

No Associated Node - Integrated Marine Observing System



Research Projects

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

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 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

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

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

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

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

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

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

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

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

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

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

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

Postgraduate Research Projects

Doctor of Philosophy (PhD), Large-Scale Multi-Sensor 3D Reconstructions and Visualisations of Unstructured Underwater Environments, University of Sydney; Matthew Johnson-Robertson, 2005-2009, Supervisor(s): Stefan Williams, Oscar Pizarro

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

Doctor of Philosophy (PhD), Bathymetric simultaneous localisation and mapping, University of Sydney; Stephen Barkby, 2007-2011, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Observed grouping behaviour in the mourning cuttlefish *Sepia plangon*: evidence of social interactions, Macquarie University, University of Tasmania, Museum Victoria; Candice McBride, 2008-2010, Supervisor(s): Jane Williamson, Jayson Semmens, Mark Norman

Doctor of Philosophy (PhD), Water Column Current Profile Aided Localisation for Autonomous Underwater Vehicles, University of Sydney; Lashika Medagoda, 2008-2012, Supervisor(s): Stefan Williams, Michael Jakuba

Doctor of Philosophy (PhD), Autonomous habitat classification using Gaussian Mixture Models, University of Sydney; Daniel Steinberg, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro, Michael Jakuba

Doctor of Philosophy (PhD), Learning Predictive Habitat Models using Bathymetry, Seabed Terrain Features and Optical Imagery, University of Sydney; Nasair Ashan, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro, Michael Jakuba

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

Doctor of Philosophy (PhD), Adaptive Exploration Of Benthic Habitats Using Gaussian Processes, University of Sydney; Asher Bender, 2009-2013, Supervisor(s): Stefan Williams, Michael Jakuba

Doctor of Philosophy (PhD), Rugosity, Slope and Aspect from Bathymetric Stereo Image Reconstructions, University of Sydney; Ariell Friedman, 2009-2013, Supervisor(s): Stefan Williams, Oscar Pizarro

Doctor of Philosophy (PhD), Diurnal variability in shallow waters of coral reefs, University of Miami; Xiaofang Zhu, Supervisor(s): P Minnett

Doctor of Philosophy (PhD), Heterogeneous Multiple Agent Planning for Autonomous Underwater Operations, University of Sydney; Lachlan Toohey, 2010-2014, Supervisor(s): Stefan Williams, Michael Jakuba

Doctor of Philosophy (PhD), Light Field Processing and its Application to Autonomous Underwater Vehicle Navigation, University of Sydney; Donald Dansereau, 2010-2014, Supervisor(s): Stefan Williams, Oscar Pizarro

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), Investigating the Determinants of Population Structuring in the Temperate Reef Fish *Cheilodactylus spectabilis*, University of Tasmania; Jaime McAllister, 2010-2012, Supervisor(s): Jeremy Lyle, Jayson Semmens, Colin Buxton

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

Doctor of Philosophy (PhD), In-Situ Hyperspectral Imaging using Autonomous Underwater Vehicles for Habitat Classification, University of Sydney; Daniel Bongiorno, 2011-2015, Supervisor(s): Stefan Williams, Oscar Pizarro

Book Chapters

Williams, S, Pizarro, O, Mahon, I, Johnson-Robertson, M 2009, Simultaneous localisation and mapping and dense stereoscopic seafloor reconstruction using an AUV, in G Pappas, V Kumar, O Khatib (eds.), *Experimental Robotics XI: The Eleventh International Symposium*, Springer, Berlin, pp.407-416

Bonnefond, P, Haines, BJ, Watson, C 2011, In situ Absolute Calibration and Validation - A link from Coastal to Open-Ocean Altimetry, in S Vignudelli, AG Kostianoy, P Cipollini, J Benveniste (eds.), *Coastal Altimetry*, Springer, Berlin, pp.259-296

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

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

Community White Papers / Technical Papers

Pouliquen, S, Schmid, C, Wong, A, Guinehut, S, Belbeoch, D; 2010, Argo Data Management, *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2)*, Venice, Italy, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.69

Smith, S, Rettig, J, Rolph, J, Hu, J, Kent, E, Schulz, E, Verein, R, Rutz, S, Paver, C; 2010, The Data Management System for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative, *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2)*, Venice, Italy, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.83

de La Beaujardiere, J, Beegle-Krause, C, Bermudez, L, Hankin, S, Hazard, L, Howlet, E, Le, S, Proctor, R, Signell, R, Snowden, D, Thomas, J; 2010, Ocean and Coastal Data Management, *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 1)*, Venice, Italy, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.22

Seim, H, Dahlin, H, Meyers, G, Shuford, R, Proctor, R; 2010, Development of Delivery of Services From Ocean Observing Systems - An Opportunity to Promote Common Approaches for a Global Ocean Observing System, *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 1)*, Venice, Italy, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.77

Conference Proceedings

Johnson-Robertson, M, Pizarro, O, Williams, S 2007, Towards Three-Dimensional Heterogeneous Imaging Sensor Correspondence and Registration for Visualization, *Proceedings of the IEEE Oceans 2007 Conference*, Aberdeen, May 2007, Aberdeen

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

Pizarro, O, Colquhoun, J, Rigby, P, Johnson-Robertson, M, Williams, S 2008, Towards Image-based Marine Habitat Classification, Proceedings of the IEEE Oceans 2008 Conference, Quebec, Canada, September 2008, Quebec City

