

Integrated Marine Observing (IMOS) Office



Research Projects

Australian Coastal and Ocean Modelling Observations (ACOMO) Workshop, Katy Hill, Andreas Schiller, Roger Proctor, Charitha Pattiaratchi, Moninya Roughan, 2012-2012

Australian Coastal and Ocean Modelling and Observations workshop, University of Tasmania, Ana Lara-Lopez, Tim Moltmann, Andreas Schiller, Roger Proctor, Charitha Pattiaratchi, Emlyn Jones, Robin Robertson, Richard Brinkman, 2014-2014, Funding: Integrated Marine Observing System (IMOS)

Forum for Operational Oceanography (FOO), University of Tasmania, Jan Flynn, Tim Moltmann, Emma Sommerville, 2015-2015, Funding: Department of Industry and Science

Postgraduate Research Projects

Book

Book Chapters

Zhang, D, O'Connor, NE, Regan, F 2016, Current and Future Information and Communication Technology (ICT) Trends in Coastal and Marine Management, in D Bartlett, L Celliers (eds.), Geoinformatics for Marine and Coastal Management, CRC Press

Community White Papers / Technical Papers

Moltmann, T, Llewellyn, L, Exon, N, Turner, I, et. al.; 2014, National marine science plan infrastructure theme white paper - Research vessels, experimental facilities, observing systems and e-Research

Conference Proceedings

Allen, S 2011, Australia's Integrated Marine Observing System observation methods and technology review, Proceedings of Oceans 2011 MTS/IEEE, Kona, USA, September, 2011, Kona, Presenter: Simon Allen

Moltmann, T 2011, Ocean observing systems a national perspective from Australia, Proceedings of GEOSS Workshop XLII - Oceans, 2011, Kona

Moltmann, T 2013, The Integrated Marine Observing System: observations to support research and applications in the coastal zone, Proceedings of Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, Sydney, Presenter: Tim Moltmann

Pearlman, J, Schaap, D, Glaves, HM 2016, Ocean Data Interoperability Platform (ODIP): addressing key challenges for marine data management on a global scale, Proceedings of Oceans 2016 MTS/IEEE, Monterey, USA, September, 2016, Monterey

In Press

Journals

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

Constable, A, Costa, D, Schofield, O, Newman, L, Urban, E, Fulton, EA, Melbourne-Thomas, J, et, al. 2016, Developing priority variables ("ecosystem Essential Ocean Variables" - eEOVs) for observing dynamics and change in Southern Ocean ecosystems, Journal of Marine Systems, vol. 161, pp. 26-41, doi:10.1016/j.jmarsys.2016.05.003

Lara-Lopez, A, Proctor, R, Moltmann, T 2016, Australia's Integrated Marine Observing System (IMOS) - Data impacts and lessons learned, Marine Technology Society Journal, vol. 50, no. 3, pp. 23-33, doi:10.4031/MTSJ.50.3.1

Melbourne-Thomas, J, Constable, A, Fulton, EA, Corney, S, et, al. 2017, Integrated modelling to support decision-making for marine social-ecological systems in Australia, ICES Journal of Marine Science, doi: <https://doi.org/10.1093/icesjms/fsx078>

Reports

Thesis

Public Seminars

Moltmann, T; An overview of IMOS and eResearch infrastructure; IMAS Research Showcase, 16/07/2013 - 17/07/2013, Institute of Marine and Antarctic Studies, Hobart, Presenter(s): Tim Moltmann

Moltmann, T; Overview of IMOS capability; DSTO Maritime Division Visit, 04/09/2013 - 04/09/2013, Melbourne, Presenter(s): Tim Moltmann

Moltmann, T, Willis, Z; The US Integrated Ocean Observing System (IOOS) and Australia's Integrated Marine Observing System (IMOS): what can we learn from our experiences?; SIMS Public Seminar, 19/11/2013 - 19/11/2013, Sydney Institute for Marine Science, Sydney, Presenter(s): Tim Moltmann, Zdenka Willis

Moltmann, T, Willis, Z; The US Integrated Ocean Observing System (IOOS) and Australia's Integrated Marine Observing System (IMOS): what can we learn from our experiences?; CSIRO Seminar Series, 21/11/2013 - 21/11/2013, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Tim Moltmann, Zdenka Willis

Moltmann, T; Sustained ocean observing - why it matters to marine biodiversity in WA; DPAW Public Seminar, 28/01/2016 - 28/01/2016, Perth, Presenter(s): Tim Moltmann

Moltmann, T; Global ocean observing - an Australian perspective; University of Southern Mississippi Public Seminar, 19/02/2016 - 19/02/2016, Hattiesburg, Presenter(s): Tim Moltmann

