

Argo floats

Sea Level Rise Program, Centre for Australian Weather and Climate Research , Antarctic Climate and Ecosystems Cooperative Research Centre, John Church

Climate Variability and Change Program, Centre for Australian Weather and Climate Research , Antarctic Climate and Ecosystems Cooperative Research Centre, Steve Rintoul

POAMA development: improving seasonal climate forecasting for Australia , Bureau of Meteorology, Oscar Alves, Harry Hendon

BlueLink II/III - ocean forecasting for Australia: Bluelink Regional Program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, D Griffin, Peter Oke, Eric Schulz, 2003-2013, Partner Institution(s): Royal Australian Navy

BlueLink II/III - ocean forecasting for Australia: Bluelink Global Program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, D Griffin, Peter Oke, Eric Schulz, 2003-2013

BlueLink II/III - ocean forecasting for Australia: Bluelink Littoral Zone Program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, D Griffin, Peter Oke, Eric Schulz, 2003-2013, Partner Institution(s): Royal Australian Navy

Australian Climate Change Science Program: Ocean Processes and Change, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, Steve Rintoul, Susan Wijffels, Bernadette Sloyan, 2003-2010

Ocean Control of Carbon Dioxide Oceans Change Program, Antarctic Climate and Ecosystems Cooperative Research Centre, Tom Trull

WAMSI Node 1: Southwest Australia marine ecosystem, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, John Keesing, Ming Feng, D Slawinski, 2006-2011

WAMSI Node 2: Leeuwin Current dynamics and variability, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, Ming Feng, D Slawinski, Liejun Zhong, 2006-2011

Modeling of source-sink relation of western rock lobster recruitment, Fisheries Research & Development Corporation, N Caputi, Ming Feng, E Weller, 2009-2011, Partner Institution(s): Department of Fisheries, CSIRO

Pacific Climate Change Science Program; Oceans Component - Ocean change, variability and sea level rise, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, Centre for Australian Weather and Climate Research , University of New South Wales, John Church, Susan Wijffels, Jaci Brown, Alexander Gupta, 2009-2012, Partner Institution(s): Pacific Island Countries

Environmental factors affecting the low puerulus settlements, Fisheries Research & Development Corporation, N Caputi, Ming Feng, 2010-2013

Australian Climate Change Science Program: Sea Level Rise, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, John Church, Susan Wijffels, 2010-2011

Research program: Mechanisms and attribution of past and future ocean circulation change, ARC Centre of Excellence for Climate System Science, Nathan Bindoff, Andrew Hogg, Matthew England, Dietmar Dommenget, David Karloy, Peter Strutton, Richard Matear, Anthony Hirst, Scott Power, Stephen Griffies, 2010-2017, Partner Institution(s): University of Tasmania, Australian National University, University of New South Wales, University of Melbourne, CSIRO Centre for Marine and Atmospheric Research, Geophysical Fluid Laboratory USA

Mixing parameters in the Southern Ocean determined by inverse methods, Commonwealth Scientific Industrial Research Organisation, Andrew Meijers, Trevor McDougall, Bernadette Sloyan, 2010-2012

Southern Ocean productivity and CO₂ exchange under current and future climate regimes, University of Tasmania, Peter Strutton, 2010-2014, Funding: ARC Future Fellowship

Ships of opportunity

WAMSI Node 2: Leeuwin Current dynamics and variability, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, Ming Feng, D Slawinski, Liejun Zhong, 2006-2011

GHRST Tropical Warm Pool Diurnal Variability Project, Centre for Australian Weather and Climate Research, Bureau of Meteorology, Helen Beggs, L Majewski, P LeBorgne, G Wick, S Castro, Carol Ann Clayson, C Gentemann, Rachel Weihs, Peter Steinle, Paul Sandery, Vaughan Barras, Chris Tingwell, M Martin, Partner Institution(s): NOAA, CSIRO, University of Colorado, Meteo-France, Met Office, Florida State University, Remote Sensing Systems, University of Edinburgh, Funding: BLUElink, Bureau of Meteorology

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

Coastal CO₂ data from Southern Surveyor used for determining the uptake of CO₂ and acidification in Australia's regional seas and the South Pacific, Commonwealth Scientific Industrial Research Organisation, Bronte Tilbrook, Mareva Kuchinke, Richard Matear, Andrew Lenton, 2009-2011, Partner Institution(s): Ausaid, DCCEE

Extreme tidal forcing of a topographically complex coastal region: the Kimberley, Australian Institute of Marine Science, University of Western Australia, Ryan Lowe, N Jones, Richard Brinkman, Funding: ARC

