/2009 - 06/05/2009, St. John's, Presenter(s): Mal Heron

Steinberg, C, McAllister, F, McLean, CM, Brinkman, GW, Pitcher, C, Luetchford, J, Rigby, P; The Great Barrier Reef Ocean Observing System mooring array: monitoring the western boundary currents of the Coral Sea and Impacts on the Great Barrier Reef; 2009 Joint Assembly, 24/05/2009 - 27/05/2009, Toronto

Steinberg, C, Heron, SF, Herzfeld, M, Weeks, S, Bainbridge, S, Heron, M, Skirving, WJ; Observing and modelling the circulation of the Capricorn Bunker Group, Southern Great Barrier Reef; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Heupel, M, Simpfendorfer, C, Fitzpatrick, R; Preliminary analysis of grey reef shark movements on the great Barrier Reef; 25th Annual American Elasmobranch Society Meeting, 22/07/2009 - 27/07/2009, Portland

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

Heron, M, Barbin, Y; Bistatic HF Ocean Radar: Errors and Limitations; OCEANS 2009 MTS/IEEE Biloxi Conference and Exhibition, 26/10/2009 - 29/10/2009, Biloxi

Heupel, M, Simpfendorfer, C, Fitzpatrick, R; Preliminary analysis of grey reef shark movements on the great Barrier Reef; 13th European Elasmobranch Association Meeting, 19/11/2009 - 22/11/2009, Majorca

Bainbridge, S; I-CREOS - Towards an international network of coral reef ecosystem observing systems; 5th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), 07/12/2009 - 10/12/2009, Melbourne, Presenter(s): Scott Bainbridge

Steinberg, C, Heron, SF; Oceanography, mechanical damage and wave-induced upwelling; NOAA Coral Reef Watch/UQ Workshop - Satellite monitoring of reef vulnerability in a changing climate, 15/02/2010 - 18/02/2010, Brisbane

Berkelmans, R, Weeks, S, Steinberg, C; Upwelling linked to warm summers and bleaching on the Great Barrier Reef; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 18/05/2010 - 20/05/2010, Cairns

Brando, V, Schroeder, T, Dekker, AG, Schaffelke, B, Devlin, M; Delivering accurate water quality information for the Great Barrier Reef lagoon using regionally valid satellite remote sensing data; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 18/05/2010 - 20/05/2010, Cairns

Brinkman, R, Herzfeld, M, Andrewartha, J, Steinberg, C, Spagnol, S; Hydrodynamics at the whole of GBR scale; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 18/05/2010 - 20/05/2010, Cairns

Congdon, BC, Weeks, S, Steinberg, C; Whirlpools and weight loss: linking seabird foraging success and oceanography in the southern Great Barrier Reef; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 18/05/2010 - 20/05/2010, Cairns

Chin, A, Simpfendorfer, C, Heupel, M, Tobin, A; More than a reef shark? The movement and habitat use patterns of *Carcharhinus melanopterus* in inshore, non-reef environments; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Couturier, L, Jaine, F, Townsend, K, Weeks, S, Richardson, A, Bennett, M; Local site fidelity and regional movements of the manta ray, 2010. *Manta alfredi*, along the eastcoast of Australia; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Knip, D, Heupel, M, Simpfendorfer, C, Tobin, A, Maloney, J; Seasonal patterns in movement and distribution of juvenile pigeye sharks (*Carcharhinus amboinensis*) in Cleveland Bay, north Queensland; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Brando, V, Schroeder, T, Dekker, AG, Schaffelke, B, Devlin, M; Management relevant satellite based water quality information for the Great Barrier Reef lagoon using regional optical parameterisation; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Steinberg, C, Heron, SF, Heron, M, Mantovanelli, A, Rigby, P, Weeks, S, Jaffres, JBD, Brinkman, R, Herzfeld, M, Wisdom, D; Advances in observing physical oceanographic impacts on the Southern Great Barrier Reef, Australia; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Heupel, M, Simpfendorfer, C, Knip, D, Chin, A, White, J; Spatial ecology of nearshore elasmobranchs; 26th Annual American Elasmobranch Society Meeting, 07/07/2010 - 12/07/2010, Providence

Knip, D, Heupel, M, Simpfendorfer, C, Moloney, J; Site fidelity and habitat use of spot-tail sharks (*Carcharhinus sorrah*) in a tropical nearshore environment; 26th Annual American Elasmobranch Society Meeting, 07/07/2010 - 12/07/2010, Providence

Hollier, W, Dargaville, R, Bainbridge, S, Rau, G, Dicks, A; Reef climate adaptation research and technology; The Second International Conference on Climate Change, 08/07/2010 - 10/07/2010, University of Queensland, Brisbane

Donnolly, A, Townsend, K; Project Manta: a case study of how engaging "citizen scientists"; 85th Annual Australian Coral Reef Society (ACRS) Conference, 10/09/2010 - 12/09/2010, Coffs Harbour, Presenter(s): A Donnolly

Jaine, F, Weeks, S, Townsend, K, Richardson, A, Bennett, M; Seasonal aggregations and environmental preferences of the manta ray *Manta alfredi* at Lady Elliot Island, southern GBR; 85th Annual Australian Coral Reef Society (ACRS) Conference, 10/09/2010 - 12/09/2010, Coffs Harbour, Presenter(s): Fabrice Jaine

Steinberg, C, Brinkman, R, Mantovanelli, A, Herzfeld, M, Heron, M, Weeks, S, McAllister, F, Heron, SF, Wisdom, D, Revelard, A; Advances in observing and modelling physical oceanographic impacts on the Southern Great Barrier Reef, Australia; 85th Annual Australian Coral Reef Society (ACRS) Conference, 10/09/2010 - 12/09/2010, Coffs Harbour, Presenter(s): Craig Steinberg

Babcock, R, Patterson, T, Bravington, M, Pillans, R; Including habitats in estimates of utilization distributions of reef fish; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Russ Babcock

Bainbridge, S; The role of sensor networks in monitoring and managing coastal systems including ecological monitoring of coral reefs; Thailand National Science and Technology Development Agency (NSTDA) Annual Conference, 25/03/2011 - 25/03/2011, Bangkok, Presenter(s): Scott Bainbridge

Tilbrook, B; Ocean acidification on the GBR and in the Coral Sea; Greenhouse 2011: The Science of Climate Change, 04/04/2011 - 08/04/2011, Cairns, Presenter(s): Bronte Tilbrook

Brando, V, Schroeder, T, Dekker, AG, Devlin, M; Spatial and temporal assessment of exceedance of water quality guidelines for the Great Barrier Reef Lagoon using remote sensing data,; 34th International Symposium on Remote Sensing of the Environment, 11/04/2011 - 15/04/2011, Sydney

Heron, M, Prytz, A; The data archive for the phased array HF Radars in the Australian Coastal Ocean Radar Network; OCEANS 2011 IEEE/OES, 06/06/2011 - 09/06/2011, Santander

Bainbridge, S; Sensor Networks - working towards smart monitoring of environmental systems; Taiwan-AU-NZ Conference on Marine Biology, Biodiversity and Ecosystem, 19/06/2011 - 24/06/2011, Keelung, Presenter(s): Scott Bainbridge

Babcock, R, Patterson, T, Bravington, M, Pillans, R; Including habitats in estimates of utilization distributions for reef fish; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Brinkman, R, Herzfeld, M, Steinberg, C, Andrewartha, J, Condie, SA; Simulation of 3-D hydrodynamics, flood plumes and connectivity on the Great Barrier Reef; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Richard Brinkman

Clementson, L, Brando, V, Keen, R, Daniel, P; The Lucinda Jetty Coastal Observatory - an example of a single point observation site; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Heupel, M, Knip, D, Chin, A, White, J, Udyawer, V, Mapleston, A, Simpfendorfer, C; Response of inshore predators to extreme weather events: Implications of a changing climate; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

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

Mantovanelli, A, Heron, M; Predicting advection and dispersion in the southern Great Barrier Reef by using Lagrangian trajectories computed from HF-radar currents; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Alessandra Mantovanelli

McGregor, F, Meekan, MG; Manta ray (*Manta alfredi*) visitation to Ningaloo Reef, WA - the importance of residence!; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Frazer McGregor

Steinberg, C, Rigby, P, McAllister, F, Spagnol, S, Brinkman, R, Jones, N; Current observations from the Continental Shelves of the Arafura and Timor Seas; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Craig Steinberg

Heupel, M, Simpfendorfer, C, Knip, D, Chin, A, White, J; Spatial ecology of nearshore elasmobranchs; Australian Society for Fish Biology, 22/07/2011 - 24/07/2011, Townsville

