

Research Projects

POAMA development: improving seasonal climate forecasting for Australia , Bureau of Meteorology, Oscar Alves, Harry Hendon

Sea level rise program, Centre for Australian Weather and Climate Research , Antarctic Climate and Ecosystems Cooperative Research Centre, John Church

Climate variability and change program, Centre for Australian Weather and Climate Research , Antarctic Climate and Ecosystems Cooperative Research Centre, Steve Rintoul

Australian climate change science program: ocean processes and change, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, Steve Rintoul, Susan Wijffels, Bernadette Sloyan, 2003-2010

BlueLink II/III - ocean forecasting for Australia: Bluelink global program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, David Griffin, Peter Oke, Eric Schulz, 2003-2013

BlueLink II/III - ocean forecasting for Australia: Bluelink regional program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, David Griffin, Peter Oke, Eric Schulz, 2003-2013, Partner Institution(s): Royal Australian Navy

BlueLink II/III - ocean forecasting for Australia: Bluelink littoral zone program, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Gary Brassington, David Griffin, Peter Oke, Eric Schulz, 2003-2013, Partner Institution(s): Royal Australian Navy

Ocean control of carbon dioxide oceans change program, Antarctic Climate and Ecosystems Cooperative Research Centre, Tom Trull

WAMSI Node 2: Leeuwin Current dynamics and variability, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, Ming Feng, Dirk Slawinski, Liejun Zhong, 2006-2011

WAMSI Node 1: Southwest Australia marine ecosystem, Commonwealth Scientific Industrial Research Organisation, University of Western Australia, John Keesing, Ming Feng, Dirk Slawinski, 2006-2011

Quantifying the role of salps in marine food webs and organic carbon export, University of New South Wales, Iain Suthers, Funding: ARC Discovery Project

Modelling of source-sink relation of western rock lobster recruitment, Fisheries Research & Development Corporation, Nick Caputi, Ming Feng, Evan Weller, 2009-2011, Partner Institution(s): Department of Fisheries, CSIRO

Coastal cold core eddies of the East Australian Current and their fisheries potential, University of New South Wales, Iain Suthers, Funding: ARC Discovery Project

Pacific climate change science program; oceans component - ocean change, variability and sea level rise, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, Centre for Australian Weather and Climate Research, University of New South Wales, John Church, Susan Wijffels, Jaci Brown, Alexander Gupta, 2009-2012, Partner Institution(s): Pacific Island Countries

Australian climate change science program: sea level rise, Department of Climate Change and Energy Efficiency, Commonwealth Scientific Industrial Research Organisation, John Church, Susan Wijffels, 2010-2011

Research program: mechanisms and attribution of past and future ocean circulation change, ARC Centre of Excellence for Climate System Science, Nathan Bindoff, Andrew Hogg, Matthew England, Dietmar Dommenget, David Karloy, Peter Strutton, Richard Matear, Anthony Hirst, Scott Power, Stephen Griffies, 2010-2017, Partner Institution(s): University of Tasmania, Australian National University, University of New South Wales, University of Melbourne, CSIRO Centre for Marine and Atmospheric Research, Geophysical Fluid Laboratory USA

Southern Ocean productivity and CO₂ exchange under current and future climate regimes, University of Tasmania, Peter Strutton, 2010-2014, Funding: ARC Future Fellowship

Environmental factors affecting the low puerulus settlements, Fisheries Research & Development Corporation, Nick Caputi, Ming Feng, 2010-2013, Partner Institution(s): Dep of Fisheries, CSIRO

Mixing parameters in the Southern Ocean determined by inverse methods, Commonwealth Scientific Industrial Research Organisation, Andrew Meijers, Trevor McDougall, Bernadette Sloyan, 2010-2012

CO₂ program, University of Tasmania, Tom Trull, Partner Institution(s): UTAS, CSIRO, AAD, Funding: ACECRC

Eddies and upwelling: using satellite datasets to examine patterns in chlorophyll a adjacent to the East Australian Current, University of Technology Sydney, Jason Everett

Validating the upgrade of Bureau NWP from APS0 to APS1, Bureau of Meteorology, National Oceanography Centre, Eric Schulz, Simon Josey

eReefs, Commonwealth Scientific Industrial Research Organisation, Stuart Minchin, John Stevens, George Cresswell, 2012-2017, Partner Institution(s): CSIRO, AIMS, BoM, GBRMPA, GBR Foundation, DERM QLD

Observations of remarkable eastward flows in the South Indian Ocean, University of Tasmania, Nathan Bindoff, Julian McCreary, Ryo Furue, Ming Feng, Jessica Benthuisen, Catia Domingues, 2013-2016, Partner Institution(s): CSIRO, University of Hawaii, Funding: ARC Discovery Project

Great Australian Bight collaborative science program, South Australian Research and Development Institute, Tim Ward, 2013-2016, Partner Institution(s): Marine Innovation South Australia (MISA), CSIRO, British Petroleum, SARDI

Southern Ocean circulation and water mass formation in a warming world, Antarctic Climate and Ecosystems Cooperative Research Centre, Commonwealth Scientific Industrial Research Organisation, Steve Rintoul, Matthew England, 2013-2018, Partner Institution(s): UNSW, CSIRO, QNLM, Funding: Australian Antarctic Sciences Program, Australian Climate Change Science Program (ACCSP), ACECRC

Climate-scale forcing of phytoplankton community structure in the south Indian Ocean, Commonwealth Scientific Industrial Research Organisation, Nick Hardman-Mountford, Richard Matear, Anthony Richardson, Ming Feng, 2013-2016, Partner Institution(s): CSIRO, Funding: CSIRO OCE Postdoctoral Fellowship

A high resolution re-analysis for the East Australian Current, University of New South Wales, University of Hawaii, Colette Kerry, Moninya Roughan, Brain Powell, 2014-2015, Funding: US-NRL

Australian national shelf reanalysis, Emlyn Jones, Moninya Roughan, Tim Moltmann, Andreas Schiller, Peter May, 2014-2014, Funding: Integrated Marine Observing System (IMOS)

Advancing dynamical understanding in the East Australian Current: optimising the ocean observation and prediction effort, Sydney Institute for Marine Science, Moninya Roughan, 2014-2016, Funding: ARC

Phytoplankton variability in the Indian Ocean, Commonwealth Scientific Industrial Research Organisation, Nick Hardman-Mountford, 2014-2015, Funding: CSIRO

CARS, synTS and SSS, Commonwealth Scientific Industrial Research Organisation, Madeleine Cahill, J Lovell, Funding: CSIRO

Patterns of interaction between habitat and oceanographic variables affecting the connectivity and productivity of invertebrate fisheries, Deakin University, University of Melbourne, Latrobe University, Fisheries Victoria, Daniel Ierodiaconou, Eric Trembl, Steve Swearer, Nick Murphy, Mary Young, Adam Miller, Jan Strugnell, Harry Gorfine, Craig Sherman, Bridget Green, 2015-2017, Funding: Fisheries Research and Development Corporation