Moltmann, T; Australia's Integrated Marine Observing System; Australian Embassy in Paris, Public Lecture, 21/03/2016 - 21/03/2016, Paris, Presenter(s): Tim Moltmann

Lara-Lopez, A; The global role of Australia's Integrated Marine Observing System; Master's Lecture Series at IMAS, 30/03/2016 - 30/03/2016, Hobart, Presenter(s): Ana Lara-Lopez

Conferences, Symposia or Workshops

Conference Oral Presentation

Moltmann, T, Proctor, R; The Integrated Marine Observing System: observations to support research and applications in the coastal zone; Coast to Coast Conference, 17/09/2012 - 21/09/2012, Brisbane, Presenter(s): Roger Proctor

Moltmann, T; Australia's Integrated Marine Observing System and Ocean Data Network; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Tim Moltmann

Lara-Lopez, A, Proctor, R, Moltmann, T; Australia's Integrated Marine Observing System: infrastructure for monitoring the state of our oceans; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Ana Lara-Lopez

Moltmann, T; Sustained observations for many users - a perspective from Australia's Integrated Marine Observing System (IMOS); Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Tim Moltmann

Lara-Lopez, A; IMOS Observations for coasts and extremes; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Ana Lara-Lopez

Moltmann, T, Kelly-Gerreyn, B, Llewellyn, L, Lewis, A; Observing systems - research and operational; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Tim Moltmann

Moltmann, T; Australia's Integrated Marine Observing System (IMOS) - a decade of Indian Ocean observing; International Symposium on the Indian Ocean (IIOE-2), 30/11/2015 - 04/12/2015, Goa, Presenter(s): Tim Moltmann

Moltmann, T, Proctor, R; Sustained ecological observing, how hard can it be?; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Tim Moltmann

Lara-Lopez, A, Moltmann, T, Proctor, R; Sustained biological and ecosystem ocean observing: how are we approaching it and why is it important?; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Ana Lara-Lopez

Lara-Lopez, A; Australia's Integrated Marine Observing System (IMOS): helping to understand ocean acidification; 9th Annual NZOA Workshop, 08/07/2016 - 08/07/2016, Wellington, Presenter(s): Ana Lara-Lopez

Proctor, R, Moltmann, T, Lara-Lopez, A; Australia's Integrated Marine Observing System: infrastructure for monitoring the state of our oceans - strengths and opportunities; 13th Annual Meeting, Asia Oceania Geosciences Society (AOGS), 31/07/2016 - 05/08/2016, Beijing, Presenter(s): Roger Proctor

Lara-Lopez, A; Long-term observing systems: what is on offer in Australia and can it improve my science?; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): Ana Lara-Lopez

D'Adamo, N, Pattiaratchi, C, Moltmann, T; Contemporary technologies for ocean observations under the Global Ocean Observing System framework – with relevancy to the Persian Gulf and Gulf of Oman; 18th Iranian Marine Industries Conference, 18/10/2016 - 21/10/2016, Kish Island

Conference Poster

Moltmann, T, Hill, K; Australia's Integrated Marine Observing System - Monitoring major boundary currents and inter-basin flows; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Hill, K, Moltmann, T, Wiltshire, M; The Integrated Marine Observing System (IMOS): Taking an integrated approach to monitoring marine ecosystem responses; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Moltmann, T, Hill, K, Wiltshire, M; The Integrated Marine Observing System (IMOS): Taking an integrated approach to monitoring boundary currents; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart

Moltmann, T, Proctor, R, Donoghue, S; Australia's Integrated Marine Observing System: the model-observation loop; GODAE OceanView Symposium 2013, 04/11/2013 - 06/11/2013, Baltimore, Presenter(s): Tim Moltmann

Moltmann, T, Proctor, R, Donoghue, S; Integrated Marine Observing System: observations to support research and applications in the coastal zone; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Tim Moltmann

Lara-Lopez, A, Moltmann, T; IMOS observations for operational oceanography; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Ana Lara-Lopez

Moltmann, T; Integrated Marine Observing System: Observing Australia's ocean estate need, capability, impact. Part A; eResearch Australasia, 19/10/2015 - 23/10/2015, Brisbane, Presenter(s): Peter Blain, Sebastien Mancini

Moltmann, T; Integrated Marine Observing System: Observing Australia's ocean estate need, capability, impact. Part B; eResearch Australasia, 19/10/2015 - 23/10/2015, Brisbane, Presenter(s): Peter Blain, Sebastien Mancini