Williams, S, Pizarro, O, Webster, J, Beaman, R, Johnson-Robertson, M, Mahon, I, Bridge, T 2008, AUV-assisted Surveying of Relic Reef Sites, Proceedings of the IEEE Oceans 2008 Conference, Quebec, Canada, September 2008, Quebec City

Williams, S, Pizarro, O, Mahon, I, Johnson-Robertson, M 2008, Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV, Proceedings of the International Symposium on Experimental Robotics 2008, Athens, Greece, Athens

Barkby, S, Williams, S, Jakuba, M 2009, An efficient approach to bathymetric SLAM, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, St. Louis

Rao, D, Williams, S 2009, Large-scale path planning for underwater gliders in ocean currents, Proceedings of the 2009 Australasian Conference on Robotics and Automation, Sydney

Pizarro, O, Williams, S, Colquhoun, J 2009, Topic-Based Habitat Classification Using Visual Data, Proceedings of the MTS/IEEE Oceans 2009, Bremen, Germany, May 2009, Bremen

Pender, L, Trull, T, McLaughlin, D, Lynch, T 2010, Pulse - a mooring for mixed layer measurements in the open ocean and extreme weather, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney

Hollings, B, Pattiaratchi, C, Woo, M, Hanson, CE 2010, Sustained oceanographic observations around Australia using autonomous ocean gliders, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney, Presenter: B Hollings

Steinberg, D, Williams, S, Pizarro, O, Jakuba, M 2010, Towards autonomous habitat classification using Gaussian Mixture Model, Intelligent Robots and Systems (IROS), 2010 IEEE/RSJ International Conference, Taipei

Medagoda, L, Jakuba, M, Pizarro, O, Williams, S 2010, Water column current profile aided localisation for autonomous underwater vehicles, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney, Presenter: Lashika Medagoda

Jakuba, M, Pizarro, O, Williams, S 2010, High resolution, consistent navigation and 3D optical reconstructions from AUVs using magnetic compasses and pressure-based depth sensors, Proceedings of the IEEE Oceans 2010, Sydney, May 2010, Sydney

Steinberg, D, Pizarro, O, Williams, S, Jakuba, M 2010, Dirichlet process mixture models for autonomous habitat classification, Proceedings of the IEEE Oceans 2010, Sydney, Australia, May 2010, Sydney

Johnson-Robertson, M, Pizarro, O, Williams, S 2010, Saliency ranking for benthic survey using underwater images, Proceedings of the 11th International Conference on Control, Automation, Robotics and Vision, ICARCV 2010, Singapore

Lynch, T, McLaughlin, D, Hughes, D, Darby, I, de Boer, P, Marouchos, A 2010, Overview of CSIRO Oceanographic Moorings, IEEE Proceedings Oceans 2010 - Seattle, Seattle

Dushaw, BD, Au, W, Beszczynska-Muller, A, Brainard, RE, Cornuelle, B, Duda, T, Dzieciuch, M, Forbes, A, Freitag, L, Gascard, J-C, Gavrilov, A, Gould, J, Howe, B, Jayne, S, Johannessen, O, Lynch, J, Martin, D, Menemenlis, D, Mikhalevsky, P, Miller, J, Moore, S, Munk, W, Nystuen, J, Odom, R, Orcutt, J, Rossby, T, Sagen, H, Sandven, S, Simmen, J, Skarsoulis, E, Southall, B, Stafford, K, Stephen, R, Vigness-Raposa, K, Vinogradov, S, Wong, KB, Worcester, P, Idquo, A 2010, A Global Ocean Acoustic Observing Network, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2), Venice, Italy, 21-25 September 2009, Venice

Atwater, DP, Heron, M 2010, Error Estimates for HF Ocean Radar Surface Currents, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney

Heron, M, Marrone, P 2010, Wind Direction Manifestation on HF Ocean Radar Echoes, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney

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

Bainbridge, S 2010, The Design Of A Novel Time Series Client For Ocean Data, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney, Presenter: Scott Bainbridge

Malthus, T, Brando, V, Jones, S, Held, A, Dekker, A 2010, Australian activities in calibration and validation for Hyperspectral sensors, Proceedings of Hyperspectral Workshop 2010, 17th-19th March, Frascati, Italy, Frascati

Hughes, D, Lynch, T, Pender, L, Sherlock, M 2010, A Robust Satellite telemetry system for IMOS moorings, Proceedings of the IEEE Oceans 2010 Conference, Sydney, May 2010, Sydney

Hughes, D, Lynch, T 2010, Update on Australia's National Reference Stations, IEEE Proceedings Oceans 2010 - Seattle, Seattle

Fang, C, Williams, S 2011, Probabilistic resurvey mission planning, Proceedings of the 2010 Australasian Conference on Robotics and Automation, Brisbane, Presenter: C Fang

Medagoda, L, Williams, S, Pizarro, O, Jakuba, M 2011, Localisation combined with view-based SLAM for Autonomous Underwater Vehicle navigation, Proceedings of the IEEE 2009 International Conference on Robotics and Automation Kobe, Japan, May 2009, Kobe

Medagoda, L, Williams, S 2011, Water Column Current Profile Aided Localisation combined with View-based SLAM for Autonomous Underwater Vehicle Navigation, Proceedings of the IEEE 2010 International Conference on Robotics and Automation Anchorage, USA, May 2010, Anchorage, Presenter: Donald Dansereau

Beall, C, Dellaert, F, Mahon, I, Williams, S 2011, Bundle adjustment in large-scale 3D reconstructions based in underwater robotic surveys, Proceedings of IEEE/OES Oceans 2011, Santander, Spain 6-9 June 2011, Santander

