

# Animal tagging and monitoring



## Research Projects

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

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

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

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

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

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 Guniel, 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The impact of fish aggregating devices (FADs) on the movement and behaviour of tropical tuna (*Thunnus obesus*, *Katsuwonus pelamis* and *Thunnus elbacaes*), 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

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

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

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

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

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

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 Huvneers, 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

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

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

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

## 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 effect of abiotic variables on the field diving behaviour of the Arafura Filesnake (*Acrochordus arafurae*), University of Queensland; Kristin Pratt, Supervisor(s): Craig Franklin

Doctor of Philosophy (PhD), The role of higher trophic level predators on inshore ecosystems and t ... , University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Adam Barnett, 2006-2011, Supervisor(s): Jayson Semmens, John Stevens, Stewart Frusher

Doctor of Philosophy (PhD), Trophic ecology of the Manta ray in lagoonal systems of Ningaloo Reef WA, Murdoch University; Kenneth McGregor, 2006-2010, Supervisor(s): Mike Van Keulen, Anya Waite, Mark Meekan; Funding: Murdoch University, Australian Institute of Marine Science

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

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

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

Masters degree, Movements and habitat use of Freshwater Sawfish (*Pristis microdon*) and Northern River Shark (*Glyphis garricki*) in Western Australia, Murdoch University; Jeff Whitty, 2007-2010, Supervisor(s): David Morgan

Doctor of Philosophy (PhD), Optimising stock enhancement of mulloway *Argyrosomus japonicus*, University of New South Wales; Alexander Pursche, 2007-2011, Supervisor(s): Matt Taylor, Iain Suthers

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), Observed grouping behaviour in the mourning cuttlefish *Sepia plangon*: ... , Maquarie University, University of Tasmania, Museum Victoria; Candice McBride, 2008-2010, Supervisor(s): Jane Williamson, Jayson Semmens, Mark Norman

Doctor of Philosophy (PhD), The impact of fish aggregating devices (FADs) on the movement of two t ... , University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kilian Stehfest, 2009-2013, Supervisor(s): Jayson Semmens, Mark Hindell, Toby Patterson, Laurent Dagorn

Doctor of Philosophy (PhD), 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, 2009-2012, Supervisor(s): Kathy Townsend, Scarla Weeks, Anthony Richardson, 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), Demography and ecology of demersal stingrays at Ningaloo Reef, Western Australia, Murdoch University, Australian Institute of Marine Science; Owen O'Shea, 2009-2012, Supervisor(s): Mark Meekan, Mike Van Keulen; Partner Institution(s): AIMS, CSIRO, DEC, WA Fisheries, Eonfusion

Doctor of Philosophy (PhD), Spatial ecology of mobile predators in a tropical environment and its implications for Marine Protected Areas, James Cook University; D 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, 2009-2012, 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), 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

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

Doctor of Philosophy (PhD), Plasticity of mating systems in the giant Australian cuttlefish, *Sepia ...*, Macquarie University; Alex Schnell, 2010-2013, Supervisor(s): Rob Harcourt, Jayson Semmens, Roger Hanlon

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, University of Queensland; Nathalie Verlinden, 2010-2010, Supervisor(s): Kathy Townsend, Anthony Richardson, Mike Bennett, Scarla Weeks

Doctor of Philosophy (PhD), Investigating the Determinants of Population Structuring in the Temper ... , University of Tasmania; Jaime McAllister, 2010-2012, Supervisor(s): Jeremy Lyle, Jayson Semmens, Colin Buxton

Doctor of Philosophy (PhD), Investigating the foraging flights and chick growth in short-tailed sh ... , University of Tasmania; Jaimie Cleeland, 2010-2011, Supervisor(s): Mark Hindell, Mary-Anne Lea

Doctor of Philosophy (PhD), Study of factors influencing fish movements, University of Technoloy Sydney; Gwenael Cadiou, 2010-2014, Supervisor(s): David Booth; Partner Institution(s): NSW, I&I NSW, DECCW (Jervis Bay Marine Park); Funding: South Australian Research and Development Institute