Ocean Carbon and Acidification, Commonwealth Scientific Industrial Research Organisation, Bronte Tilbrook, 2010-2011, Partner Institution(s): DCCEE

Upwelling, internal waves and nutrient supply at Ningaloo Reef, Australian Institute of Marine Science, University of Western Australia, Jim Falter, Ryan Lowe, Richard Brinkman, Funding: Australian Institute of Marine Science, University of Western Australia

NWP marine flux validation in the Australian region, Bureau of Meteorology, Eric Schulz, 2010-2012

WAMSI Node 2: Ningaloo, Australian Institute of Marine Science, University of Western Australia, Jim Falter, Ryan Lowe, Richard Brinkman, Partner Institution(s): AIMS, Funding: Australian Institute of Marine Science, West Australian Marine Science Institution

Deep water moorings

Response of pteropods to ocean acidification, University of Tasmania, Antarctic Climate and Ecosystems Cooperative Research Centre, D Roberts, W Howard, S Bray, Tom Trull, 2009-2012, Partner Institution(s): ACE CRC, Department of Climate Change

NWP marine flux validation in the Australian region, Bureau of Meteorology, Eric Schulz, 2010-2012

Building long-term climate quality air-sea flux record in Southern Ocean, Bureau of Meteorology, Eric Schulz

Ocean gliders

Deployment of ocean gliders as part of WAIMOS, University of Western Australia, Charitha Pattiaratchi, 2008-2011, Partner Institution(s): WAMSI, Funding: West Australian Marine Science Institution

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

New Insights From Ocean Gliders - Comparing Oceanographic Forcing of Phytoplankton Dynamics in Two Very Different Eastern Boundary Current Regions, University of Western Australia, University of Washington, Christine Hanson, Peter Rhines, Funding: University of Western Australia

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

Autonomous underwater vehicle

Rebuilding ecosystem resilience: Assessment of management options to minimise formation of 'Barrens' habitat by the long-spined sea urchin (*Centrostephanus rodgersii*) in Tasmania, University of Tasmania, Craig Johnson, 2007-2010, Partner Institution(s): DPIPWE

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

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

Establishment of a cost-effective monitoring program to detect changes in the structure of benthic invertebrate and macroalgae assemblages in the West Coast Bioregion, University of Western Australia, University of Sydney, D Smale, Gary Kendrick, E Harvey, 2010-2013, Funding: West Australian Marine Science Institution

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

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

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

Image-based automated macrobenthic species identification, counting and sizing, University of Sydney, Commonwealth Scientific Industrial Research Organisation, University of Tasmania, Stefan Williams, Oscar Pizarro, R Babcock, M Dunabin, 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, R Babcock, Neville Barrett, Mark Bravington, Brendan Brooke, J 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)

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

New South Wales, Funding: ARC Super Science Fellowship

National mooring network

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

WAMSI Node 2: Leeuwin Current dynamics and variability, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, Ming Feng, D Slawinski, Liejun Zhong, 2006-2011

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

WAMSI Node 1: Southwest Australia marine ecosystem, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, John Keesing, Ming Feng, D Slawinski, 2006-2011

A hydrodynamic/biogeochemical modelling facility for S.A., South Australian Research and Development Institute, John Middleton, 2008-2011, Partner Institution(s): Marine Innovation S.A., Flinders University, Funding: Marine Innovation S.A.

Modeling of source-sink relation of western rock lobster recruitment, Fisheries Research & Development Corporation, N Caputi, Ming Feng, E Weller, 2009-2011, Partner Institution(s): Department of Fisheries, CSIRO

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

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)

Receiving Water Quality Modelling, Australian Institute of Marine Science, Commonwealth Scientific Industrial Research Organisation, Richard Brinkman, M Herzfeld, 2009-2011, Partner Institution(s): GBRMPA, MTSRF, Funding: Marine and Tropical Sciences Research Facility (MTSRF)

Carrying Capacity for Spencer Gulf, South Australian Research and Development Institute, John Middleton, 2009-2012, Partner Institution(s): Fisheries research and Development Corporation, Flinders University, Funding: South Australian Research and Development Institute

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

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

Environment effects of western rock lobster recruitment, Fisheries Research & Development Corporation, N Caputi, Ming Feng, 2011-2013, Partner Institution(s): Department of Fisheries, CSIRO

Importance of Internal Waves in the Stimulation of Primary Productivity at Ningaloo Reef, University of Western Australia, Australian Institute of Marine Science, Ryan Lowe, N Jones, Richard Brinkman, Peter Strutton, 2011-2012, Partner Institution(s): UWA, AIMS, UTas, Funding: ANNIMS