Mahon, I, Pizarro, O, Jakuba, M 2011, Reconstructing Pavlopetri: Mapping the World's Oldest Submerged Town using Stereo-vision, Proceedings of the IEEE 2010 International Conference on Robotics and Automation Anchorage, USA, May 2010, Anchorage, Presenter: Lashika Medagoda

Dansereau, D, Williams, S 2011, Seabed Modeling and Distractor Extraction for Mobile AUVs Using Light Field Filtering, Proceedings of the IEEE 2010 International Conference on Robotics and Automation Anchorage, USA, May 2010, Anchorage, Presenter: Donald Dansereau

Heron, M, Prytz, A 2011, The data archive for the phased array HF radars in the Australian Coastal Ocean Radar Network, Proceedings of IEEE/OES Oceans 2011, Santander, Spain 6-9 June 2011, Santander

In Press

Lee, K, Huveneers, 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

Hughes, D, Lynch, T 2011, Technical development of the Australian National Reference Stations, Sea Technology

Journals

Bathgate, J, Heron, M, Prytz, A 2007, A Method of Swell Wave Parameter Extraction from HF Ocean Surface Radar Spectra, Journal of Oceanic Engineering, vol. 31, no. 4, pp. 812-817, doi:10.1109/JOE.2006.886237

Gronell, A, Wijffels, S 2008, A Semiautomated Approach for Quality Controlling Large Historical Ocean Temperature Archives, Journal of Atmospheric and Oceanic Technology, vol. 25, no. 6, pp. 990-1003, doi:10.1175/JTECHO539.1

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

Oke, PR, Brassington, GB, Griffin, DA 2008, The Bluelink ocean data assimilation system (BODAS), Ocean Modelling, vol. 21, no. 1-2, pp. 46-70, doi:10.1016/j.ocemod.2007.11.002

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

Mahon, I, Williams, S, Pizarro, O, Johnson-Robertson, M 2008, Efficient view-based SLAM using visual loop closures, *IEEE Transactions on Robotics*, vol. 24, no. 5, pp. 1002-1014, doi:10.1109/TRO.2008.2004888

Mao, Y, Heron, M 2008, The Influence of Fetch on the Response of Surface Currents to Wind Studied by HF Ocean Surface Radar, *Journal of Physical Oceanography*, vol. 38, pp. 1107-1121, doi:10.1175/2007JPO3709.1

De Mey, P, Craig, P, Davidson, F, Edwards, CA, Ishikawa, Y, Kindle, JC, Proctor, R, Thompson, KR, Zhu, J, et, al. 2009, Applications In Coastal Modelling And Forecasting, *Oceanography*, vol. 22, no. 3, pp. 198-205

Cummings, J, Bertino, L, Brasseur, P, Fukumori, I, Kamachi, M, Martin, MJ, Oke, PR, Emmanuel Testut, C, Verron, J, Weaver, A 2009, Ocean Data Assimilation Systems for GODAE, *Oceanography*, vol. 22, no. 3, pp. 96-109, doi:10.5670/oceanog.2009.69

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

Hill, K, Moltmann, T, Proctor, R, Allen, S 2010, The Australian Integrated Marine Observing System: Delivering data streams to address National and International research priorities, *Marine Technology Society Journal*, vol. 44, no. 6, pp. 65-72, doi:10.4031/MTSJ.44.6.13

Rigby, P, Williams, S, Pizarro, O 2010, Towards Adaptive Benthic Habitat Mapping using Gaussian Process Classification, *Journal of Field Robotics*, vol. 27, no. 6, pp. 741-758, doi:10.1002/rob.20372

Steinberg, D, Bender, A, Friedman, A, Jakuba, M, Pizarro, O, Williams, S 2010, Analysis of propulsion methods for long range AUVs, *Marine Technology Society Journal*, vol. 44, no. 2, pp. 46-55, doi:10.4031/MTSJ.44.2.3

Johnson-Robertson, M, Pizarro, O, Williams, S, Mahon, I 2010, Generation and visualization of large scale three-dimensional reconstructions from underwater robotic surveys, *Journal of Field Robotics*, vol. 27, no. 1, pp. 21-51, doi:10.1002/rob.20324

Steinberg, D, Bender, A, Friedman, A, Jakuba, M, Pizarro, O, Williams, S 2010, Toward Selection of a Propulsion Method for a Long Range Benthic Imaging AUV, *Marine Technology Society Journal*, vol. 44, no. 2, pp. 46-55, doi:10.4031/MTSJ.44.2.3

Stachniss, C, Williams, S, Neira, J 2010, Editorial: Visual navigation and mapping outdoors, *Journal of Field Robotics*, vol. 27, no. 5, pp. 509-510, doi:10.1002/1.06.20358

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, 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

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

Proctor, R, Roberts, K, Ward, BJ 2010, A data delivery system for IMOS, the Australian Integrated Marine Observing System, *Advances in Geosciences*, vol. 28, pp. 11-16, doi:10.5194/adgeo-28-11-2010

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

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

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

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

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

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

Barkby, S, Williams, S, Pizarro, O, Jakuba, M 2011, A featureless approach to efficient bathymetric SLAM using distributed particle mapping, *Journal of Field Robotics*, vol. 28, no. 1, pp. 19-39, doi:10.1002/06.20372

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

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

Mancini, S 2010, Data products and visualisation through the IMOS Ocean Portal

Bax, N 2011, Commonwealth Environment research Facilities. Data used to predict origins of turtle deaths from beach strandings, Comments: Report to the Department of Sustainability, Environment, Water and Population and Communities, Canberra. Final Report 2007-2010