Doctor of Philosophy (PhD), Recruitment and trophic processes of east coast blackfish: A changing role in a changing climate?, University of New South Wales; Jeromy Stocks, 2010-2013, Supervisor(s): Matt Taylor, Iain Suthers, Charles Gray; Partner Institution(s): NSW DPI, NSW RSFT; Funding: Department of Primary Industries, NSW

Doctor of Philosophy (PhD), Hydrographic drivers of migration patterns of large temperate estuarine predators, University of New South Wales; Dylan van der Meulen, 2010-2016, Supervisor(s): Matt Taylor, Philip Sutton, Charles Gray; Partner Institution(s): NSW DPI, UTS, NSW RFST; Funding: Department of Primary Industries, NSW

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

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

Doctor of Philosophy (PhD), 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, 2011-2015, Supervisor(s): Michelle Heupel, Colin Simpfendorfer; Funding: Australian Institute of Marine Science, James Cook University

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

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

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

Doctor of Philosophy (PhD), The vulnerability of whaler sharks to South Australian Fisheries, Flinders University; Michael Drew, 2011-2014, Supervisor(s): Charlie Huvaneers, Mark Meekan; Partner Institution(s): SARDI – Aquatic Sciences, AIMS, PIRSA

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

## Book

## Book Chapters

Bradford, RW, Bruce, B, Hobday, A 2012, Identifying juvenile white shark behaviour from electronic tag data, in M Domeier (eds.), *Global Perspectives on the Biology and Life History of the Great White Shark*, CRC Press, Boca Raton

Bruce, B, Bradford, RW 2012, Spatial dynamics and habitat preferences of juvenile white sharks in eastern Australia, in M Domeier (eds.), *Global Perspectives on the Biology and Life History of the Great White Shark*, CRC Press, Boca Raton

## Community White Papers / Technical Papers

## Conference Proceedings

O'Dor, R, Dagorn, L, Holland, K, Jonsen, I, Payne, J, Sauer, W, Semmens, J, Stokesbury, MJW, Smith, P, Whoriskey, F 2010, The Ocean Tracking Network, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2), Venice, Italy, 21-25 September 2009, Venice, Presenter: R O'Dor

## In Press

Lee, K, Huvaneers, C, Peddemors, V, Smith, F, Harcourt, R 2010, Coping with error: using fine-scale acoustic telemetry to assess the habitat use of wobbegong sharks, *PLoS One*

Field, IC, Harcourt, R, Boehme, L, de Bruyn, N, Charrassin, J-B, McMahon, C, Bester, M, Fedak, M, Hindell, MA 2011, Refining instrument attachment on phocid seals, *Marine Mammal Science*, doi:10.1111/j.1748-7692.2011.00519.x

## Journals

Barnett, A, Stevens, JD, Frusher, SD, Semmens, J 2010, Seasonal occurrence and population structure of the broadnose sevengill shark (*Notorynchus cepedianus*) in coastal habitats of south east Tasmania, *Journal of Fish Biology*, vol. 77, no. 7, pp. 1688-1701, doi:10.1111/j.1095-8649.2010.02810

Honda, K, Hobday, A, Kawabe, R, Tojo, N, Fujioka, K, Takao, Y, Miyashita, K 2010, Age-dependent distribution of juvenile southern blue fin tuna (*Thunnus maccoyi*) on the continental shelf off southwest Australia determined by acoustic monitoring, *Fisheries Oceanography*, vol. 19, no. 2, pp. 151-158, doi:10.1111/j.1365-2419.2010.00534.x

Fujioka, K, Hobday, A, Kawabe, R, Miyashita, K, Honda, K, Itoh, T, Takao, Y 2010, Interannual variation in summer habitat utilization by juvenile southern blue fin tuna (*Thunnus maccoyi*) in southern Western Australia, *Fisheries Oceanography*, vol. 19, no. 3, pp. 183-195, doi:10.1111/j.1365-2419.2010.00536.x

Fujioka, K, Kawabe, R, Hobday, A, Takao, Y, Miyashita, K, Sakai, O, Itoh, T 2010, Spatial and temporal variation in the distribution of juvenile southern blue fin tuna *Thunnus maccoyi*: implication for precise estimation of recruitment abundance indices, *Fisheries Science*, vol. 76, no. 3, pp. 403-410, doi:10.1007/s12562-010-0228-4

