

Argo Australia



Research Projects

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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, 2013-2018, 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

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

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

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

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

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

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

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

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

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

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

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

Community White Papers / Technical Papers

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

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 15

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

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Journals

- Tomczak, M 2007, Variability of Antarctic intermediate water properties in the South Pacific Ocean, *Ocean Science*, vol. 3, pp. 363-377
- Power, SB, Plummer, N, Alford, P 2007, Making climate model forecasts more useful, *Australian Journal of Agricultural and Resource Economics*, vol. 58, no. 10, pp. 945-951, doi:10.1071/AR06196
- Oke, PR, Schiller, A 2007, Impact of Argo, SST, and altimeter data on an eddy-resolving ocean reanalysis, *Geophysical Research Letters*, vol. 34, doi:10.1029/2007GL031549
- 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
- Schiller, A, Oke, PR, Brassington, GB, Entel, M, Griffin, DA, Mansbridge, JV, Fiedler, R 2008, Eddy-resolving ocean circulation in the Asian-Australian region inferred from an ocean reanalysis effort, *Progress in Oceanography*, vol. 76, no. 3, pp. 334-365, doi:10.1016/j.pocean.2008.01.003
- 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
- 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
- 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
- Oke, PR, Sakov, P 2008, Representation error of oceanic observations for data assimilation, *Journal of Atmospheric and Oceanic Technology*, vol. 25, pp. 1004-1017
- 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
- 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
- Oke, PR, Schulz, E, Sakov, P 2009, A comparison of shelf observation platforms for assimilation into an eddy-resolving ocean model, *Dynamics of Atmospheres and Oceans*, vol. 48, pp. 121-142
- Schiller, A, Ridgway, K, Steinberg, C, Oke, PR 2009, Dynamics of three anomalous SST events in the Coral Sea, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL036997
- Roemmich, D, et. al. 2009, Argo: the challenge of continuing 10 years of progress, *Oceanography*, vol. 22, no. 3, pp. 46-55
- Hurlburt, HE, Brassington, GB, Drillet, Y, Kamachi, M, Benkiran, M, Bourdalle-Baude, R, Chassignet, EP, Jacobs, GA, Le Galloudec, O, Lellouche, JM, Metzger, EJ, Oke, PR, Pugh, TF, Schiller, A, Smedstad, OM, Tranchant, B, Tsujino, H, Usui, N, Wallcraft, AJ 2009, High resolution global and basin-scale ocean analyses and forecasts, *Oceanography*, vol. 22, no. 3, pp. 110-127

- Cai, W, Pan, A, Roemmich, D, Cowan, T, Guo, X 2009, Argo profiles a rare occurrence of three consecutive positive Indian Ocean Dipole events, 2006-2009, *Geophysical Research Letters*, vol. 36, doi:10.1029/2008GL037038
- You, Y 2009, Thermocline circulation and ventilation of the Japan/East Sea, part II: a Source Water-Mass Mixing (SWAM) model, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1049-1078, doi:10.1016/j.dsr.2010.05.001
- Brasseur, P, Gruber, N, Barciela, R, Brander, K, Doron, M, El Moussaoui, A, Hobday, A, Huret, M, Kremer, AS, Lehodey, P, Matear, R, Moulin, C, Murtugudde, R, Senina, I, Svendsen, E 2009, Integrating biogeochemistry and ecology into ocean data assimilation systems, *Oceanography*, vol. 22, pp. 206-215
- Dombrowsky, E, Bertino, L, Brassington, GB, Chassignet, EP, Davidson, F, Hurlburt, HE, Kamachi, M, Lee, T, Martin, MJ, Mei, S, Tonani, M 2009, GODAE systems in operation, *Oceanography*, vol. 22, no. 3, pp. 80-95
- Brassington, GB, Divakaran, P 2009, The theoretical impact of remotely sensed sea surface salinity observations in a multi-variate assimilation system, *Ocean Modelling*, vol. 27, no. 1-2, pp. 70-81, doi:10.1016/J.ocemod.2008.12.005
- Sokolov, S, Rintoul, S 2009, The circumpolar structure and distribution of the Antarctic circumpolar current fronts. Part 1: mean circumpolar paths, *Journal of Geophysical Research - Oceans*, vol. 114, doi:10.1029/2008JC005108
- Sokolov, S, Rintoul, S 2009, The circumpolar structure and distribution of the Antarctic circumpolar current fronts. Part 2: variability and relationship to sea surface height, *Journal of Geophysical Research - Oceans*, vol. 114, doi:10.1029/2008JC005248
- Jacobs, GA, Woodham, RH, Jourdan, D, Braithwaite, J 2009, GODAE applications useful to Navies throughout the world, *Oceanography*, vol. 22, no. 3, pp. 182-189
- Oke, PR, Balmaseda, MA, Benkiran, M, Cummings, J, Dombrowsky, E, Fujii, Y, Guinehut, S, Larnicol, G, LeTraon, P, Martin, MJ 2009, Observing system evaluations using GODAE systems, *Oceanography*, vol. 22, no. 3, pp. 144-153, doi:10.5670/oceanog.2009.72.
- Helm, KP, Bindoff, N, Church, JA 2010, Changes in the global hydrological-cycle inferred from ocean salinity, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044222
- Drushka, K, Sprintall, J, Gille, ST, Brodjonegoro, I 2010, Vertical structure of Kelvin waves in the Indonesian throughflow exit passages, *Journal of Physical Oceanography*, vol. 40, no. 9, pp. 1965-1987, doi:10.1175/2010JPO4380.1
- Sandery, PA, Brassington, GB, Craig, A, Pugh, TF 2010, Impacts of ocean-atmosphere coupling on tropical cyclone intensity change and ocean prediction in the Australian region, *Monthly Weather Review*, vol. 138, no. 1, pp. 2074-2091, doi:10.1175/2010MWR3101.1
- Thresher, RE, Wilson, NC, MacRae, CM, Neil, H 2010, Temperature effects on the calcite skeletal composition of deep-water gorgonians (Isidiidae), *Geochimica et Cosmochimica Acta*, vol. 74, no. 16, pp. 4655-4670, doi:10.1016/j.gca.2010.05.024
- Nairn, R, Bateman, S, Woodham, RH 2010, Oceanography and Force 2030: harnessing Australian marine science as a force multiplier, *Australian Defence Force Journal*, vol. 182, pp. 5-15
- Woodham, RH, Exelby, J 2010, Using ocean forecast data to improve sonar range prediction: harnessing advances in operational oceanography for anti-submarine warfare, and other naval applications, *Sea Technology*, vol. 51, no. 11
- Herraiz-Borreguero, L, Rintoul, S, Coleman, R 2010, Subantarctic Mode Water variability influenced by mesoscale eddies south of Tasmania, *Journal of Geophysical Research - Oceans*, vol. 115, doi:10.1029/2008JC005146.2010
- Brassington, GB 2010, Estimating surface divergence of ocean eddies using observed trajectories from a surface drifting buoy, *Journal of Atmospheric and Oceanic Technology*, vol. 27, no. 4, pp. 705-720, doi:10.1175/2009JTECHO651.1
- Lee, T, Awaji, T, Balmaseda, MA, Ferry, N, Fujii, Y, Fukumori, I, Giese, B, Heimbach, P, Kohl, A, Masina, S, Remy, E, Rosati, A, Schodlok, M, Stammer, D, Weaver, A 2010, Consistency and fidelity of Indonesian-throughflow total volume transport estimated by 14 ocean data assimilation products, *Dynamics of Atmospheres and Oceans*, vol. 50, no. 2, pp. 207-223, doi:10.1016/J.dynatmoce.2009.12.004

Liu, Y, Bye, JAT, You, Y, Bao, X, Wu, D 2010, The flushing and exchange of the South China Sea derived from salt and mass conservation, *Deep Sea Research Part II*, vol. 57, no. 13-14, pp. 1212-1220, doi:10.1016/J.dsr2.2009.12.010

Sloyan, B, Talley, LD, Chereskin, TK, Fine, R, Holte, J 2010, Antarctic intermediate water and subantarctic mode water formation in the Southeast Pacific: the role of turbulent mixing, *Journal of Physical Oceanography*, vol. 40, no. 7, pp. 1558-1574, doi:10.1175/2010JPO4114.1

Zika, JD, McDougall, TJ, Sloyan, B 2010, Weak mixing in the eastern North Atlantic: an application of the tracer-contour inverse method, *Journal of Physical Oceanography*, vol. 40, no. 8, pp. 1881-1893, doi:10.1175/2010JPO4260.1

Santoso, A, Sen Gupta, AS, England, MH 2010, Genesis of Indian Ocean mixed layer temperature anomalies: A heat budget analysis, *Journal of Climate*, vol. 23, no. 20, pp. 5375-5403, doi:10.1175/2010JCLI3072.1

Ridgway, K, Dunn, JR 2010, Using satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part I*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/J.dsr.2010.05.010

Sallee, J-B, Speer, K, Rintoul, S, Wijffels, S 2010, Southern Ocean thermocline ventilation, *Journal of Physical Oceanography*, vol. 40, no. 3, pp. 509-529, doi:10.1175/2009JPO4291.1.