White, J, Heupel, M, Simpfendorfer, C, Tobin, A; Residency and activity patterns of shark-like batoids in Cleveland Bay, Queensland; Australian Society for Fish Biology, 22/07/2011 - 24/07/2011, Townsville

Atwater, DP, Heron, M; A first approach to SeaSonde quality control; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona

DiMassa, D, Heron, M, Heron, SF; HF Radar: A tool for coral reef planning and management; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona

Heron, M, Prytz, A, Steinberg, C; Application of VHF high Resolution Radar to Evaluating Circulation Around a Seawater Intake Facility; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona

Jaffres, JBD, Heron, M; Wave Climate in the southern Great Barrier Reef, Australia - Evaluation of an ocean HF Radar System and WaveWatch3; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona

Mantovanelli, A, Heron, M, Prytz, A, Steinberg, C, Wisdom, D; Validation of radar-based Lagrangian trajectories against surface-drogued drifters in the Coral Sea, Australia; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona

Wyatt, LR; Use of HF radar for marine renewable applications; OCEANS 2011 MTS/IEEE, 19/09/2011 - 22/09/2011, Kona, Presenter(s): Lucy Wyatt

Congdon, BC, Weeks, S, Steinberg, C; Seabirds in hot water: linking seabird foraging success and oceanography on the GBR; Ornithological Conference, 28/09/2011 - 01/10/2011, Cairns, Presenter(s): Brad Congdon

Heron, M; Compact Systems; HF Radar Workshop, 11/10/2011 - 13/10/2011, La Spezia, Presenter(s): Mal Heron

Heron, M; The Australian Coastal Ocean Radar Network: Lessons Learned; HF Radar Workshop, 11/10/2011 - 13/10/2011, La Spezia, Presenter(s): Mal Heron

Babcock, R, Patterson, T, Pillans, R; Including habitats in estimates of utilization distributions for acoustically tagged reef fish; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Wijffels, S, Sloyan, B, Steinberg, C; The Australian Integrated Marine Observing System's Indonesian throughflow and shelf moorings; CLIVAR ITF-Task Team Workshop Developing an Effective Monitoring Program of the Indonesian throughflow, 12/03/2012 - 14/03/2012, Jakarta

Coman, F, Bonham, P, Davies, C, Hosie, G, Lynch, T, McLaughlin, J, McLeod, DJ, Thompson, P, Tonks, M, Strzelecki, J, Slotwinski, A, Richardson, A; The plankton observing system in IMOS; CMAR Science Symposium - Science, Impacts, Possibilities, 20/03/2012 - 22/03/2012, Hobart

Wyatt, LR; Measuring waves with HF radar; Progress in Radar Research 2012, 02/04/2012 - 03/04/2012, University of Adelaide, Adelaide, Presenter(s): Lucy Wyatt

Heron, M, Mantovanelli, A; Advances in Lagrangian tracking; Radio Oceanography Workshop, 17/04/2012 - 19/04/2012, Toulon

Wyatt, LR, Jaffres, JBD, Heron, M; Spatial averaging requirements to improve wave data quality and availability: report on work in progress; Radio Oceanography Workshop, 17/04/2012 - 19/04/2012, Toulon, Presenter(s): Mal Heron

Wyatt, LR; The Australian Coastal Ocean Radar Network, ACORN; Radio Oceanography Workshop, 17/04/2012 - 19/04/2012, Toulon, Presenter(s): Mal Heron

Bainbridge, S; Cloud-based service-orientated data system for ocean observational data - an example from the coral reef community; European Geosciences Union (EGU), 21/04/2012 - 27/04/2012, Vienna, Presenter(s): Scott Bainbridge

Steinberg, C, McAllister, F, Rigby, P, Brinkman, GW, Luetchrford, J, Brinkman, R, Bartlett, C, Herzfeld, M; Q-IMOS Monitoring of The Western Boundary Currents of the Coral Sea and the Great Barrier Reef; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea

Mongin, M, Tilbrook, B, Roelfsema, C, Anthony, KR, Steinberg, C, Bainbridge, S; A detailed modelling insight of the carbon chemistry variability around Heron Island, Great Barrier Reef; AIMS Seminar, 26/04/2012 - 26/04/2012, Australian Institute of Marine Science, Darwin, Presenter(s): Mathieu Mongin

Heron, M, Prytz, A, Atwater, DP; Quality control issues in HF ocean radars; Ocean Radar Conference for Asia, 17/05/2012 - 18/05/2012, Seoul

Wyatt, LR; The Australian Coastal Ocean Radar Network, ACORN; Ocean Radar Conference for Asia, 17/05/2012 - 18/05/2012, Seoul, Presenter(s): Lucy Wyatt

Heron, M, Wyatt, LR, Atwater, DP, Prytz, A; The Australian Coastal Ocean Radar Network: Lessons learned in the establishment phase; OCEANS 2012 MTS/IEEE Xplore, 21/05/2012 - 24/05/2012, Yeosu

Wyatt, LR; Currents, waves and winds from HF radar; 3rd Australian Chinese Ocean Science and Technology Symposium, 24/06/2012 - 27/06/2012, James Cook University, Townsville, Presenter(s): Lucy Wyatt

Rigby, P, Steinberg, C, McAllister, F, Bartlett, C, Tonin, H, Herzfeld, M; Observations of extreme marine conditions under Tropical Cyclone Yasi; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Chin, A; Where do reef sharks go when they're not on reefs; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns, Presenter(s): Andrew Chin

Furnas, M; Large and small-scale variability of Great Barrier Reef upwelling; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns, Presenter(s): Miles Furnas

Heupel, M; Coral reefs: apex predator paradise or mesopredator nirvana?; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns, Presenter(s): Michelle Heupel

Simpfendorfer, C; The role of non-resident sharks in shaping coral reef communities; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns, Presenter(s): Colin Simpfendorfer

Spillman, CM, Heron, SF, Steinberg, C, Garde, L, Mahoney, M, Maynard, J, Skirving, WJ, Burgess, T, Eakin, CM; Next-generation high-resolution thermal stress monitoring for the Great Barrier Reef; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns

Couturier, L, Marshall, AD, Jaine, F, Kashiwagi, T, Pierce, SJ, Townsend, K, Weeks, S, Bennett, M; Status of knowledge on the Mobulidae and conservation issues; ASFB and OCS - Australian Society for Fish Biology and Oceania Chondrichthyan Society, 15/07/2012 - 18/07/2012, Adelaide, Presenter(s): Lydie Couturier

Simpfendorfer, C, Heupel, M; Beyond the "shiny new hammer": data analysis tools to make the most of acoustic monitoring studies; ASFB and OCS - Australian Society for Fish Biology and Oceania Chondrichthyan Society, 15/07/2012 - 18/07/2012, Adelaide, Presenter(s): Colin Simpfendorfer

Tilbrook, B; Australian monitoring efforts on GBR; Coral Reef Acidification Monitoring Portfolio Workshop, 28/08/2012 - 29/08/2012, Fort Lauderdale, Presenter(s): Bronte Tilbrook

Tilbrook, B; The carbonate chemistry of the Great Barrier Reef; 3rd International Conference on the Oceans in a High CO<sub>2</sub> World, 24/09/2012 - 28/09/2012, Monterey, Presenter(s): Bronte Tilbrook

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

Brinkman, R, Tonin, H, Herzfeld, M, Andrewartha, J, Furnas, M, Schaffelke, B, Fabricius, K; Quantifying the footprint and impact of river inflows into the GBR, and implications for understanding Crown of Thorns Seastar outbreaks - an application of eReefs models and IMOS data; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Hemerson Tonin

Heron, M; Turbulent mixing mapped in shallow water using HF and VHF Ocean Radar; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Mal Heron

Mantovanelli, A, Heron, M, Heron, SF, Steinberg, C; Influence of the complex topography on particle dispersion in the southern Great Barrier Reef; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Alessandra Mantovanelli

Griffin, C, Beggs, H, Majewski, L; BoM efforts to improve SSESs for AVHRR SST Level 3 Products; 14th GHRSSST Science Team Meeting, 17/06/2013 - 21/06/2013, Woods Hole, Presenter(s): Christopher Griffin

Espinoza, M, Heupel, M, Simpfendorfer, C; Predicting MPA utilization for reef-associated sharks: an individual-based simulation approach; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Mario Espinoza

Heupel, M, Simpfendorfer, C; Importance of environmental and biological drivers in the presence and space use of a reef-associated shark; 9th Indo-Pacific Fish Conference, 24/06/2013 - 28/06/2013, Okinawa, Presenter(s): Michelle Heupel