Barnett, A, Abrantes, K, Stevens, JD, Yick, JL, Frusher, SD, Semmens, J 2010, Inferring predator-prey relationships and foraging ecology of a marine apex predator with a wide temperate distribution, *Marine Ecology Progress Series*, vol. 416, pp. 189-200, doi:10.3354/meps08778

Speed, CW, Field, IC, Meekan, MG, Bradshaw, CJA 2010, Complexities of coastal shark movements and their implications for management, *Marine Ecology Progress Series*, vol. 408, pp. 275-293, doi:10.3354/meps08581

Semmens, J, Buxton, C, Forbes, E, Phelan, MJ 2010, Spatial and temporal use of spawning aggregation sites by the tropical sciaenid *Protonibea diacanthus*, *Marine Ecology Progress Series*, vol. 403, pp. 193-203, doi:10.3354/meps08469

Payne, N, Gillanders, B, Webber, D, Semmens, J 2010, Interpreting diel activity patterns from acoustic telemetry: the need for controls, *Marine Ecology Progress Series*, vol. 419, no. 295, doi:10.3354/meps08864

Barnett, A, Abrantes, K, Stevens, JD, Bruce, B, Semmens, J 2010, Fine-scale movements of the broadnose sevengill shark, and its main prey, the gummy shark, *PLoS One*, vol. 5, no. 12, doi:10.1371/journal.pone.0015464

Neuheimer, AB, Thresher, RE, Lyle, J, Semmens, J 2011, Tolerance limit for fish growth exceeded by warming waters, *Nature Climate Change*, vol. 1, pp. 110-113, doi:10.1038/nclimate1084

Taylor, M, Ko, A 2011, Monitoring acoustically-tagged king prawns *Penaeus (Melicertus) plebejus* in an estuarine lagoon., *Marine Biology*, vol. 158, pp. 835-844, doi:10.1007/s00227-010-1610-6

Field, IC, Meekan, MG, Speed, CW, White, W, Bradshaw, CJA 2011, Quantifying movement patterns for shark conservation at remote coral atolls in the Indian Ocean, *Coral Reefs*, vol. 30, no. 1, pp. 61-71, doi:10.1007/s00338-010-0699-x

Speed, CW, Meekan, MG, Field, IC, McMahon, C, Stevens, JD, McGregor, F, Huveneers, C, Berger, Y, Bradshaw, CJA 2011, Spatial and temporal movement patterns of a multi-species coastal reef shark aggregation, *Marine Ecology Progress Series*, vol. 429, pp. 261-275, doi:10.3354/meps09080

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

Welch, D, Melnychuk, MC, Payne, J, Rechisky, EL, Porter, AD, Jackson, GD, Ward, BJ, Vincent, S, Wood, CC 2011, In situ Measurement of Coastal Ocean Movements and Survival of Juvenile Pacific Salmon, *Proceedings of the National Academy of Sciences of the United States of America*, vol. 108, pp. 8708-8713

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

Payne, N, Gillanders, B, Semmens, J 2011, Breeding durations as estimators of adult sex ratios and population size, *Oecologia*, vol. 165, no. 2, pp. 341-347, doi:10.1007/s00442-010-1729-7

Payne, N, Gillanders, B, Seymour, RS, Webber, D, Snelling, EP, Semmens, J 2011, Accelerometry estimates field metabolic rate in giant Australian cuttlefish *Sepia apama* during breeding, *Journal of Animal Ecology*, vol. 80, no. 2, pp. 422-430, doi:10.1111/j.1365-2656.2010.01758.x

Barnett, A, Abrantes, K, Stevens, JD, Semmens, J 2011, Site fidelity and sex-specific migrations in a mobile apex predator: implications for conservation and ecosystem dynamics, *Animal Behaviour*, vol. 81, no. 5, pp. 1039-1048, doi:10.1016/j.anbehav.2011.02.011

## Reports

Barnett, A, Tracey, S, Semmens, J, Lyle, J, Stevens, JD, Forbes, E 2008, Movement patterns, habitat use and species interactions of key shark and finfish species in coastal systems, Comments: AATAMS Receiver Pool Yearly Reports

