

Ocean gliders



Research Projects

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

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

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

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

Postgraduate Research Projects

Doctor of Philosophy (PhD), Physical processes along the Rottneest continental shelf, University of Western Australia; Thisara Welhena, 2009-2012, Supervisor(s): Charitha Pattiaratchi, Ming Feng; Partner Institution(s): CSIRO; Funding: West Australian Marine Science Institution, University of Western Australia

Honours degree, Analysis of Seaglider data, University of Western Australia; Ping Jie Teo, 2010-2010, Supervisor(s): Charitha Pattiaratchi, Christine Hanson, M Woo

Honours degree, Seasonal variability in phytoplankton biomass off the south-west of Western Australia: a phenology of the winter bloom, University of Western Australia; Antony Kuret, Supervisor(s): Charitha Pattiaratchi, Christine Hanson

Doctor of Philosophy (PhD), Oceanographic factors promoting aggregations of plankton feeding mega-fauna of Indian Ocean: the case study of Perth Canyon and Ningaloo Reef., University of Western Australia; Olga Bondarenko, 2011-2014, Supervisor(s): Charitha Pattiaratchi, Sasha Gavrillov; Partner Institution(s): AIMS

Book

Book Chapters

Community White Papers / Technical Papers

Conference Proceedings

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

In Press

Journals

Pattiaratchi, C, Hollings, B, Woo, M, Welhena, T 2011, Dense shelf water formation along the south-west Australian inner shelf, Geophysical Research Letters, vol. 38, doi:10.1029/2011GL046816

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, M 2011, The effect of surface flooding on the physical–biogeochemical dynamics of a warm-core eddy off southeast Australia, Deep Sea Research Part II, vol. 58, pp. 592-605, doi:10.1016/j.dsr2.2010.10.002

Reports

Thesis

Public Seminars

Pattiaratchi, C; Coastal Physical Oceanography off South-West Australia; CSIRO Marine and Atmospheric Research Seminar, 03/12/2009 - 03/12/2009, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Charitha Pattiaratchi

Pattiaratchi, C; Integrated Marine Observing System (IMOS) in Western Australia; Oceans Institute/AIMS Seminar, 10/03/2010 - 10/03/2010, Perth, Presenter(s): Charitha Pattiaratchi

Conferences, Symposia or Workshops

Conference Oral Presentation

Woo, M, Pattiaratchi, C, Hollings, B; Ocean Observations using autonomous ocean gliders; Western Pacific Geophysics Meeting, 29/07/2008 - 01/08/2008, Cairns

Hanson, CE, Pattiaratchi, C, Woo, M, Hollings, B, Stanley, D; Sustained bio-optical measurements across the Leeuwin Current system via ocean gliders: spatio-temporal patterns and links to physical forcing; Ocean Sciences Meeting, 22/02/2010 - 26/02/2010, Portland, Presenter(s): Christine Hanson

Pattiaratchi, C, Hollings, B, Woo, M, Hanson, CE, Welhena, T; Dense shelf water cascade along west Australian continental shelves; 15th Biennial International Physics of Estuaries and Coastal Seas (PECS) Conference, 14/09/2010 - 17/09/2010, Colombo, Presenter(s): Charitha Pattiaratchi

Welhena, T, Pattiaratchi, C, Feng, M; Cross-shore processes on the Rottneest continental shelf in Western Australia; 15th Biennial International Physics of Estuaries and Coastal Seas (PECS) Conference, 14/09/2010 - 17/09/2010, Colombo, Presenter(s): Thisara Welhena

Woo, M, Pattiaratchi, C; How the Capes current ends: and investigation of a west Australian coastal current using an autonomous ocean glider; 15th Biennial International Physics of Estuaries and Coastal Seas (PECS) Conference, 14/09/2010 - 17/09/2010, Colombo, Presenter(s): M Woo

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

Kuret, A, Pattiaratchi, C, Hanson, CE, Lourey, M; Seasonal variability in phytoplankton biomass off the south west of Western Australia: assessment by ocean gliders and in situ sampling; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Conference Poster

Pattiaratchi, C, Hollings, B, Woo, M; Oceanographic Observations of the Australian Continental Shelf and Slope Waters Using Autonomous Ocean Gliders; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Meeting Presentation

Hollings, B; Australian National Facility for Ocean Gliders (ANFOG) – The First 12 Months ; European Glider Observatories Congress, 16/11/2009 - 19/11/2009, Larnaca, Presenter(s): B Hollings

Symposium Presentation

Pattiaratchi, C; Ocean glider deployments in WA: Overview; WAMSI Node 6 symposium: Ocean science for offshore and coastal engineering, 26/11/2010 - 26/11/2010, Perth, Presenter(s): Charitha Pattiaratchi

Workshop Presentation

Pattiaratchi, C; Ocean Observations off Western Australia ; Global Ocean Observing System Scientific Steering Committee Workshop, 23/02/2009 - 24/02/2009, Perth, Presenter(s): Charitha Pattiaratchi