Public Seminars

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

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

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

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 Stephen's Discoverys Series Seminar, 18/06/2009 - 18/06/2009, Port Stephens, Presenter(s): Bary Bruce

Proctor, R; Marine observations and models, what can they do for you?; Annual Instructors Conference YA/RYA, 17/07/2009 - 17/07/2009, Brisbane, Presenter(s): Roger Proctor

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

Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV; University of Southern California Open Forum, 01/04/2010 - 01/04/2010, Los Angeles, Presenter(s): Stefan Williams

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

Ebeling, W, Gorringe, P; Australia's marine research on the map - literally!; AODN Seminar, 06/05/2011 - 06/05/2011, Canberra, Presenter(s): W Ebeling, Patrick Gorringe

Jakuba, M; Invited seminar for Deep Submergence Lab; Woods Hole Oceanographic Institute Seminar, Woods Hole Oceanographic Institute, Woods Hole, Presenter(s): Michael Jakuba

Jakuba, M, Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV; Centre for Marine Studies and Centre for Remote Sensing and Spatial Information Science Seminar, University of Queensland, Brisbane

Williams, S; Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV; Monterey Bay Aquarium Research Institute Seminar, Monterey Bay Aquarium Research Institute, Moss Landing, Presenter(s): Stefan Williams

Conferences, Symposia or Workshops

Conference Oral Presentation

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

Johnson, C; The Australian Ocean Data Network: The one-stop shop for Australian marine data and data products; SEE Grid 3 Conference, 30/11/2006 - 01/12/2006, Commonwealth Scientific Industrial Research Organisation, Canberra, Presenter(s): Craig Johnson

Johnson, C; The Australian Ocean Data Network: Building the e-Research Marine Science Information Infrastructure; eResearch Australasia, 26/06/2007 - 28/06/2007, Brisbane, Presenter(s): Craig Johnson

Johnson, C, Roberts, K; The Australian Ocean Data Network: The one-stop shop for Australian Marine Science Data; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): Craig Johnson

Williams, S, Pizarro, O, Johnson-Robertson, M, Mahon, I, Rigby, P, Barkby, S; IMOS—Integrated Marine Observing System: Integrating IMOS with underwater cultural heritage research; New Ground: Australian Archaeological Conference, 21/09/2007 - 26/09/2007, Sydney

Johnson-Robertson, M, Mahon, I, Pizarro, O, Williams, S; Generating Visually Consistent Benthic Surface Meshes Using Visual Features Matthew; OCEANS 2007 MTS/IEEE, 29/09/2007 - 04/10/2007, Vancouver

Rigby, P, Pizarro, O, Williams, S, Colquhoun, J; Effective Benthic Surveying with Autonomous Underwater Vehicles; OCEANS 2007 MTS/IEEE, 29/09/2007 - 04/10/2007, Vancouver

Johnson, C; eResearch Collaboration across the Pacific: Marine Systems and Australian Marine Science Data; APAC 07, 08/10/2007 - 12/10/2007, Perth, Presenter(s): Craig Johnson

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

Heron, M, Gill, EW, Prytz, A; A De-convolution Approach to Analysis of Double-peaked HF Radar Spectra; OCEANS 2008 MTS/IEEE - Kobe Techno-Ocean '08, 08/04/2008 - 11/04/2008, Kobe

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

Pizarro, O, Seiler, J, Bridge, T, Colquhoun, J, Barrett, N, Williams, S; Towards image-based habitat classification; GeoHab 2009, 05/05/2008 - 08/05/2009, Trondheim

Proctor, R, Roberts, K, Magierowski, R, Johnson, C; eMarine Information Infrastructure, Vision, Progress and Plans; Australian Marine Science Association Conference, 06/07/2008 - 09/07/2008, Christchurch, Presenter(s): Roger Proctor

Proctor, R; Developments in operational oceanography in Europe and Australia; Metocean Conference, 15/09/2008 - 17/09/2008, Taipei, Presenter(s): Roger Proctor

Turner, P; Distributed Gridded Data Delivery for Marine Research; eResearch Australasia, 28/09/2008 - 03/10/2008, Melbourne, Presenter(s): P Turner

Williams, S, Pizarro, O, Mahon, I, Johnson-Robertson, M; Habitat mapping using AUVs; Australia-Japan Marine Science Forum, 27/10/2008 - 30/10/2008, Australian Institute of Marine Science, Townsville

Proctor, R; The Australian Marine Observing System; European Geosciences Union (EGU) General Assembly, 19/04/2009 - 24/04/2009, Vienna, Presenter(s): Roger Proctor

Ridgway, K, Steinberg, C, Herzfeld, M, Schiller, A, Feng, M; Downscaling Climate Change to Heron Island on the GBR; Marine and Tropical Sciences Research Facility (MTSRF) Conference, 28/04/2009 - 30/04/2009, Townsville

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

Johnson-Robertson, M, Pizarro, O, Williams, S; Towards Large Scale, Integrated Optical And Acoustic AUV Survey; Underwater Acoustic Measurements (UAM): Technologies and Results, 3rd International Conference, 21/06/2009 - 26/06/2009, Nafpilon, Presenter(s): Stefan Williams