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

Field, IC, Bradshaw, CJA, Meekan, MG 2008, Habitat use and migration patterns of silvertip and grey reef sharks at the Rowley Shoals, Western Australia, Comments: AATAMS Receiver Pool Yearly Reports

Speed, CW, Meekan, MG, Field, IC, Huveneers, C, Harcourt, R, McCauley, R, Stevens, JD, McGregor, F, Bradshaw, CJA 2008, Monitoring reef shark movement patterns with the Ningaloo Reef Ecosystem Tracking Array, Comments: In Waples, K and Hollander, E. 2008. Ningaloo Research Progress Report: Discovering Ningaloo – latest findings and their implications for management

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

Speed, CW, Field, IC, Meekan, MG, Bradshaw, CJA 2009, Movement feeding and behaviour of reef sharks at Ningaloo Reef, Western Australia, 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

Barnett, A, Tracey, S, Semmens, J, Lyle, J, Stevens, JD, Forbes, E 2009, Movement patterns, habitat use and species interactions of key shark and finfish species in coastal systems, Comments: AATAMS Receiver Pool Half Yearly Reports

Bryars, S 2009, What size do Marine Protected Area Sanctuary Zones need to be in order to protect the Near-Threatened Western Blue Groper and Harlequin Fish? , Comments: AATAMS Receiver Pool Yearly Reports

Vianna, G, Meekan, MG, Pannell, D, Marsh, S, Meeuwig, J 2010, Wanted dead or alive? The relative value of reef sharks as a fishery and an ecotourism asset in Palau , Comments: Technical report for PEW Charitable Trust

Bruce, B, Bradford, RW 2011, Near-shore habitat use by juvenile white sharks in coastal waters off Port Stephens, Comments: Final report to HCRCMA

Bruce, B, Bradford, RW 2011, The effects of berley on the distribution and behaviour of white sharks at the Neptune Islands, SA, Comments: Final report to DENR SA

## Thesis

## Public Seminars

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

Huveneers, C; Australian Acoustic Tracking and Monitoring System (AATAMS); Vemco Presentation, 06/10/2007 - 07/10/2007, Vemco, Halifax, Presenter(s): Charlie Huveneers

Huveneers, C; Australian Acoustic Tracking and Monitoring System (AATAMS); Department of Primary Industries Victoria Presentation, 19/10/2007 - 19/10/2007, Department of Primary Industries Victoria, Melbourne, Presenter(s): Charlie Huveneers

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

Huveneers, C; Shark biology and ecology: overview of research experience; Flinders University Seminar, 06/05/2008 - 06/05/2008, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

Huveneers, C; Shark biology and ecology: overview of research experience; SARDI Public Seminar, 07/05/2008 - 07/05/2008, South Australian Research and Development Institute, Adelaide, Presenter(s): Charlie Huveneers

Meekan, MG; Tagging and tracking the world's largest fish; Siemens Science Seminars, Charles Darwin University, 06/06/2008 - 06/06/2008, Charles Darwin University, Darwin, Presenter(s): Mark Meekan

Harcourt, R, Huveneers, C; The Australian Acoustic Tagging and Monitoring System (AATAMS); AIMS Seminar, 23/06/2008 - 23/06/2008, Australian Institute of Marine Science, Darwin

Huveneers, C, Harcourt, R; The Australian Acoustic Tagging and Monitoring System (AATAMS); James Cook University Departmental Seminar, 26/06/2008 - 26/06/2008, James Cook University, Townsville

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

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

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

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

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

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

Bruce, B; De-mistifying great white sharks; Great Lakes Marine Discovery Series 2009, 17/06/2009 - 17/06/2009, Forster, Presenter(s): Bary Bruce

Bruce, B; Movement of white sharks around Australian waters; Port Stephens's Discoveries Series Seminar, 18/06/2009 - 18/06/2009, Port Stephens, Presenter(s): Bary Bruce

Hindell, MA; Foraging habitat of predators and areas of ecological significance in the Southern Ocean; IMAS Seminar Series, 23/06/2009 - 23/06/2009, University of Tasmania, Hobart, Presenter(s): Mark Hindell

Meekan, MG; Tracking whale sharks; University of Western Australia Extension Lecture Series, 25/06/2009 - 25/06/2009, University of Western Australia, Perth, Presenter(s): Mark Meekan