CSIRO OCE Postdoctoral: climate drivers of ocean change, Commonwealth Scientific Industrial Research Organisation, Damien Irving, Susan Wijffels, John Church, Nathan Bindoff, 2015-2018, Funding: CSIRO

NESP Earth systems science hub: coastal hazards in a variable and changing climate, Commonwealth Scientific Industrial Research Organisation, Allison McInnes, Y Zhang, Mark Hemer, 2016-2019, Funding: Department of Education, Employment and Workplace Relations, CSIRO Ocean and Atmosphere Flagship

NESP Earth systems scienceHub: changing oceans and Australia's future climate, University of Tasmania, Susan Wijffels, Bernadette Sloyan, Steve Rintoul, Andrew Hogg, Nathan Bindoff, Helen Phillips, 2016-2019, Funding: Department of Education, Employment and Workplace Relations, CSIRO, University of Tasmania, Australian National University

CSIRO Decadal Forecasting Project, Commonwealth Scientific Industrial Research Organisation, Richard Matear, 2017-2027, Funding: CSIRO

Coupled dynamics of the Indo-Pacific warm pool, Commonwealth Scientific Industrial Research Organisation, Ming Feng, Susan Wijffels, 2017-2022, Funding: The Centre for Southern Hemisphere Oceans Research (CSHOR)

Southern Ocean observations and change, Commonwealth Scientific Industrial Research Organisation, Steve Rintoul, Laura Herraiz-Borreguero, 2017-2019, Funding: The Centre for Southern Hemisphere Oceans Research (CSHOR)

Develop/enhance the Marine Virtual Laboratory (MARVL) to provide the information infrastructure in support of the national ocean modelling system, University of Tasmania, Roger Proctor, 2018-2018, Partner Institution(s): BOM (Oceans), BOM (water), NCI, SARDI, TPAC, UWA, Funding: Australian National Data Service (ANDS), National eResearch Collaboration Tools and Resources (NeCTAR), Research Data Cloud (RDS)

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Postgraduate Research Projects

Doctor of Philosophy (PhD), Decadal ocean water mass changes: Global observations and interpretation , University of Tasmania; Kieran Helm, 2004-2008, Supervisor(s): Steve Rintoul

Doctor of Philosophy (PhD), Variability of Sub-Antarctic mode water and Antarctic intermediate water in the Australian sector of the Southern Ocean, University of Tasmania; Laura Herraiz-Borreguero, 2005-2010, Supervisor(s): Richard Coleman, Steve Rintoul

Doctor of Philosophy (PhD), Quantifying ocean mixing from hydrographic data, University of New South Wales, Commonwealth Scientific Industrial Research Organisation; Jan Zika, 2005-2009, Supervisor(s): Trevor McDougall, Bernadette Sloyan, Matthew England

Doctor of Philosophy (PhD), Argo data in the Coral Sea, James Cook University; Jasmine Jaffres, 2006-2010, Supervisor(s): Nick Oliver, Gregg Brunskill, Michael Ridd; Partner Institution(s): Australian Institute of Marine Science

Doctor of Philosophy (PhD), Predicting the oceanic mesoscale dynamics in the Australian region, University of New South Wales, Australian Defence Force Academy; Robert Woodham, 2006-2013, Supervisor(s): Andrew Kiss, Oscar Alves, Gary Brassington; Partner Institution(s): CAWCR; Funding: Royal Australian Navy

Doctor of Philosophy (PhD), Global Ocean Salinity: A climate change diagnostic?, University of Tasmania; Paul Durack, 2006-2011, Supervisor(s): Susan Wijffels, Nathan Bindoff, Helen Phillips

Doctor of Philosophy (PhD), Intraseasonal variability in the Indian Ocean, Scripps Institution of Oceanography, Commonwealth Scientific Industrial Research Organisation; Kyla Drushka, 2007-2011, Supervisor(s): Sarah Gille, Daniel Steinberg, Janet Sprintall

Doctor of Philosophy (PhD), Modelling dynamics of the East Australian Current and the subtropical mode water off East Coast of Australia , University of New South Wales, Australian Defence Force Academy; Vihang Bhatt, 2007-2010, Supervisor(s): Xiao Hua Wang, John Morrison

Doctor of Philosophy (PhD), Evaluating the potential economic benefits from regional ocean observing system to the Australian East coastal areas, Australian Defence Force Academy; Fan Zhang, 2008-2012, Supervisor(s): Xiao Hua Wang

Doctor of Philosophy (PhD), Southern Ocean overturning, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Amelie Meyer, 2009-2012, Supervisor(s): Nathan Bindoff, Helen Phillips, Bernadette Sloyan, Kurt Polzin

Doctor of Philosophy (PhD), ROMS Modelling of WCE motivated by glider mission, University of New South Wales; Helen MacDonald, 2009-2012, Supervisor(s): Moninya Roughan, John Wilkin, Mark Baird

Doctor of Philosophy (PhD), Ekman currents in the Antarctic circumpolar current, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Chris Roach, Supervisor(s): Helen Phillips, Nathan Bindoff, Steve Rintoul

Doctor of Philosophy (PhD), The kinematics of ocean salinity changes, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Veronique Lago, 2011-2015, Supervisor(s): John Church, Simon Marsland, Susan Wijffels

Doctor of Philosophy (PhD), Nitrogen cycling in the Indian Ocean, University of Western Australia; Eric Raes, 2012-2015, Supervisor(s): Anya Waite, Pauline Grierson, Peter Thompson; Partner Institution(s): CSIRO, AWI; Funding: University of Western Australia , CSIRO

Doctor of Philosophy (PhD), Zoogeography and ecology of Euphausiids (krill) in the Indian Ocean, Murdoch University; Alicia Sutton, 2012-2015, Supervisor(s): Lynnath Beckley; Partner Institution(s): Murdoch University; Funding: Australian Postgraduate Award

Doctor of Philosophy (PhD), Upwelling dynamics in Southern Australia - Numerical Modelling and Observations , University of Tasmania, South Australian Research and Development Institute, Commonwealth Scientific Industrial Research Organisation; Hugo Bastos de Oliveira, 2013-2017, Supervisor(s): John Middleton, Peter Oke, Richard Coleman; Partner Institution(s): CSIRO, SARDI; Funding: QMS - Quantitative Marine Sciences and CAPES (Brazilian federal foundation) - Coordination for the Improvement of Higher Education Personnel

Doctor of Philosophy (PhD), Surface gravity waves and circulation on the Rottneest continental shelf, Western Australia, University of Western Australia; Moritz Wandres, 2013-2017, Supervisor(s): Charitha Pattiaratchi, Sarath Wijeratne

Doctor of Philosophy (PhD), The dynamics of remarkable near-surface eastward flows in the South Indian Ocean, University of Tasmania; Viviane Menezes, 2015-2018, Supervisor(s): Helen Phillips, Nathan Bindoff, Andreas Schiller, Catia Domingues

Doctor of Philosophy (PhD), Inter-ocean exchange around Southern Australia and its relation to regional and global climate, University of New South Wales; Christopher Bull, 2015-2018, Supervisor(s): Erik van Sebille, Matthew England, Helen Phillips