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

Heupel, M, Simpfendorfer, C; Importance of environmental and biological drivers in the presence and space use of a reef-associated shark; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Michelle Heupel

Marin, M; Modelling the distribution of kelp in a vertically structured subtropical water column; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Maxime Marin

Yates, P, Heupel, M, Tobin, A, Simpfendorfer, C; Diversity in shark assemblages and nursery areas along a tropical coastline; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): P Yates

Zeh, D, Marsh, S, Hamman, M, Heupel, M; Using data-logging acoustic receivers to study dugong movements in coastal environments: a comparison with satellite tracking; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Daniel Zeh

Brodie, S, Payne, N, Everett, JD, Taylor, M, Suthers, I; Using tri-axial accelerometers to study the energetics, behaviour and biomechanics of yellowtail kingfish, *Seriola lalandi*; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Stephanie Brodie

Currey, L, Heupel, M, Simpfendorfer, C; Stay or stray: examination of reef-based movement of redthroat emperor; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Leanne Currey

Simpfendorfer, C, Heim, A, Heupel, M; Measures of activity space in acoustic monitoring studies; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Colin Simpfendorfer

Heupel, M, Simpfendorfer, C; Long-term movement patterns of grey reef sharks in the Southern Great Barrier Reef; Oceania Chondichthyan Society Conference, 19/09/2013 - 20/09/2013, Brisbane, Presenter(s): Michelle Heupel

Heupel, M; Importance of multiple data streams in examination of marine predator movement patterns; AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Michelle Heupel

Zeh, D, Hanna, M, Heupel, M, Limpus, C, Babcock, R, Pillans, R, Marsh, H; Using data-logging acoustic receivers to study dugong movements in coastal environments: a comparison with satellite tracking; 20th Biennial Conference on the Biology of Marine Mammals, 06/12/2013 - 13/12/2013, Dunedin, Presenter(s): Daniel Zeh

Brieva, D; Upwelling off shore Fraser Island; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Daniel Brieva

Steinberg, C; Q-IMOS monitoring of the western boundary currents of the coral sea and Great Barrier Reef exchanges; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Craig Steinberg

Brinkman, R, Tonin, H, Herzfeld, M, Andrewartha, J, Furnas, M, Schaffelke, B, Fabricius, K; Quantifying the footprint and impact of river inflows into the GBR, and implications for understanding Crown of Thorns Seastar outbreaks - an application of eReefs models and IMOs data; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Richard Brinkman

MacDonald, HS, Ivey, GN, Jones, N, Lowe, R, Pequignet, C; Cyclone modelling on the Australian North West Shelf; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Helen MacDonald

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

Steinberg, C, McAllister, F, Rigby, P, Tonin, H; Q-IMOS monitoring of the western boundary currents of the coral sea and Great Barrier Reef exchanges ; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Craig Steinberg

Tilbrook, B, Nojiri, Y, Neill, C, Veness, T; Seawater carbonate chemistry and ocean acidification on the Great Barrier Reef; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Bronte Tilbrook

De Faria, F, Simpfendorfer, C, Heupel, M; Movement and residency of tiger sharks *Galeocerdo cuvier* in the Great Barrier Reef, Australia; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Fernanda De Faria

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C; Contrasting movements and patterns of habitat use in reef-associated sharks: implications for management and conservation; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Mario Espinoza

Heupel, M, Simpfendorfer, C; Long-term movement patterns of grey reef sharks in the Southern Great Barrier Reef; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Michelle Heupel

Munroe, S, Moloney, J, Heupel, M; Coastal habitat use of an abundant mesopredator revealed through telemetry and stable isotope analysis; Sharks international, 02/06/2014 - 06/06/2014, Durban, Presenter(s): Samantha Munroe

Currey, L, Heupel, M, Simpfendorfer, C; A mobile predator? Variable space and depth use patterns of an exploited coral reef fish; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Leanne Currey

Ledee, E, Tobin, A, Heupel, M, Simpfendorfer, C; Movement pattern and habitat use of giant trevally *Caranx ignobilis* in offshore reef habitats; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Elodie Ledee

Matley, J, Simpfendorfer, C, Heupel, M; Depth and space use of coral trout (*Plectropomus leopardus*) using passive acoustic tracking; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Jordan Matley

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

Schroeder, T, Lovell, J, Clementson, L, King, E; Evaluation of MODIS chlorophyll algorithms in Australian continental shelf waters: the IMOS match-up database; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Thomas Schroeder

Spillman, CM, Garde, L, Heron, SF, Beeden, R; ReefTemp Next Generation: A new operational system for monitoring thermal stress on the Great Barrier Reef; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Claire Spillman

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

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

Vila-Concejo, A, Harris, D; Morphological stability and sediment transport processes on sand aprons; 88th Australian Coral Reef Society Conference, 27/08/2014 - 29/08/2014, Brisbane, Presenter(s): Ana Vila-Concejo

Baird, ME, Wild-Allen, K, Mongin, M, Skerratt, J, Rizwi, F, Robson, B, Jones, EM, Schroeder, T; eReefs biogeochemical model assessment - ocean colour and in situ observations; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Mark Baird

Herzfeld, M, Gillibrand, P; Model optimization through development: the eReefs example; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Mike Herzfeld

Jones, EM, Baird, ME, Herzfeld, M, Oke, PR, Mongin, M, Parslow, J, King, E, Skerratt, J, Wild-Allen, K, Robson, B, Margvelashvili, N, Andrewartha, J; eReefs data assimilation - from the hydrodynamics to the biogeochemistry; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Emlyn Jones

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

Skerratt, J, Baird, ME, Mongin, M, Rizwi, F, Wild-Allen, K; Application of catchment load scenarios for management of coastal ecosystems; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Jenny Skerratt

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

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



Harris, D, Vila-Concejo, A, Webster, J; Wave processes on coral reef flats during modal and storm conditions; American Geophysical Union (AGU) Fall Meeting, 15/12/2014 - 19/12/2015, San Fransisco, Presenter(s): Daniel Harris

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

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

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

Baird, ME, Mongin, M, Jones, EM; An integrating observational and modelling systems for the management of the Great Barrier Reef; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Mark Baird

Clementson, L, Lynch, T; Providing high quality chlorophyll-a data streams from moored observing systems over broad spatial and temporal scales - part II; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): L Clementson

Courtney, T, Spillman, CM; Coastal and oceanographic influences on the Queensland (Australia) east coast saucer scallop (*Amusium balloti*) fishery; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Tony Courtney

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

Malthus, T; Where next with earth observation of coastal water quality?; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Tim Malthus

Reinke, J, Meynecke, J, Lemkert, C; Coastal fronts and upwelling areas utilised by migrating humpback whales, *Megaptera novaeangliae*; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Joshua Reinke

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

Weeks, S, Canto, M, Jaine, F, Brodie, J, Richardson, A; Unique sequence of events triggers manta ray feeding frenzy in the southern Great Barrier Reef, Australia; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Scarla Weeks

Wild-Allen, K, Rayner, M, Baird, ME; Fine-scale nutrient observations confirm simulated biogeochemical variability in estuarine, coastal and shelf systems; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Karen Wild-Allen

Bodrossy, L; Microbial cycling in marine waters around Australia; Applied and Environmental Microbiology Gordon research Conference, 12/07/2015 - 17/07/2015, Massachusetts, Presenter(s): Lev Bodrossy

Matley, J, Simpfendorfer, C, Tobin, A, Heupel, M; Niche partitioning of sympatric reef fish using passive acoustic telemetry; 3rd International Conference on Fish Telemetry (ICFT) / 5th Annual OTN Canada Symposium, 13/07/2015 - 17/07/2015, Halifax, Presenter(s): Jordan Matley

Baird, ME, Herzfeld, M, Wild-Allen, K, Margvelashvili, N, Skerratt, J, Mongin, M, Jones, EM, Rizwi, F, Robson, B; A coupled hydrodynamic, optical, sediment, biogeochemical model of coastal waters of the Great Barrier Reef: system behaviour and assessment; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Mark Baird

Benthuisen, J, Brinkman, GW, Tonin, H, Steinberg, C; Cool near-bottom intrusions in the Central Great Barrier Reef; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Jessica Benthuisen

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

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

Johnson, R; Biogeophysical remote sensing of the Great Barrier Reef; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Robert Johnson

Reinke, J, Meynecke, J, Lemkert, C; Coastal fronts and upwelling areas utilised by migrating humpback whales, *Megaptera novaeangliae*; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Joshua Reinke

