

# Bluewater and Climate



## Research Projects

Foraging ecology of emperor penguins in summer and potential overlap with fisheries, Australian Antarctic Division, Barbara Wienecke, Jerry Kooyman, Yvon Le Maho, Graham Roberston, 2000-2013, Partner Institution(s): Scripps, CNRS France

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

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

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

Global carbon project, Rob Jackson, Nebojsa Nakicenovic, 2001-2020, Partner Institution(s): International Geosphere-Biosphere Programme (IGBP); International Human Dimensions Programme on Global Environmental Change (IHDP); World Climate Research Programme (WCRP)

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

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

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

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

Winter foraging success of Southern Ocean predators in relation to stochastic variation in sea-ice extent and winter water formation, University of Tasmania, Mark Hindell, Mike Fedak, Iain Field, Christophe Guinet, Rob Harcourt, Clive McMahon, John Van Den Hoff, 2006-2012, Partner Institution(s): University of St Andrews, Macquarie University, CNRS France, Charles Darwin University, Australian Antarctic Division, Funding: Australian Antarctic Division

Predator research survey and monitoring in support of CCAMLR's management of the krill fishery, Australian Antarctic Division, Colin Southwell, Louise Emmerson, 2006-2012, Funding: Australian Antarctic Division

Winter foraging locations of Southern Ocean predators - sub Antarctic islands, University of Tasmania, British Antarctic Survey, Mark Hindell, Mary-Anne Lea, Phil Trathan, 2007-2011, Partner Institution(s): AAD, Funding: Australian Antarctic Division

GHRSSST tropical warm pool diurnal variability project, Centre for Australian Weather and Climate Research , Bureau of Meteorology, Helen Beggs, Leon Majewski, Pierre LeBorgne, Gary Wick, Sandra Castro, Carol Ann Clayson, Chelle Gentemann, Rachel Weihs, Peter Steinle, Paul Sandery, Vaughan Barass, Chris Tingwell, Matthew Martin, Partner Institution(s): NOAA, CSIRO, University of Colorado, Meteo-France, Met Office, Florida State University, Remote Sensing Systems, University of Edinburgh, Funding: BLUElink, Bureau of Meteorology

Controls on carbon uptake, Commonwealth Scientific Industrial Research Organisation, Bronte Tilbrook, 2008-2019, Partner Institution(s): Tom Trull; Elizabeth Shadwick

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

Micronekton, Commonwealth Scientific Industrial Research Organisation, Rudy Kloser, 2009-2015, Funding: CSIRO

Marine and Climate Data Discovery and Access Project (MACDDAP) NeAT Project, University of Tasmania, Nathan Bindoff, 2009-2011, Partner Institution(s): UTAS, BoM, CMAR, Architecta

Coastal CO2 data from Southern Surveyor used for determining the uptake of CO2 and acidification in Australia's regional seas and the South Pacific, Commonwealth Scientific Industrial Research Organisation, Bronte Tilbrook, Mareva Kuchinke, Richard Matear, Andrew Lenton, 2009-2011, Partner Institution(s): Ausaid, DCCEE

Response of pteropods to ocean acidification, University of Tasmania, Antarctic Climate and Ecosystems Cooperative Research Centre, Donna Roberts, William Howard, Stephen Bray, Tom Trull, 2009-2012, Partner Institution(s): ACE CRC, Department of Climate Change

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

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

Ocean carbon and acidification, Commonwealth Scientific Industrial Research Organisation, Bronte Tilbrook, 2010-2011, Partner Institution(s): DCCEE

NWP marine flux validation in the Australian region, Bureau of Meteorology, Eric Schulz, 2010-2012

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

Net community production in the Australian sector of the Southern Ocean, Nicolas Cassar, 2010-2014, Partner Institution(s): CSIRO, Princeton University, Duke University

Building long-term climate quality air-sea flux record in Southern Ocean, Bureau of Meteorology, Eric Schulz