Doctor of Philosophy (PhD), Upper ocean heat and salinity balance in the South East Indian Ocean, Ocean University of China; Ningning Zhang, 2016-2019, Supervisor(s): Ming Feng; Partner Institution(s): CSIRO; Funding: Western Australian Marine Science Institution

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Book

Mapstone, B 2017, , Science and Solutions for Australia, Oceans, CSIRO, Clayton South

Book 1

Book Chapters

Brassington, GB, Oke, PR, Pugh, TF 2006, Bluelink: Operational ocean prediction in Australia , in I Wing-Huen, N Park (eds.), Advances in Geosciences: Hydrological Science, World Scientific Publishing, Singapore, pp.87-95

Rintoul, S, Turner, J, et, al. 2010, The Instrumental Period, in J Turner, RA Bindschadler, P Convey, G Di Prisco, E Fahrbach, J Gutt, DA Hodgson, PA Mayewski, CP Summerhayes (eds.), Antarctic Climate Change and the Environment, SCAR, Cambridge, pp.183-298

Turner, J, Rintoul, S, et, al. 2010, Observations, Data Accuracy and Tools, in J Turner, RA Bindschadler, P Convey, G Di Prisco, E Fahrbach, J Gutt, DA Hodgson, PA Mayewski, CP Summerhayes (eds.), Antarctic Climate Change and the Environment, SCAR, Cambridge, pp.33-114

Holbrook, N 2010, South Pacific Ocean dynamics: potential for enhancing sea level and climate forecasts, in Y You, A Henderson-Sellers (eds.), *Climate Alert: Climate Change Monitoring and Strategy*, Sydney University Press, Sydney, pp.313-342

Church, JA, White, N, Domingues, CM, Barker, PM, Wijffels, S, Dunn, JR, Drillet, Y 2011, Box 1.3: Ocean warming and sea-level rise , in K Richardson, W Steffen, D Liverman (eds.), *Climate change: Global risks, challenges and decisions*, Cambridge University Press, Cambridge, pp.14-17

Oke, PR, O'Kane, TJ 2011, Observing system design and assessment, in A Schiller, GB Brassington (eds.), *Operational Oceanography in the 21st Century*, Springer, Amsterdam, pp.123-151

Moore, A 2011, Adjoint Data Assimilation Methods, in A Schiller, GB Brassington (eds.), *Operational Oceanography in the 21st Century*, Springer, Amsterdam, pp.351-353

Woodham, RH 2011, Defence applications of operational oceanography: an Australian perspective, in A Schiller, GB Brassington (eds.), *Operational Oceanography in the 21st Century*, Springer, Amsterdam, pp.659-679

Rintoul, S 2011, The Southern Ocean in the Earth System, in PA Berkman, MA Lang, DWH Walton, OR Young (eds.), *Science Diplomacy: Antarctica, Science and the Governance of International Spaces*, Smithsonian Institution Scholarly Press, Washington DC, pp.175-187

Alves, O, Hudson, M, Balmaseda, MA, Shi, L 2011, Seasonal and Decadal Prediction, in A Schiller, GB Brassington (eds.), *Operational Oceanography in the 21st Century*, Springer, Amsterdam, pp.513-542

Brassington, GB 2011, System design for operational ocean forecasting, in A Schiller, GB Brassington (eds.), *Operational Oceanography in the 21st Century*, Springer, Amsterdam, pp.441-486

Rintoul, S, Naveira Garabato, A 2013, Dynamics of the Southern Ocean circulation, in G Siedler, S Griffies, J Gould, JA Church (eds.), *Ocean Circulation and Climate*, 2nd Ed., Academic Press

Durack, P, Wijffels, S, Boyer, T 2013, Long-term salinity changes and implications for the global water cycle, in G Siedler, S Griffies, J Gould, JA Church (eds.), *Ocean Circulation and Climate*, Academic Press

Schiller, A, Lee, T, Masuda, S 2013, Methods and applications of ocean state estimation and data assimilation in climate research, in G Siedler, S Griffies, J Gould, JA Church (eds.), *Ocean Circulation and Climate*, Academic Press

Gould, J, Sloyan, B, Visbeck, M 2013, In-situ ocean observations: a brief history, present status and future directions, in G Siedler, S Griffies, J Gould, JA Church (eds.), *Ocean Circulation and Climate*, Academic Press, pp.59-79

Rhein, M, Rintoul, S, Aoki, S, Campos, E, Chambers, D, Feely, RA, Gulev, S, Johnson, G, Josey, SA, Kostianoy, AG, Mauritzen, C, Roemmich, D, Talley, LD, Wang, F 2013, Observations: Ocean, in TF Stocker, D Qin, G-K Plattner, MMB Tignor, S Allen, J Boschung, A Nauels, Y Xia, V Bex, PM Midgley (eds.), *Climate Change 2013: The Physical Science Basis: Working Group I contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, pp.255-315

Chassignet, EP, Pascual, A, Tintore, J, Verron, J 2018, An overview of operational oceanography, in A Schiller, al. et (eds.), *New Frontiers in Operational Oceanography*, pp.1-26

Goni, GJ, et, al.; 2009, Applications of satellite-derived ocean measurements to tropical cyclone intensity forecasting

Schiller, A, Meyers, G, Smith, NR; 2009, Observing systems: taming Australia's last frontier, Comments: doi: 10.1175/2008BAMS2610.1

Oke, PR, Balmaseda, MA, Benkiran, M, Cummings, J, Dombrowsky, E, Fujii, Y, Guinehut, S, Larnicol, G, LeTraon, P, Martin, MJ; 2010, Observational requirements of GODAE systems, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 1), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.67

Palmer, MD, Antonov, J, Barker, PM, Bindoff, N, Boyer, T, Carson, M, Domingues, CM, Gille, ST, Gleckler, P, Good, S, Gouretski, V, Guinehut, S, Haines, K, Harrison, DE, Ishii, M, Johnson, G, Levitus, S, Loizer, S, Lyman, J, Meijers, AJS, von Shuckmann, K, Smith, D, Wijffels, S, Willis, J; 2010, Future observations for monitoring global ocean heat content, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.68

Pouliquen, S, Schmid, C, Wong, A, Guinehut, S, Belbeoch, M; 2010, Argo data management, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.69

Rintoul, S, Speer, K, Sparrow, M, Meredith, MP, Hofmann, E, Fahrbach, E, Summerhayes, CP, Worby, A, England, MH, Bellerby, R, Speich, S, Costa, D, Hall, J, Hindell, MA, Hosie, G, Stanfield, K, Fukamachi, Y, de Bruin, T, Naveira Garabato, A, Ryabinin, V, Alverson, K, Shin, H, Gladyshev, S; 2010, Southern Ocean Observing System (SOOS): rationale and strategy for sustained observations of the Southern Ocean, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 1), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.74

Xue, Y, Balmaseda, MA, Boyer, T, Ferry, N, Good, S, Ishikawa, I, Rosati, A, Rienecker, M, Yin, Y, Kumar, A; 2010, Analysis of upper ocean heat content variability from ensemble operational ocean analyses