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

Huveneers, C; Shark ecology in South Australia; Community Connections Solutions Australia (CCSA) Fundraising Presentation, 18/12/2009 - 18/12/2010, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

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

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

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

Speed, CW; Movement, feeding and behaviour of reef sharks at Ningaloo Reef; University of Western Australia Oceans Institute Postgraduate Student Showcase, 16/04/2010 - 16/04/2010, University of Western Australia, Perth, Presenter(s): Conrad Speed

Goldsworthy, S; Using animal sensors to understand and monitor our marine environment; Institute of Marine Engineering, Science & Technology Presentation, 28/04/2010 - 28/04/2010, Adelaide, Presenter(s): Simon Goldsworthy

Bruce, B; De-mistifying great white sharks; Great Lakes Marine Discovery Series 2010 , 03/05/2010 - 03/05/2010, Forster, Presenter(s): Bary Bruce

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

Speed, CW; The trophic ecology of reef sharks using stable isotopes and telemetry; Independent talk for Ecology & Evolutionary Biology, University of Adelaide, 18/05/2010 - 18/05/2010, University of Adelaide, Adelaide, Presenter(s): Conrad Speed

Huveneers, C; Shark research in South Australia; University of the Third Age Club Presentation, 01/08/2010 - 01/08/2010, Flinders University, Adelaide, Presenter(s): Charlie Huveneers

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

Field, IC, Harcourt, R, Hindell, MA; Seals as indicators of biological changes in response to oceanographic variability in the Southern Ocean; SIMS Presentation, 15/09/2010 - 15/09/2010, Sydney Institute for Marine Science, Sydney, Presenter(s): Iain Field

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

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

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

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

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

Meekan, MG; Understanding whale sharks at Ningaloo Reef WA; Ningaloo Whale Shark Festival, 28/05/2011 - 28/05/2011, Exmouth, Presenter(s): Mark Meekan

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

## Conferences, Symposia or Workshops

### Conference Oral Presentation

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

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

McGregor, F, Van Keulen, M, Meekan, MG, Waite, A; Foraging Ecology and Population Dynamics of the manta ray *Manta birostris* in lagoonal waters of Ningaloo Reef WA; Joint Meeting of Ichthyologists and Herpetologists, 23/07/2008 - 28/07/2008, Montreal, Presenter(s): F McGregor

Meekan, MG; Tracking the world's largest fish; Coast to Coast Conference, 18/08/2008 - 22/08/2008, Darwin, Presenter(s): Mark Meekan

Speed, CW, Meekan, MG, Field, IC, Huveneers, C, Stevens, JD, McGregor, F, Berger, Y, Bradshaw, CJA; Reef shark movement patterns at Ningaloo Reef, WA; Coast to Coast Conference, 18/08/2008 - 22/08/2008, Darwin, Presenter(s): Conrad Speed

White, W, McCauley, R, Chidlow, J, McGregor, F, Pillans, R, Bradshaw, CJA; Reef shark movement patterns at Ningaloo Reef, Western Australia; Oceania Chondrichthyan Society Conference, 22/09/2008 - 24/09/2008, Sydney

Speed, CW, Meekan, MG, Field, IC, Bradshaw, CJA; Reef shark movement patterns at Ningaloo Reef, Western Australia; Greenhouse 2009: Climate Change and Resources, 23/03/2009 - 26/03/2009, Perth, Presenter(s): Conrad Speed

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

Meekan, MG; Patterns of habitat utilisation by reef sharks at offshore atolls; 8th Indo-Pacific Fish Conference, 31/05/2009 - 05/06/2009, Fremantle, Presenter(s): Mark Meekan

Speed, CW, Meekan, MG, Stevens, JD, Huveneers, C, Pillans, R, McCauley, R, McGregor, F, Bradshaw, CJA; Movement patterns of reef sharks at Ningaloo Reef; 8th Indo-Pacific Fish Conference, 31/05/2009 - 05/06/2009, Fremantle

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

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

Meekan, MG, Field, IC, Stevens, JD; Contrasting patterns in habitat use and migration of grey reef (*Carcharhinus amblyrhynchos*), hammerhead (*Sphyrna mokarran*) and tiger (*Galeocerdo cuvier*) sharks in Western Australia ; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide, Presenter(s): Mark Meekan