CSIRO Marine and Atmospheric Research SST products - testing use of IMOS HRPT AVHRR L2P products for production of CMAR SST composite products , Commonwealth Scientific Industrial Research Organisation, David Griffin, Partner Institution(s): Bureau of Meteorology

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 Dommenges, David Karloy, Peter Strutton, Richard Matear, Anthony Hirst, Scott Power, Stephen Griffies, 2010-2017, Partner Institution(s): University of Tasmania, Australian National University, University of New South Wales, University of Melbourne, CSIRO Centre for Marine and Atmospheric Research, Geophysical Fluid Laboratory USA

Southern ocean carbon cycle, Bronte Tilbrook, 2011-2012, Partner Institution(s): AAD, UTAS, Funding: Australian Antarctic Division, CSIRO

Ocean carbon and acidification, Bronte Tilbrook, Andrew Lenton, Partner Institution(s): AIMS, UQ, USyd, UNSW, UWA, NOAA(USA) NIES(Japan), IPSL(France), Funding: Australian Climate Change Science Program (ACCSP), CSIRO

Air-sea interaction and seasonality of the mixed layer in the Subantarctic Zone, University of New South Wales, Commonwealth Scientific Industrial Research Organisation, Steve Rintoul, Bernadette Sloyan, Matthew England, 2011-2012, Partner Institution(s): Marvin Alfaro - Fullbright Scholar

Pelagic ecosystem linkages in a changing Southern Ocean, Australian Antarctic Division, University of Tasmania, Maquarie University, Steve Nicol, Nick Gales, Mark Hindell, Rob Harcourt, 2011-2014, Funding: ARC Super Science Fellowship

NERP and NESP marine biodiversity hub, Australian Institute of Marine Science, Charles Darwin University, Commonwealth Scientific Industrial Research Organisation, Geoscience Australia, University of Tasmania, Museum Victoria, University of Western Australia, NSW DPI, NSW OEH, Nicholas Bax, 2011-2021, Funding: Department of the Environment

Calibration of the clumped-isotope technique in marine biogenic carbonates, and its eventual application to paleo-thermometry and paleo-oceanography, University of California, Aradhna Tripathi

Including IMOS HRPT AVHRR L2P SST in Global 1 km SST analysis (G1SST), North American Space Agency Jet Propulsion Laboratory, Yi Chao, Partner Institution(s): NASA JPL, Funding: National Aeronautics and Space Agency (NASA)

Collating existing pressure data for the Commonwealth marine area, Piers Dunstan, 2011-2015, Funding: National Environmental Research Program (NERP)

Surface Ocean CO2 Atlas (SOCAT), D Bakker, Partner Institution(s): UEA, NOAA, CSIRO, plus 47 others

Coastal carbon collaboration cluster, Commonwealth Scientific Industrial Research Organisation, Andy Steven, 2012-2015, Partner Institution(s): CSIRO, UTS, UWA, SCU, JCU, UNSW

Long-term changes in Vibrio bacteria, Luigi Vezzulli, 2012-2013, Funding: CSIRO

Project 318950 'A global network of permanent sites for calibrating satellite altimetry missions', Stelios Mertikas, 2012-2016, Partner Institution(s): Watson, C.S. UTAS. Et al., Funding: European Union 7th Framework Marie Curie Actions: International Research Staff Exchange Scheme FP7-PEOPLE-2012 IRSES

BLUElink III - OceanMAPS v2.1 validation, BOM Queensland Regional Office, Helen Beggs, 2012-2012, Funding: Royal Australian Navy

The IMOS plankton ecosystem assessment report, Commonwealth Scientific Industrial Research Organisation, Anthony Richardson, 2012-2013, Funding: CSIRO

Zooplankton atlas of Australia, University of Tasmania, Kerrie Swadling, 2012-2012, Funding: University of Tasmania, Integrated Marine Observing System (IMOS), CSIRO