Masumoto, Y, Meyers, G, D'Adamo, N, Beal, L, de Ruijter, W, Dyoulgerov, M, Hermes, J, Lee, T, et, al.; 2010, Observing systems in the Indian Ocean, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.60

O'Kane, TJ, Oke, PR, Sandery, PA; 2010, An ensemble prediction study of the East Australian Current, Extended abstracts of the fourth CAWCR Workshop 9 November - 11 November 2010 Hobart, Tasmania, Australia

Donlon, CJ, Casey, K, Gentemann, C, LeBorgne, P, Robinson, Is, Reynolds, R, Merchant, C, Llewellyn-Jones, D, Minnett, P, Piolle, J, Cornillon, P, Rayner, N, Brandon, T, Vazquez-Cuervo, J, Armstrong, E, Beggs, H, Barton, I, Wick, G, Castro, S, Hoeyer, J, May, D, Arino, O, Poulter, D, Evans, R, Mutlow, C, Bingham, A, Harris, A; 2010, Successes and challenges for the modern Sea Surface Temperature observing system, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.24

Freeland, HJ, Roemmich, D, Garzoli, SL, LeTraon, P, Ravichandran, M, Riser, S, Thierry, V, Wijffels, S, Belbeoch, M, Gould, J, Grant, F, Ignazewski, M, King, B, Klein, B, Mork, KA, Owens, B, Pouliquen, S, Sterl, A, Suga, T, Suk, M, Sutton, P, Troisi, A, Velez-Belchi, PJ, Xu, J; 2010, Argo - A Decade of Progress, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.32

O'Kane, TJ, Oke, PR, Sandery, PA; 2011, Predicting the East Australian Current, Report from GODAE OceanView/CLIVAR GSOP Workshop on Observing System Evaluation and Intercomparisons

Ganachaud, AS, Bowie, AR, Brassington, GB, Cai, W, Cravette, S, Davis, R, Gourdeau, L, Hasegawa, T, Hill, K, Holbrook, N, Kessler, W, Maes, C, Melet, A, Qiu, B, Ridgway, K, Roemmich, D, Schiller, A, Send, U, Sloyan, B, Sprintall, J, Steinberg, C, Sutton, P, Verron, J, Widlansky, M, Wiles, P; 2013, Advances from the Southwest Pacific Ocean circulation and climate experiment, CLIVAR Exchanges Newsletter No 61, Vol 18, 16-23

Church, JA, et, al.; 2014, Sea level and ocean heat and freshwater content, Comments: National Marine Science Plan Dealing with climate change, Canberra, Australia

Gillanders, B, et, al.; 2014, Ecosystem Health, Comments: National Marine Science Plan Biodiversity Conservation and Ecosystem Health, Canberra, Australia

Santoso, A, et, al.; 2014, Tropical Oceanography Research in Australia, Comments: National Marine Science Plan Biodiversity Conservation and Ecosystem Health, Canberra, Australia

Hogg, A, et, al.; 2014, Mid- to high-latitude oceans, Comments: National Marine Science Plan Biodiversity Conservation and Ecosystem Health, Canberra, Australia

Moltmann, T, Llewellyn, L; 2014, Research Vessels, Experimental Facilities, Observing Systems and e-Research, Comments: National Marine Science Plan Biodiversity Conservation and Ecosystem Health, Canberra, Australia

Rintoul, S, Van Wijk, EM, et, al.; 2014, Seeing below the ice: a strategy for observing the ocean beneath Antarctic sea ice and ice shelves, Comments: Version 1.0 November 2014

Zilberman, N, Maze, G; 2015, Report of the deep Argo implementation workshop Hobart, May 5-7th 2015, Comments: www.argo.ucsd.edu/DAIW1report.pdf

Community White Papers/Technical Papers 20

Conference Proceedings

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

Van Wijk, EM, Wijffels, S, Riser, S, Rintoul, S, Speer, K, Klatt, O, Boebel, O, Owens, B, Gascard, J-C, Freeland, HJ, Roemmich, D, Wong, A 2010, Observing high latitudes: extending the core Argo array, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306, Venice, Presenter: Esmee Van Wijk

Cummings, J, Brassington, GB, Keeley, R, Martin, MJ, Carval, T 2010, GODAE ocean data quality control intercomparison project, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 1), Venice, Italy, September 2009, ESA Publication WPP-306, Venice, Presenter: James Cummings

O'Kane, TJ, Oke, PR, Sandery, PA 2010, An ensemble prediction study of the East Australian Current, Proceedings of the 15th Computational Techniques and Applications Conference 2010, Sydney, Presenter: Terence O'Kane

O'Kane, TJ 2010, Results from an ensemble prediction study of the East Australian Current, Proceedings EGU General Assembly 2009, Vienna, Presenter: Terence O'Kane

In Press

Nelson, AD, et, al. 2017, An Ensemble Observing System Simulation Experiment of Global Ocean Heat Content Variability, *Ocean Science*, doi:10.5194/os-2016-105

Oke, PR, Roughan, M, Cetina-Heredia, P, Pilo, G, Ridgway, K, Rykova, T, Archer, M, Coleman, R, Kerry, C, Rocha, C, Sloyan, B, Vitarelli De Queiroz, E 2018, Revisiting the circulation of the East Australian Current: its path, separation and eddy field, *Progress in Oceanography*

Bestley, S, Van Wijk, EM, Rosenberg, M, Eriksen, R, Corney, S, Tattersall, K, Rintoul, S 2018, Ocean circulation and frontal structure near the southern Kerguelen Plateau: The physical context for the Kerguelen Axis ecosystem study, *Deep Sea Research Part II*, doi:https://doi.org/10.1016/j.dsr2.2018.07.013

Mao, H, Feng, M, Phillips, H, Lian, S 2018, Mesoscale eddy characteristics in the interior subtropical southeast Indian Ocean, tracked from the Leeuwin Current system, *Deep Sea Research Part II*, doi:https://doi.org/10.1016/j.dsr2.2018.07.003

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Oke, PR, Sakov, P 2008, Representation error of oceanic observations for data assimilation, *Journal of Atmospheric and Oceanic Technology*, vol. 25, pp. 1004-1017, doi:https://doi.org/10.1175/2007JTECHO558.1

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

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

Boning, CW, Dispert, A, Visbeck, M, Rintoul, S 2008, The response of the Antarctic Circumpolar Current to recent climate change, *Nature Geoscience*, vol. 1, no. 12, pp. 864-869, doi:10.1038/ngeo362

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Domingues, CM, Church, JA, White, N, Gleckler, P, Wijffels, S, Barker, PM, Dunn, JR 2008, Improved estimates of upper-ocean warming and multi-decadal sea-level rise, *Nature*, vol. 453, no. 7198, pp. 1090-1096, doi:10.1038/nature07080

Wijffels, S, Willis, J, Domingues, CM, Barker, PM, White, N, Gronell, A, Ridgway, K, Church, JA 2008, Changing expendable bathythermograph fall rates and their impact on estimates of thermosteric sea level rise, *Journal of Climate*, vol. 21, no. 21, pp. 5657-5672, doi:10.1175/2008JCLI2290.1