Durack, P, Wijffels, S 2010, Fifty-year trends in global ocean salinities and their relationship to broad-scale warming, *Journal of Climate*, vol. 23, no. 16, pp. 4342-4362, doi:10.1175/2010JCLI3377.1

Williams, G, Meijers, AJS, Poole, A, Mathiot, P, Tamura, T, Klocker, A 2010, Late winter oceanography off the Sabrina and BANZARE coast (117-128 E), East Antarctica, *Deep Sea Research Part II*, vol. 58, no. 9-10, pp. 1194-1210, doi:10.1016/j.dsr2.2010.10.035

Aoki, S, Yoshikasu, S, Sasaki, H, Mitsudera, H, Williams, G 2010, The cyclonic circulation in the Australian-Antarctic basin simulated by an eddy-resolving general circulation model, *Ocean Dynamics*, vol. 60, no. 3, pp. 743-757, doi:10.1007/s10236-009-0261-y

Diamond, HJ, Plummer, N, Walsh, CT 2010, Southern hemisphere meteorology and oceanography, *Bulletin of the American Meteorological Society*, vol. 91, no. 2, pp. 245-249

Ganachaud, AS, Vega, A, Rodier, M, Dupouy, C, Maes, C, Marchesiello, P, Eldin, G, Ridgway, K, Le Borgne, R 2010, Observed impact of upwelling events on water properties and biological activity off the southwest coast of New Caledonia, *Marine Pollution Bulletin*, vol. 61, no. 7, pp. 449-464, doi:10.1016/j.marpolbul.2010.06.042

You, Y, Chang, KI, Yun, JY, Kim, KR 2010, Thermocline circulation and ventilation of the East/Japan Sea, part I: water-mass characteristics and transports, *Deep Sea Research Part II*, vol. 57, no. 13-14, pp. 1221-1246, doi:10.1016/j.dsr2.2009.12.011

Ridgway, K, Dunn, JR 2010, Satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia, *Deep Sea Research Part II*, vol. 57, no. 9, pp. 1137-1151, doi:10.1016/j.dsr.2010.05.010.

Schiller, A, Wijffels, S, Sprintall, J, Molcard, R, Oke, PR 2010, Pathways of intraseasonal variability in the Indonesian throughflow region, *Dynamics of Atmospheres and Oceans*, vol. 50, pp. 174-200, doi:10.1016/j.dynatmoce.2010.02.003

Cai, W, Cowan, T, Godfrey, S, Wijffels, S 2010, Simulations of processes associated with the fast warming rate of the southern midlatitude ocean, *Journal of Climate*, vol. 23, no. 1, pp. 197-206, doi:10.1175/2009jch1308.1

Walsh, K, Sandery, PA, Brassington, GB, Pak, B, Entel, M, Siegenthaler-LeDrian, C, Kepert, J, Dargaville, R 2010, Constraints on exchange coefficients in tropical cyclones at extreme wind speeds, *Journal of Geophysical Research - Oceans*, doi:10.1029/2009JC005876

Oke, PR, Brassington, GB, Griffin, DA, Schiller, A 2010, Ocean data assimilation: a case for ensemble optimal interpolation, *Australian Meteorological and Oceanographic Journal*, vol. 59, pp. 67-76

Andreu-Burillo, I, Brassington, GB, Oke, PR, Beggs, H 2010, Including a new data stream in the Bluelink Ocean Data Assimilation System, *Australian Meteorological and Oceanographic Journal*, vol. 59, pp. 77-86

Godfrey, S, Dunn, JR 2010, Depth-integrated steric height as a tool for detecting non-Sverdrup behavior in the global ocean, *Journal of Marine Research*, vol. 68, no. 3-4, pp. 387-412, doi:10.1357/002224010794657100

Van Wijk, EM, Rintoul, S, Ronai, BM, Williams, G 2010, Regional circulation around Heard and McDonald Islands and through the Fawn Trough, central Kerguelen Plateau, *Deep Sea Research Part I*, vol. 57, no. 5, pp. 653-669, doi:10.1016/J.dsr.2010.03.001

Feng, M, McPhaden, M, Lee, T 2010, Decadal variability of the Pacific subtropical cells and their influence on the southeast Indian Ocean, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL042796

Clark, M, Althaus, F, Williams, A, Niklitschek, E, Menezes, GM, Hareide, NR, Sutton, P, O'Donnell, C 2010, Are deep-sea demersal fish assemblages globally homogenous? Insights from seamounts, *Marine Ecology - An Evolutionary Perspective*, vol. 31, pp. 39-51, doi:10.1111/j.1439-0485.2010.00384.x

Williams, A, Althaus, F, Dunstan, P, Poore, G, Bax, N, Kloser, R, McEnnulty, F 2010, Scales of habitat heterogeneity and megabenthos biodiversity on an extensive Australian continental margin (100-1100 m depths), *Marine Ecology - An Evolutionary Perspective*, vol. 31, no. 1, pp. 222-236, doi:10.1111/j.1439-0485.2009.00355.x

Sallee, J-B, Speer, K, Rintoul, S 2010, Response of the Southern Ocean mixed-layer depth to climate variability, *Nature Geoscience*, vol. 3, no. 4, pp. 273-279, doi:10.1038/ngeo812

Williams, G, Hindell, MA, Houssais, MN, Tamura, T, Field, IC 2010, Upper ocean stratification and sea ice growth rates during the summer-fall transition, as revealed by Elephant seal foraging in the Adélie Depression, East Antarctica, *Ocean Science*, vol. 7, pp. 1913-1951, doi:10.5194/osd-7-1913-2010

Kloser, R, Penrose, JD, Butler, AJ 2010, Multi-beam backscatter measurements used to infer seabed habitats, *Continental Shelf Research*, vol. 30, no. 16, pp. 1772-1782, doi:10.1016/j.csr.2010.08.004

Feng, M, Slawinski, D, Beckley, L, Keesing, J 2010, Retention and dispersal of shelf waters influenced by interactions of ocean boundary current and coastal geography, *Marine and Freshwater Research*, vol. 61, no. 11, pp. 1259-1267, doi:10.1071/MF09275

Sallee, J-B, Speer, K, Rintoul, S 2010, Zonally asymmetric response of the Southern Ocean mixed-layer depth to the Southern Annular Mode, *Nature Geoscience*, vol. 3, pp. 273-279, doi:10.1038/ngeo812

Cai, W, Cowan, T, Arblaster, JM, Wijffels, S 2010, On potential causes for an under-estimated global ocean heat content trend in CMIP3 models, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044399

Herraiz-Borreguero, L, Rintoul, S 2011, Regional circulation and its impact on upper ocean variability south of Tasmania (Australia), *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2071-2081, doi:10.1016/j.dsr2.2011.05.022

Holbrook, N, Goodwin, ID, McGregor, S, Molina, E, Power, SB 2011, ENSO to multi-decadal time scale changes in East Australian Current transports and Fort Denison sea level: Oceanic Rossby waves as the connecting mechanism, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 547-558, doi:10.1016/j.dsr2.2010.06.007

Liu, Q, Feng, M, Wang, D 2011, ENSO-induced interannual variability in the southeastern South China Sea, *Journal of Oceanography*, vol. 67, no. 1, pp. 127-133, doi:10.1007/s10872-011-0002-y

Herraiz-Borreguero, L, Rintoul, S 2011, Subantarctic Mode Water: distribution and circulation, *Ocean Dynamics*, vol. 61, no. 1, pp. 103-126, doi:10.1007/s10236-010-0352-9

Meijers, AJS, Bindoff, N, Rintoul, S 2011, Estimating the 4-dimensional structure of the Southern Ocean using satellite altimetry, *Journal of Atmospheric and Oceanic Technology*, vol. 28, pp. 548-568, doi:10.1175/2010JTECHO790.1

Williams, A, Althaus, F, Clark, M, Gowlett-Holmes, K 2011, Composition and distribution of deep-sea benthic invertebrate megafauna on the Lord Howe Rise and Norfolk Ridge, southwest Pacific Ocean, *Deep Sea Research Part II*, vol. 58, no. 7-8, pp. 948-958, doi:10.1016/j.dsr2.2010.10.050

Hill, K, Rintoul, S, Ridgway, K, Oke, PR 2011, Decadal changes in the South Pacific western boundary current system revealed in observations and reanalysis state estimates, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2009JC005926

Baird, ME, Suthers, I, Griffin, DA, Hollings, B, Pattiaratchi, C, Everett, JD, Roughan, M, Oubelkheir, K, Doblin, MA 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

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling coastal connectivity in a western boundary current: seasonal and inter-annual variability, *Deep Sea Research Part II*, vol. 58, pp. 628-644, doi:10.1016/j.dsr2.2010.06.004

Durack, P, Wijffels, S, Bindoff, N 2011, Ocean salinity: a water cycle diagnostic?, *Bulletin of the American Meteorological Society*, vol. 92, no. 6, pp. 91-93, doi:10.1175/1520-0477-92.6.S1

Brassington, GB, Summons, N, Lumpkin, R 2011, Observed and simulated Lagrangian and eddy characteristics of the East Australian Current and the Tasman Sea, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 559-573, doi:10.1016/j.dsr2.2010.10.001

Ciasto, LM, Alexander, MA, Deser, C, England, MH 2011, On the persistence of cold-season SST anomalies associated with the annular modes, *Journal of Climate*, vol. 24, pp. 2500-2515, doi:10.1175/2010JCLI3535.1

Johnson, G, Wijffels, S 2011, Ocean density change contributions to sea level rise, *Oceanography*, vol. 24, no. 2, pp. 112-121, doi:10.5670/oceanog.2011.31

Langlais, C, Rintoul, S, Schiller, A 2011, Variability and mesoscale activity of the Southern Ocean fronts: identification of a circumpolar coordinate system, *Ocean Modelling*, vol. 39, no. 1-2, pp. 79-96, doi:10.1016/j.ocemod.2011.04.010

O'Kane, TJ, Oke, PR, Sandery, PA 2011, Predicting the East Australian Current, *Ocean Modelling*, vol. 38, pp. 251-266

Oke, PR, Griffin, DA 2011, The cold-core eddy and strong upwelling off the coast of New South Wales in early 2007, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 574-591, doi:10.1016/j.dsr2.2010.06.006

Sallee, J-B, Rintoul, S 2011, Parameterization of eddy-induced subduction in the Southern Ocean surface layer, *Ocean Modelling*, vol. 39, pp. 146-153

Strutton, P, Martz, TM, DeGrandpre, MD, McGillis, WR, Drennan, WM, Boss, E 2011, Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom, *Journal of Geophysical Research - Oceans*, vol. 116, C11037, doi:10.1029/2010JC006872

O'Kane, TJ, Oke, PR, Sandery, PA 2011, Ensemble prediction study of the East Australian Current, *Australian and New Zealand Industrial and Applied Mathematics Journal*, vol. 52, pp. 38-55

Feng, M, Caputi, N, Penn, J, Slawinski, D, de Lestang, S, Pearce, A 2011, Ocean circulation, Stokes drift and connectivity of western rock lobster population, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 68, pp. 1182-1196