Phytoplankton atlas of Australia, University of Tasmania, Gustaaf Hallegraeff, 2012-2015, Funding: University of Tasmania, Integrated Marine Observing System (IMOS), CSIRO

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

High-latitude validation of OAFflux, Bureau of Meteorology, Woods Hole Oceanographic Institute, Eric Schulz, Lisan Yu

Ocean carbon and acidification in Australian regional seas and the Southern Ocean, Commonwealth Scientific Industrial Research Organisation, Bureau of Meteorology, Bronte Tilbrook, Andrew Lenton, Partner Institution(s): CSIRO, BOM, Funding: Australian Climate Change Science Program (ACCSP)

Australian Cal/Val of sentinel-3 sea surface height project ID: 13680, University of Tasmania, Chris Watson, Neil White, John Church, Partner Institution(s): CSIRO, Funding: ESA - European Space Agency

Plankton dynamics down the Australian east coast, University of Tasmania, G Griffiths, 2012-2013

Revisiting wave-induced mixing and current effects: observations and modelling based on the Southern Ocean Flux Station, Swinburne University, Commonwealth Scientific Industrial Research Organisation, Bureau of Meteorology, Alexander Babanin, Mark Hemer, Eric Schulz, 2012-2014, Funding: CSIRO

High seas acoustic and biological sampling, Commonwealth Scientific Industrial Research Organisation, Rudy Kloser, 2012-2015, Funding: CSIRO, Sealords NZ

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

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

Southern Ocean Network of Acoustics (SONA), British Antarctic Survey, Sophie Fielding, 2013-2016, Funding: Natural Environment Research Council (UK)

In-depth analysis of the EAC and ITF mooring arrays and computation of mass, heat and salt time-series transports from collected data, Bernadette Sloyan, Ken Ridgway, Susan Wijffels, Rebecca Cowley, 2013-2014, Funding: Australian Climate Change Science Program (ACCSP)

Sensor based estimates of ocean productivity, Commonwealth Scientific Industrial Research Organisation, Tom Trull, 2013-2017, Funding: CSIRO, ACECRC, University of Tasmania

Near real-time modelling of Bass Strait for EPA Victoria, John Andrewartha, 2013-2014

Remote sensing in support of marine environmental monitoring, Curtin University, David Antoine, 2013-2016

Altimetry for real time applications and climate studies relevant to Australia: application to EUMETSAT/CNES DSP/OT/12-2118 for membership of the Ocean Surface Topography Science Team (OSTST), Commonwealth Scientific Industrial Research Organisation, David Griffin, John Church, Neil White, Ken Ridgway, Chris Watson, Richard Coleman, 2013-2016

GPS4SeaLevel, University de la Rochelle, University of Tasmania, A Santamaria-Gomez, Chris Watson, Matt King, Guy Wopplemann, 2013-2017, Funding: European Union 7th Framework Marie Curie Actions: International Research Staff Exchange Scheme FP7-PEOPLE-2012 IRSES

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

Global spread of Vibrios with climate change, University of Genoa, Luigi Vezzulli, 2013-2014

Autonomous benthic observing system, University of Western Australia, University of Tasmania, Commonwealth Scientific Industrial Research Organisation, Australian Institute of Marine Science, Department of Primary Industries, NSW, Stefan Williams, Oscar Pizarro, Gary Kendrick, Neville Barrett, Russ Babcock, Andrew Heyward, Alan Jordan, Partner Institution(s): University of Sydney, Funding: ARC LIEF

Autonomous platforms and biotagging data: a new approach for understanding variability and change across the Antarctic Ocean/sea-ice climate system, University of Tasmania, Guy Williams, 2013-2017, Funding: ARC Future Fellowship

Grass of the oceans: quantifying biodiversity, environmental and climatic connectivity from a decade-long capture of Southern Ocean diatoms, Macquarie University, Andres Rigual-Hernandez, Leanne Armand, Tom Trull, Stephen Bray, 2013-2015, Partner Institution(s): UTAS-CSIRO-ACECRC, Funding: Australian Antarctic Sciences Program