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Rintoul, S; Ice, wind and waves: in search of climate clues in the Southern Ocean; Australian Academy of Science Public Lecture, 03/09/2013 - 03/09/2013, Canberra, Presenter(s): Steve Rintoul

Wijffels, S, Roemmich, D; Argo: Tracking the pulse of the global oceans; Argo Steering Team, 15th Annual Meeting, 17/03/2014 - 21/03/2014, Halifax, Presenter(s): Dean Roemmich, Susan Wijffels

Schiller, A, Oke, PR, Griffin, DA, Herzfeld, M, Cahill, M, Condie, SA; CSIRO tools and applications in support of environmental monitoring; WAIMOS Seminar, 15/04/2014 - 15/04/2014, Perth, Presenter(s): Andreas Schiller

King, B; Evolution of the Argo profiling float network; GOOS Public Webinar, 23/05/2014 - 23/05/2014, Webinar, Presenter(s): Brian King

Hardman-Mountford, NJ; What makes the Indian Ocean tick? Using robotic floats to understand ocean ecosystems; IMAREST, 03/09/2015 - 03/09/2015, Perth, Presenter(s): Nick Hardman-Mountford

Public Seminars 6

Conferences, Symposia or Workshops

Conference Oral Presentation

Wijffels, S, Tomczak, M, Alory, G, Meyers, G; The Argo ocean observing revolution – two examples of its uses: ocean warming and variability of South Pacific Antarctic intermediate water; Australian Meteorological and Oceanographic Society (AMOS) Conference, 05/02/2007 - 08/02/2007, Adelaide

Roemmich, D, Gilson, J; Argo observes global variability in the oceans; International Union of Geophysics and Geology (IUGG) General Assembly, 02/07/2007 - 13/07/2007, Perugia

Jaffres, JBD; Mixed layer depth variability in the Coral Sea from ARGO observations ; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Vargas Hernandez, JM; Decadal changes in global subsurface ocean temperatures; ANNIMS Conference, 21/07/2010 - 22/07/2010, James Cook University, Townsville, Presenter(s): Jose Vargas Hernandez

Vargas Hernandez, JM, Wijffels, S, Meyers, G, Holbrook, N; Using reanalysis and tide-gauge data to determine ocean decadal climate variability since 1950; ANNIMS Conference, 29/11/2011 - 01/12/2011, University of Western Australia, Perth, Presenter(s): Jose Vargas Hernandez

Lago, V, Wijffels, S, Church, JA, Bindoff, N, Marsland, S; The oceanic response of anomalous surface contributions; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Wijffels, S, Meyers, G, Holbrook, N; Using reanalysis and tide-gauge data to determine ocean decadal climate variability since 1950; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea, Presenter(s): Jose Vargas Hernandez

Cai, W, Yun, Q; Argo Profiles nonlinear feedback processes associated with the Indian Ocean Dipole; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Wenju Cai, Jae-Yul Yun

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Oke, PR, Lea, D, Martin, MJ, Larnicol, G; Development of observation impact statements under GODAE OceanView; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): G Larnicol, D Lea, Matthew Martin, Peter Oke

Ridgway, K, Baird, ME; The southward transport of sub-mesoscale lenses of Bass Strait water in the centre of anti-cyclonic mesoscale eddies; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Mark Baird, Ken Ridgway

Thresher, A, Pouliquen, S; Understanding the data management system for Argo; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Sylvie Pouliquen, Ann Thresher

Feng, M; WA IMOS; 9th Session of the CLIVAR/IOC-GOOS Indian Ocean Panel, 15/10/2012 - 17/10/2012, Cape Town, Presenter(s): Ming Feng

Feng, M, McPhaden, M, Xie, S, Hafner, J; An Unprecedented Leeuwin Current warming event in 2011; American Geophysical Union (AGU) Fall Meeting, 03/12/2012 - 07/12/2012, San Francisco, Presenter(s): Ming Feng

Baird, ME; The southward transport of sub-mesoscale lenses of Bass Strait water in the centre of anti-cyclonic mesoscale eddies; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Mark Baird

Waite, A, Thompson, P, Tilbrook, B, Akl, J, Raes, E, Feng, M, Rossi, V, Roughan, M, Wyatt, A; Formation of shallow high-nitrate low-oxygen layers in the eastern Indian Ocean supported by surface nitrogen fixation; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Anya Waite

Waite, A, Thompson, P, Tilbrook, B, Akl, J, Raes, E, Feng, M, Rossi, V, Roughan, M, Wyatt, LR; Formation of shallow high-nitrate low-oxygen layers in the Eastern Indian Ocean supported by surface nitrogen fixation; ASLO 2013 Aquatic Sciences Meeting, 17/02/2013 - 22/02/2013, New Orleans, Presenter(s): Anya Waite

Feng, M; Ningaloo Nino - an unprecedented warming event off the Western Australia coast; 17th Pacific Asian Marginal Seas (PAMS) Meeting, 23/04/2013 - 25/04/2013, Hangzhou, Presenter(s): Ming Feng

Van Wijk, EM, Rintoul, S, Owens, B; First deployments of under-ice floats through winter on the Antarctic continental shelf; A joint Australian and New Zealand Conference, 24/06/2013 - 26/06/2013, Hobart, Presenter(s): Esmee Van Wijk

Wijffels, S, Roemmich, D; A Decade of Argo: Success and challenges.; Asia-Oceania Geosciences Society Annual Meeting, 24/06/2013 - 28/06/2013, Brisbane

Griffin, DA, Cahill, M; IMOS Ocean Current: monitoring Australia's ocean currents on a daily basis, for all to see; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): David Griffin

Wijffels, S, Roemmich, D; A decade of Argo: achievements and future challenges; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Susan Wijffels

Balcazar, N, Tripovich, J, Dziak, R, Mellinger, D, Nieukirk, S, Klinck, H, Rogers, T; Calls reveal population structure of two pygmy blue whales in the Indo-Pacific; Australian Mammal Society 59th Scientific meeting , 08/07/2013 - 10/07/2013, University of New South Wales, Sydney, Presenter(s): Naysa Balcazar

Feng, M; Ningaloo Nino - an unprecedented warming event off the Western Australia coast; WCRP/CLIVAR Second International Symposium on Boundary Current Dynamics, 08/07/2013 - 09/07/2013, Li Jang, Presenter(s): Ming Feng

Rintoul, S; Oceans and sea-level rise; Greenhouse 2013, 05/10/2013 - 11/10/2013, Adelaide, Presenter(s): Steve Rintoul

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Wijffels, S; Deep Argo: status and plans, as part of the workshop on autonomous devices for deep ocean observations; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Susan Wijffels

Brieva, D; Upwelling off shore Fraser Island; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Daniel Brieva

Griffin, DA; Highlights of the IMOS observations of ocean currents; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): David Griffin

Guerreiro, K; Transport and water properties of the Leeuwin Current system in the 1/8 degree CARS-AUS8 climatology; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Kevin Guerreiro

Oke, PR; Towards a dynamically balanced eddy-resolving ocean reanalysis: BRAN3; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Peter Oke