Doblin, M, Thompson, P, Hassler, C, Baird, ME, Suthers, I, Ralph, P; IMOS: The bridge between bio-optical data and modelled primary production; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Jakuba, M, Johnson-Robertson, M, Pizarro, O, Williams, S; Co-registered multibeam acoustic and photographic mapping of benthic environments with an AUV; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Barkby, S, Williams, S, Pizarro, O, Jakuba, M; Incorporating prior bathymetric maps with distributed particle bathymetric SLAM for improved AUV navigation and mapping; OCEANS 2009 MTS/IEE Biloxi Conference and Exhibition, 26/10/2009 - 29/10/2009, Biloxi

Proctor, R; A data delivery system for IMOS, the Australian Integrated Marine Observing System; eResearch Australasia, 09/11/2009 - 13/11/2009, Sydney, Presenter(s): Roger Proctor

Pizarro, O, Colquhoun, J, Moore, C, Radford, B, Williams, S, Jakuba, M, Heyward, A; Automated Benthic Habitat Classification from Optical Imagery; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland

Proctor, R; Delivering the Australian Ocean Data Network (AODN); Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong, Presenter(s): Roger Proctor

Ashan, N, Williams, S, Jakuba, M, Pizarro, O, Radford, B; Predictive habitat models from AUV-based multibeam and optical imagery; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Bender, A, Williams, S, Pizarro, O, Radford, B; Adaptive exploration of benthic habitats using gaussian processes; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Ebeling, W, Bonet, M, Walsh, A, Mak, P, Mosbauer, A, Edwards, L, Gorringer, P; Delivering the Australian Ocean Data Network (AODN); eResearch Australasia, 08/11/2010 - 12/11/2010, Gold Coast, Presenter(s): Matias Bonet, W Ebeling, Patrick Gorringer, Pauline Mak, Andrew Walsh

Proctor, R; The Australian Integrated Marine Observing System: marine data for researchers; eResearch Australasia, 08/11/2010 - 12/11/2010, Gold Coast, Presenter(s): Roger Proctor

Proctor, R, Bainbridge, S; The use of sensor networks for coastal monitoring within the Australian Integrated Marine Observing System; Australia-China Information and Communications Technology (ICT) Summit, 17/11/2010 - 19/11/2010, Hobart, Presenter(s): Roger Proctor

Proctor, R, Gorringer, P, Roberts, K; Australian Ocean Data Network (AODN): publicly funded data, publicly available; IEEE eScience Conference 2010, 07/12/2010 - 10/12/2010, Brisbane, Presenter(s): Roger Proctor

Proctor, R; Australian initiatives in marine information infrastructure; European Geosciences Union General Assembly, 07/04/2011 - 08/04/2011, Vienna, Presenter(s): Roger Proctor

Earp, A, Hanson, CE, Baird, ME, Brando, V, Allen, S, Clementson, L, Daniel, P, Humphries, J, Parslow, J, Ralph, P, Strutton, P, Suthers, I, Thompson, P, Underwood, M, Doblin, M; Calibrating and validating bio-optical signals from ocean sensors; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Conference Poster

Turner, P, King, E; The Australian Oceans DAAC; eResearch Australasia, 26/06/2007 - 28/06/2007, Brisbane

Proctor, R, Strain, B, Tattersall, K, Hope, J; eMarine Information Infrastructure (eMII) - bringing the data together; eResearch Australasia, 28/09/2008 - 03/10/2008, Melbourne, Presenter(s): Roger Proctor, Kate Roberts

Proctor, R, Meyers, G, Roughan, M; The Australian Integrated Marine Observing System; American Geophysical Union (AGU) Fall Meeting, 15/12/2008 - 19/12/2008, San Fransisco, Presenter(s): Roger Proctor

Proctor, R; The Australian Integrated Marine Observing System (IMOS) - a resource for modellers; ROMS/TOMS Meeting, 31/03/2009 - 02/04/2009, Sydney, Presenter(s): Roger Proctor

Johnson-Robertson, M, Pizarro, O, Williams, S; Large Scale Optical and Acoustic Sensor Integration for Visualization; IEEE Oceans 2009, 11/05/2009 - 14/05/2009, Bremen

Hill, K, Meyers, G, Moltmann, T, Proctor, R; The Australian Integrated Marine Observing System; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice, Presenter(s): Katy Hill

Proctor, R, Roberts, K, Bohm, P, Cameron, S, Hope, J, Jones, C, Mancini, S, Pepper, K, Tattersall, K, Ward, BJ, Williams, G, Mak, P, Goessmann, F; Information Infrastructure for the Australian Integrated Marine Observing System; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice, Presenter(s): Roger Proctor

Proctor, R, Tattersall, K, Mancini, S; eMarine Information Infrastructure (eMII) - bringing the data together; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice, Presenter(s): Sebastien Mancini

Williams, S, Pizarro, O, Jakuba, M, Mahon, I, Johnson-Robertson, M; Australia's Integrated Marine Observing System Autonomous Underwater Vehicle Facility; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Proctor, R, Roberts, K, Tattersall, K; The Integrated Marine Observing System - delivering data-streams to support marine research and applications ; eResearch Australasia, 09/11/2009 - 13/11/2009, Sydney, Presenter(s): Roger Proctor, Kate Roberts

Proctor, R, Tattersall, K, Mancini, S, Roberts, K; The Integrated Marine Observing System - delivering data-streams to support marine research and applications; Australian Meteorological and Oceanographic Society (AMOS) Conference, 27/01/2010 - 29/01/2010, Canberra, Presenter(s): Patrick Gorringer, Roger Proctor, Kate Roberts

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

Friedman, A, Pizarro, O, Williams, S; Rugosity, slope and aspect from bathymetric Stereo image reconstructions; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney