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)

NOV-7279-DV\_3653 regional calibration of Envisat at Bass Strait, Noveltis, Mathilde Cancet, 2014-2014, Partner Institution(s): Dr Christopher Watson (University of Tasmania), Funding: ESA - European Space Agency

International phytoplankton functional type intercomparison working group, Commonwealth Scientific Industrial Research Organisation, Nick Hardman-Mountford, 2014-2015, Partner Institution(s): NASA, ESA, NOAA, EUMETSAT, JAXA, KIOST, AWI, CNRS/LOV, CSIR, PML, U. Maine, U. Hokkaido, U. Lisboa, U. Sao Paulo, IRD, U. Richmond, Pixalytics, Michigan Tech., WHOI, Funding: IOCCG

The Southern Ocean boundary layer: winds, turbulence, sea spray and clouds, Monash University, Steve Siems, Partner Institution(s): Manton (Monash), Belusic (Monash), Sullivan (NCAR), Keywood (CSIRO), Schulz (BOM), Funding: ARC Discovery Project

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

DP150100615 quantifying sea-level trends and extremes along Australia's coastal margin, University of Tasmania, Matt King, 2015-2018, Partner Institution(s): Dr Christopher Watson (UTAS), Dr John Church (CSIRO), Dr Xiaoli Deng (U Newcastle), Dr John Hunter (UTAS), Prof Richard Coleman (UTAS), Dr Ole Anderson (TU Denmark), Funding: ARC Discovery Project

Linking phytoplankton to fisheries using zooplankton size spectra, University of New South Wales, Iain Suthers, Laura Richardson, Mark Baird, Sagulenko Evgeny, 2015-2018, Partner Institution(s): ARC Discovery Project, Funding: University of New South Wales, ARC Discovery Project

CAPRICORN: clouds, aerosols, precipitation, radiation and atmospheric composition over the Southern Ocean (Ship component of SOCRATES), Bureau of Meteorology, Alain Protat, 2015-2018, Partner Institution(s): Schofield (Melb Uni), Franklin (CSIRO), Keywood (CSIRO), Siems (MONASH), Alexander (AAD)

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

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

Using NFLUX to force an Indonesian area ocean model with validation of its SST forecasts using IMOS ship SST and fluxes, Naval Resesarch Lab, University of New Orleans, Charlie Barron, Jackie May, Silvia Gremes-Cordero, C Rowley

Satellite detection of marine pollution in the Great Barrier Reef, Commonwealth Scientific Industrial Research Organisation, David Blondeau-Patissier, 2016-2019, Funding: Advance Queensland Fellowship

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

Assessing satellite SST as a potential data source to replace temperature data from tide gauges to populate ballast water exchange risk tables, Fisheries, Forestry and Quantitative Sciences Branch ABARES, Rupert Summerson

Southern Ocean nanoplankton response to CO<sub>2</sub> (SONAR-CO<sub>2</sub>), Commonwealth Scientific Industrial Research Organisation, National Institute of Water and Atmospheric Research, University of Salamanca, University of Lisbon, Andres Rigual-Hernandez, 2017-2019, Funding: European Union Marie Curie Fellowship

Towards large-scale estimates of photosynthetic competency: an assessment of iron stress and other environmental influences on sun-induced fluorescence quenching, Commonwealth Scientific Industrial Research Organisation, Christina Schallenberg, 2017-2018, Partner Institution(s): ACE CRC; CSIRO Oceans and Atmosphere, Funding: Natural Sciences and Engineering Research Council

Surface wind mixing in ocean models, University of New South Wales, Australian Defence Force Academy, Robin Robertson, 2017-2017, Funding: Defence Science and Technology Group