Robertson, R; Coastally trapped waves on the southern and eastern coasts of Australia; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Robin Robertson

Rykova, T; A comparison of the three-dimensional structure of the western boundary current eddies; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Tatiana Rykova

Hardman-Mountford, NJ, Greenwood, J, Dufois, F, Trull, T; Using models to optimize the design of robotic bio-float arrays; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Nick Hardman-Mountford

Hardman-Mountford, NJ, Greenwood, J, Dufois, F, Trull, T; Sampling strategies for an Indian Ocean bio-Argo programme: Eastern Indian ocean upwelling case study; IMBER Future Oceans Science Conference, 23/06/2014 - 28/06/2014, Bergen, Presenter(s): Nick Hardman-Mountford

Feng, M, Benthuisen, J, Slawinski, D; Freshening of the Indonesian throughflow and the Leeuwin Current during the 2010-11 La Nina/Ningaloo Nino; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Ming Feng

Jennings, S, Beckley, L; Oceanographic synopsis of the Southern Bluefin Tuna spawning ground in the Eastern Indian Ocean; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Shona Jennings

Menezes, V, Phillips, H; Sea Surface salinity maximum of the South Indian ocean from Aquarius and IMOS satellites, ARGO and RAMA data; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): Viviane Menezes

Brassington, GB, Colberg, F, Sandery, PA, Sakov, P; An operational coastal ocean forecasting system for the Great Barrier Reef; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Frank Colberg

Church, JA, Monselesan, D, Wijffels, S, Domingues, CM; Reduced space optimal interpolation estimates of steric sea level and heat content of the upper ocean derived from the Argo observations; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): John Church

Divakaran, P, Brassington, GB, Ryan, A, Regnier, C, Spindler, T, Mehra, A, Hernandez, F, Smith, G; Operational Ocean forecast inter-comparison for the Australian region; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Prasanth Divakaran

Horii, T, Cai, W, Sato, K, Ando, K; Low salinity signal on the high salinity subsurface water during negative Indian Ocean Dipole; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Takanori Horii

Rykova, T, Oke, PR; Observing East Australian Current eddies from Argo float data; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Tatiana Rykova

Stewart, K, Haine, T; Transition zone oceans: conduits to the deep; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Kial Stewart

Wijffels, S; Detecting anthropogenic climate forcing in the ocean; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Susan Wijffels

Wijffels, S, Roemmich, D, Freeland, HJ, Suga, T; Argo: past achievements, future risks and opportunities; Global Climate Observation Conference, 02/03/2016 - 04/03/2016, Amsterdam, Presenter(s): Toshio Suga

Chiswell, SM; Mean velocity decomposition and vertical eddy diffusivity of the Pacific Ocean from surface GDP drifters and 1000-m Argo floats; NZMSS and AMSA Sharing Ocean Resources - Now and in the future, 04/07/2016 - 07/07/2016, Wellington, Presenter(s): Stephen Chiswell

Benthuisen, J; Extreme marine warming across tropical Australia during austral summer 2015-2016; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Jessica Benthuisen

Smith, G; Sea Surface Temperature Forecasts for evaluating Coral Bleaching Risk in the Great Barrier Reef; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Grant Smith

Benthuisen, J, Oliver, ECJ, Feng, M, Marshall, AD; Extreme marine warming across tropical Australia during austral summer 2015- 2016; AMOS ICSHMO 2018, 05/02/2018 - 09/02/2018, University of New South Wales, Sydney, Presenter(s): Ming Feng

Katsumata, K; Eddies lengthen streamlines at standing meanders as observed by Argo floats; AMOS ICSHMO 2018, 05/02/2018 - 09/02/2018, University of New South Wales, Sydney, Presenter(s): Katsuro Katsumata

Sandery, PA, O'Kane, TJ, Sakov, P; The CAFE EnKF system for coupled data assimilation and forecast initialisation in the seasonal to multi-year space; AMOS ICSHMO 2018, 05/02/2018 - 09/02/2018, University of New South Wales, Sydney, Presenter(s): Paul Sandery

Meijers, AJS, et, al.; Southern Ocean Circumpolar Deep Water warming: isopycnal mixing vs overturning as drivers of change; Ocean Sciences Meeting, 11/02/2018 - 16/02/2018, Portland, Presenter(s): Andrew Meijers

Zilberman, N, Roemmich, D, Gille, ST, Gilson, J; Estimating the velocity and transport of Western Boundary Current systems: A case study of the East Australian Current near Brisbane; Ocean Sciences Meeting, 11/02/2018 - 16/02/2018, Portland, Presenter(s): Nathalie Zilberman

Wijffels, S, Sloyan, B; Seven Years of Direct Observations of the Ombai Throughflow; 3rd Open Science Symposium on Western Pacific Ocean Circulation and Climate, 08/05/2018 - 10/05/2018, Qingdao, Presenter(s): Susan Wijffels

Rintoul, S; Choosing the future of Antarctica; Polar2018 - Where the poles come together, 15/06/2018 - 26/06/2018, Davos, Presenter(s): Steve Rintoul

Rintoul, S; Why is Antarctic Bottom Water disappearing?; Polar2018 - Where the poles come together, 15/06/2018 - 26/06/2018, Davos, Presenter(s): Steve Rintoul

Van Wijk, EM, Rintoul, S; Under-ice Argo in the southern hemisphere: what have we learnt so far?; Polar2018 - Where the poles come together, 15/06/2018 - 26/06/2018, Davos, Presenter(s): Esmee Van Wijk

Conference Poster

Riser, S, Van Wijk, EM, Rintoul, S, Speer, K, Klatt, O, Boebel, O, Owens, B, Gascard, J-C, Freeland, HJ, Wijffels, S, Roemmich, D, Wong, A; Observing high latitudes: extending the core Argo array; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

Brassington, GB, Chambers, C; What dynamics does Argo observe in the Tasman Sea?; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Vargas Hernandez, JM, Wijffels, S, Meyers, G, Holbrook, N; Using reanalysis and tide-gauge data to determine ocean decadal climate variability since 1950; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City, Presenter(s): Jose Vargas Hernandez

Oke, PR, Griffin, DA, Schiller, A, Matear, R, Fiedler, R, Mansbridge, JV, Cahill, M, Chamberlin, M, Ridgway, K; Validation of a near-global eddy-resolving ocean model; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Peter Oke

Vargas Hernandez, JM, Wijffels, S, Meyers, G, Holbrook, N; Diagnosing Indo-Pacific decadal subsurface ocean temperature modes; ARC Centre of Excellence for Climate System Science (COECSS) - first annual workshop, 25/09/2012 - 27/09/2012, Hobart, Presenter(s): Jose Vargas Hernandez

Doubell, M, James, C, Luick, J, Middleton, J; Development and application of ROMS based models for the South Australian region; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Mark Doubell

Wijeratne, S, Pattiaratchi, C, Proctor, R; Modelling meso-scale dynamics along western and southern Australian shelf and slopes: A ROMS modelling approach; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Sarath Wijeratne