Medagoda, L, Jakuba, M, Pizarro, O, Williams, S; Water column current profile aided localisation for autonomous underwater vehicles; IEEE Oceans 2010, 24/05/2010 - 27/05/2010, Sydney

Ashan, N, Jakuba, M, Pizarro, O, Williams, S, Radford, B; Learning Predictive Habitat Models using Bathymetry, Seabed Terrain Features and Optical Imagery; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Bender, A, Williams, S, Pizarro, O, Jakuba, M; Adaptive Exploration Of Benthic Habitats Using Gaussian Processes; OCEANS 2010 MTS/IEEE , 20/09/2010 - 23/09/2010, Seattle

Proctor, R, Roberts, K, Tattersall, K, Mancini, S, Besnard, L; The Australian Integrated Marine Observing System: delivering data for marine researchers; eResearch Australasia, 08/11/2010 - 12/11/2010, Gold Coast, Presenter(s): Roger Proctor, Kate Roberts, Katherine Tattersall

Suber, K, King, E, Smith, G, Paget, M, Blain, P; Building the semantic web for gridded data ; eResearch Australasia, 08/11/2010 - 12/11/2010, Gold Coast, Presenter(s): Edward King

Proctor, R, Ebeling, W; Australian initiatives in marine information infrastructure; European Geosciences Union General Assembly, 07/04/2011 - 08/04/2011, Vienna, Presenter(s): Roger Proctor

Proctor, R, Hill, K; Australian initiatives in marine information infrastructure; 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): Katy Hill

Key Note Speaker

Heron, M; HF Ocean Surface Radar: Successes, Developments and Challenges; Ocean Sciences Meeting, 20/02/2006 - 24/02/2006, Honolulu, Presenter(s): Mal Heron

Proctor, R; National and international data management developments; WAMSI Marine Data Management Workshop: One Year On, Marine Data Management in WA, 29/10/2008 - 29/10/2008, Perth, Presenter(s): Roger Proctor

Proctor, R; The Australian Integrated Marine Observing System; International Conference on Marine Data and Information Systems, 29/03/2010 - 31/03/2010, Paris, Presenter(s): Roger Proctor

Meeting Presentation

Majewski, L; Status of SSES at the Bureau of Meteorology; 9th GHRSS-PP Science Team Meeting, 09/06/2008 - 13/06/2008, Perros-Guirec, Presenter(s): L Majewski

Proctor, R; IMOS, the Australian Integrated Marine Observing System; EuroGOOS (European Global Ocean Observing System) Annual Meeting, 07/10/2008 - 09/10/2008, Galway, Presenter(s): Roger Proctor

Proctor, R; IMOS, the Australian Integrated Marine Observing System; Northwest European Shelf Operational Oceanography System annual meeting, 16/10/2008 - 17/10/2008, Brest, Presenter(s): Roger Proctor

Thresher, A; Argo parameter naming conventions for technical files; Argo Data Management Meeting, 29/10/2008 - 31/10/2008, Honolulu, Presenter(s): Ann Thresher

Thresher, A; Australian Argo National Data Management Report; Argo Data Management Meeting, 29/10/2008 - 31/10/2008, Honolulu, Presenter(s): Ann Thresher

Williams, S, Pizarro, O; High Resolution Optical Surveying using an AUV; Australasian Hydrographic Society and The Society for Underwater Technology Technical Seminar - AUVs: Future Technologies & Emerging Markets, 30/10/2008 - 30/10/2008, Perth

Proctor, R; The Australian Integrated Marine Observing System; POL Seminar, 20/04/2009 - 24/04/2009, Proudman Oceanographic Laboratory, Liverpool, Presenter(s): Roger Proctor

Proctor, R; Update on IMOS; EuroGoos Board Meeting, 01/09/2009 - 02/09/2009, Copenhagen, Presenter(s): Roger Proctor

Proctor, R; Intrducing IMOS; OSPAR Eutrophication Meeting, 07/09/2009 - 09/09/2009, Brussels, Presenter(s): Roger Proctor

Proctor, R; Ships of Opportunity in IMOS; EuroGoos NOOS Meeting, 10/09/2009 - 11/09/2009, Brussels, Presenter(s): Roger Proctor

Thresher, A; Technical files updates; Argo Data Management Meeting, 30/09/2009 - 02/10/2009, Tolouse, Presenter(s): Ann Thresher

Proctor, R; IMOS and animal tagging; Sea Mammal Research Unit (SMRU), 13/04/2010 - 14/04/2010, St. Andrews University, St. Andrews, Presenter(s): Roger Proctor

Gorringe, P; The Australian IMOS; IOC Executive Council, 08/06/2010 - 16/06/2010, Paris, Presenter(s): Patrick Gorringe

Proctor, R; The UK/ European Experience; National Coastal Observation Meeting, 06/08/2010 - 06/08/2010, Sydney Institute for Marine Science, Sydney, Presenter(s): Roger Proctor

Proctor, R; The Australian Ocean Data Network (AODN) - developing the WA node; iVEC/WAMSI Data Management Meeting, 16/09/2010 - 16/09/2010, Perth, Presenter(s): Roger Proctor

Thresher, A; Determining time and position for profiles, technical files status, ARC report; Argo Data Management Meeting, 20/10/2010 - 22/10/2010, Hamburg, Presenter(s): Ann Thresher

Ebeling, W, Gorringer, P; Delivering the Western Australian AODN; AODN Seminar, 29/11/2010 - 29/11/2010, Perth, Presenter(s): W Ebeling, Luke Edwards