Multi-site foraging habitat use by Weddell seals under different sea-ice conditions, National Institute for Polar Research, Karine Heerah, 2018-2019, Partner Institution(s): Macquarie University Australia, UTas Australia, Paris Museum of Natural History, CNRS France, Funding: Japan Society for the Promotion of Science

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## Postgraduate Research Projects

Doctor of Philosophy (PhD), Late Pleistocene Palaeoceanographic and Geochemical Evolution of the South Tasman Rise, University of Tasmania, Antarctic Climate and Ecosystems Cooperative Research Centre; Andrew Moy, 2000-2005, Supervisor(s): William Howard

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), Wind forced changes and variability in the East Australia Current, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Katy Hill, 2005-2009, Supervisor(s): Steve Rintoul, Ken Ridgway, Richard Coleman

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), 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), Nitrogen isotopic fractionation during phytoplankton assimilation of nitrate, Princeton University, University of Tasmania; Kristen Karsh, 2006-2013, Supervisor(s): Daniel Sigman, Tom Trull

Doctor of Philosophy (PhD), Coccolithophores evolution and calcification patterns of the late Quaternary in the Southern Ocean, University of Tasmania; Joana Cubillos, Supervisor(s): William Howard, Gustaaf Hallegraeff

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), Photosynthetic performance and productivity of phytoplankton in the Southern Ocean, University of Tasmania; Wee Cheah, 2009-2012, Supervisor(s): Andrew McMinn, Klaus Meiners

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

Honours degree, Seabirds and climate change: Can wedge-tailed shearwaters adapt to changing resource availability?, James Cook University; Fiona McDuie, 2009-2010, Supervisor(s): Brad Congdon

Honours degree, Investigating the foraging flights and chick growth in short-tailed shearwaters, University of Tasmania; Jaimie Cleeland, 2010-2011, Supervisor(s): Mark Hindell, Mary-Anne Lea

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

Masters degree, Assimilating in situ bioacoustic data in a mid-trophic level model, École Nationale Supérieure de Techniques Avancées; Anna Conchon, 2010-2011, Supervisor(s): Patrick Lehodey, I Senina; Partner Institution(s): CLS

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

Honours degree, Zooplankton in the Tasman Sea, University of Tasmania; Briony Hutton, 2011-2012, Supervisor(s): Kerrie Swadling, Rudy Kloster; Partner Institution(s): IMAS, CSIRO

Degree - Other, KGG355 Spatial research project, sea surface height analysis in Storm Bay, Tasmania, University of Tasmania; Jack Beardsley, 2011-2011, Supervisor(s): Chris Watson; Funding: University of Tasmania

Honours degree, Macquarie Island tide gauge calibration and sea level extreme event analysis, University of Tasmania; Anna Hill, 2011-2011, Supervisor(s): Chris Watson; Funding: University of Tasmania

Doctor of Philosophy (PhD), Acidification and carbonate chemistry of shelf waters in the Australian Antarctic Territory, University of Tasmania; Nick Roden, 2011-2014, Supervisor(s): Tom Trull, Bronte Tilbrook, E Shadwick, Patti Virtue; Funding: APRA, European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), CSIRO

Degree - Other, 3rd year Environmental engineering research project, University of Western Australia; Jacqui Doran, 2011-2012, Supervisor(s): Anya Waite, Tom Trull

Doctor of Philosophy (PhD), Effects of climate change on phytoplankton primary production and chemotaxonomy in Southern Ocean and Antarctic ecosystems, University of Tasmania; Robert Johnson, 2011-2014, Supervisor(s): Peter Strutton, Andrew McMinn, Klaus Meiners, Simon Wright; Partner Institution(s): ACE-CRC, AAD

Honours degree, Faecal pellet dynamics and carbon fluxes from gel-based sediment traps in the Southern Ocean, University of Western Australia; Jacqui Doran, 2012-2012, Supervisor(s): Anya Waite, Tom Trull