Barnett, A; Movement of broadnose sevengill sharks *Notorynchus cepedianus* in coastal areas of southeast Tasmania; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Adam Barnett

Cerutti, F; Movements and site fidelity of rays at Ningaloo Reef, Western Australia; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Floerncia Cerutti

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, Jaime, 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

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

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

Meekan, MG; Running on empty – how the world's largest fish sustains a planktivorous life style; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Mark Meekan

Meekan, MG; Whale sharks as animal-borne imaging platforms; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Mark Meekan

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

Speed, CW, Meekan, MG, Field, IC, McMahon, C, Stevens, JD, Huveneers, C, McGregor, F, Berger, Y, Bradshaw, CJA; Reef shark aggregation monitoring with acoustic telemetry at Ningaloo; Sharks International, 06/06/2010 - 11/06/2010, Cairns

Speed, CW; Reef shark aggregations at Ningaloo Reef; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Conrad Speed

Bestley, S, Rintoul, S, Charrassin, J-B; Seals reveal ocean-ice interaction in East Antarctica; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo

Field, IC, Harcourt, R, Sumner, MD, Hindell, MA; Insights from MEOP: Four dimensional foraging habitat of southern elephant seals from Macquarie Island; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo, Presenter(s): Iain Field

The MEOP Project: Marine Mammals Exploring the Oceans Pole to Pole; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo, Presenter(s): Mike Fedak

Payne, N, Semmens, J, Gillanders, B, Seymour, RS, Webber, D, Snelling, EP; Accelerometry reveals patterns in field metabolic rate of giant Australian cuttlefish *Sepia apama* during breeding; Society of Experimental Biology Conference, 30/06/2010 - 03/07/2010, Prague, Presenter(s): Jayson Semmens

Semmens, J, Webber, D, Frappell, PB, Hagg, J, Lyle, J, Buxton, C; Movement patterns, swimming speed and metabolic rate of a vulnerable temperate rocky-reef fish, *Cheilodactylus spectabilis* during the spawning season; Society of Experimental Biology Conference, 30/06/2010 - 03/07/2010, Prague, Presenter(s): Jayson Semmens

Hindell, MA; 3 dimensional Foraging habitats of top predators, and Areas of Ecological Significance, on the Kerguelen Plateau; SCAR Open Science Conference, 03/08/2010 - 06/08/2010, Buenos Aires, Presenter(s): Mark Hindell

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

Semmens, J, Webber, D, Forbes, E, Lyle, J, Buxton, C; New technology developments for understanding spatial and temporal activity patterns of fish in nature; 63rd Canadian Conference for Fisheries Research, 07/01/2011 - 09/01/2011, Winnipeg, Presenter(s): Jayson Semmens

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): R Babcock

Harcourt, R; Monitoring Apex Predators in the Southern Ocean; 7th Journées Scientifiques du CNFRA, 19/05/2011 - 20/05/2011, Paris, Presenter(s): Rob Harcourt

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

Payne, N, Gillanders, B, Semmens, J, Taylor, M; Accelerometry - An alternative to examining the frequency of acoustic detections; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Nicholas Payne

Semmens, J; Beyond presence/absence: Estimating field metabolic rates and swimming speeds with acoustic arrays; Ocean Tracking Network (OTN) Conference, 12/06/2011 - 18/06/2011, Halifax, Presenter(s): Jayson Semmens

Semmens, J, Payne, N, Webber, D, Bruce, B, Kock, A, Huveneers, C; Accelerometry estimates field metabolic rate in white sharks (*Carcharodon carcharias*) at pinniped colonies in South Australia; 1st International conference on Fish Telemetry, 12/06/2011 - 18/06/2011, Sapporo, Presenter(s): Jayson Semmens

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

Field, IC, Harcourt, R, Hindell, MA, Bestley, S, Lea, MA, Goldsworthy, S, Page, B, Williams, G, Boomer, A; The Australian Animal Tagging and Monitoring System (AATAMS): moving towards an integrated approach for ocean observing; International Union of Geophysics and Geology (IUGG) Earth on the Edge: Science for a Sustainable Planet, 28/06/2011 - 07/07/2011, Melbourne, Presenter(s): Iain Field