WAMSI Node 2: Ningaloo, Australian Institute of Marine Science, University of Western Australia, Jim Falter, Ryan Lowe, Richard Brinkman, Partner Institution(s): AIMS, Funding: Australian Institute of Marine Science, West Australian Marine Science Institution

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

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

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

Ocean radar

New tools for managing ecosystem responses to climate change on the Southern Great Barrier Reef, James Cook University, O Hoegh-Guldberg, K Anthony, A Bakun, B Congdon, M Caley, S Dove, G Feldman, Mal Heron, R Johnstone, A Krockenburger, L McCook, A Strong, P Marshall, Diane DiMassa, 2007-2011

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

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

Diffusion on the Sea Surface, James Cook University, Mal Heron, 2012-2014, Funding: ARC

Animal tagging and monitoring

Foraging ecology of emperor penguins in summer and potential overlap with fisheries, Australian Antarctic Division, Barbara Wienecke, Jerry Kooyman, Yvon Le Maho, Graham Roberston, 2000-2013, Partner Institution(s): Scripps, CNRS France

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

Spatial management of reef fisheries and ecosystems: Understanding the importance of movement, University of Tasmania, Colin Buxton, 2004-2010, Partner Institution(s): DPIPWE, NT Fisheries

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

Predator research survey and monitoring in support of CCAMLR's management of the krill fishery, Australian Antarctic Division, Colin Southwell, Louise Emmerson, 2006-2012, Funding: Australian Antarctic Division

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

Winter foraging success of Southern Ocean predators in relation to stochastic variation in sea-ice extent and winter water formation, University of Tasmania, Mark Hindell, Mike Fedak, Iain Field, Christophe Guniet, Rob Harcourt, Clive McMahon, John Van Den Hoff, 2006-2012, Partner Institution(s): University of St Andrews, Macquarie University, CNRS France, Charles Darwin University, Australian Antarctic Division, Funding: Australian Antarctic Division

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

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

Winter Foraging Locations Of Southern Ocean Predators - sub antarctic islands, University of Tasmania, British Antarctic Survey, Mark Hindell, Mary-Anne Lea, Phil Trathan, 2007-2011, Partner Institution(s): AAD, Funding: Australian Antarctic Division

Rebuilding ecosystem resilience: Assessment of management options to minimise formation of 'Barrens' habitat by the long-spined sea urchin (*Centrostephanus rodgersii*) in Tasmania, University of Tasmania, Craig Johnson, 2007-2010, Partner Institution(s): DPIPWE

Habitat use and migration patterns of silvertip and grey reef sharks at the Rowley Shoals, Western Australia, Maquarie University, University of Adelaide, Iain Field, Mark Meekan, Corey Bradshaw, 2007-2009

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

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

Towards Integrated Multi-species management of Australia's SE Reef Fisheries: A Tasmanian example, University of Tasmania, Commonwealth Scientific Industrial Research Organisation, Stewart Frusher, 2007-2010, Partner Institution(s): DPIPWE

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

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

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

Habitat use and movement patterns of grey reef sharks in Palau, Australian Institute of Marine Science, Mark Meekan, Partner Institution(s): Micronesian Shark Foundation, Save Our Seas Foundation, University of Western Australia

Movement and migration of carp in the Murray-Darling basin, Fisheries Victoria, Paul Brown, 2008-2011, Partner Institution(s): Invasive Animals CRC, NSW I&I

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

Understanding movement patterns in key recreational species, University of Tasmania, Jeremy Lyle, 2008-2010, Partner Institution(s): Inland Fisheries Service

Understanding the vulnerability of key inshore and estuarine fish species: New opportunities with accelerometer telemetry, University of Tasmania, Jayson Semmens, 2008-2010, Partner Institution(s): Vemco

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

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

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

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

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

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

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

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

The impact of fish aggregating devices (FADs) on the movement and behaviour of tropical tuna (*Thunnus obesus*, *Katsuwonus pelamis* and *Thunnus elbacares*), University of Tasmania, Jayson Semmens, Stewart Frusher, Kilian Stehfest, 2010-2013, Funding: Holsworth Wildlife Research Endowment

Activity Patterns of Reef Sharks Assessed from Accelerometer Telemetry: Contributing to Understanding the Potential Impacts of Tourist Diving on Shark, University of Tasmania, Jayson Semmens, 2010-2014, Funding: Winifred Violet Scott Charitable Trust