Doctor of Philosophy (PhD), Application of silicon isotopes to the quantification of biological pump processes in the Southern Ocean, University of Paris; Ivia Closset, 2012-2015, Supervisor(s): D Cardinal; Funding: ACECRC

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

Honours degree, Seasonal and latitudinal changes in the zooplankton community composition along the East Australia Current: The AusCPR survey, Institute of Marine and Antarctic Studies; Kate Picone, 2012-2012, Supervisor(s): Kerrie Swadling, Anthony Richardson; Funding: University of Tasmania

Doctor of Philosophy (PhD), Controls on Southern Ocean carbon sequestration, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Emmanuel Laurenceau-Cornec, 2012-2015, Supervisor(s): Philip Boyd, Tom Trull, Mathieu Mongin

Honours degree, Southern Ocean habitat selection by short-tailed shearwaters, Institute of Marine and Antarctic Studies; Delphi Ward, Supervisor(s): Mark Hindell, Mary-Anne Lea

Degree - Other, Third year IMAS/UTAS research project - Distribution of *Emiliania huxleyi* calcification morphotypes in the Southern Ocean, 2006-2007, University of Tasmania; Isobel Thomas, Supervisor(s): Gustaaf Hallegraeff

Degree - Other, KSA306 Marine Research project, Institute of Marine and Antarctic Studies; Ben Weeding, 2012-2012, Supervisor(s): Tom Trull

Honours degree, Biogenic silica fluxes at the Southern Ocean Time Series Site, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Chris Coxson, 2013-2013, Supervisor(s): Tom Trull; Funding: ACECRC

Honours degree, Multi-frequency bio-acoustic measurements of grazing animal abundances at the Southern Ocean Time Series Site, University of Western Australia; Ryan Walker, 2013-2013, Supervisor(s): Anya Waite, Tom Trull; Funding: University of Western Australia , ACECRC

Doctor of Philosophy (PhD), Waves and ocean interactions at the SOFS site, Swinburne University; Henrique Rapizo, 2013-2017, Supervisor(s): Alexander Babanin, Malek Ghanous, Eric Schulz

Doctor of Philosophy (PhD), Stock structure and critical habitats for a key apex predator: the sevengill shark, University of Tasmania, James Cook University, Deakin University; Alicia Schmidt-Roach, 2013-2017, Supervisor(s): Jayson Semmens, Adam Barnett, Craig Sherman, Paul Hamer

Doctor of Philosophy (PhD), Trophic interactions, predators and environmental influences, Macquarie University; Lisa-Marie Harrison, 2013-2017, Supervisor(s): Rob Harcourt, Martin Cox; Partner Institution(s): AAD; Funding: Super Science, Macquarie University

Doctor of Philosophy (PhD), Using fisheries hydroacoustics to evaluate and predict abundance of mid-trophic level organisms for global ecosystem pattern analysis and modelling, University of Auckland; Pablo Escobar Flores, 2013-2017, Supervisor(s): Richard O'Driscoll, J Montgomery; Funding: NIWA - National Institute of Water and Atmospheric Research

Doctor of Philosophy (PhD), Processes controlling Antarctic deep water formation, Australian National University; Kate Snow, Supervisor(s): Andrew Hogg, Stephanie Downes, Bernadette Sloyan



Doctor of Philosophy (PhD), Foraging ecology of male and female elephant seals in the sea-ice zone: role of the physiography, hydrological factors, and sea-ice condition, University of Tasmania; Sarah Labrousse, 2013-2016, Supervisor(s): Mark Hindell, Christophe Guinet, Jean-Benoit Charrassin

Degree - Other, Third year IMAS/UTAS research project - Variations in morphology and distribution of the coccolithophorid *Emiliana huxleyi* in the Australian sector of the Southern Ocean, 2012/2013, University of Tasmania; Lisa Harding, Supervisor(s): Gustaaf Hallegraeff