Schiller, A 2011, Ocean circulation on the North Australian Shelf, *Continental Shelf Research*, vol. 31, no. 10, pp. 1087-1095, doi:10.1016/j.csr.2011.03.013

Martin, MJ, et, al. 2011, Group for High Resolution SST (GHRSSST) analysis fields intercomparisons. Part 1: A GHRSSST Multi-Product Ensemble (GMPE), *Deep Sea Research Part II*, vol. 77, no. 15, pp. 21-30, doi:/10.1016/j.dsr2.2012.04.013

Sandery, PA, Brassington, GB 2011, Adaptive nonlinear dynamical initialization, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2010JC006260

Yin, Y, Alves, O, Oke, PR 2011, An ensemble ocean data assimilation system for seasonal prediction, *Monthly Weather Review*, doi:10.1175/2010MWR3419.0

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

Roughan, M, MacDonald, HS, Baird, ME, Glasby, TM 2011, Modelling seasonal and interannual variability in a western boundary current and its impact on coastal connectivity, *Deep Sea Research Part II*, vol. 58, no. 5, pp. 628-644, doi:10.1016/J.dsr2.2010.06.009

Coleman, M, Roughan, M, MacDonald, HS, Connell, SD, Gillanders, B, Kelaher, BP, Steinberg, C 2011, Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp, *Journal of Ecology*, vol. 99, no. 4, pp. 1026-1032, doi:10.1111/j.1365-2745.2011.01822.x

Weller, E, Holliday, D, Feng, M, Beckley, L, Thompson, P 2011, A continental shelf scale examination of the Leeuwin Current off Western Australia during the austral autumn-winter, *Continental Shelf Research*, vol. 31, pp. 1858-1868, doi:10.1016/j.csr.2011.08.008

Pearce, A, Slawinski, D, Feng, M, Hutchins, B, Fearn, PRCS 2011, Modelling the potential transport of tropical fish larvae in the Leeuwin Current, *Continental Shelf Research*, vol. 31, pp. 2018-2040, doi:10.1016/j.csr.2011.10.006

Baird, ME, Everett, JD, Suthers, I 2011, Analysis of southeast Australian zooplankton observations of 1938-42 using synoptic oceanographic conditions, *Deep Sea Research Part II*, vol. 58, pp. 699-711

Church, JA, White, N, Konikow, LF, Domingues, CM, Cogley, JG, Rignot, E, Gregory, JM, van den Broeke, MR, Monaghan, AJ, Velicogna, I 2011, Revisiting the Earth's sea-level and energy budgets from 1961 to 2008, *Geophysical Research Letters*, vol. 38, doi:10.1029/2011GL048794

Czeschel, RL, Stramma, L, Schwarzkopf, FU, Giese, B, Funk, A, Karstensen, J 2011, Middepth circulation of the eastern tropical South Pacific and its link to the oxygen minimum zone, *Journal of Geophysical Research - Oceans*, vol. 116, doi:10.1029/2010JC006565

Divakaran, P, Brassington, GB 2011, Arterial ocean circulation of the southeast Indian Ocean, *Geophysical Research Letters*, vol. 38, doi:10.1029/2010GL045574

Downes, SM, Gnanadesikan, A, Griffies, S, Sarmiento, JL 2011, Water mass exchange in the Southern Ocean in coupled climate models, *Journal of Physical Oceanography*, vol. 41, pp. 1756-1771, doi:10.1175/2011JPO4586.1

Feng, M, Boning, CW, Biastoch, A, Behrens, E, Weller, E, Masumoto, Y 2011, The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian throughflow and Leeuwin Current transports, *Geophysical Research Letters*, vol. 38, no. 11, doi:10.1029/2011GL047291

Hobday, A, Hartog, JR, Spillman, CM, Alves, O 2011, Seasonal forecasting of tuna habitat for dynamic spatial management, *Canadian Journal of Fisheries and Aquatic Sciences*, vol. 68, pp. 898-911, doi:10.1139/f2011-031

Lee, M, Nurser, AJG, Stevens, I, Sallee, J-B 2011, Subduction over the Southern Indian Ocean in a high-resolution atmosphere-ocean coupled model, *Journal of Climate*, vol. 24, pp. 3830-3849, doi:10.1175/2011JCLI3888.1

Meijers, AJS, Bindoff, N, Rintoul, S 2011, Estimating the four-dimensional structure of the Southern Ocean using Satellite Altimetry, *Journal of Atmospheric and Oceanic Technology*, vol. 28, pp. 548-568, doi:10.1175/2010JTECHO790.1

Meijers, AJS, Bindoff, N, Rintoul, S 2011, Frontal movements and property fluxes: contributions to heat and freshwater trends in the Southern Ocean, *Journal of Geophysical Research - Oceans*, vol. 116, no. C8, doi:10.1029/2010JC006832

Mongin, M, Matear, R, Chamberlin, M 2011, Seasonal and spatial variability of remotely sensed chlorophyll and physical fields in the SAZ-Sense region, *Deep Sea Research Part II*, vol. 58, pp. 2082-2093

Zhang, X, Cornuelle, B, Roemmich, D 2011, Adjoint sensitivity of the Nino-3 surface temperature to wind forcing, *Journal of Climate*, vol. 24, pp. 4480-4493, doi:10.1175/2011JCLI3917.1

Barker, PM, Dunn, JR, Wijffels, S, Domingues, CM 2011, Pressure sensor drifts in Argo and their impacts, *Journal of Atmospheric and Oceanic Technology*, vol. 28, no. 8, pp. 1036-1049, doi:10.1175/2011JTECHO831.1

Wu, L, Cai, W, Zhang, L, Nakamura, H, Timmermann, A, Joyce, T, McPhaden, M, Alexander, MA, Qiu, B, Visbeck, M, Chang, P, Giese, B 2012, Enhanced warming over the global subtropical western boundary currents, *Nature Climate Change*, no. 2, pp. 161-166, doi:DOI: 10.1038/NCLIMATE1353

Gleckler, P, Santer, BD, Domingues, CM, Pierce, DW, Barnett, TP, Church, JA, Taylor, KE, AchutaRao, KM, Boyer, T, Ishii, M, Caldwell, PM 2012, Human-induced global ocean warming on multidecadal timescales, *Nature Climate Change*, vol. 2, pp. 524-529, doi:10.1038/nclimate1553

Zavala-Garay, J, Arango, HG, Wilkin, J 2012, Predictability of mesoscale variability in the East Australian Current given strong-constraint data assimilation, *Journal of Physical Oceanography*, doi:10.1175/JPO-D-11-0668.1

Xue, Y, Balmaseda, MA, Boyer, T, Ferry, N, Good, S, Ishikawa, Y, Kumar, A, Rienecker, M, Rosati, A, Yin, Y 2012, A comparative analysis of upper-ocean heat content variability from an ensemble of operational oceans reanalyses, *Journal of Climate*, vol. 25, pp. 6905-6929, doi:10.1175/JCLI-D-00542.1

Oke, PR, Brassington, GB, Cummings, J, Martin, MJ, Hernandez, F 2012, GODAE inter-comparisons in the Tasman and Coral Seas, *Journal of Operational Oceanography*, vol. 5, pp. 11-24

Baird, ME, Ridgway, K 2012, The southward transport of sub-mesoscale lenses of Bass Strait Water in the centre of anti-cyclonic mesoscale eddies, *Geophysical Research Letters*, vol. 39, doi:10.1029/2011GL050643

Durack, P, Wijffels, S, Matear, R 2012, Ocean salinities reveal strong global water cycle intensification during 1950 to 2000, *Science*, vol. 336, no. 6080, pp. 455-458, doi:10.1126/science.1212222

Nuccitelli, D, Way, R, Painting, R, Church, JA, Cook, J 2012, Comment on ocean heat content and Earth's radiation imbalance. II. Relation to climate shifts., *Physics Letters A*, vol. 376, pp. 3466-3468, doi:10.1016/j.physleta.2012.10010

Chaojiao, S, Feng, M, Matear, R, Chamberlin, M, Schiller, A 2012, Marine downscaling of a future climate scenario for Australian boundary currents, *Journal of Climate*, vol. 25, pp. 2947-2962

Dash, P, Ignatov, A, Martin, MJ, Donlon, CJ, Brasnett, B, Reynolds, R, Banzon, V, Beggs, H, Cayula, J, Chao, Y, Grumbine, R, Maturi, E, Harris, A, Mittaz, J, Sapper, J, Chin, TM, Vazquez-Cuervo, J, Armstrong, E, Gentemann, C, Cummings, J, Piolle, J, Autret, E, Roberts-Jones, J, Ishizaki, S, Hoyer, J, Poulter, D 2012, Group for High Resolution Sea Surface Temperature (GHRSSST) analysis fields inter-comparisons - Part 2: near real time web-based level 4 SST Quality Monitor (L4-SQUAM), *Deep Sea Research Part II*, vol. 77, no. 15, pp. 31-43, doi:10.1016/j.dsr2.2012.04.002

Drushka, K, Sprintall, J, Gille, ST, Wijffels, S 2012, In situ observations of Madden-Julian Oscillation mixed layer dynamics in the Indian and Western Pacific Oceans, *Journal of Climate*, vol. 25, pp. 2306-2328, doi:10.1175/JCLI-D-11-00203.1

Holte, J, Talley, LD, Chereskin, TK, Sloyan, B 2012, The role of air-sea fluxes in Subantarctic Mode Water formation, *Journal of Geophysical Research - Oceans*, vol. 117, doi:10.1029/2011JC007798

Qiu, Y, Cai, W, Li, L, Guo, X 2012, Argo profiles variability of barrier layer in the tropical Indian Ocean and its relationship with the Indian Ocean Dipole, *Geophysical Research Letters*, vol. 39, doi:10.1029/2012GL051441

Rayson, MD, Jones, N, Ivey, GN 2012, Temporal variability of the standing internal tide in the Browse Basin, Western Australia, *Journal of Geophysical Research - Oceans*, vol. 117, doi:10.1029/2011JC007523

Sallee, J-B, Matear, R, Rintoul, S, Lenton, A 2012, Localized subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans, *Nature Geoscience*, vol. 5, pp. 579-584, doi:10.1038/ngeo1523