Skerratt, J, Baird, ME, Mongin, M, Robson, B, Rizwi, F, Wild-Allen, K; The eReefs marine model suite: tools for better quantifying and understanding the Great Barrier Reef circulation and water quality; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Jenny Skerratt

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

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

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

Benthuisen, J, Tonin, H, Herzfeld, M; Freshening events and hypersaline conditions in the central Great Barrier Reef; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Jessica Benthuisen

Benthuisen, J, Tonin, H, Brinkman, R, Steinberg, C; Cool near-bottom intrusions in the Central Great Barrier Reef; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Jessica Benthuisen

Book, JW, Steinberg, C, Jones, N, Lowe, R, Ivey, GN, Pattiaratchi, C, Rice, AE; Glider observations of internal tide packets on the Australian Northwest Shelf; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Jeff Book

Minnett, P, Zhu, X, Beggs, H, Steinberg, C; Satellite remote sensing of sea-surface temperature over the Great Barrier Reef; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Peter Minnett

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

Mongin, M, Baird, ME, Tilbrook, B, Matear, R, Lenton, A, Herzfeld, M, Wild-Allen, K, Skerratt, J, Margvelashvili, N, Robson, B, Duarte, CM, Gustafsson, M, Ralph, P, Steven, A; The exposure of the Great Barrier Reef to ocean acidification; 4th Oceans in a high CO<sub>2</sub> World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): Mathieu Mongin

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

Brinkman, R, Tonin, H, Herzfeld, M, Rizwi, F, et. al.; Informing catchment management plans to improve coastal water quality: an application of numerical models and observing systems in the Great Barrier Reef; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Richard Brinkman

Dechnik, B, Webster, J, Nothdurft, L, Webb, GE, et. al.; Successive phases of reef flat development throughout the holocene: influence of hydrodynamic energy and sea-level change on the Great Barrier Reef; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): B Dechnik

Espinoza, M; Resource partitioning and trophic relationships of large predatory fishes in a coral reef ecosystem; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Mario Espinoza

Heupel, M; Drivers in reef shark movement: what's most important? ; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Michelle Heupel

Matley, J; Using complimentary sampling methods to address similar questions: resource and habitat use of sympatric coral trout; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Jordan Matley

Schlaff, A; The effects of environmental factors on blacktip reef sharks, *Carcharhinus melanopterus*, on an inshore reef; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Audrey Schlaff

Scott, M; Effects of temperature on in situ behaviour and activity of coral trout, *Plectropomus leopardus* on the Great Barrier Reef, Australia; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Molly Scott

Williams, S, Pizarro, O, Bryson, M; Multi-year surveying of coral reefs using Autonomous Underwater Vehicles; 13th International Coral Reef Symposium (ICRS), 19/06/2016 - 24/06/2016, Hawaii, Presenter(s): Stefan Williams

Spencer, D, Brown, IW, Lemkert, C, Lee, SY; Could upwelling be enhancing short-term spanner crab (*Ranina ranina*) catchability?; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): David Spencer

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

Spillman, CM, Wachenfeld, D, Pearce, A, Pears, R; It's getting hot in here: Monitoring and predicting this summer's bleaching event on the Great Barrier Reef; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Claire Spillman

Steinberg, C, Benthuyesen, J, Herzfeld, M, Tonin, H, et, al.; Responding to the 2016 mass coral bleaching event on the Great Barrier Reef: from observations to modelling; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Craig Steinberg

Heupel, M; Drivers of reef shark movement: what's most important?; American Elasmobranch Society Conference, 06/07/2016 - 10/07/2016, New Orleans, Presenter(s): Michelle Heupel

Heupel, M; A moving target: marine protected area conservation of reef sharks; 4th International Marine Conservation Congress, 30/07/2016 - 03/08/2016, St. John's, Presenter(s): Michelle Heupel

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

Steinberg, C; Physical oceanographic influences on tropical reef and continental shelf fish from IMOS observations; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): Craig Steinberg

Benthuyesen, J, Furnas, M, Spagnol, S; Intrusive upwelling in the Central Great Barrier Reef; AMOS/MSNZ Conference and ANZ Climate Forum 2017, 07/02/2017 - 10/02/2017, Canberra, Presenter(s): Jessica Benthuyesen

Steinberg, C, Benthuyesen, J, Tonin, H, et, al.; Marine heat wave leading to a mass coral bleaching event on the Great Barrier Reef: from monitoring to modelling; AMOS/MSNZ Conference and ANZ Climate Forum 2017, 07/02/2017 - 10/02/2017, Canberra, Presenter(s): Craig Steinberg

Woizniak, M, Baird, ME, Schroeder, T, Clementson, L, Jones, EM; Variation of optical properties at Lucinda Jetty Coastal Observatory and its input into an optical model of coastal waters in Great Barrier Reef region; European Geosciences Union (EGU) General Assembly, 23/04/2017 - 28/04/2017, Vienna, Presenter(s): Monika Woizniak

Adams, K; The soft sediment impediment: can marine reserves protect elasmobranch species in sandy habitats? ; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): Kye Adams

Bierwagen, S; Niche partitioning and space use of reef predators in the Central Great Barrier Reef; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): Stacy Bierwagen

Braccini, M; Acoustic monitoring reveals the broad-scale movements of commercially important sharks; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): J. Matias Braccini

Knott, N; Are open coastal sediment fishes always highly mobile? An assessment of the movement patterns of the bluespotted flathead; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): Nathan Knott

Patterson, T, et, al.; Estimating juvenile white shark mortality from a continental scale array; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): Toby Patterson

Scott, M; The effects of temperature on activity and habitat use of coral trout, *Plectropomus leopardus*, on the Great Barrier Reef; 4th International Conference on Fish Telemetry, 19/06/2017 - 23/06/2017, Cairns, Presenter(s): Molly Scott

Antoine, D, Schroeder, T, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurements; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): David Antoine

Baird, ME; The biogeochemical state of the Great Barrier Reef (2013-2016): results from a re-analysis using the eReefs model; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Mark Baird

Benthuyesen, J; Extreme marine warming across tropical Australia during austral summer 2015-2016; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Jessica Benthuyesen

Brinkman, R; Sustainable Development of the North's Blue Economy – the role of IMOS to date, and into the future; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Richard Brinkman

Clementson, L; 4 years of observational data from LJCO; an assessment of the bio-optical variability in GBR coastal waters; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): L Clementson

Govekar, P; Use of ACSPO VIIRS L3U SST in the Australian Bureau of Meteorology; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Pallavi Govekar

Harcourt, R; IMOS Animal Tracking, 10 years of age and going strong; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Rob Harcourt

Heupel, M; Exploring national-scale fish movements through the IMOS Animal Tracking Facility; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Michelle Heupel

Richardson, A; A decade of IMOS Plankton Observations; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Anthony Richardson

Schroeder, T, Clementson, L, Woizniak, M, Baird, ME, et, al.; Four years of observational data from the Lucinda Jetty Coastal Observatory (LJCO): An assessment of the bio-optical variability in GBR coastal waters; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Thomas Schroeder

Skerratt, J; Changes in water quality from 2010 to 2016 throughout the Great Barrier Reef; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Mathieu Mongin

Skerratt, J; Integrating models into water quality decisions; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Jenny Skerratt

Smith, G; Sea Surface Temperature Forecasts for evaluating Coral Bleaching Risk in the Great Barrier Reef; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Grant Smith

Tonin, H; Mass Coral bleaching in the far northern region of the Great Barrier Reef and Torres Strait – a numerical modelling study; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Hemerson Tonin

Bainbridge, S; GBR Sensor networks; CREON (Coral Reef Environmental Observatory Network) 8, Santa Barbara, Presenter(s): Scott Bainbridge

Heron, M; Coastal Ocean Radars: Results and Applications; IEEE Oceanic Engineering Distinguished Lecturer Series, University of Waikato, Hamilton, Presenter(s): Mal Heron

Matley, J, Simpfendorfer, C, Tobin, M, Fisk, AT, Heupel, M; Niche partitioning of sympatric coral trout determined by stable isotopes and acoustic telemetry; College of Marine and Environmental Sciences Conference, James Cook University, Townsville, Presenter(s): Jordan Matley

### Conference Poster

Bridge, T, Bongaerts, P, Englebert, N, Sampayo, E, Ridgway, K, Rodriguez-Lanetty, M, Williams, S, Pizarro, O, Webster, J, Hoegh-Guldberg, O; Scleractinian corals and their associated symbiodinium on mesophotic coral ecosystems of the Great Barrier Reef; 11th International Coral Reef Symposium, 07/07/2008 - 11/07/2008, Fort Lauderdale