Course Presentation

Galibert, G; Introduction to IMOS and AODN; Topics in Australian marine Science (TAMS) Workshop, 02/03/2017 - 02/03/2017, Sydney Institute for Marine Science, Sydney, Presenter(s): Guillaume Galibert

Lara-Lopez, A; Marine Observing Systems; Lecture for Master Students - University of Tasmania, 14/03/2017 - 14/03/2017, University of Tasmania, Hobart, Presenter(s): Ana Lara-Lopez

Key Note Speaker

Moltmann, T; Australia's Integrated Marine Observing System (IMOS) ; 3rd Brazilian Workshop on Climate Change in Coastal Zones of the Coastal Benthic Habitats Monitoring Network, 10/12/2013 - 12/12/2013, Florianopolis, Presenter(s): Tim Moltmann

Moltmann, T; From observation to impact - an Australian perspective on development of the blue economy; Oceanology International, 15/03/2016 - 17/03/2016, London, Presenter(s): Tim Moltmann

Meeting Presentation

Hill, K; Development of IMOS Science Plans; WAIMOS Science & Data Uptake Workshop, 25/02/2011 - 25/02/2011, University of Western Australia, Perth, Presenter(s): Katy Hill

Proctor, R; Australia's Integrated Marine Observing System: infrastructure for monitoring the state of our oceans - strengths and opportunities; British Oceanographic Data Centre, 17/10/2016 - 17/10/2016, Liverpool, Presenter(s): Roger Proctor

Symposium Presentation

Gunn, J; Observing systems for ocean biology and marine ecosystems: evolving from process/experimental observations to sustained global observing; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): John Gunn

Hill, K, Proctor, R, Moltmann, T, Blain, P, Mancini, S; Oceans of data : the Integrated Marine Observing System and the Australian Ocean Data Network; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Katy Hill

Proctor, R, Moltmann, T; IMOS- Contributing to building Australia's marine biodiversity atlas; Atlas of Living Australia ALA Science Symposium, 12/06/2013 - 13/06/2013, Canberra, Presenter(s): Roger Proctor

Bahurel, P, Moltmann, T, Aikman, F; Current status of development of ocean environmental services; GODAE OceanView Symposium 2013, 04/11/2013 - 06/11/2013, Baltimore, Presenter(s): Pierre Bahurel

Moltmann, T, Llewellyn, L, Exon, N, Turner, I; Infrastructure Theme 8; National Marine Science Symposium, 25/11/2014 - 26/11/2014, Canberra, Presenter(s): Tim Moltmann

Lara-Lopez, A; International Impact: a perspective from Australia's Integrated Marine Observing System; NCRIS Greater impact through environmental infrastructure symposium, 16/05/2017 - 18/05/2017, Canberra, Presenter(s): Ana Lara-Lopez

Moltmann, T; Marine environmental information in Australia – how has NCRIS made a difference?; NCRIS Greater impact through environmental infrastructure symposium, 16/05/2017 - 18/05/2017, Canberra, Presenter(s): Tim Moltmann

Webinar

Moltmann, T; Australia's Integrated Marine Observing System as a contribution to GOOS; GOOS Webinar, 19/08/2015 - 19/08/2015, Hobart, Presenter(s): Tim Moltmann

Workshop Presentation

Hoenner, X; Introduction to IMOS; 10th Advanced Phytoplankton Course: Taxonomy and Systematics, 12/11/2012 - 30/11/2012, Copenhagen, Presenter(s): Xavier Hoenner

Moltmann, T; Sensor systems for marine biosecurity - perspectives from Australia's Integrated Marine Observing System; CSIRO Marine Biosecurity Workshop, 30/07/2013 - 31/07/2013, Hobart, Presenter(s): Tim Moltmann

Tyler, J; Australia's Integrated Marine Observing System; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Jess Tyler

Moltmann, T; Integrated marine observing and data management; Practical steps to implementation of integrated marine management, 13/04/2015 - 15/04/2015, South Australian Research and Development Institute, Adelaide, Presenter(s): Tim Moltmann

Moltmann, T, Gunn, J, Flynn, J, Schiller, A, Proctor, R, Oke, PR, Roughan, M, Jones, EM; A national ocean modelling system for Australia - what could it look like?; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Tim Moltmann

Lara-Lopez, A, Moltmann, T; HABs research as a focus for IMOS; Alliance for Coastal Technologies Workshop: "SENSORS FOR MONITORING OF HARMFUL ALGAE, CYANOBACTERIA AND THEIR TOXINS – Current Status and Integration Into Observing Systems", 30/01/2017 - 30/01/2017, Moss Landing, Presenter(s): Ana Lara-Lopez