Yang, Y, Sun, L, Duan, A, Li, Y, Fu, Y, Yan, Y, Wang, Z, Xian, T 2012, Impacts of the binary typhoons on upper ocean environments in November 2007, *Journal of Applied Remote Sensing*, vol. 6, doi:10.1177/1.JRS.6.063583

Weller, E, Feng, M, Harry, H, Jian, M, Shang-Ping, X, Caputi, N 2012, Interannual variations of wind regimes off the subtropical Western Australia coast during austral winter and spring, *Journal of Climate*, vol. 25, no. 16, pp. 5587-5599, doi:10.1175/JCLI-D-11-00324.1

Rintoul, S, Meredith, MP, Schofield, O, Newman, L 2012, The Southern Ocean Observing System, *Oceanography*, vol. 25, no. 3, pp. 68-69, doi:10.5670/oceanog.2012.76

Fieschi, MR, Rintoul, S, Gouillon, J, Pelegri, J 2013, The Tasman leakage as inferred from Argo floats, *Geophysical Research Letters*, vol. 40, pp. 1-5, doi:10.1002/2013GL057797

Oke, PR, Sakov, P, Cahill, M, Dunn, JR, Fiedler, R, Griffin, DA, Mansbridge, JV, Ridgway, K, Schiller, A 2013, Towards a dynamically balanced eddy-resolving ocean reanalysis: BRAN3, *Ocean Modelling*, vol. 67, pp. 52-70, doi:10.1016/j.ocemod.2013.03.008

Feng, M, McPhaden, M, Xie, S, Hafner, J 2013, La Nina forces unprecedented Leeuwin Current warming in 2011, *Scientific Reports*, vol. 3, no. 1277, doi:10.1038/srep01277

Bostock, HC, Sutton, P, Williams, MJM, Opdyke, B 2013, Reviewing the circulation and mixing of Antarctic intermediate water in the South Pacific using evidence from geochemical tracers and Argo float trajectories., *Deep Sea Research Part I*, vol. 73, <http://www.sciencedirect.com/science/article/pii/S0967063712002270>, pp. 84-98

Cai, W, Qiu, Y 2013, An observation-based assessment of nonlinear feedback processes associated with the Indian Ocean Dipole, *Journal of Climate*, vol. 26, no. 9, pp. 2880-2890, doi:10.1175/JCLI-D-12-00483.1

Holte, J, Talley, LD, Chereskin, TK, Sloyan, B 2013, Subantarctic mode water in the southeast Pacific: effect of the exchange across the Subantarctic Front. , *Journal of Geophysical Research - Oceans*, vol. 118, pp. 2052-2066, doi:10.1002/jgrc.20144

Jaffres, JBD 2013, Mixed layer depth seasonality with Coral Sea based on Argo data , *PLoS One*, vol. 8, no. e60985, doi:10.1371/journal.pone.0060985

Otto, A, Otto, FEL, Boucher, O, Church, JA, Hegerl, G, Forster, PM, Gillett, NP, Gregory, JM, Johnson, G, Knutti, R, Lewis, N, Lohman, U, Marotzke, J, Myhre, G, Shindell, D, Stevens, B, Allen, MR 2013, Energy budget constraints on climate response, *Nature Geoscience*, vol. 6, pp. 415-416, doi:10.1038/ngeo1386

Sallee, J-B, Shuckburgh, E, Bruneau, N, Bracegirdle, T, Wang, Z, Meijers, AJS 2013, Assessment of Southern Ocean mixed-layer depths in CMIP5 models: historical bias and forcing response., *Journal of Geophysical Research - Oceans*, vol. 118, pp. 1845-1862, doi:10.1002/jgrc.20157

Oke, PR, Griffin, DA, Schiller, A, Matear, R, Fiedler, R, Mansbridge, JV, Lenton, A, Cahill, M, Chamberlin, M, Ridgway, K 2013, Evaluation of a near-global eddy-resolving ocean, *Geoscientific Model Development* , vol. 6, no. 3, pp. 591-615, doi:10.5194/gmd-6-591-2013

Schiller, A, Ridgway, K 2013, Seasonal mixed-layer dynamics in an eddy-resolving ocean circulation model, *Journal of Geophysical Research - Oceans*, vol. 118, no. 7, pp. 3387-3405, doi:10.1002/jgrc.20250

Zhuang, W, Feng, M, Du, Y, Schiller, A, Wang, D 2013, Low-frequency sea level variability in the southern Indian Ocean and its impacts on the oceanic meridional transports, *Journal of Geophysical Research - Oceans*, vol. 118, pp. 1302-1315, doi:10.1002/jgrc.20129

Schiller, A, Matear, R, Fiedler, R, Chamberlin, M, Mansbridge, JV 2013, Comments on the parameterization of barotropic tide-induced bottom friction mixing in the ocean circulation models, *Ocean Modelling*, vol. 69, pp. 108-122, doi:10.1016/j.ocemod.2013.06.005

Gregory, JM, Collier, MA, Bi, D, Dix, MR, Hirst, A, Hu, A, Huber, M, Knutti, R, Marsland, S, Meinshausen, M, Rashid, HA , Rotstayn, LD, Schurer, A , Church, JA 2013, Climate models without pre-industrial volcanic forcing underestimate historical ocean thermal expansion, *Geophysical Research Letters*, vol. 40, no. 8, pp. 1600-1604, doi:10.1002/grl.50339

Couldrey, M, Jullion, L , Naveira Garabato, A, Rye, C, Herraiz-Borreguero, L, Brown, P, Meredith, MP, Speer, K 2013, Remotely induced warming of Antarctic bottom water in the Eastern Weddell Gyre, *Geophysical Research Letters*, doi:10.1002/grl.50526

Matear, R, Chamberlin, M, Sun, C, Feng, M 2013, Climate change projection of the Tasman Sea from an eddy-resolving ocean model, *Journal of Geophysical Research - Oceans*, vol. 118, no. 6, pp. 2961-2976, doi:10.1002/jgrc.20202

Gregory, JM, White, N, Church, JA, Bierkens, NFB, Box, JE, van den Broeke, MR, Cogley, JG, Fettweis, X, Hanna, E, Huybrechts, P, Konikow, LF, Leclercq, PW, Marzeion, B, Oerlemans, J, Tamisiea, M, Wada, Y, Wake, L, van de Wal, R 2013, Twentieth-century global-mean sea-level rise: is the whole greater than the sum of the parts?, *Journal of Climate*, vol. 26, pp. 4476-4449

MacDonald, HS, Roughan, M, Baird, ME, Wilkin, J 2013, A numerical modelling study of the East Australian Current encircling and overwashing a warm-core eddy, *Journal of Geophysical Research - Oceans*, vol. 118, no. 1, pp. 301-315, doi:10.1029/2012JC008386

Woodham, RH, Brassington, GB, Robertson, R, Alves, O 2013, Propagation characteristics of coastally trapped waves on the Australian continental shelf, *Journal of Geophysical Research - Oceans*, vol. 118, no. 9, pp. 4461-4473, doi:10.1002/jgrc.20317

van Sebille, E, Spence, P, Mazloff, MR, England, MH, Rintoul, S, Saenko, OA 2013, Abyssal connections of Antarctic bottom water in a Southern Ocean state estimate, *Geophysical Research Letters*, vol. 40, no. 10, pp. 2177-2182, doi:10.1002/grl.50483

Chiswell, SM 2013, Lagrangian time scales and eddy diffusivity at 1000m compared to the surface in the south Pacific and Indian Oceans, *Journal of Physical Oceanography*, vol. 43, pp. 2718-2732, doi:10.1175/JPO-D-13-044.1

Waite, A, Rossi, V, Roughan, M, Tilbrook, B, Thompson, P, Feng, M, Wyatt, LR, Raes, E 2013, Formation and maintenance of high-nitrate, low pH layers in the Eastern Indian Ocean and the role of nitrogen fixation, *Biogeosciences*, vol. 10, no. 8, pp. 5691-5702, doi:10.5194/bgd-10-5691-2013

Brassington, GB 2013, Multicycle ensemble forecasting of sea surface temperature, *Geophysical Research Letters*, vol. 40, no. 23, 2013GL057752, doi:10.1002/2013GL057752

Gaube, P, Chelton, DB, Strutton, P, Behrenfeld, MJ 2013, Satellite observations of chlorophyll, phytoplankton biomass and Ekman pumping in nonlinear mesoscale eddies, *Journal of Geophysical Research - Oceans*, vol. 118, no. 12, pp. 6349-6370, doi:10.1002/2013JCO09027

Hobbs, WR, Willis, J 2013, Detection of an observed 135 year ocean temperature change from limited data, *Geophysical Research Letters*, vol. 40, no. 10, pp. 2252-2258, doi:10.1002/grl.50370

Johnson, G, Lyman, J, Willis, J, Levitus, S, Boyer, T, Antonov, J, Good, S, Domingues, CM, Wijffels, S, Bindoff, N 2013, Global Oceans: ocean heat content in State of the Climate in 2012, *Bulletin of the American Meteorological Society*, vol. 94, no. 8, pp. 50-53, doi:10.1175/2013BAMSStateoftheClimate.1

Menezes, V, Phillips, H, Schiller, A, Domingues, CM, Bindoff, N 2013, Salinity dominance on the Indian Ocean Eastern Gyral Current, *Geophysical Research Letters*, vol. 40, no. 21, pp. 5716-5721, doi:10.1002/2013GL057887

Takeshita, YTR, Martz, TM, Johnson, KS, Plant, JN, Gilbert, D, Riser, S, Neill, C, Tilbrook, B 2013, A climatology-based quality control procedure for profiling float oxygen data, *Journal of Geophysical Research - Oceans*, vol. 118, doi:10.1002/jgrc.20399

Abraham, JP, Baringer, M, Bindoff, N, et, al. 2013, A review of global ocean temperature observations: implications for ocean heat content estimates and climate change, *Review of Geophysics*, vol. 51, no. 3, pp. 450-483, doi:10.1002/rog.20022

Shadwick, E, Tilbrook, B, Cassar, N, Trull, T, Rintoul, S 2013, Summertime physical and biological controls on O₂ and CO₂ in the Australian sector of the Southern Ocean, *Journal of Marine Systems*, vol. 147, no. S1, pp. 21-28, doi:10.1016/j.jmarsys.2013.12.008