Townsend, K, Couturier, L, Bennett, M, Weeks, S; Oceanic conditions, chlorophyll-a and zooplankton: exploring the reasons for seasonal migrations of manta rays in Southern Queensland Waters; Oceania Chondrichthyan Society Conference, 22/09/2008 - 24/09/2008, Sydney, Presenter(s): Kathy Townsend

Bridge, T, Webster, J, Beaman, R, Abbey, E, Williams, S, Pizarro, O, Woolsey, E, Thornborough, K, Done, T; Hexacoral and Octocoral Communities on the Unexplored Great Barrier Reef Shelf-Edge; Deepsea Coral Symposium 2008, 01/12/2008 - 05/12/2008, Wellington

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

Bainbridge, S, Steinberg, C, Heron, M, Rigby, P; The role of observation systems in coral reef monitoring and management; 2009 Joint Assembly, 24/05/2009 - 27/05/2009, Toronto

Steinberg, C, McAllister, F, McLean, CM, Brinkman, GW, Pitcher, C, Luetchford, J, Rigby, P; The Great Barrier Reef Ocean Observing System: monitoring the Western Boundary Currents of the Coral Sea and impacts on the Great Barrier Reef; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Bainbridge, S, Eggeling, D; Application of Wireless Sensor Networks to Coastal Observing Systems - An Example From the Great Barrier Reef; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Bainbridge, S, Steinberg, C, Furnas, M, Heron, M; GBROOS - An ocean observing system for the Great Barrier Reef; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

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

McAllister, F, Steinberg, C, Brinkman, GW, Pitcher, C, Luetchford, J, Rigby, P; The Great Barrier Reef Ocean Observing System moorings array: monitoring Coral Sea impacts on the Great Barrier Reef; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Couturier, L, Bennett, M, Townsend, K, Richardson, A, Weeks, S; Residency, site fidelity and habitat use of the manta ray, *Manta alfredi*, at Lady Elliot Island, Australia: Application of mixed effects models on acoustic telemetry data; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Lydie Couturier

Jaine, F, Couturier, L, Bennett, M, Townsend, K, Richardson, A, Weeks, S; Going with the flow: Horizontal movements of the plankton-feeding manta ray *Manta alfredi* and links to dynamics and productivity of the East Australian Current; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Fabrice Jaine

Jaine, F, Weeks, S, Townsend, K, Richardson, A, Bennett, M; Movements of the plankton-feeding manta ray *Manta alfredi* and dynamics of the East Australian current ; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Fabrice Jaine

Slotwinski, A, Coman, F, Davies, C, Hosie, G, McLaughlin, J, McLeod, DJ, Tonks, M, Strzelecki, J, Richardson, A; Plankton observing in Australia: the Australian Continuous Plankton Recorder (AusCPR) survey; 5th International Zooplankton Production Symposium, 14/03/2011 - 18/03/2011, Pucon

Udyawer, V, Knip, D, White, J, Heupel, M, Simpfendorfer, C; Evacuation of a coastal bay: movement patterns of elasmobranch in response to Tropical Cyclones Anthony and Yasi; Australian Society for Fish Biology, 22/07/2011 - 24/07/2011, Townsville

White, J, Heupel, M, Simpfendorfer, C, Tobin, A; Assessing the susceptibility of *Glaucostegus typus*, *Rhynchobatus australiae* and *Anoxypristis cuspidata* to commercial fishing activity; Australian Society for Fish Biology, 22/07/2011 - 24/07/2011, Townsville

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

Picone, MS, Swadling, K, Richardson, A, Coman, F, Slotwinski, A, Davies, C, Tonks, M, Gusmao, LFM, Rochester, W; Seasonal and latitudinal changes in the zooplankton community composition along the East Australia Current: The AusCPR survey; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Rigby, P, Steinberg, C, McAllister, F, Luetchrford, J, Bartlett, C, Tonin, H, Herzfeld, M; Q-IMOS observations of extreme marine conditions under Tropical Cyclone Yasi; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Paul Rigby

Steinberg, C, McAllister, F, Rigby, P, Luetchrford, J, Brinkman, GW, Bartlett, C, Brinkman, R, Tonin, H, Herzfeld, M; Q-IMOS monitoring of currents along the outer Great Barrier Reef; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns

Tonin, H, Steinberg, C, Rigby, P, Brinkman, R, Herzfeld, M; Q-IMOS and eReefs: a partnership to monitor the currents along the Great Barrier Reef; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Hemerson Tonin

Wyatt, LR, Jaffres, JBD, Heron, M; Averaging requirements and other data quality issues for HF radar wave and wind direction measurement; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Lucy Wyatt

Wild-Allen, K, MacDonald, L, Allen, S; High resolution nutrient observations off Heron Island ; Collaborative on Oceanographic Chemical Analysis (COCA) Workshop, 26/03/2013 - 29/03/2013, University of Hawaii, Honolulu, Presenter(s): Karen Wild-Allen

Ledee, E, Simpfendorfer, C, Heupel, M, Tobin, A; The utility of network analysis in studying aquatic animal movements: an example from two nearshore shark species; 33rd International Ethological Conference, 04/08/2013 - 08/08/2013, Newcastlegateshead, Presenter(s): Elodie Ledee

Luick, J, Mao, Y; Circulation in the Southern Great Barrier Reef studied through an integration of multiple remote sensing and in-situ measurements; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): John Luick

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A; Environmental drivers for movement of an exploited coral reef fish; Australian Society for Fish Biology & ASL Joint Congress, 30/06/2014 - 04/07/2014, Darwin, Presenter(s): Leanne Currey

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A; Environmental drivers for movement of an exploited coral reef fish; AIMS@JCU Seminar Day, 08/08/2014 - 08/08/2014, Townsville, Presenter(s): Leanne Currey

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

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A; A mobile predator? Variable space and depth use patterns of an exploited coral reef fish; 5th International Bio-Logging Science Symposium, 22/09/2014 - 26/09/2014, Strasbourg, Presenter(s): Leanne Currey

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A; Environmental drivers of depth use by an exploited reef fish; 5th International Bio-Logging Science Symposium, 22/09/2014 - 26/09/2014, Strasbourg, Presenter(s): Leanne Currey

Rigby, P, Steinberg, C, Williams, DK, Brinkman, GW, Brinkman, R, Tonin, H, Hughes, D; Real-time marine observing systems: challenges, benefits and opportunities in Australia's northern tropical seas; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Robson, B, Rizwi, F, Geoffroy, L, Brebion, J, Baird, ME, Skerratt, J, Mongin, M, Wild-Allen, K, Jones, EM, Margvelashvili, N, Herzfeld, M; The eReefs relocatable biogeochemical model (RECOM) and its parameter libraries; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

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

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

Currey, L, Heupel, M, Simpfendorfer, C, Williams, A; Environmental drivers for movement of an exploited coral reef fish; North Queensland Festival of Life Sciences, 04/11/2014 - 04/11/2014, James Cook University, Townsville, Presenter(s): Leanne Currey

King, E, Hardman-Mountford, NJ, Hodge, J; ChloroGIN: developments for the Australasian and Indonesian Seas Region; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Edward King

Steinberg, C, Williams, DK, McAllister, F, Rigby, P, Spagnol, S, Brinkman, R, Benthuyesen, J, Pattiaratchi, C, Wijffels, S, Sloyan, B, Feng, M; Toward sustained ocean observing across tropical northern Australian shelf seas; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Craig Steinberg

Rigby, P, Steinberg, C, Williams, DK, Brinkman, GW, Brinkman, R, Tonin, H, Hughes, D; Real-time Marine Observing Systems in Australian Tropical Seas; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Paul Rigby

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

Rigby, P, Steinberg, C, Williams, DK, Brinkman, GW, McAllister, F, Spagnol, S, Luetchford, J, Bartlett, C, Brinkman, R, Tonin, H, Hughes, D; Real-time marine observing systems: challenges, benefits and opportunities in Australian coastal waters; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Paul Rigby

Skerratt, J, Baird, ME, Mongin, M, Robson, B, Rizwi, F, Wild-Allen, K; The eReefs marine model suite: tools for better quantifying and understanding the Great Barrier Reef circulation and water quality; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Jenny Skerratt

Steinberg, C, Williams, DK, McAllister, F, Rigby, P, Spagnol, S, Brinkman, R, Benthuyesen, J, Pattiaratchi, C, Wijffels, S, Sloyan, B, Feng, M, Book, JW; Toward sustained ocean observing across tropical northern Australian shelf seas; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Craig Steinberg

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

Jones, EM, Margvelashvili, N, Mongin, M, et, al.; Integrating observational and modelling systems for the management of the Great Barrier Reef; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Emlyn Jones

