

### Argo floats

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Wijffels, S, Palmer, MD, Rayner, N, Goni, GJ, Garzoli, SL, Johnson, C, Willis, J, Dushaw, BD, Roemmich, D, Church, JA, Meyers, G 2010, Progress and challenges in monitoring ocean temperature and heat content, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 1), Venice, Italy, September 2009, ESA Publication WPP-306, Venice

**Conference Proceedings Count 5**

### Ships of opportunity

Send, U, et, al. 2010, A global boundary current circulation observing network, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, Venice, Presenter: Uwe Send

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Beggs, H, Majewski, L, Paltoglou, G, Verein, R, Zhong, A 2011, Report to GHRST12 from Australia – BLUElink and IMOS, Proceedings of the 12th International GHRST Science Team Meeting, Edinburgh, UK, June, 2011, Edinburgh, Presenter: Helen Beggs

Lee, R, Mancini, S, Martinez, G, Lindsay, MCM 2011, Resolving environmental dynamics in Port Phillip Bay, using high repeat sampling off the Spirit of Tasmania 1, Proceedings of Coasts and Ports 2011: 20th Australasian Coastal and Ocean Engineering Conference and the 13th Australasian Port and Harbour Conference, Perth, Presenter: Randall Lee

Kloser, R, McCauley, R 2011, Sustained ecosystem monitoring using passive and active acoustics, Proceedings of IUGG 2011, Melbourne, Australia, Melbourne, Presenter: Rudy Kloser

Beggs, H, Majewski, L, Kruger, G, Verein, R, Oke, PR, Sakov, P, Tingwell, C, Barass, V, Sandery, PA, Griffin, C 2012, Report to GHRST13 from Australia - BLUElink and IMOS, Proceedings of the 13th International GHRST Science Team Meeting, Tokyo, Japan, June, 2012, Tokyo

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## Deep water moorings

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## Ocean gliders

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

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Welhena, T, Pattiaratchi, C, Feng, M 2011, Dense water formation and cross-shelf exchange on the Rottneest continental shelf in south-western Australia, Proceedings of Coasts and Ports 2011: 20th Australasian Coastal and Ocean Engineering Conference and the 13th Australasian Port and Harbour Conference, Perth

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## Autonomous underwater vehicle

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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 2008 International Symposium on Experimental Robotics (ISER), Athens

Pizarro, O, Colquhoun, J, Rigby, P, Johnson-Robertson, M, Williams, S 2008, Towards image-based marine habitat classification, Proceedings of Oceans 2008 IEEE, Quebec, Canada, September, 2008, Quebec City

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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

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

Pizarro, O, Williams, S, Colquhoun, J 2009, Topic-based habitat classification using visual data, Proceedings of Oceans 2009 MTS/IEEE, Bremen, Germany, May, 2009, Bremen

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

Barrett, N, Seiler, J, Anderson, T, Williams, S, Nicol, S, Hill, N 2010, Using an autonomous underwater vehicle to inform management of biodiversity in shelf waters, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

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 Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

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Dansereau, D, Williams, S 2011, Seabed modelling 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

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

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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

Friedman, A, Steinberg, D, Pizarro, O, Williams, S 2011, Active learning using a variational Dirichlet process model for pre-clustering and classification of underwater stereo imagery., Proceedings of Intelligent Robots and Systems (IROS) 2011 IEEE/RSJ International Conference, San Francisco

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Bewley, M, Douillard, B, Nourani-Vatani, N, Friedman, A, Pizarro, O, Williams, S 2012, Automated species detection: an experimental approach to kelp detection from sea-floor AUV images, Proceedings of the 2012 Australasian Conference on Robotics and Automation, Wellington, Presenter: Michael Bewley

Bryson, M, Johnson-Robertson, M, Pizarro, O, Williams, S 2012, Colour-consistent structure-from-motion models using underwater imagery, Proceedings of the 2012 Robotics: science and systems conference, Sydney, Presenter: Mitchell Bryson

Bender, A, Williams, S, Pizarro, O 2012, Classification with probabilistic targets, Proceedings of Intelligent Robots and Systems (IROS) 2012 IEEE/RJS International Conference, Vila Moura, Presenter: Asher Bender

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Steinberg, D, Pizarro, O, Williams, S 2013, Synergistic clustering of image and segment descriptors for unsupervised scene understanding, Proceedings of Computer Vision (ICCV) 2013 IEEE International Conference, Sydney, Presenter: Daniel Steinberg

Bewley, M, Nourani-Vatani, N, Rao, D, Douillard, B, Pizarro, O, Williams, S 2013, Hierarchical classification in AUV imagery, Proceedings of Field and Service Robotics, Results of the 9th International Conference, Brisbane, Presenter: Michael Bewley

Bryson, M, Johnson-Robertson, M, Pizarro, O, Williams, S 2013, Automated registration for multi-year robotic surveys of marine benthic habitats, Proceedings of Intelligent Robots and Systems (IROS) 2013 IEEE/RSJ International Conference, Taipei, Presenter: Mitchell Bryson

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## National mooring network

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Schaeffer, A, Roughan, M, Morris, BD, Rossi, V 2012, Physical variability on the shelf off NSW Australia: new insights from the NSW Integrated Marine Observing System, Proceedings of AOGS - AGU (WPGM) 2012 Joint Assembly, Singapore, Singapore

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

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Atwater, DP, Mantovanelli, A, Prytz, A, Rehder, S, Wyatt, LR 2013, Operational requirements for oceanographic ground-wave HF radars: experiences from the Australian Coastal Ocean Radar Network, Proceedings of the 2013 International Conference on Radar, Adelaide, Presenter: Dan Atwater

Williams, DK, Steinberg, C, Rigby, P, Brinkman, R 2013, Observations in support of port activities: recent developments and future opportunities, Proceedings of Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, Sydney, Presenter: David Williams

Wood, JE, Roughan, M, Tate, P 2013, Annual cycling in wind, temperature and along shore currents on the Sydney shelf, Proceedings of Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, Sydney, Presenter: Julie Wood

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Hawkins, L, Parnum, I, McCauley, R, Saunders, B 2016, Using acoustics to study biological activity in the Perth Canyon, Western Australia, Published Proceedings of the 2nd Australasian Acoustical Societies Conference, ACOUSTICS 2016, Brisbane, Presenter: Lauren Hawkins

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## Ocean radar

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

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Wyatt, LR, Atwater, DP, Mantovanelli, A, Prytz, A, Rehder, S 2013, The Australian Coastal Ocean Radar Network: data availability and quality, Proceedings of the 14th International Radar Symposium 2013, Dresden, Presenter: Lucy Wyatt

Wyatt, LR, Atwater, DP, Prytz, A, Rehder, S 2013, A comparison between SeaSonde and WERA HF radar current measurements, Proceedings of Oceans 2013 MTS/IEEE, Bergen, Norway, June, 2013, Bergen, Presenter: Lucy Wyatt

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**Animal tracking**



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Laffan, SW, Taylor, M 2013, FishTracker: a GIS toolbox for kernel density estimation of animal home ranges that accounts for transit times and hard boundaries, Proceedings of MODSIM2013, Adelaide, Presenter: Shawn Laffan

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