Schiller, A, Herzfeld, M, Brinkman, R, Stuart, G 2014, Monitoring, predicting and managing one of the seven wonders of the world, *Bulletin of the American Meteorological Society*, vol. 95, no. 1, pp. 23-30, doi:10.1175/BAMS-D-12-00202.1

Phillips, H, Bindoff, N 2014, On the nonequivalent barotropic structure of the Antarctic Circumpolar Current: an observational perspective, *Journal of Geophysical Research - Oceans*, vol. 119, no. 8, pp. 5221-5243, doi:10.1002/2013JC009516

Zhao, M, Hendon, H, Alves, O, Yin, Y 2014, Impact of improved assimilation of temperature and salinity for coupled model seasonal forecasts, *Climate Dynamics*, vol. 42, no. 9-10, pp. 2565-2583, doi:10.1007/s00382-014-2081-0

Tagliabue, A, Sallee, J-B, Bowie, AR, Levy, M, Swart, S, Boyd, PW 2014, Surface-water iron supplies in the Southern Ocean sustained by deep winter mixing, *Nature Geoscience*, vol. 7, no. 4, pp. 314-320, doi:10.1038/ngeo2101

Sandery, PA, Sakov, P, Majewski, L 2014, The impact of open boundary forcing on forecasting the East Australian Current using ensemble data assimilation, *Ocean Modelling*, vol. 84, pp. 1-11, doi:10.1016/j.ocemod.2014.09.005

Pena-Molino, B, Rintoul, S, Mazloff, MR 2014, Barotropic and baroclinic contributions to along-stream and across-stream transport in the Antarctic Circumpolar Current, *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 8011-8028, doi:10.1002/2014JC010020

O'Kane, TJ, Matear, R, Chamberlin, M, Oliver, ECJ, Holbrook, N 2014, Storm tracks in the Southern Hemisphere subtropical oceans, *Journal of Geophysical Research - Oceans*, vol. 119, no. 9, pp. 6078-6100, doi:10.1002/2014JC009990

Menezes, V, Phillips, H, Schiller, A, Bindoff, N, Domingues, CM, Vianna, M 2014, South Indian Countercurrent and associated fronts, *Journal of Geophysical Research - Oceans*, vol. 119, no. 10, pp. 6763-6791, doi:10.1002/2014JC010076

Menezes, V, Vianna, M, Phillips, H 2014, Aquarius sea surface salinity in the south Indian Ocean: revealing annual-period planetary waves, *Journal of Geophysical Research - Oceans*, vol. 119, no. 6, pp. 3883-3908, doi:10.1002/2014JC009935

Maes, C, Reul, N, Behringer, D, O'Kane, TJ 2014, The salinity signature of the equatorial Pacific cold tongue as revealed by the satellite SMOS mission, *Geoscience Letters*, vol. 1, no. 1, pp. 1-7, doi:10.1186/s40562-014-0017-5

Maes, C, O'Kane, TJ 2014, Seasonal variations of the upper ocean salinity stratification in the tropics, *Journal of Geophysical Research - Oceans*, vol. 119, no. 3, pp. 1706-1722, doi:10.1002/2013JC009366

Johnson, G, Lyman, J, Willis, J, Boyer, T, Antonov, J, Good, S, Domingues, CM, Bindoff, N 2014, Ocean heat content in State of the Climate in 2013, Blunden, Jessica and Arndt, Derek S. Eds, *Bulletin of the American Meteorological Society*, vol. 95, no. 7, pp. 54-60, doi:10.1175/2014BAMSStateoftheClimate.1

Griffies, S, et, al. 2014, An assessment of global and regional sea level for years 1993-2007 in a suite of interannual CORE-II simulations, *Ocean Modelling*, vol. 78, no. 0, pp. 35-89, doi:10.1016/j.ocemod.2014.03.004

Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Herbette, S, Matear, R 2014, Impact of eddies on surface chlorophyll in the south Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 8061-8077, doi:10.1002/2014JC010164

Parker, A 2014, Present contributions to sea level rise by thermal expansion and ice melting and implication on coastal management, *Ocean and Coastal Management*, vol. 98, pp. 202-211, doi:10.1016/j.ocecoaman.2014.05.026

de Lestang, S, Caputi, N, Feng, M, et, al. 2014, What caused seven consecutive years of low puerulus settlement in the western rock lobster fishery of Western Australia?, *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsu177

Middleton, J, James, N, James, C, Bone, Y 2014, Cross-shelf seawater exchange controls the distribution of temperature, salinity and neritic carbonate sediments in the Great Australian Bight, *Journal of Geophysical Research - Oceans*, vol. 119, no. 4, pp. 2539-2549, doi:10.1002/2013JC009420

de Lestang, S 2014, The orientation and migratory dynamics of the western rock lobster, *Panulirus cygnus*, in Western Australia, *ICES Journal of Marine Science*, vol. 71, no. 5, pp. 1052-1063, doi:10.1093/icesjms/fst205

O'Kane, TJ, Matear, R, Chamberlin, M, et, al. 2014, ENSO regimes and the late 1970's climate shift: the role of synoptic weather and South Pacific ocean spiciness, *Journal of Computational Physics*, vol. 271, pp. 19-38, doi:10.1016/j.jcp.2013.10.058

Kitade, Y, Shimada, K, Tamura, T, Williams, G, Aoki, S, Fukamachi, Y, Roquet, F, Hindell, MA, Ushio, S, Ohshima, KI 2014, Antarctic bottom water production from the Vincennes Bay polynya, East Antarctica, *Geophysical Research Letters*, vol. 41, no. 10, pp. 3528-3534, doi:10.1002/2014GL059971

Lea, D, Martin, MJ, Oke, PR 2014, Demonstrating the complementarity of observations in an operational ocean forecasting system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 683, pp. 2037-2049, doi:10.1002/qj.2281

D'Asaro, EJ, Thomson, J, Shcherbina, AY, Harcourt, R, Cronin, MF, Hemer, MA, Fox-Kemper, B 2014, Quantifying upper ocean turbulence driven by surface waves, *Geophysical Research Letters*, vol. 41, no. 1, pp. 102-107, doi:10.1002/2013GL058193

Cetina-Heredia, P, Roughan, M, van Sebille, E, Coleman, M 2014, Long-term trends in the East Australian Current separation latitude and eddy driven transport, *Journal of Geophysical Research - Oceans*, vol. 119, doi:10.1002/2014JC010071

Sandery, PA, O'Kane, TJ 2014, Coupled initialization in an ocean-atmosphere tropical cyclone prediction system, *Quarterly Journal of the Royal Meteorological Society*, vol. 140, no. 678, pp. 82-95, doi:10.1002/qj.2117

Brieva, D, Ribbea, J, Lemkert, C 2014, Is the East Australian Current causing a marine ecological hot-spot and an important fisheries near Fraser Island, Australia?, *Estuarine, Coastal and Shelf Science*, vol. 153, pp. 121-134, doi:10.1016/j.ecss.2014.12.012

Miles, E, Spillman, CM, Church, JA, McIntosh, P 2014, Seasonal prediction of global sea level anomalies using an ocean-atmosphere dynamical model, *Climate Dynamics*, vol. 43, no. 7-8, pp. 2131-2145, doi:10.1007/s00382-013-2039-7

Weeding, B, Trull, T 2014, Hourly oxygen and total gas tension measurements at the Southern Ocean Time Series site reveal winter ventilation and spring net community production, *Journal of Geophysical Research - Oceans*, vol. 119, no. 1, pp. 348-358, doi:10.1002/2013JC009302

Ollitrault, M, de Verdiere, AC 2014, The ocean general circulation near 1000-m depth, *Journal of Physical Oceanography*, vol. 44, pp. 384-409, doi:10.1175/JPO-D-13-030.1

Oliver, ECJ, Holbrook, N 2014, A statistical method for improving continental shelf and near-shore marine climate predictions, *Journal of Atmospheric and Oceanic Technology*, vol. 31, no. 1, pp. 216-232, doi:10.1175/JTECH-D-13-00052.1

Everett, JD, Baird, ME, Roughan, M, Suthers, I, Doblin, MA 2014, Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a western boundary current, *Progress in Oceanography*, vol. 120, pp. 340-351, doi:10.1016/j.pocean.2013.10.016

Benthuisen, J, Feng, M, Zhong, L 2014, Spatial patterns of warming off Western Australia during the 2011 Ningaloo Nino: quantifying impacts of remote and local forcing, *Continental Shelf Research*, vol. 91, pp. 232-246, doi:10.1016/j.csr.2014.09.014

LeTraon, P, Antoine, D, et, al. 2015, Use of satellite observations for operational oceanography: recent achievements and future prospects, *Journal of Operational Oceanography*, vol. 8, pp. 12-27, doi:10.1080/1755876x.2015.1022050

d'Ovidio, F, Della Penna, A, Trull, T, Nencioli, F, Pujol, MI, Rio, H, Park, Y-J, Cotte, C, Zhou, M, Blain, S 2015, The biogeochemical structuring role of horizontal stirring: Lagrangian perspectives on iron delivery downstream of the Kerguelen Plateau, *Biogeosciences*, vol. 12, no. 19, pp. 5567-5581, doi:10.5194/bg-12-5567-2015

Richardson, M, Hausfather, Z, Nuccitelli, D, et, al. 2015, Misdiagnosis of Earth climate sensitivity based on energy balance model results, *Science Bulletin*, vol. 60, no. 15, pp. 1370-1377, doi:10.1007/s11434-015-0806-z

Wedd, R, Stringer, M, Haines, K 2015, Argo real-time quality control intercomparison, *Journal of Operational Oceanography*, vol. 8, no. 2, pp. 108-122, doi:10.1080/1755876X.2015.1087186

de Lestang, S, Caputi, N 2015, Climate variability affecting the contranant migration of *Panulirus cygnus*, the western rock lobster, *Marine Biology*, vol. 162, no. 9, 1900, doi:10.1007/s00227-015-2720-y