Ebeling, W, Gorringer, P; Australia's interface to open access marine data; AODN Seminar, 09/02/2011 - 09/02/2011, Centre for Australian Weather and Climate Research, Melbourne, Presenter(s): W Ebeling, Patrick Gorringer

Ebeling, W, Gorringer, P; Australia's interface to open access marine data; AODN Seminar, 11/02/2011 - 11/02/2011, Queenscliff, Presenter(s): W Ebeling, Patrick Gorringer

Ebeling, W, Gorringer, P; Australia's interface to open access marine data; AODN Seminar, 25/02/2011 - 25/02/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): W Ebeling, Patrick Gorringer, Paul Tildesley

Edwards, L; Marine data access overview - IMOS and AODN; WAIMOS Science & Data Uptake Workshop, 25/02/2011 - 25/02/2011, University of Western Australia, Perth, Presenter(s): Luke Edwards

Ebeling, W, Gorringer, P; Australia's marine research on the map - literally!; AODN Seminar, 03/03/2011 - 03/03/2011, Commonwealth Scientific Industrial Research Organisation, Canberra, Presenter(s): W Ebeling, Patrick Gorringer

Ebeling, W, Gorringer, P; Australian marine data publically available!; AODN Seminar, 09/03/2011 - 09/03/2011, University of Tasmania, Hobart, Presenter(s): W Ebeling, Patrick Gorringer, Alicja Mosbauer

Roberts, K; Use of Geonetwork; Geonetwork User Forum, 25/03/2011 - 25/03/2011, Canberra, Presenter(s): Kate Roberts

Walsh, A; Geonetwork at RAN-Metoc: Usage and future issues; Geonetwork User Forum, 25/03/2011 - 25/03/2011, Canberra, Presenter(s): Andrew Walsh

Ebeling, W, Gorringer, P; Implementing AAD data in the AODN web portal; AODN Seminar, 31/03/2011 - 31/03/2011, Australian Antarctic Division, Hobart, Presenter(s): W Ebeling, Patrick Gorringer, Alicja Mosbauer

Proctor, R; Update on Australian-EU initiatives; European Geosciences Union Splinter Group Meeting on Marine Data Management, 07/04/2011 - 08/04/2011, Vienna, Presenter(s): Roger Proctor

Ebeling, W, Gorringer, P; The AODN Web Portal: Access to Marine Data for Navy; AODN Seminar, 02/05/2011 - 02/05/2011, Sydney, Presenter(s): W Ebeling, Patrick Gorringer, Andrew Walsh

Ebeling, W, Gorringer, P; The AODN Web Portal: Access to Marine Data for Navy; AODN Seminar, 03/05/2011 - 03/05/2011, Woolongong, Presenter(s): W Ebeling, Patrick Gorringer, Greg Reed, Andrew Walsh

Ebeling, W, Gorringer, P; GA's involvement in the Australian Ocean Data Network; AODN Seminar, 04/05/2011 - 04/05/2011, Geoscience Australia, Canberra, Presenter(s): W Ebeling, Patrick Gorringer

Ebeling, W, Gorringer, P; Australian Ocean Data Network (AIMS & AODN); AODN Seminar, 07/06/2011 - 07/06/2011, Australian Institute of Marine Science, Townsville, Presenter(s): Patrick Gorringer, Andrew Walsh

Session Chair

Symposium Co-Chair - Turning Data Into Knowledge: Marine Data Management in Western Australia; Western Australian Land Information System (WALIS) Marine Group Forum - Turning Data Into Knowledge: Marine Data Management in Western Australia, 16/09/2010 - 16/09/2010, Perth, Presenter(s): Luke Edwards

Workshop Chair - Marine Information Infrastructure; Australia-EU Workshop on marine data information, 04/04/2011 - 05/04/2011, Brussels, Presenter(s): Roger Proctor

Symposium Presentation

Schiller, A, Brasseur, P, De Mey, P, Proctor, R, Verron, J; Key Future Research Priorities in Ocean Forecasting; GODAE OceanView: from an experiment towards a long-term ocean analysis and forecasting, 12/11/2008 - 15/11/2008, Nice, Presenter(s): A Schiller

Steinberg, D, Bender, A, Friedman, A; Analysis of propulsion methods for long range AUVs; International Symposium on Unmanned Untethered Submersible Technology (UUST), 23/08/2009 - 26/08/2009, Durham

Proctor, R; IMOS - the Australian Integrated Marine Observing System; Australia-China Symposium, 12/10/2009 - 16/10/2009, Guangzhou and Xiamen, Presenter(s): Roger Proctor

Williams, S; Autonomous Underwater Vehicle Support for Marine Science Projects around Australia; Society for Underwater Technology and Australian Hydrographic Office Autonomous Underwater Vehicle Symposium, 28/10/2010 - 28/10/2010, Perth, Presenter(s): Stefan Williams

Proctor, R; Australian initiatives in marine information infrastructure - the Integrated Marine Observing System and the Australian Ocean Data Network; European Strategy Forum on Research Infrastructures (ESFRI) "The future of the 21st Century Ocean", 28/06/2011 - 30/06/2011, Brest, Presenter(s): Roger Proctor

Workshop Presentation

Gronell, A; XBT metadata effects on fall rate corrections; NOAA XBT Fall Rate Workshop, 10/03/2008 - 12/03/2008, Miami, Presenter(s): Ann Gronell

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

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

Van Wijk, EM; CSIRO DMQC Procedure; Argo Delayed-Mode Quality Control Workshop, 10/09/2008 - 12/09/2008, Seattle, Presenter(s): Esmee Van Wijk