Doctor of Philosophy (PhD), Micronekton dynamics in Southern Indian Ocean, University of Cape Town; Nolwenn Behagle, 2014-2017, Supervisor(s): Louis du Buisson, Erwan Josse, Anne Lebourges-Dhaussy; Funding: Institute of Research and Development France, IOCCP - International Ocean Carbon Coordination Project

Doctor of Philosophy (PhD), Variability of Indonesian through flow property transports and modulation by Indian Ocean Dipole (IOD) and ENSO, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Ana Berger, 2014-2017, Supervisor(s): Bernadette Sloyan, Susan Wijffels, Max Nikurahsin; Partner Institution(s): CSIRO/IMAS/Brazilian Government - Brazilian Agency for Science - CAPES/ARC Centre of Excellence for Climate Systems Science; Funding: Brazilian Government

Doctor of Philosophy (PhD), Biogeography of the Coral and Tasman Sea micronekton based on IMOS bioacoustic data, University of Tasmania; Ryan Downie, Supervisor(s): Rudy Kloster, Alastair Hobday, Simon Wotherspoon; Funding: CSIRO

Doctor of Philosophy (PhD), Southern Ocean micronekton, University of Tasmania; Roland Proud, 2014-2017, Supervisor(s): Martin Cox, Simon Wotherspoon, Andrew Brierly; Funding: Australian Antarctic Division

Doctor of Philosophy (PhD), Investigating sea surface temperature diurnal variation over the tropical warm pool using MTSAT-1R, University of New South Wales; Haifeng Zhang, 2014-2018, Supervisor(s): Xiao Hua Wang, Andrew Kiss, Helen Beggs; Partner Institution(s): Bureau of Meteorology; Funding: China Scholarship Council

Doctor of Philosophy (PhD), Uncoupling oceanographic and life-history drivers to alternate foraging strategies in long-nosed fur seals, University of Tasmania, South Australian Research and Development Institute; Dahlia Foo, 2015-2018, Supervisor(s): Mark Hindell, Simon Goldsworthy, Jayson Semmens, Clive McMahon

Doctor of Philosophy (PhD), Inference of foraging success in a top Southern Ocean predator, University of Tasmania; Fernando Gonzalez, 2015-2018, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon, Simon Wotherspoon

Doctor of Philosophy (PhD), Comparative diving physiology and ecology across Southern Ocean marine predators, University of Tasmania; Giulia Roncon, 2015-2017, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon

Honours degree, Comparison of two- and three- dimensional foraging metrics in southern elephant seal modelling, University of Tasmania; P Pascoe, 2015-2015, Supervisor(s): Mark Hindell, Sophie Bestley, Clive McMahon

Doctor of Philosophy (PhD), Retrieval and Application of Shipboard Sea Surface Temperature Measurements, Ocean University of China; Minglun Yang, 2015-2018, Supervisor(s): Lei Guan; Partner Institution(s): Australian Bureau of Meteorology

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

Honours degree, Bio-physical characterisation of east Antarctic polynyas as key Southern Elephant seal (*Mirounga leonina*) foraging habitat, University of Tasmania; Veda Malpress, 2015-2016, Supervisor(s): Stuart Corney, Sophie Bestley, Mark Hindell, Dirk Welsford; Partner Institution(s): UTAS, ACE-CRC, AAD

Doctor of Philosophy (PhD), Grazing and viral impacts on marine food webs, Macquarie University; Amanda Focardi, 2016-2019, Supervisor(s): Ian Paulsen, Martin Ostrowski

Doctor of Philosophy (PhD), Southern ocean microbial biogeography, University of Tasmania; Swan Sow, 2016-2019, Supervisor(s): Lev Bodrossy, Philip Boyd, Tom Trull

Honours degree, Upper ocean heat content estimates: exploring the impact of XBT corrections, University of Tasmania; Frances Pitt, Supervisor(s): Catia Domingues, Didier Monselesan, Rebecca Cowley