Ridgway, K, Goddard, JC 2015, The source of the Leeuwin Current seasonality, *Journal of Geophysical Research - Oceans*, vol. 120, no. 10, pp. 6843-6864, doi:10.1002/2015JC011049

Ryan, A, Regnier, C, Divakaran, P, et, al. 2015, GODAE OceanView Class 4 forecast verification framework: global ocean inter-comparison, *Journal of Operational Oceanography*, vol. 8, no. S1, pp. 98-111, doi:10.1080/1755876X.2015.1022330

Melbourne-Thomas, J, Wotherspoon, S, Corney, S, Molina, E, Marini, O, Constable, A 2015, Optimal control and system limitation in a Southern Ocean ecosystem model, *Deep Sea Research Part II*, vol. 114, pp. 64-73, doi:10.1016/j.dsr2.2013.02.017

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Global Oceans: Ocean Heat Content in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Closset, I, Cardinal, D, Bray, SG, Thil, F, Rigual-Hernandez, A, Trull, T 2015, Seasonal variations, origin, and fate of settling diatoms in the Southern Ocean tracked by silicon isotope records in deep sediment traps, *Global Biogeochemical Cycles*, vol. 29, no. 9, pp. 1495-1510, doi:10.1002/2015GB005180

Bowie, AR, et, al. 2015, Iron budgets for three distinct biogeochemical sites around the Kerguelen Archipelago (Southern Ocean) during the natural fertilisation study, KEOPS-2 , *Biogeosciences*, vol. 12, no. 14, pp. 4421-4445, doi:10.5194/bg-12-4421-2015

Roemmich, D, Church, JA, Gilson, J, Monselesan, D, Sutton, P, Wijffels, S 2015, Unabated planetary warming and its ocean structure since 2006, *Nature Climate Change*, doi:10.1038/nclimate2513

Grenier, M, Della Penna, A, Trull, T 2015, Autonomous profiling float observations of the high-biomass plume downstream of the Kerguelen Plateau in the Southern Ocean, *Biogeosciences*, vol. 12, no. 9, pp. 2707-2735, doi:10.5194/bg-12-2707-2015

Sloyan, B, O'Kane, TJ 2015, Drivers of decadal variability in the Tasman Sea, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3193-3210, doi:10.1002/2014JC010550

Sakov, P, Sandery, PA 2015, Comparison of EnOI and EnKF regional ocean reanalysis systems, *Ocean Modelling*, vol. 89, pp. 45-60, doi:10.1016/j.ocemod.2015.02.003

Wang, XH, Bhatt, V, Sun, Y 2015, Seasonal and inter-annual variability of western subtropical mode water in the south Pacific Ocean, *Ocean Dynamics*, vol. 65, no. 1, pp. 143-154, doi:10.1007/s10236-014-0792-8

Meyer, A, Sloyan, B, Polzin, K, Phillips, H, Bindoff, N 2015, Mixing variability in the Southern Ocean, *Journal of Physical Oceanography*, vol. 45, no. 4, pp. 966-987, doi:10.1175/JPO-D-14-0110.1

Storto, A, et, al. 2015, Steric sea level variability (1993-2010) in an ensemble of ocean reanalyses and objective analyses , *Climate Dynamics*, pp. 1-21, doi:10.1007/s00382-015-2554-9

Strutton, P, Coles, VJ, Hood, R, Matear, R, McPhaden, M, Phillips, H 2015, Biogeochemical variability in the central equatorial Indian Ocean during the monsoon transition , *Biogeosciences*, vol. 12, no. 8, pp. 2367-2382, doi:10.5194/bg-12-2367-2015

Schiller, A, Oke, PR 2015, Dynamics of ocean surface mixed layer variability in the Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 120, no. 6, pp. 4162-4186, doi:10.1002/2014JC010538

Oke, PR, Larnicol, G, Jones, EM, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 2, regional applications, *Journal of Operational Oceanography*, vol. 8, pp. 63-79, doi:10.1080/1755876X.2015.1022080

Oke, PR, Larnicol, G, Fujii, Y, et, al. 2015, Assessing the impact of observations on ocean forecasts and reanalyses: part 1, global studies, *Journal of Operational Oceanography*, vol. 8, pp. 49-62, doi:10.1080/1755876X.2015.1022067

Morrison, A, England, MH, Hogg, A 2015, Response of Southern Ocean convection and abyssal overturning to surface buoyancy perturbations, *Journal of Climate*, vol. 28, no. 10, pp. 4263-4278, doi:10.1175/JCLI-D-14-00110.1

Merrifield, M, Thompson, P, et, al. 2015, Sea level variability and change, in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 82-85, doi:10.1175/2015BAMSStateoftheClimate.1

Johnson, G, Lyman, J, Antonov, J, Bindoff, N, Boyer, T, Domingues, CM, Good, S, Ishii, M, Willis, J 2015, Ocean heat content, in State of the Climate in 2014, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 64-66, doi:10.1175/2015BAMSStateoftheClimate.1

Merlivat, L, Boutin, J, Antoine, D 2015, Roles of biological and physical processes in driving seasonal air-sea CO₂ flux in the Southern Ocean: new insights from CARIOCA pCO₂, *Journal of Marine Systems*, vol. 147, pp. 9-20, doi:10.1016/j.jmarsys.2014.04.015

Martin, MJ, Balmaseda, MA, Bertino, L, Brasseur, P, Brassington, GB, Cummings, J, Fujii, Y, Lea, D, Lellouche, JM, Mogensen, K, Oke, PR, et, al. 2015, Status and future of data assimilation in operational oceanography, *Journal of Operational Oceanography*, vol. 8, pp. 28-48, doi:10.1080/1755876X.2015.1022055

He, Z, Feng, M, Wang, D, Slawinski, D 2015, Contribution of the Karimata Strait transport to the Indonesian throughflow as seen from a data assimilation model, *Continental Shelf Research*, vol. 92, pp. 16-22, doi:10.1016/j.csr.2014.10.007

Fujii, Y, Ogawa, K, Brassington, GB, Ando, K, Yasuda, T, Kuragano, T 2015, Evaluating the impacts of the tropical Pacific observing system on the ocean analysis fields in the global ocean data assimilation system for operational seasonal forecasts in JMA, *Journal of Operational Oceanography*, vol. 8, no. 1, pp. 25-39, doi:10.1080/1755876x.2015.1014640

Evans, K, Brown, J, Sen Gupta, AS, Nicol, S, Hoyle, S, Matear, R, Arrizabalaga, H 2015, When 1+1 can be >2: uncertainties compound when simulating climate, fisheries and marine ecosystems, *Deep Sea Research Part II*, vol. 113, pp. 312-322, doi:10.1016/j.dsr2.2014.04.006

Divakaran, P, Brassington, GB, Ryan, A, Regnier, C, Spindler, T, Mehra, A, Hernandez, F, Smith, G, Liu, Y, Davidson, F 2015, GODAE OceanView inter-comparison for the Australian region, *Journal of Operational Oceanography*, vol. 8, pp. 112-126, doi:10.1080/1755876X.2015.1022333

Bell, M, Schiller, A, LeTraon, P, Smith, NR, Dombrowsky, E, Wilmer-Becker, K 2015, An introduction to GODAE OceanView, *Journal of Operational Oceanography*, vol. 8, pp. 8-11, doi:10.1080/1755876X.2015.1022041

Baringer, M, Johns, WE, Hobbs, WR, Garzoli, SL, Dong, S, Willis, J 2015, Meridional overturning circulation observations in the north Atlantic Ocean, in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 81-82, doi:10.1175/2015BAMSStateoftheClimate.1

Balmaseda, MA, Hernandez, F, Storto, A, Palmer, MD, Alves, O, Shi, L, Smith, G, et, al. 2015, The Ocean Reanalyses Intercomparison Project (ORA-IP), *Journal of Operational Oceanography*, vol. 8, pp. 80-97, doi:10.1080/1755876X.2015.1022329

Aoki, S, Mizuta, G, Sasaki, H, Sasai, Y, Rintoul, S, Bindoff, N 2015, Atlantic - Pacific asymmetry of subsurface temperature change and frontal response of the Antarctic Circumpolar Current for the recent three decades, *Journal of Oceanography*, vol. 71, no. 5, pp. 1-14, doi:10.1007/s10872-015-0284-6

Du, Y, Zhang, Y, Feng, M, Zhang, N, Wang, T, Wijffels, S 2015, Decadal trends of the upper ocean salinity in the tropical Indo-Pacific since mid-1990s, *Nature Scientific Reports*, vol. 5, 16050, doi:10.1038/srep16050

Liu, Q, Feng, M, Wang, D, Wijffels, S 2015, Interannual variability of the Indonesian throughflow transport: a revisit based on 30-year expendable bathythermograph data, *Journal of Geophysical Research - Oceans*, vol. 120, no. 12, pp. 8270-8282, doi:10.1002/2015JCO11351

Feng, M, Benthuisen, J, Slawinski, D 2015, Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010-2011, *Geophysical Research Letters*, vol. 42, no. 20, pp. 8555-8562, doi:10.1002/2015GL065848

Schiller, A, Herzfeld, M, Brinkman, GW, Rizwi, F, Andrewartha, J 2015, Cross-shelf exchanges between the Coral Sea and the Great Barrier Reef lagoon determined from a regional-scale numerical model, *Continental Shelf Research*, vol. 109, pp. 150-163, doi:10.1016/j.csr.2015.09.011

Fujii, Y, Cummings, J, Xue, Y, et, al. 2015, Evaluation of the Tropical Pacific Observing System from the ocean data assimilation perspective, *Quarterly Journal of the Royal Meteorological Society*, vol. 141, no. 692, pp. 2481-2496, doi:10.1002/qj.2579

Merrifield, M, et, al. 2015, Global Oceans: sea level variability and change in *State of the Climate in 2014*, *Bulletin of the American Meteorological Society*, vol. 96, no. 7, pp. 82-85, doi:10.1175/2015BAMSStateoftheClimate.1