Menezes, V, Phillips, H, Schiller, A, Bindoff, N, Domingues, CM; Eastward currents of the South Indian Ocean and associated fronts; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Viviane Menezes

Menezes, V, Phillips, H; Impact of salinity on the eastern Indian Ocean Circulation; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Viviane Menezes

Moltmann, T, Proctor, R, Donoghue, S; The 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

Feng, M, Benthuisen, J, Slawinski, D; La Nina causes extreme freshening of the Leeuwin Current; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Kerry, C, Roughan, M, Powell, B; A high resolution re-analysis for the East Australian Current; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Robson, B, Rizwi, F, Geoffroy, L, Brebion, J, Baird, ME, Skerratt, J, Mongin, M, Wild-Allen, K, Jones, EM, Margvelashvili, N, Herzfeld, M; The eReefs relocatable biogeochemical model (RECOM) and its parameter libraries; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra

Wijeratne, S, Pattiaratchi, C, Proctor, R; Estimates of alongshore and cross-shelf transports around Australia; Australian Coastal Ocean Modelling and Observations (ACOMO), 07/10/2014 - 08/10/2014, Canberra, Presenter(s): Sarath Wijeratne

Menezes, V, Vianna, M, Phillips, H; An evaluation of the Aquarius satellite data in the South Indian Ocean; ARCCSS 2014 Workshop, 24/11/2014 - 27/11/2014, Hunter Valley, Presenter(s): Viviane Menezes

Cahill, M, Griffin, DA; IMOS OceanCurrent gridded sea level and ocean surface velocity; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Madeleine Cahill

Kelly-Gerreyn, B, Ingham, B, Warne, J, Beggs, H, Schulz, E; The Australian Bureau of Meteorology's core marine observing networks; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Chapman, C, Sallee, J-B; Can We Reconstruct Mean and Eddy Fluxes from Argo Floats?; AMOS ICSHMO 2018, 05/02/2018 - 09/02/2018, University of New South Wales, Sydney, Presenter(s): Chris Chapman

Roach, C, Speer, K; Lagrangian Exchange between the ACC and the Ross Gyre; AMOS ICSHMO 2018, 05/02/2018 - 09/02/2018, University of New South Wales, Sydney, Presenter(s): Chris Roach

Rathore, S, Bindoff, N, Phillips, H, Feng, M; Hemispheric Asymmetry In Upper Ocean Heat Content : Role of Natural Variability; Ocean Sciences Meeting, 11/02/2018 - 16/02/2018, Portland, Presenter(s): Saurabh Rathore

Beja, J, Bricher, P, Diggs, S, Belbeoch, M, Casey, K, et, al.; Finding the data you need to support your Southern Ocean science; European Geosciences Union (EGU) General Assembly 2018, 08/04/2018 - 13/04/2018, Vienna, Presenter(s): Jo Beja

Bricher, P, Novellino, A, Gorringer, P, Alba, M, Zhang, J, Proctor, R; SOOSmap brings circumpolar Southern Ocean data to a computer near you; European Geosciences Union (EGU) General Assembly 2018, 08/04/2018 - 13/04/2018, Vienna, Presenter(s): Pip Bricher

Key Note Speaker

Wijffels, S; Opening Address; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Susan Wijffels

Meeting Presentation

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

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

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

Oke, PR; Observing system evaluation and inter-comparisons; GODAE Ocean View - GSOP - CLIVAR Workshop, 13/06/2011 - 17/06/2011, Santa Cruz, Presenter(s): Peter Oke

Feng, M; Indian Ocean Observing System; IOGOOS Marine Observation and Forecast Meeting, 30/03/2012 - 30/03/2012, Perth, Presenter(s): Ming Feng

Rintoul, S; The oceans and climate change; Hobart College Science Talk, 21/08/2013 - 21/08/2013, Hobart, Presenter(s): Steve Rintoul

Hardman-Mountford, NJ, Greenwood, J, Dufois, F; Development of an Indian Ocean bio-Argo programme: plans, sampling strategies and investigation of eddies as key biogeochemical features ; Murdoch University Seminar Series, 27/03/2014 - 27/03/2014, Murdoch University, Perth, Presenter(s): Nick Hardman-Mountford

Hardman-Mountford, NJ, Greenwood, J; Development of an Indian Ocean bio-Argo programme; International Indian Ocean Expedition2 (IIOE-2) Planning Meeting, 07/04/2014 - 08/04/2014, Perth, Presenter(s): Nick Hardman-Mountford

Rintoul, S; The oceans and climate change; The Friends School Science Talk, 07/04/2014 - 07/04/2014, Hobart, Presenter(s): Steve Rintoul

Wijffels, S; Potential collaborations with Argo as part of IIOE-2; SIBER and IOGOOS IIOE-2 Forum, 16/04/2014 - 16/04/2014, Perth, Presenter(s): Susan Wijffels

Rintoul, S; The oceans and climate change; Guilford Young College Science Talk, 20/05/2014 - 20/05/2014, Hobart, Presenter(s): Steve Rintoul

Hardman-Mountford, NJ, Greenwood, J, Dufois, F; Development of an Indian Ocean bio-Argo programme: plans, sampling strategies and investigation of eddies as key biogeochemical features; Floreat Site Leaders Meeting, 11/06/2014 - 11/06/2014, Perth, Presenter(s): Nick Hardman-Mountford

Wijffels, S, Roemmich, D, Van Wijk, EM, Rintoul, S, Riser, S, Klein, B, Boebel, O, Sallee, J-B, Owens, B; Argo: status and challenges; 14th Argo Data Management Meeting, 16/10/2014 - 18/10/2014, Liverpool, Presenter(s): Susan Wijffels

Menezes, V, Vianna, M, Phillips, H; Aquarius sea surface salinity in the south Indian Ocean: revealing annual-period planetary waves; American Geophysical Union (AGU) Fall Meeting, 15/12/2014 - 19/12/2015, San Fransisco, Presenter(s): Viviane Menezes

Wijffels, S, Roemmich, D, Van Wijk, EM, Rintoul, S, Riser, S, Klein, B, Boebel, O, Sallee, J-B, Owens, B; Status and failure of Argo; 16th Argo Steering Team Meeting, 18/03/2015 - 20/03/2015, Brest, Presenter(s): Sarath Wijeratne

Hardman-Mountford, NJ, Jones, EM, Huot, Y, Slawinski, D, Dufois, F, Wojtasiewicz, B, Van Wijk, EM, Ravichandran, M, Prakash, S; Designing a global bioArgo array: Insights from Argo, satellite remote sensing and global models in an Indian Ocean pilot study; International Biogeochemical Argo Science Planning Meeting, 11/01/2016 - 13/01/2016, Villefranch-sur-mer, Presenter(s): Nick Hardman-Mountford

Oke, PR; The upcoming marriage of Bluelink and Argo; Bluelink Science Meeting, 16/05/2017 - 17/05/2017, Melbourne, Presenter(s): Peter Oke

Session Chair

Session Convenor - New insights into the ocean and its circulation from Argo and GODAE; International Union of Geophysics and Geology (IUGG) General Assembly, 02/07/2007 - 13/07/2007, Perugia, Presenter(s): John Gould