Presence and residency of inshore teleosts within a Scientific Research Zone, Australian Institute of Marine Science, Michelle Heupel, Mike Cappo

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

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

Assessing the Effectiveness of Shark Nursery Area Closures for the Protection and Conservation of Coastal Shark Species, University of Tasmania, Jayson Semmens, Stewart Frusher, 2010-2014, Funding: Winifred Violet Scott Charitable Trust

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

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

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

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

Understanding the residence time and movement patterns of whaler sharks (*Carcharhinus* spp.) along the Adelaide metropolitan beaches, South Australian Research and Development Institute, Flinders University, Charlie Huveneers, P Rogers, Simon Goldsworthy, 2010-2012, Partner Institution(s): DENR

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

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

Pelagic ecosystem linkages in a changing Southern Ocean, Australian Antarctic Division, University of Tasmania, Maquarie University, Steve Nicol, Nick Gales, Mark Hindell, Rob Harcourt, 2011-2014, Funding: ARC Super Science Fellowship

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

Using Animal-borne Cameras to Quantify Prey Field, Habitat Characteristics and Foraging Success in a Marine Top Predator, Deakin University, John Arnould, Mark Hindell, Jayson Semmens, 2011-2013, Partner Institution(s): University of Tasmania, Funding: ARC

Understanding climate drivers and predicting the future for coast Australian ecosystems, University of Tasmania, Peter Strutton, Jayson Semmens, Caleb Gardner, 2011-2013, Partner Institution(s): UWA, JCU, Funding: Department of Education, Employment and Workplace Relations

Continued monitoring of chondrichthyan species in coastal areas of SE Australia: Assessing the effectiveness of shark nursery area closures for the protection & conservation of coastal shark species, University of Tasmania, Jayson Semmens, Jeremy Lyle, Adam Barnett, Colin Buxton, Stewart Frusher, 2011-2013, Funding: Save Our Seas Foundation

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

Acoustic tracking of top-order predators on offshore coral atolls of the NW Shelf, Australian Institute of Marine Science, Maquarie University, University of Western Australia, Mark Meekan, Rob Harcourt, 2011-2016

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

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

Wireless sensor networks

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

CREON Thailand Mooring, National Electronics and Computer Technology Centre, Scott Bainbridge, Mulica Jaroensutasine, P Srichaikul, 2010-2011, Partner Institution(s): Australian Institute of Marine Science, Walailak University, Funding: National Electronics and Computer Technology Centre

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

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

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 Innovation, Industry, Science and Research

SeaDroid: Low cost, real-time water temperature logging, National Oceanic and Atmospheric Administration, William Skirving, 2011-2012, Partner Institution(s): Australian Institute of Marine Science, Funding: National Oceanic and Atmospheric Administration

Next generation satellite tools for understanding change in coral reef ecosystems due to multiple global and local stressors, University of Queensland, O Hoegh-Guldberg, S 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

Marine information

Marine and Climate Data Discovery and Access Project (MACDDAP) NeAT Project, University of Tasmania, Nathan Bindoff, 2009-2011, Partner Institution(s): UTAS, BoM, CMAR, Architecta

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

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

Australia/EU marine information infrastructure collaboration, University of Tasmania, Roger Proctor, 2011-2011, Partner Institution(s): AIMS, CSIRO, ICT, UTAS, AAD, Funding: Department of Innovation, Industry, Science and Research

Satellite remote sensing

BlueLink II/III - ocean forecasting for Australia: Bluelink Global Program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, D Griffin, Peter Oke, Eric Schulz, 2003-2013

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

Reef Temp Project – GBRMPA web tool for predicting coral bleaching , University of Melbourne, J Maynard

Transient Coastal Upwelling Along Ningaloo Reef Project , University of Western Australia, Ryan Lowe

Animations of raw temperature and anomalies for all Commonwealth Marine Reserves to inform the review and revision, in particular, of management plans for the following Reserves: Ashmore, Cartier, Ningaloo, and Mermaid, University of Melbourne, J Maynard

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

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, J Poille, Partner Institution(s): Ifremer, Funding: European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)

CSIRO Marine and Atmospheric Research SST products - Testing use of IMOS HRPT AVHRR L2P products for production of CMAR SST composite products , Commonwealth Scientific Industrial Research Organisation, D Griffin, Partner Institution(s): Bureau of Meteorology

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

Including IMOS HRPT AVHRR L2P SST in Global 1 km SST Analysis (G1SST), North American Space Agency Jet Propulsion Laboratory, Yi Chao, Partner Institution(s): NASA JPL, Funding: North American Space Agency (NASA)