Bassani, C, Cazzaniga, I, Manzo, C, et, al.; Atmospheric and adjacency correction of Landsat-8 imagery of inland and coastal waters near AERONET-OC sites; ESA Living Planet Symposium, 09/05/2016 - 13/05/2016, Prague

Spencer, D, Brown, IW, Lemkert, C; A new perspective on the effects of ambient temperature on spanner crab (*Ranina ranina*) catchability in South East Queensland; 13th Annual Meeting, Asia Oceania Geosciences Society (AOGS), 31/07/2016 - 05/08/2016, Beijing, Presenter(s): David Spencer

Benthuyesen, J, Tonin, H, Herzfeld, M; Freshening events and hypersaline conditions in the central Great Barrier Reef; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

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

Makarynsky, O, Williams, DK, Makarynska, D, Negri, A; Using data from NRS Darwin for improved hydrodynamic and hydrocarbon spill modelling assessments; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Tonin, H, Steinberg, C, Brinkman, R, Evans-Illidge, L; Improving water security for Great Palm Island - a preliminary study towards implementation of desalination plant; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Hemerson Tonin

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

Antoine, D, Schroeder, T, Botha, N, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurements; International Ocean Colour Science Meeting, 15/05/2017 - 18/05/2017, Lisbon, Presenter(s): David Antoine

### **Course Presentation**

Richardson, A; The power of plankton; CSIRO Education Program presentation, 19/08/2015 - 19/08/2015, Brisbane, Presenter(s): Anthony Richardson

Richardson, A; Plankton from the IMOS National Reference Station and Moreton Bay; Student presentation, 21/08/2015 - 21/08/2015, North Stradbroke Education Centre, North Stradbroke Island, Presenter(s): Anthony Richardson

Richardson, A; Plankton around Australia: the IMOS program; CSIRO Education Vacation Program , 30/09/2015 - 30/09/2015, Brisbane, Presenter(s): Anthony Richardson

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

### **Key Note Speaker**

Heron, M; HF ocean surface radar: successes, developments and challenges; Ocean Sciences Meeting, 20/02/2006 - 24/02/2006, Honolulu, Presenter(s): Mal Heron

Bainbridge, S; Sensor Networks in the real world - ten lessons from the Great Barrier Reef; 6th International Conference on Intelligent Sensors, Sensor Networks and Information Processing - ISSNIP 2010, 07/12/2010 - 10/12/2010, Queensland University of Technology, Brisbane, Presenter(s): Scott Bainbridge

### **Meeting Presentation**

Brando, V, Dekker, AG, Schroeder, T, Blondeau-Patissier, D, Park, Y-J, Clementson, L, Cherukuru, N, Daniel, P; Optical complexity of the coastal waters of the Great Barrier Reef: Strategies to incorporate regional and seasonal knowledge of optical properties; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Heupel, M, Simpfendorfer, C, Knip, D, Chin, A, White, J; Spatial ecology of nearshore elasmobranchs; Joint Meeting of Ichthyologists and Herpetologists, 07/07/2010 - 12/07/2010, Providence

Knip, D, Heupel, M, Simpfendorfer, C, Maloney, J, Tobin, A; Site fidelity and habitat use of the spot-tail shark (*Carcharhinus sorrah*) in a tropical nearshore environment; Joint Meeting of Ichthyologists and Herpetologists, 07/07/2010 - 12/07/2010, Providence

Bainbridge, S; GBROOS - Sensor Networks on the Great Barrier Reef; CREON (Coral Reef Environmental Observatory Network) 6 Meeting, 13/09/2010 - 16/09/2010, Taipei, Presenter(s): Scott Bainbridge

Brando, V; Overview of the AERONET-OC LICO site and IMOS SRS-OC Cal/Val activities; 23rd CEOS Calibration and Validation Working Group Meeting, 19/10/2010 - 19/10/2010, Ispra, Presenter(s): Vittorio Brando

Bainbridge, S, Eggeling, D, Page, G; Sensor Networks - integrate or perish; CREON (Coral Reef Environmental Observatory Network) 7 Meeting, 07/12/2010 - 10/12/2010, Brisbane, Presenter(s): Scott Bainbridge

Brando, V; Use of overview of the AERONET-OC LICO data for Cal/Val activities; Hyperspectral Imager for the Coastal Ocean (HICO), First Users Meeting, 22/02/2011 - 22/02/2011, Alexandria, Presenter(s): Vittorio Brando

Heupel, M, Mapleston, A, Simpfendorfer, C; Going over the wall: fate of stocked barramundi; 92nd Meeting of the American Society of Ichthyologists and Herpetologists, Vancouver, Presenter(s): Michelle Heupel

Schroeder, T; National remote sensing data sets; QIMOS Node Meeting, 07/12/2012 - 07/12/2012, Brisbane, Presenter(s): Thomas Schroeder

Schroeder, T; Ocean colour validation in Australian waters; QIMOS Node Meeting, 07/12/2012 - 07/12/2012, Brisbane, Presenter(s): Thomas Schroeder

Wyatt, LR; ACORN present and future; QIMOS Node Meeting, 07/12/2012 - 07/12/2012, Brisbane, Presenter(s): Lucy Wyatt



Miles, E, Spillman, CM, Mcintosh, P, Church, JA; Seasonal sea-level anomaly predictions in the Western Pacific; Asia-Oceania Geosciences Society Annual Meeting, 24/06/2013 - 28/06/2013, Brisbane, Presenter(s): Claire Spillman

Munoz Mas, C, Steinberg, C, Coleman, G, McAllister, F, Rigby, P, Tonin, H; IMOS profiling CTD Data: implementation of an automated post-processing method; Australian National Mooring Network QC Summit Meeting, 11/12/2013 - 12/12/2013, Hobart, Presenter(s): C Munoz Mas

Steinberg, C, Brinkman, R, Babcock, R, Wild-Allen, K; Q-IMOS and eReefs update; FRDC project 2013/020 Physical Oceanographic Influences on Queensland Reef Fish and Scallops. Steering Committee Meeting, 13/12/2013 - 13/12/2013, Brisbane, Presenter(s): Craig Steinberg

Steinberg, C; Queensland Integrated Marine Observing System (Q-IMOS); FRDC project 2013/020 Physical Oceanographic Influences on Queensland Reef Fish and Scallops. Steering Committee Meeting, 13/12/2013 - 13/12/2013, Brisbane, Presenter(s): Craig Steinberg

Schroeder, T; Atmospheric correction over optically complex waters; IOCCG Working Group Meeting on Intercomparison of atmospheric algorithms over optically complex waters, 14/05/2014 - 15/05/2014, Wimereux, Presenter(s): Thomas Schroeder

Wild-Allen, K, MacDonald, L, Allen, S; High resolution nutrient observations off Heron Island; 6th EGO Meeting, 16/06/2014 - 17/06/2014, Kiel, Presenter(s): Karen Wild-Allen

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

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

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

Steinberg, C, Moltmann, T; Australia's Integrated Marine Observing System; Joint WMO-IOC Commission for Oceanography and Marine Meteorology DBCP PI-1, 04/05/2015 - 07/05/2015, Koror, Presenter(s): Craig Steinberg

Steinberg, C; Ocean Observing Design on Coral Reefs and Archipelagos: 3 case studies Scott Reef, Indian Ocean, Great Barrier Reef & Palau; Joint WMO-IOC Commission for Oceanography and Marine Meteorology DBCP PI-1, 04/05/2015 - 07/05/2015, Koror, Presenter(s): Craig Steinberg

Steinberg, C; Australia's Integrated Marine Observing System; GOOS Steering Committee 4, 24/05/2015 - 26/05/2015, Australian Institute of Marine Science, Townsville, Presenter(s): Craig Steinberg

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

Steinberg, C, Williams, DK, McAllister, F, Rigby, P, Spagnol, S, Skirving, WJ, Bird, J, Brinkman, R; Queensland and Northern Australia's Integrated Marine Observing System and the tidal hydrodynamics of a coral bleaching event; Don Wallace Memorial Lecture Permanent Committee on Tides and Mean Sea Level, 02/11/2015 - 02/11/2015, Cairns, Presenter(s): Craig Steinberg

Schroeder, T; CSIROs future application plan for Himawari-8; Asia-Pacific Regional Space Agency Forum(APRSAF), Space application working group meeting, 01/12/2015 - 01/12/2015, Bali, Presenter(s): Thomas Schroeder