Cerutti, F, Meekan, MG, Austin, C, Stevens, JD, Bradshaw, CJA; Nurseries and movement patterns of juvenile stingrays at Ningaloo Reef WA; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Mark Meekan

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

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): F McGregor

Speed, CW; The trophic ecology of reef sharks using stable isotopes and telemetry; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Conrad Speed

Vianna, G, Meekan, MG, Pannell, D, Marsh, S, Meeuwig, J; Socio-economic and community benefits from shark diving tourism in Palau: a sustainable use of reef shark populations; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Gabriel Vianna

## Conference Poster

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

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

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

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

Bruce, B, Bradford, RW; The potential for aerial surveys of juvenile white sharks in eastern Australia; International White Shark Symposium, 07/02/2010 - 10/02/2010, Honolulu

Boomer, A, Huveneers, C, Goldsworthy, S, Hindell, MA, Semmens, J, Tattersall, K, Field, IC, Harcourt, R; Australian Animal Tagging and Monitoring System (AATAMS): higher predators providing sustained observations of the marine environment; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Cleeland, J, Hindell, MA, Lea, MA; The 'honeymoon' flights of the shot-tailed shearwater (*Puffinus tenuirostris*); Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Jaimie Cleeland

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

### **Key Note Speaker**

Bruce, B; Research on white sharks in Australian waters; Sharks International, 06/06/2010 - 11/06/2010, Cairns, Presenter(s): Bary Bruce

### **Meeting Presentation**

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

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

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

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

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 spottail shark (*Carcharhinus sorrah*) in a tropical nearshore environment; Joint Meeting of Ichthyologists and Herpetologists, 07/07/2010 - 12/07/2010, Providence

### **Plenary Address**

Goldsworthy, S, Page, B, Baylis, A, Bool, N, Caines, N, Daly, K, Einoder, L, Hamer, D, Huveneers, C, Lowther, A, McLeay, L, Peters, K, Roberts, P, Rogers, P, Wiebkin, A, Bulman, C, Ward, T; Marine connectivity of high trophic level predators in the eastern Great Australian Bight: linking spatial and temporal use to regional oceanographic features; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Meekan, MG; Running on empty – how the world's largest fish sustains a planktivorous life style; 85th Annual Australian Coral Reef Society (ACRS) Conference, 10/09/2010 - 12/09/2010, Coffs Harbour, Presenter(s): Mark Meekan

### **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

Speed, CW, Meekan, MG, Field, IC, Huveneers, C, Harcourt, R, McCauley, R, Stevens, JD, Bradshaw, CJA; Monitoring reef shark movement patterns with the Ningaloo Reef Ecosystem Tracking Array; Annual Ningaloo Research Symposium, 28/05/2008 - 29/05/2008, Perth

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

Bradford, RW, Hobday, A, Bruce, B; Identifying juvenile white shark behaviour from electronic tag data; International White Shark Symposium, 07/02/2010 - 10/02/2010, Honolulu, Presenter(s): R Bradford

Bruce, B; Research and conservation efforts on white sharks in Australian waters - current status and future directions; International White Shark Symposium, 07/02/2010 - 10/02/2010, Honolulu, Presenter(s): Bary Bruce

Meekan, MG; Movement patterns of whale sharks at Ningaloo Reef; WAMSI Show and Tell Symposium, 09/02/2010 - 09/02/2010, Fremantle, Presenter(s): Mark Meekan

Speed, CW; Movement, feeding and behaviour of reef sharks at Ningaloo Reef; WAMSI Show and Tell Symposium, 09/02/2010 - 09/02/2010, Fremantle, Presenter(s): Conrad Speed

Hindell, MA; Foraging habitats of top predators, and Areas of Ecological Significance, on the Kerguelen Plateau; International Science Symposium on the Kerguelen Plateau, 14/04/2010 - 16/04/2010, Concarneau, Presenter(s): Mark Hindell

McGregor, KF; Frazer Habitat utilisation and human conflict: a manta ray case study at Ningaloo Reef, Western Australia; Manta Ray Symposium, 01/06/2010 - 07/06/2010, Papeete, Presenter(s): Kenneth McGregor