Meeting Co-Chair - Argo Steering Team Meeting; Argo Steering Team Meeting, 15/03/2011 - 17/03/2011, Buenos Aires, Presenter(s): Susan Wijffels

Session Co-Chair - Recent advances in forecasting systems; GODAE Ocean View - GSOP - CLIVAR Workshop, 13/06/2011 - 17/06/2011, Santa Cruz, Presenter(s): Peter Oke

Wijffels, S; Meeting Co-Chair; 13th Argo Steering Team Meeting, 20/03/2012 - 22/03/2012, Paris

Rintoul, S; The Southern Ocean; 1st Scientific Committee on Antarctic Research (SCAR) Horizon Scan, 20/04/2014 - 23/04/2014, Queenstown, Presenter(s): Steve Rintoul

Symposium Presentation

Sutton, P, Wijffels, S, Ridgway, K; Strengthening Au/NZ contributions to Argo and sustaining the Tasman Box XBT lines; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Philip Sutton

Feng, M; The marine heat wave off WA; CMAR Science Symposium - Science, Impacts, Possibilities, 20/03/2012 - 22/03/2012, Hobart, Presenter(s): Ming Feng

Richardson, A; Climate Change Ecology: seeing the big picture; CMAR Science Symposium - Science, Impacts, Possibilities, 20/03/2012 - 22/03/2012, Hobart, Presenter(s): Anthony Richardson

Oke, PR, Griffin, DA, Schiller, A, Matear, R, Fiedler, R, Mansbridge, JV, Cahill, M, Chamberlin, M, Ridgway, K; A comparison of eddies in western boundary current regions; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Peter Oke

Ridgway, K, Hill, K; The EAC system: mean flow and time-varying circulation; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Ken Ridgway

Wijffels, S, Roemmich, D; A decade of Argo: achievements and future challenges; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Susan Wijffels

Wijffels, S, Roemmich, D; Uses of Argo in climate research; Symposium to Celebrate Argo's 1 Millionth Profile, 10/12/2012 - 10/12/2012, Washington DC, Presenter(s): Susan Wijffels

Wijffels, S, Roemmich, D, Van Wijk, EM, Rintoul, S, Riser, S, Klein, B, Boebel, O, Sallee, J-B, Owens, B; Argo: recent insights and future evolution; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Susan Wijffels

Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Herbette, S, Matear, R; Impact of eddies on surface chlorophyll in the south Indian Ocean; International Symposium on the Indian Ocean (IIOE-2), 30/11/2015 - 04/12/2015, Goa, Presenter(s): Francois Dufois

Workshop Presentation

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

Van Wijk, EM; Regional Circulation - Indonesian throughflow; Argo Delayed-Mode Quality Control Workshop, 10/09/2008 - 12/09/2008, Seattle, Presenter(s): Esmee Van Wijk

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

Durack, P, Wijffels, S; 50 Year Salinity Trends for the Global and Regional Oceans from Argo and Historical Data; 3rd Argo Science Workshop: The Future of Argo, 25/03/2009 - 27/03/2009, Hangzhou, Presenter(s): Esmee Van Wijk

Shi, L, Alves, O, Yin, Y, Balmaseda, MA, Hendon, H; A comparison of the representation of the main modes of ocean climate variability by two state-of-the-art ocean re-analyses; 5th World Meteorological Organisation Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology, 05/10/2009 - 09/10/2009, Melbourne

Wedd, R, Alves, O, Yin, Y; Equatorial Pacific Salinity Fields with PEOAS; 5th World Meteorological Organisation Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology, 05/10/2009 - 09/10/2009, Melbourne

Yin, Y, Alves, O, Oke, PR, Tseitkin, F; An ensemble ocean data assimilation for seasonal prediction; 5th World Meteorological Organisation Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology, 05/10/2009 - 09/10/2009, Melbourne

Wijffels, S; Use of Iridium in the Argo Australian Array; Argo Iridium Users Workshop, 20/10/2010 - 22/10/2010, Hamburg, Presenter(s): Susan Wijffels

Craig, P, Brassington, GB, Haynes, J, Schiller, A, Pugh, TF, Sandery, PA, Oke, PR, Symonds, G; BLUElink - status, challenges and future; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Peter Craig

Middleton, J, Pattiaratchi, C, Roughan, M, Luick, J, Ivey, GN, Lowe, R, Phillips, H, Benthuyzen, J, Wijeratne, S, MacDonald, HS; ROMS Modelling in Australia: status, plans and aspirations; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): John Middleton

Ridgway, K, Schulz, E, Oke, PR, Wijffels, S, Strutton, P; Bluewater in-situ observations - applications to models; Australian Coastal Ocean Modelling and Observations - ACOMO, 03/10/2012 - 04/10/2012, Canberra, Presenter(s): Ken Ridgway

Munoz Mas, C, Steinberg, C, McAllister, F, Rigby, P, Tonin, H, Herzfeld, M; Q-IMOS monitoring and eReefs modelling: a partnership to monitor the oceanography and water quality of the Great Barrier Reef; Australian Coral Reef Society Workshop, 28/08/2013 - 30/08/2013, Sydney, Presenter(s): C Munoz Mas

Wijffels, S, Van Wijk, EM, Rintoul, S, Roemmich, D, Riser, S, Klein, B, Boebel, O, Sallee, J-B, Owens, B; Argo in the Antarctic Sea-Ice Zone: progress and challenges; SOOS Workshop, 08/06/2015 - 12/06/2015, Institute of Marine and Antarctic Studies, Hobart, Presenter(s): Susan Wijffels

Baird, ME, Mongin, M, Skerratt, J, Wild-Allen, K, et, al.; eReefs marine modelling: an inter-governmental agency collaboration providing management-relevant estimates of ocean state and the impact of river loads; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Mark Baird

Brassington, GB, Tuteja, N, Stuart, G, Treleaven, J; eReefs: an integrated catchment and coastal forecasting system for the Great Barrier Reef; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Gary Brassington

Cetina-Heredia, P, Roughan, M, Liggins, G, Jeffs, A, Coleman, M; Developing models to predict East Rock lobster larval dispersal along NSW; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Paulina Cetina-Heredia

Janekovic, I, Pattiaratchi, C, et, al.; Predicting the ocean and continental shelf dynamics off southeastern and central Western Australia using advanced ROMS capabilities; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Ivica Janekovic

Middleton, J, Griffin, DA, Luick, J, Herzfeld, M; Hydrodynamic modelling of the circulation in the Great Australian Bight; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): John Middleton

Oliver, ECJ, Lago, V, Hobday, A, Holbrook, N, Ling, S, Mundy, C; Identifying historical marine heatwaves off eastern Tasmania with a regional ocean model; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Eric Oliver

Roughan, M, Kerry, C, Rao, S, et, al.; Modelling and observing the East Australian Current system and its impacts on shelf circulation, Lagrangian transport and biogeochemistry; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Moninya Roughan

Rykova, T, Oke, PR; Merging of East Australian Current eddies observed by Argo float; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Tatiana Rykova