Steinberg, C; Australia's marine observing services; Pacific Meteorological Council Second Pacific Islands Marine Observing Services Panel Meeting, 23/05/2016 - 23/05/2016, Noumea, Presenter(s): Craig Steinberg

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

Schroeder, T; Preliminary user feedback on sentinel-3A data, L1 data quality and L2 validation in Australia; Sentinel-3A expert users meeting, 28/06/2016 - 30/06/2016, Frascati, Presenter(s): Thomas Schroeder

Middleditch, A, Cosoli, S; Wave and wind measurements from HF radars in Australia; American Geophysical Union (AGU) Fall Meeting, 12/12/2016 - 16/12/2016, San Fransisco, Presenter(s): Simone Cosoli

Jones, EM, Baird, ME, Mongin, M, et, al.; Use of remote-sensing reflectance to constrain a data assimilating marine biogeochemical model of the Great Barrier Reef; ASLO 2017 Aquatic Sciences Meeting, 26/02/2017 - 03/03/2017, Honolulu, Presenter(s): Emlyn Jones

Steinberg, C, Tonin, H, Herzfeld, M, et, al.; A Torres Strait and Northern Great Barrier Reef Persistent Thermal Refugia from Mass Coral Bleaching; 98th Annual Meeting American Association for the Advancement of Science Pacific Division, 19/06/2017 - 23/06/2017, Waimea, Presenter(s): Craig Steinberg

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C; Contrasting movements and habitat connectivity in reef-associated sharks: implications for management; National Environmental Research Program Meeting, Cairns, Presenter(s): Mario Espinoza

Heupel, M, Simpfendorfer, C; Telemetry in the tropics; AATAMS Biannual Meeting, Sydney

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

### **Plenary Address**

Heron, M; The Australian Coastal Ocean Radar Network (ACORN); Marine Safety Conference, 26/05/2008 - 29/05/2008, Adelaide, Presenter(s): Mal Heron

Heupel, M; Trials and triumphs of tracking in coastal systems; International Conference on Fish Telemetry, 15/07/2013 - 19/07/2013, Grahamstown, Presenter(s): Michelle Heupel

Babcock, R; Moreton Bay acoustic tracking array ; AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Russ Babcock

### **Session Chair**

Workshop Chair - CREON workshop on the application of sensor networks to Coral Reef Systems: towards an International system of systems; 5th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), 07/12/2009 - 10/12/2009, Melbourne, Presenter(s): Scott Bainbridge

Session Co-Chairs - Advances in marine management; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney, Presenter(s): Scott Bainbridge, Douglas Cato

Session Co-Chairs - DVIM Data visualization and information management; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney, Presenter(s): Scott Bainbridge, Paulo de Souza

Session Co-Chair - Reef Climate Adaptation Research and Technology; The Second International Conference on Climate Change, 08/07/2010 - 10/07/2010, University of Queensland, Brisbane, Presenter(s): Scott Bainbridge

Meeting Co-Chair; CREON (Coral Reef Environmental Observatory Network) 6 Meeting, 13/09/2010 - 16/09/2010, Taipei, Presenter(s): Scott Bainbridge

Workshop Co-chair - Workshop on monitoring the impact of climate change on the environment; International Conference on Intelligent Robots and Systems (IROS 2010), 18/10/2010 - 22/10/2010, Taipei, Presenter(s): Scott Bainbridge

Meeting Co-Chair; CREON (Coral Reef Environmental Observatory Network) 7 Meeting, 07/12/2010 - 10/12/2010, Brisbane, Presenter(s): Scott Bainbridge

Workshop Co-Chair - ISSNIP-CREON workshop, Building coral reef sensor networks as systems of systems; 6th International Conference on Intelligent Sensors, Sensor Networks and Information Processing - ISSNIP 2010, 07/12/2010 - 10/12/2010, Queensland University of Technology, Brisbane, Presenter(s): Scott Bainbridge

### **Symposium Presentation**

Heupel, M; Trends in fish tracking: where are the fish going and how will we follow them?; Advances in Fish Tagging and Marking Technology, 24/02/2008 - 28/02/2008, Auckland, Presenter(s): Michelle Heupel

Speed, CW, Meekan, MG, Field, IC, Bradshaw, CJA; The Ningaloo Reef Ecosystem Tracking Array and reef shark movement patterns; Annual Ningaloo Research Symposium, 28/05/2008 - 29/05/2008, Perth

Andrefouet, S, Muller-Karger, F, Sheng, J, Steinberg, C, Douillet, P, Soto, I, Hatcher, BG, Ouillon, S, Yang, B, Choukroun, S, Dirbeg, G, Kranenberg, C, Moses, C; Interdisciplinary environmental assessments of coral reefs using remote sensing and numerical circulation models; 11th International Coral Reef Symposium, 07/07/2008 - 11/07/2008, Fort Lauderdale

Weeks, S, Steinberg, C, Congdon, BC; Whirlpools, hot water and hungry seabirds; 11th International Coral Reef Symposium, 07/07/2008 - 11/07/2008, Fort Lauderdale

Bainbridge, S; The Application of sensor networks to coastal monitoring: an example from the Great Barrier Reef; 6th China-Australia Symposium: Towards Sustainable Coastal and Deltaic Systems under Climate Change, 13/10/2009 - 15/10/2009, Guangzhou and Xiamen, Presenter(s): Scott Bainbridge

Babcock, R, Haywood, M, Williams, S; Submerged subtropical kelp habitat and the seasonal dynamics of the EAC; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Russ Babcock

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

Gillibrand, P, Mongin, M, Cahill, M, Tilbrook, B, Steinberg, C; Wave- and wind-driven circulation over Heron Island Lagoon in the Southern Great Barrier Reef: A Model Study; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Redondo-Rodriguez, A, Steinberg, C, Weeks, S; Variability of the surface South Equatorial Current bifurcation against the east Coast of Australia and its relationships with the boundary currents; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Ana Redondo-Rodriguez

Leahy, SM, Kingsford, MJ, Steinberg, C; Do clouds save the Great Barrier Reef?; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns

Spillman, CM, Heron, SF, Steinberg, C, Garde, L, Mahoney, M, Maynard, J, Skirving, WJ, Burgess, T, Eakin, M; Next-generation high-resolution thermal stress monitoring for the Great Barrier Reef; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns

Bowden, D; Locating the missing gestation aggregation site for critically endangered GNS, *Carcharias taurus*; Grey Nurse Shark Symposium, 21/09/2013 - 21/09/2013, Brisbane, Presenter(s): Deb Bowden

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

Baldry, K, Hardman-Mountford, NJ, Greenwood, J, Tilbrook, B; Remotely-sensed estimation of alkalinity in coastal waters around Australia; 4th Oceans in a high CO<sub>2</sub> World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): K Baldry

Espinoza, M, Heupel, M, Tobin, A, Simpfendorfer, C; Contrasting movements and habitat connectivity in reef-associated sharks: implications for management; Marine Science Symposium, San Jose, Presenter(s): Mario Espinoza

### **Workshop Presentation**

Steinberg, C, McLean, CM, McAllister, F, Bennet, B, Brinkman, GW, Choukroun, S; GBROOS Mooring Array; GBROOS Workshop, 11/05/2007 - 11/05/2007, Townsville

Steinberg, C, Brinkman, R; The status of physical oceanographic research in the GBR; AIMS Acidification Workshop, 11/03/2008 - 11/03/2008, Australian Institute of Marine Science, Townsville

Heron, M, Prytz, A; Oceans and Tides; GEOSS Users & Architecture Workshop XX: Oceans and Water, 07/04/2008 - 07/04/2008, Kobe

Heron, M, Mao, Y; Air-Sea Coupling by Stokes plus Stress; International Radiowave Oceanography Workshop 8 (ROW), 28/04/2008 - 02/05/2008, Honolulu

Heron, M; The Australian Coastal Ocean Radar Network (ACORN); International Radiowave Oceanography Workshop 8 (ROW), 28/04/2008 - 02/05/2008, Honolulu, Presenter(s): Mal Heron

Bainbridge, S; GBROOS - An ocean observing system for the Great Barrier Reef; GSSC-XII Workshop - Global and Regional Operational Oceanographic Systems: A Workshop to Explore Collaborative Benefits in the Indian, Asian, Southern Pacific and Australian Oceanic regions , 23/02/2009 - 24/02/2009, Perth, Presenter(s): Scott Bainbridge

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

Page, G, Heron, M, Prytz, A, Mazzoldi, A, Gacic, M, Cosoli, S; High spatial resolution radar observations at the Lido; International Radiowave Oceanography Workshop 9 (ROW), 19/05/2009 - 22/05/2009, Split, Presenter(s): Mal Heron