- Garzoli, SL, Dong, S, Fine, R, Meinen, S, Perez, R, Schmid, C, van Sebille, E, Yao, Q 2015, The fate of the Deep Western Boundary Current in the South Atlantic, *Deep Sea Research Part I*, vol. 103, no. 125, doi:10.1016/j.dsr.2015.05.008
- Pena-Izquierdo, J, van Sebille, E, Pelegri, J, Sprintall, J, Mason, E, Llanillo, P, Machin, F 2015, Water mass pathways to the North Atlantic oxygen minimum zone, *Journal of Geophysical Research - Oceans*, vol. 120, no. 5, pp. 3350-3372, doi:10.1002/2014Jc010557
- Rykova, T, Oke, PR 2015, Recent freshening of the East Australian Current and its eddies, *Geophysical Research Letters*, vol. 42, no. 21, pp. 9369-9378, doi:10.1002/2015GL066050
- Wijffels, S, Roemmich, D, Monselesan, D, Church, JA, Gilson, J 2016, Ocean temperatures chronicle the ongoing warming of Earth, *Nature Climate Change*, vol. 6, pp. 116-118, doi:10.1038/nclimate2924
- Dufois, F, Hardman-Mountford, NJ, Greenwood, J, Richardson, A, Feng, M, Matear, R 2016, Anticyclonic eddies are more productive than cyclonic eddies in subtropical gyres because of winter mixing, *Science Advances*, vol. 2, no. 5, e1600282-e1600282
- Zhao, M, Hendon, H, Yin, Y, Alves, O 2016, Variations of upper-ocean salinity associated with ENSO from PEODAS reanalyses, *Journal of Climate*, vol. 29, no. 6, pp. 2077-2094, doi:10.1175/JCLI-D-15-0650.1
- Meyer, A, Polzin, K, Sloyan, B, Phillips, H 2016, Internal waves and mixing near the Kerguelen Plateau, *Journal of Physical Oceanography*, doi:10.1175/JPO-D-15-0055.1
- Menezes, V, Phillips, H, Vianna, G, Bindoff, N 2016, Interannual variability of the South Indian Countercurrent, *Journal of Geophysical Research - Oceans*, vol. 121, doi:10.1002/2015JC011417
- Zhang, N, Feng, M, Du, Y, et al. 2016, Seasonal and interannual variations of mixed layer salinity in the southeast tropical Indian Ocean, *Journal of Geophysical Research - Oceans*, vol. 121, pp. 4716-4731, doi:10.1002/2016JC011854
- Riser, S, Freeland, HJ, Roemmich, D, Wijffels, S, et al. 2016, Fifteen years of ocean observations with the global Argo array, *Nature Climate Change*, vol. 6, no. 2, pp. 145-153, doi:10.1038/nclimate2872
- Lago, V, Wijffels, S, Durack, P, Church, JA, Bindoff, N, Marsland, S 2016, Simulating the role of surface forcing on observed multidecadal upper ocean salinity changes, *Journal of Climate*, vol. 29, pp. 5575-5588, doi:10.1175/JCLI-D-15-0519.1
- Bender, M, Tilbrook, B, Cassar, N, Jonsson, B, Poisson, A, Trull, T 2016, Ocean productivity south of Australia during spring and summer, *Deep Sea Research Part I*, vol. 112, pp. 68-78, doi:10.1016/j.dsr.2016.02.018
- McCaskill, C, Shay, LK, Brewster, JK 2016, Development and assessment of the Systematically Merged Pacific Ocean Regional Temperature and Salinity (SPORTS) climatology for ocean heat content estimations, *Journal of Atmospheric and Oceanic Technology*, vol. 33, no. 10, pp. 2259-2272, doi:10.1175/JTECH-D-15-0168.1
- Raes, E, Bodrossy, L, Van De Kamp, J, Hardman-Mountford, NJ, et al. 2016, Reduction of the powerful greenhouse gas N₂O in the south-eastern Indian Ocean, *PLoS One*, vol. 11, no. 1, e0145996, doi:10.1371/journal.pone.0145996
- Stewart, K, Haine, T 2016, Thermobaricity in the transition zones between Alpha and Beta Oceans, *Journal of Physical Oceanography*, vol. 46, no. 6, pp. 1805-1821, doi:10.1175/JPO-D-16-0017.1
- Kerry, C, Powell, B, Roughan, M, Oke, PR 2016, Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational data assimilation (IS4D-Var), *Geoscientific Model Development*, vol. 9, pp. 3379-3801, doi:10.5194/gmd-9-3379-2016
- Roach, C, Phillips, H, Bindoff, N, Rintoul, S 2016, Detecting and characterizing Ekman Currents in the Southern Ocean, *Journal of Physical Oceanography*, vol. 45, pp. 1205-1223, doi:10.1175/JPO-D-14-0115.1
- Schaeffer, A, Roughan, M 2017, Subsurface intensification of marine heatwaves off southeastern Australia: The role of stratification and local winds, *Geophysical Research Letters*, vol. 44, no. 10, pp. 5025-5033, doi:10.1002/2017GL073714

Wyatt, LR, Mantovanelli, A, Heron, M, Roughan, M, Steinberg, C 2017, Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation, *IEEE Journal of Oceanic Engineering*, no. 99, pp. 1-22, doi:10.1109/JOE.2017.2704165

Groeskamp, S, Sloyan, B, Zika, JD, McDougall, TJ 2017, Mixing Inferred from an Ocean Climatology and Surface Fluxes, *Journal of Physical Oceanography*, vol. 47, pp. 667-687, doi:https://doi.org/10.1175/JPO-D-16-0125.1

Roughan, M, Keating, S, Schaeffer, A, Cetina-Heredia, P, Rocha, C, Griffin, DA, Robertson, R, Suthers, I 2017, A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current System, *Journal of Geophysical Research - Oceans*, vol. 122, pp. 2494-2518, doi:10.1002/2016JC012241

Rykova, T, Oke, PR, Griffin, DA 2017, A comparison of the structure, properties, and water mass composition of quasi-isotropic eddies in western boundary currents in an eddy-resolving ocean model, *Ocean Modelling*, vol. 114, pp. 1-13, doi:https://doi.org/10.1016/j.ocemod.2017.03.013

Journals 246

Reports

Caputi, N, Feng, M, Penn, J, Slawinski, D, de Lestang, S, Weller, E, Pearce, A 2010, Evaluating source-sink relationships of the western rock lobster fishery using oceanographic modelling. Final FRDC Report – Project 2008/087, Fisheries Research Division, 2010, Perth

Williams, A, Dunstan, P, Althaus, F, Barker, B, McEnnulty, F, Gowlett-Holmes, K, Keith, G 2010, Characterising the seabed biodiversity and habitats of the deep continental shelf and upper slope off the Kimberley coast, NW Australia, Comments: Final report to Woodside Energy Ltd. 94pp

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

2012, The 13th Argo data management meeting report, Hyderabad, Comments: <http://www.argo.ucsd.edu/DM13report.pdf>

2012, Bio Argo data management meeting report, Hyderabad, Comments: <http://www.argo.ucsd.edu/BGC1report.pdf>

Brassington, GB, Freeman, J, Huang, X, Pugh, TF, Oke, PR, Sandery, PA, Taylor, A, Andreu-Burillo, I, Schiller, A, Griffin, DA, Fiedler, R, Mansbridge, JV, Beggs, H, Spillman, CM 2012, Ocean model, analysis and prediction system: version 2, CAWCR - Centre for Australian Weather and Climate Research, Comments: Technical report No. 052

Rintoul, S, Sparrow, M, Meredith, MP, Wadley, V, Speer, K, Hofmann, E, Summerhayes, CP, Urban, E, Bellerby, R, Ackley, S, Alverson, K, Anson, I, Aoki, S, Azzolini, R, Beal, L, Belbeoch, M, Bergamasco, A, Biuw, M, Boehme, L, Budillon, G, Campos, L, Carlson, J, Cavanagh, R, Charpentier, E, Chul Shin, H, Coffin, M, Constable, A, Costa, D, Cronin, MF, De Baar, H, De Broyer, C, de Bruin, T, De Santis, L, Butler, E, Dexter, P, Drinkwater, M, England, MH, Fahrback, E, Fanta, E, Fedak, M, Finney, K, Fischer, A, Frew, R, Garzoli, SL, Gernandt, H, Gladyshev, S, Gomis, D, Gordon, A, Gunn, J, Gutt, J, Haas, C, Hall, J, Heywood, K, Hill, K, Hindell, MA, Hood, M, Hoppema, M, Hosie, G, Howard, WR, Joiris, C, Kaleschke, L, Kang, S, Kennicutt, MC, Klepikov, A, Lembke-Jene, L, Lovenduski, N, Lytle, V, Mathieu, PP, Moltmann, T, Morrow, R, Muelbert, M, Murphy, E, Naganobu, M, Naveira Garabato, A, Nicol, S, O'Farrell, S, Ott, N, Piola, A, Piotrowicz, S, Proctor, R, Qiao, F, Rack, F, Ravindra, R, Ridgway, K, Rignot, E, Ryabinin, V, Sarukhanian, E, Sathyendranath, S, Schlosser, P, Schwarz, J, Smith, G, Smith, S, Southwell, C, Speich, S, Stambach, W, Stammer, D, Stanfield, K, Thiede, J, Thouvenot, E, Tilbrook, B, Wadhams, P, Wainer, I, Willmott Puig, V, Wijffels, S, Woodworth, P, Worby, A, Wright, SW 2012, The Southern Ocean Observing System: Initial science and implementation strategy, SCAR and SCOR, Cambridge University Press

Poloczanska, ES, Hobday, A, Richardson, A 2012, Marine climate change in Australia, impacts and adaptation responses

2013, 14th meeting of the International Argo Steering Team report, Wellington, Comments:
<http://www.argo.ucsd.edu/iast14.pdf>

2013, Reports - Audits of treatment of pressure drift in the Argo data stream, Comments:
<http://www.cmar.csiro.au/argo/dmqc/> (latest version March 2013)

Feng, M 2014, La Nina forces unprecedented Leeuwin Current warming in 2011, Comments: Fisheries Research Report No.250 40pp

Herzfeld, M, Andrewartha, J, Baird, ME, Brinkman, GW, et. al. 2014, eReefs WP3 marine modelling: phase II interim report

Caputi, N, Feng, M, de Lestang, S, Penn, J, Slawinski, D, Pearce, A, Weller, E, How, J 2014, Identifying factors affecting the low western rock lobster puerulus settlement in recent years, Comments: Fisheries Research Report 255, 155pp.