Johnson-Robertson, M, Pizarro, O, Williams, S, Mahon, I; Large Scale 3D Reconstruction and Visualization of Stereo Surveys; GeoHab 2009 Video Workshop, 03/05/2009 - 04/05/2009, Trondheim

Williams, S, Pizarro, O, Jakuba, M, Mahon, I, Johnson-Robertson, M, Rigby, P, Barkby, S; Autonomous Marine Systems for Navigation, Mapping and Data Interpretation; GeoHab 2009 Video Workshop, 03/05/2009 - 04/05/2009, Trondheim

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

Proctor, R, Roberts, K, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; IMOS Data User Workshop, 30/06/2009 - 30/06/2009, University of Tasmania, Hobart, Presenter(s): Katy Hill, Sebastien Mancini, Roger Proctor, Kate Roberts, Katherine Tattersall, Brendon Ward

Proctor, R, Ward, BJ, Roberts, K, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide, Presenter(s): Sebastien Mancini, Roger Proctor, Kate Roberts, Katherine Tattersall, Brendon Ward

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

Proctor, R, Meyers, G, Brassington, GB, Moltmann, T, Oke, PR; IMOS and Bluelink, the Australian Operational Oceanographic Systems; Workshop on designing, planning and implementing an operational oceanographic system for South Africa, 20/07/2009 - 22/07/2009, Cape Town, Presenter(s): Roger Proctor

King, E; The Australian Oceans DAAC - Distributed Gridded Data Delivery for Marine Research; IMOS Collaboration Workshop, 19/08/2009 - 19/08/2009, Hobart, Presenter(s): Edward King

Proctor, R; The Integrated Marine Observing System; NCRIS Collaboration Day, 19/08/2009 - 19/08/2009, Hobart, Presenter(s): Roger Proctor

Pizarro, O; Simultaneous Localisation and Mapping and Dense Stereoscopic Seafloor Reconstruction using an AUV; Office of Naval Research Workshop on Machine Intelligence, 07/10/2009 - 08/10/2009, Lercis, Presenter(s): Oscar Pizarro

Proctor, R; Accessing IMOS data streams; WAMSI Data Management Workshop, 27/10/2009 - 28/10/2009, iVEC, Perth, Presenter(s): Roger Proctor

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S, Roberts, K; IMOS Ocean Portal; WAMSI Data Management Workshop, 27/10/2009 - 28/10/2009, iVEC, Perth, Presenter(s): Luke Edwards, Sebastien Mancini, Roger Proctor, Katherine Tattersall, Brendon Ward

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

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

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

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

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

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

Proctor, R, Ward, BJ, Roberts, K, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; IMOS Data User Workshop, 09/11/2009 - 09/11/2009, University of New South Wales, Sydney, Presenter(s): Sebastien Mancini, Roger Proctor, Kate Roberts, Katherine Tattersall, Brendon Ward

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; GODAE Oceanview Summer School, 11/01/2010 - 15/01/2010, University of Western Australia, Perth, Presenter(s): Sebastien Mancini, Roger Proctor

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; Australian Meteorological and Oceanographic Society (AMOS) Conference, 27/01/2010 - 29/01/2010, Canberra, Presenter(s): Patrick Gorringer, Roger Proctor, Kate Roberts, Katherine Tattersall

Dekker, A; Earth Observation for Marine Aquatic Ecosystems in Australia, Overview of Current and Near Future Capabilities; India-Australia Workshop on Remote sensing of Marine ecosystems, 18/03/2010 - 19/03/2010, Ahmedabad, Presenter(s): A Dekker

Schroeder, T, Brando, V, Cherukuru, N, Park, Y-J, Clementson, L, Blondeau-Patissier, D, Dekker, A, Steven, A; CSIRO's new remote sensing algorithms for quality assessment in optically complex waters; Indian-Australian Ocean Colour Workshop, 18/03/2010 - 19/03/2010, Ahmedabad, Presenter(s): T Schroeder

Proctor, R; The Integrated Marine Observing System (activity update); EU-Australian Research Infrastructure Workshop, 07/06/2010 - 07/06/2010, University of New South Wales, Sydney, Presenter(s): Roger Proctor

King, E; IMOS Satellite Remote Sensing; Optical Remote Sensing Workshop, AMSA, 08/07/2010 - 08/07/2010, Woolongong, Presenter(s): Edward King

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; IMOS Data User Workshop, 16/07/2010 - 16/07/2010, Woolongong, Presenter(s): Laurent Besnard, Patrick Gorringer, Roger Proctor, Katherine Tattersall, Brendon Ward

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; IMOS Data User Workshop, 26/07/2010 - 26/07/2010, University of Queensland, Brisbane, Presenter(s): Laurent Besnard, Roger Proctor, Katherine Tattersall, Brendon Ward

Proctor, R, Ward, BJ, Hope, J, Tattersall, K, Mancini, S; IMOS Ocean Portal; IMOS Data User Workshop, 27/07/2010 - 27/07/2010, James Cook University, Townsville, Presenter(s): Roger Proctor, Katherine Tattersall, Brendon Ward

King, E; IMOS Satellite Remote Sensing; CSIRO Earth Observation Workshop, 31/08/2010 - 31/08/2010, Canberra, Presenter(s): Edward King

Proctor, R; Integrated Marine Observing System (IMOS) and the Australian Ocean Data Network (AODN); Coast to Coast Conference Workshop - Australian Coastal Observatory, 21/09/2010 - 22/09/2010, Adelaide, Presenter(s): Roger Proctor

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