Steinberg, C; Climate change in the Australian marine environment; Climate Change Simulations Workshop - Simulations for CMIP5 (IPCC AR5) and the data requirements for Queensland and the wet tropical regions, 20/07/2009 - 21/07/2009, Port Douglas, Presenter(s): Craig Steinberg

Heupel, M, Simpfendorfer, C; Telemetry in the tropics; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Hutchinson, N, Rhodes, K; Home range estimates for squaretail coral grouper, *Plectropomus areolatus* (Rüppell 1830); AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Knip, D, Heupel, M, Simpfendorfer, C, Tobin, M, Maloney, J; Home range and movement patterns of juvenile pigeye sharks (*Carcharhinus amboinensis*) in Cleveland Bay, north Queensland; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Bainbridge, S; GBROOS – the Great Barrier Reef Ocean Observing System; Pacific Rim Applications and Grid Middleware Assembly (PRAGMA) 18 Workshop, 03/03/2010 - 04/03/2010, San Diego, Presenter(s): Scott Bainbridge

Brando, V; Overview of the AERONET-OC LICO site; AERONET-OC: 1st Workshop Overview and Future Developments, 23/02/2011 - 24/02/2011, Greenbelt, Presenter(s): Vittorio Brando

Steinberg, C; Throughflow (ITF) and Ningaloo National Reference Station (NRS); WAIMOS Science & Data Uptake Workshop, 25/02/2011 - 25/02/2011, University of Western Australia, Perth, Presenter(s): Craig Steinberg

Steinberg, C, Wijffels, S, Sloyan, B, Hill, K, Moltmann, T; IMOS Timor Leste Indonesian Through Flow Observations; Arafura and Timor Seas Expert Forum Workshop, 24/03/2011 - 24/03/2011, Dili, Presenter(s): Craig Steinberg

Bainbridge, S; Sensor networks and web services: opportunities for new infrastructure; Australia-EU Workshop on marine data information, 04/04/2011 - 05/04/2011, Brussels, Presenter(s): Scott Bainbridge

Bainbridge, S; Sensor networks and the internet of things; International Hack Event - the Internet of Things, 08/04/2011 - 08/04/2011, London, Presenter(s): Scott Bainbridge

Heron, M; The development and design of ACORN; ACORN Workshop, 14/06/2012 - 15/06/2012, James Cook University, Townsville, Presenter(s): Mal Heron

Jaffres, JBD; Wind climate in the southern GBR - local observations vs QuikSCAT and MesoLAPS; ACORN Workshop, 14/06/2012 - 15/06/2012, James Cook University, Townsville, Presenter(s): Jasmine Jaffres

Mantovanelli, A, Heron, M; Radar-based tracking of pollutants/larvae in the Coral Sea; ACORN Workshop, 14/06/2012 - 15/06/2012, James Cook University, Townsville, Presenter(s): Alessandra Mantovanelli

Jones, EM, Brinkman, R, Gillibrand, P, Herzfeld, M, Margvelashvili, N, Mongin, M, Rigby, P, Sharman, C, Timms, GP, Tonin, H, Wild-Allen, K; Australian coastal modelling and information systems: assisting management decision making; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Emlyn Jones

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

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

Garde, L, Spillman, CM, Alves, O; ReefTemp Next Generation: A Scientific Overview; eReefs Dashboard Users Workshop, 30/10/2012 - 30/10/2012, Townsville, Presenter(s): Luke Garde

Wild-Allen, K, MacDonald, L, Allen, S; High resolution nutrient observations off Heron Island; Collaborative on Oceanographic Chemical Analysis (COCA) Workshop, 26/03/2013 - 29/03/2013, University of Hawaii, Honolulu, Presenter(s): Karen Wild-Allen

Munoz Mas, C, Steinberg, C, McAllister, F, Rigby, P, Tonin, H, Herzfeld, M; Q-IMOS monitoring and eReefs modelling: a partnership to monitor the oceanography and water quality of the Great Barrier Reef; Australian Coral Reef Society Workshop, 28/08/2013 - 30/08/2013, Sydney, Presenter(s): C Munoz Mas

Tilbrook, B; Carbonate chemistry of the Great Barrier Reef and Coral Sea; Southern Ocean Acidification Workshop, 23/09/2013 - 23/09/2013, Australian Antarctic Division, Hobart, Presenter(s): Bronte Tilbrook

Brodie, S; The energetics and behaviour of yellowtail kingfish, *Seriola lalandi*; AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Stephanie Brodie

Meynecke, J; Going with the flow: migratory patterns of the female mud crab *Scylla serrata* (Forsk.); AATAMS Workshop, 12/11/2013 - 14/11/2013, North Stradbroke Island, Presenter(s): Jan-Olaf Meynecke

Tilbrook, B; Ocean carbonate chemistry of the Coral Sea and Great Barrier Reef; Ocean Acidification and Coral Reefs: Linking Science to Solutions Workshop II, 05/03/2014 - 06/03/2014, Brisbane, Presenter(s): Bronte Tilbrook

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

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

Sun, C, Steinberg, C, Zhang, X, Schiller, A; Long-term poleward trend of the Pacific South Equatorial Current; Centre for Australian Weather and Climate Research (CAWCR) Annual Workshop, 19/10/2015 - 22/10/2015, Bureau of Meteorology, Melbourne, Presenter(s): Charles Sun

King, E, Schroeder, T; IMOS ocean colour products; Satellite Oceanography Users Workshop, 09/11/2015 - 11/11/2015, Melbourne, Presenter(s): Edward King

Steinberg, C; Australia's Integrated Marine Observing System (IMOS) a decade on; WMO-IOC Joint Commission for Oceanography and Marine Meteorology Data Buoy Cooperation Panel PI-2 PANGEA workshop, 24/05/2016 - 27/05/2016, Noumea, Presenter(s): Craig Steinberg

Steinberg, C; Responding to the 2016 coral bleaching along the Great Barrier Reef: observations to modelling; WMO-IOC Joint Commission for Oceanography and Marine Meteorology Data Buoy Cooperation Panel PI-2 PANGEA workshop, 24/05/2016 - 27/05/2016, Noumea, Presenter(s): Craig Steinberg

Book, JW, Rowley, C, Rice, AE, Smith, S, Steinberg, C, Brinkman, R, Jones, N, Lowe, R, Ivey, GN, Pattiaratchi, C; Interpreting glider measurements of internal tide packets in coastal environment; Glider Workshop, 05/10/2016 - 05/10/2016, La Spezia, Presenter(s): Jeff Book

Baird, ME, Mongin, M, Skerratt, J, Wild-Allen, K, et, al.; eReefs marine modelling: an inter-governmental agency collaboration providing management-relevant estimates of ocean state and the impact of river loads; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Mark Baird

Brassington, GB, Tuteja, N, Stuart, G, Treleaven, J; eReefs: an integrated catchment and coastal forecasting system for the Great Barrier Reef; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Gary Brassington

Skerratt, J, Davies, C, Baird, ME, Richardson, A, Mongin, M, Wild-Allen, K, Eriksen, R, Robson, B; Phytoplankton and zooplankton in the GBR: insights from IMOS NRS observations and the eReefs model; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Jenny Skerratt

Spillman, CM, Steinberg, C, Benthuisen, J, et, al.; Monitoring and modelling this summer's extreme temperatures on the GBR leading to a mass coral bleaching event on the Great Barrier Reef; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Claire Spillman

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

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

Antoine, D, Schroeder, T, Botha, N, Cherukuru, N, Dekker, AG, Doblin, MA, Fearn, PRCS, Hardman-Mountford, NJ, Johnson, R, King, E, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurement; ESA workshop on options for future European satellite OCR vicarious adjustment infrastructure for the Sentinel-3 OLCI and Sentinel-2 MSI series, 21/02/2017 - 23/02/2017, Frascati, Presenter(s): David Antoine

Antoine, D, Schroeder, T, et, al.; Update on the Radiometry Task Team; ESA workshop on options for future European satellite OCR vicarious adjustment infrastructure for the Sentinel-3 OLCI and Sentinel-2 MSI series, 21/02/2017 - 23/02/2017, Frascati, Presenter(s): David Antoine

Heupel, M; IMOS ATF Task Team: updates on national scale analyses; 7th National IMOS Acoustic Tracking Workshop, 17/06/2017 - 17/06/2017, Cairns, Presenter(s): Michelle Heupel

Schlaff, A; Biological and environmental effects on activity space of a common reef shark on an inshore reef; Australian Coral Reef Society Annual Meeting, 16/07/2017 - 18/07/2017, Townsville, Presenter(s): Audrey Schlaff