Hindell, MA; From physics to predators: how Antarctic birds and mammals are influenced by the Southern Ocean; Phillip Law Commemorative Antarctic Science Symposium - Going South, 15/09/2010 - 15/09/2010, Melbourne, Presenter(s): Mark Hindell

Bradford, RW, Bruce, B, Boomer, A, Harcourt, R; The utility of broad-scale coastal sensor arrays in tracking continental scale movements of a top-order predator: Australia's tracking of white sharks; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): R Bradford

Harcourt, R, Field, IC, Hindell, MA, Lea, MA, Goldsworthy, S, Page, B, Boomer, A; The Australian Animal Tagging and Monitoring System (AATAMS): time for us to grow up and share the data; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Rob Harcourt

Meekan, MG; The Use of Visual Media with Data in Bio-logging; an example in whale sharks; Biologging IV Workshop - The use of Visual Media with Data in Biologging, 16/03/2011 - 16/03/2011, Hobart, Presenter(s): Mark Meekan

### **Workshop Presentation**

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

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

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

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

Abecasis, D; Multispecies spatial dynamics under different protection levels: An evaluation of the effects and optimal design of the Luiz Saldanha Marine Park (Portugal); AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): D Abecasis

Bruce, B; Using acoustic telemetry to track the movements of white sharks; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Bary Bruce

Crook, D; Diadromous migrations of short finned eels and tupong in Victorian coastal streams; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): D Crook

Duffy, C, Francis, M, Montgomery, J; Proposed acoustic array at Stewart Island; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Field, IC, Meekan, MG, Bradshaw, CJA; Habitat use and residency patterns of grey reef sharks (*Carcharhinus amblyrhynchos*) at the Rowley Shoals, Western Australia; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

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

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

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

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

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

Otway, N, Ellis, MT, Loudon, BM, Gilligan, JJ; Using acoustic telemetry to obtain experimental, observer-independent assessments of the effects of scuba diving on grey nurse sharks; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

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

Pederson, H, Leith, A, Gillespie, W, Tracey, S, Forbes, E, Semmens, J, Field, IC; Identifying patterns and relationships in acoustic telemetry data through 4D data fusion and visualization; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Pillans, R, Babcock, R; Using acoustic tracking data for testing Marine Park zoning adequacy in the Ningaloo Marine Park; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Reinfelds, I, Walsh, C; Magnitude, frequency and duration of environmental flows to stimulate catadromous fish migrations: Australian bass (*Macquaria novemaculeata*); AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Simpfendorfer, C; The joys of interpreting VR2 data; AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): Colin Simpfendorfer

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

Stokesbury, MJW; Update on the Ocean Tracking Network (OTN); AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney, Presenter(s): M Stokesbury

Williams, A, Daley, R; Listening in the deep sea: an array of VR2s that tracks movements of demersal sharks on the upper continental slope (200-700 m depths); AATAMS Data Workshop, 02/11/2009 - 04/11/2009, Sydney Institute for Marine Science, Sydney

Williams, G; New insights into polynya dynamics from Seal-mounted CTDs; SASSI Workshop, International Polar Year Science Conference, 07/06/2010 - 07/06/2010, Oslo, Presenter(s): Guy Williams

Field, IC, Harcourt, R, Hindell, MA; Biologging and the Australian Acoustic Tracking and Monitoring System (AATAMS); Ocean Tracking Network (OTN) Data Management Committee Workshop, 06/11/2010 - 07/11/2010, Halifax, Presenter(s): Iain Field

Meekan, MG; Tracking mega-fauna in the north-west of Australia; WAIMOS Science & Data Uptake Workshop, 25/02/2011 - 25/02/2011, University of Western Australia, Perth, Presenter(s): Mark Meekan

Meekan, MG; Tracking megafauna at Ningaloo Reef; AATAMS Biennial Workshop, 08/07/2011 - 08/07/2011, Fremantle, Presenter(s): Mark Meekan

Speed, CW; Ecology of reef sharks at Ningaloo; AATAMS Biennial Workshop, 08/07/2011 - 08/07/2011, Fremantle, Presenter(s): Conrad Speed