Miles, E, Griesser, A, Charles, A, Spillman, CM 2014, The Pacific-Australia climate change science and adaptation planning program's seasonal prediction websites, CAWCR - Centre for Australian Weather and Climate Research, Comments: Technical Report: N0 072 pp 26

Griffin, DA 2015, OceanCurrent model validation - Applied Research Program 3

Caputi, N, Feng, M, Pearce, A, et. al. 2015, Management implications of climate change effect on fisheries in Western Australia: part 1 environmental change and risk assessment, Comments: FRDC Project 2010/535, Fisheries Report 260, 180pp., DOI: 10.13140/RG.2.1.2240.7200

Courtney, AJ, Spillman, CM, Lemos, R, Thomas, J, Leigh, G, Campbell, AH 2015, Physical oceanographic influences on Queensland reef fish and scallops, Comments: FRDC Project #2013/020 Final Report 153

Caputi, N, Feng, M, Pearce, A, et. al. 2016, Management implications of climate change effect on fisheries in Western Australia: part 2: case studies, Comments: FRDC Project 2010/535. Fisheries Research Report 261, Department of Fisheries, Western Australia, 156pp.

Yu, W, et. al. 2016, The rationale, design and implementation plan for biogeochemical-Argo. , Comments: East Indian Ocean Upwelling Research Initiative (EIOURI) science plan

2016, State of Climate 2016, Bureau of Meteorology and CSIRO, Comments: <https://www.csiro.au/state-of-the-climate>

Reports 20

Thesis

Helm, KP 2008, Decadal ocean water mass changes: global observations and interpretation, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Herraiz-Borreguero, L 2010, The distribution, circulation and variability of subantarctic mode water, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Zika, JD 2010, Quantifying ocean mixing from hydrographic data, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Bhatt, V 2010, Modelling dynamics of the East Australian Current and the subtropical mode water off East Coast of Australia, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Jaffres, JBD 2011, The oceanographic and geochemical effects of mixed layer depth variability and increasing anthropogenic CO₂ on the inorganic carbon system of the Coral Sea, Doctor of Philosophy (PhD), James Cook University, Townsville

Drushka, K 2011, Ocean dynamics and thermodynamics in the tropical Indo-Pacific region, Doctor of Philosophy (PhD), Scripps Institution of Oceanography, San Diego

Durack, P 2011, Global ocean salinity: a climate change diagnostic?, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Zhang, F 2012, Benefits of regional ocean and weather forecast systems: evidence from the Australian East Coast, Doctor of Philosophy (PhD), Australian Defence Force Academy, Canberra

Woodham, RH 2013, Predicting the oceanic mesoscale dynamics in the Australian region, Doctor of Philosophy (PhD), University of New South Wales, Sydney

MacDonald, HS 2013, Numerical modelling of mesoscale eddies in the Tasman Sea, Doctor of Philosophy (PhD), University of New South Wales, Sydney

Meyer, A 2013, Diapycnal mixing and the internal wave field north of the Kerguelen Plateau, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Lago, V 2016, Ocean temperature and salinity responses to 50 year changes in surface conditions, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Thesis 12

Data Products

Hadley Centre Sea Ice and Sea Surface Temperature, (1899 - 2029) In Situ Gridded.

<http://www.metoffice.gov.uk/hadobs/hadisst/>

Hadley Centre SST data set (HadSST3), (1899 - 2029) In Situ Gridded. <http://www.metoffice.gov.uk/hadobs/hadsst3/>

DePreSys, (1949 - 2029) Decadal Climate Prediction. <http://www.metoffice.gov.uk/research/modelling-systems/unified-model/climate-models/depresys>

ORAS5, (1960 - 2012) Ocean States Estimates (or reanalysis). <http://www.cerfacs.fr/globc>

Ocean Data Assimilation Experiment - ECDA 3.1, (1960 - 2011) Ocean States Estimates (or reanalysis).

<http://www.gfdl.noaa.gov/ocean-data-assimilation-model-output>

International Comprehensive Ocean Atmosphere Data Set (ICOADS), (1961 - 2029) Database.

<http://icoads.noaa.gov/index.shtml>

International Comprehensive Ocean-Atmosphere Data Set (ICOADS), (1961 - 2029) Database. <http://icoads.noaa.gov/>

Global Ocean Data Assimilation System (GODAS), (1978 - 2029) Ocean States Estimates, data assimilation.

<http://www.cpc.ncep.noaa.gov/products/GODAS>

Predictive Ocean Atmosphere Model for Australia (POAMA), (1980 - 2014) Forecasting.

http://poama.bom.gov.au/about_poama2.shtml

Extended Reconstructed SST (ERSST) - Formally Reynolds SST, (1983 - 2029) In Situ Gridded.

<http://www.ncdc.noaa.gov/oa/climate/research/sst/ersstv3.php>

Global Temperature and Salinity profile Programme (GTSP), (1989 - 2029) Database. <http://www.nodc.noaa.gov/GTSP/>

iQUAM V2, (1990 - 2029) Database. <http://www.star.nesdis.noaa.gov/sod/sst/iquam/v2/about.html>

Kaplan Extended SST, (1990 - 2029) In Situ Gridded. <http://iridl.ldeo.columbia.edu/SOURCES/.KAPLAN/.EXTENDED/.ssta/>

iQUAM, (1990 - 2029) Database. <http://www.star.nesdis.noaa.gov/sod/sst/iquam/index.html>

ECCO-JPL, (1991 - 2029) Ocean States Estimates (or reanalysis). <http://www.ecco-group.org>

NOAA Oceanwatch, (1991 - 2029) Satellite Products. http://oceanwatch.noaa.gov/ow_index.html

Collecte Localisation Satellites (CLS), (1991 - 2029) Satellite Products. <http://due.esrin.esa.int/cmpns/cmpns168.php>

AVISO Sea Surface Height (AVISO - Archiving, Validating and interpretation of Satellite Oceanographic data, (1991 - 2029) Satellite Products. <http://www.aviso.oceanobs.com/es/data/products/sea-surface-height-products/global/index.html>

World Ocean Database, (1993 - 2029) Database. http://www.nodc.noaa.gov/OC5/WOD09/pr_wod09.html

Global Telecommunication System (GTS), (1997 - 2029) Database. http://www.wmo.int/pages/prog/www/TEM/GTS/index_en.html

CSIRO Atlas of Regional Seas (CARS), (1997 - 2010) Climatology. <http://www.marine.csiro.au/~dunn/cars2009/>

CSIRO Atlas of Regional Seas (CARS) - Argo Only, (1999 - 2029) Climatology. <http://www.marine.csiro.au/~dunn/cars2009/>

YoMaHa, (2000 - 2029) In Situ Gridded. <http://apdrc.soest.hawaii.edu/projects/argo/> and http://www.jamstec.go.jp/ARGO/argo_web/G-YoMaHa/index_e.html

MILA GPV (Mixed Layer data set of Argo, Grid Point Value), (2000 - 2029) In Situ Gridded. http://www.jamstec.go.jp/ARGO/argo_web/MILAGPV/index_e.html

MOAA GPV (Grid Point Value of the Monthly Objective Analysis using the Argo data), (2000 - 2029) In Situ Gridded. http://www.jamstec.go.jp/ARGO/argo_web/MapQ/Mapdataset_e.html

Group for High Resolution Sea Surface temperature (GHRSSST), (2001 - 2029) Satellite Products. <https://www.ghrsst.org/>

Ocean Data Assimilation Experiment - WOA21c, (2002 - 2010) Ocean States Estimates (or reanalysis). <http://www.gfdl.noaa.gov/ocean-data-assimilation-model-output>

Roemmich-Gilson Argo Climatology, (2003 - 2012) Climatology. http://sio-argo.ucsd.edu/RG_Climatology.html

Global Ocean Data Assimilation Experiment (GODAE), (2003 - 2007) Forecasting. www.godae.org

ARV11 Climatology, (2003 - 2009) Climatology. http://wwz.ifremer.fr/lpo_eng/SO-Argo/Products/Global-Ocean-T-S/ARV11-climatology

Bluelink (BRAN Bluelink ReAnalysis) 3p0 and 3p1, (2004 - 2009) Ocean States Estimates (or reanalysis). <http://www.csiro.au/Outcomes/Oceans/Understanding/BLUElink.aspx>

Coriolis In Situ Analysis System (ISAS), (2004 - 2009) In Situ Gridded. <http://www.coriolis.eu.org/Science/Data-and-Products/Analysis-system>

Operational Sea Surface Temperature and Sea-Ice Analysis (OSTIA), (2006 - 2029) In Situ Gridded. <http://podaac.jpl.nasa.gov/dataset/UKMO-L4HRfnd-GLOB-OSTIA>

Regional Australian Multi-Sensor SST Analysis System (RAMSSA), (2007 - 2029) In Situ Gridded. http://podaac.jpl.nasa.gov/dataset/ABOM-L4HRfnd-AUS-RAMSSA_09km

Global Australian Multi-Sensor SST Analysis (GAMSSA), (2007 - 2029) In Situ Gridded. http://podaac.jpl.nasa.gov/dataset/ABOM-L4LRfnd-GLOB-GAMSSA_28km

OceanMAPSv2.0, (2010 - 2029) Ocean States Estimates, data assimilation. <http://www.bom.gov>

Public Seminars

Wijffels, S, Roemmich, D, et, al.; A decade of Argo: a retrospective; CSIRO Marine and Atmospheric Research Seminar, 11/12/2012 - 11/12/2012, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Dean Roemmich, Susan Wijffels

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

Monselesan, D, Dunn, JR, Domingues, CM, White, N, Church, JA, Wijffels, S; How well can we track global steric sea level and heat content of the upper ocean from the Argo observing system?; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Didier Monselesan

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

Wijffels, S; A decade of Argo: achievements and future challenges; Greenhouse 2013, 05/10/2013 - 11/10/2013, Adelaide, Presenter(s): Susan Wijffels

Wijffels, S; Argo Australia; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Susan Wijffels

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

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 (COECCS) - 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

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