Doctor of Philosophy (PhD), Overturning circulation of the Indian Ocean, Ocean University of China; Jie Ma, 2016-2018, Supervisor(s): Ming Feng; Funding: China Scholarship Council

Doctor of Philosophy (PhD), Microbial oceanography of Australian coastal waters, University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Kirianne Goossen, 2016-2019, Supervisor(s): Lev Bodrossy, Jodie Van De Kamp, Mark Brown

Masters degree, Molecular mechanisms of nutrient uptake in marine microbial ecosystems, Macquarie University; Andrew McLeish, 2016-2017, Supervisor(s): Bhumika Shah, Martin Ostrowski

Masters degree, Do Weddell seals have drift dives?, Macquarie University; C Yong, 2017-2017, Supervisor(s): Rob Harcourt, Iain Jonsen, Clive McMahon, Mark Hindell; Partner Institution(s): AAD, IMAS; Funding: Macquarie University

**Postgraduate Research Projects 61**

## Books

Harrison, BA, Jupp, D, Lewis, M, Forster, B, Mueller, N, Smith, C, Phinn, SR, Hudson, DA, Grant, I, Coppa, I 2016, , Earth Observations: Data, Processing and Applications. Volume 1A: Data - Basics and Acquisition, CRC SI, Melbourne

**Books 1**

## Book Chapters

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

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

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

Beggs, H 2010, Use of TIR from Space in Operational Systems, in V Barale, JFR Gower, L Alberotanza (eds.), Oceanography from Space Revisited, Springer, pp.249-271

Ganachaud, AS, Sen Gupta, AS, Orr, JC, Wijffels, S, Ridgway, K, Hemer, MA, Maes, C, Steinberg, C, Tribollet, AD, Qiu, B, Kruger, J 2010, Observed and Expected Changes to the Pacific Ocean, in JD Bell (eds.), Vulnerability of Fisheries and Aquaculture in the Pacific to Climate Change

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

Gutt, J, Hosie, G, Stoddart, M 2010, Marine Life in the Antarctic, in A McIntyre (eds.), Life in the World's Oceans: Diversity, Distribution, and Abundance, Wiley-Blackwell, pp.203-220

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

Bonnefond, P, Haines, BJ, Watson, C 2011, In situ Absolute Calibration and Validation - A link from Coastal to Open-Ocean Altimetry, in S Vignudelli, AG Kostianoy, P Cipollini, J Benveniste (eds.), Coastal Altimetry, Springer, Berlin, pp.259-296

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

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

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

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

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

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

Cronin, MF, Weller, RA, Lampitt, RS, Send, U 2012, Ocean Reference Stations, in RB Rustamov, SE Salahova (eds.), Earth Observation, InTech, Rijeka

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

Roughan, M, Schaeffer, A, Suthers, I 2015, Sustained ocean observing along the coast of southeastern Australia: NSW-IMOS 2007-2015, in Y Liu, H Kerkering, R Weisberg (eds.), Coastal Ocean Observing Systems, Elsevier, pp.76-98

null

Hallegraeff, GM, Richardson, A, Coughlan, A 2017, Marine Phytoplankton Bioregions in Australian Seas, in MC Ebach (eds.), Handbook of Australasian Biogeography, CRC Press

null

Chua, BS, Xu, L 2017, Representer-based variational data assimilation systems: a review, in SK Park, L Xu (eds.), Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. III), Springer, pp.71-81

## Community White Papers / Technical Papers

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

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

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

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

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

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

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

Smith, S, Bourdalle-Baide, R, Bradley, E, Cosca, C, Fairall, C, Goni, GJ, Gunn, J, Hood, M, Jackson, D, Kent, E, Lagerloef, G, McGillivray, P, Petit de la Villeon, L, Pinker, R, Schulz, E, Sprintall, J, Stammer, D, Weill, A, Wick, G, Yelland, M; 2010, Automated underway oceanic and atmospheric measurements from ships, 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.82

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

Smith, S, Rettig, J, Rolph, J, Hu, J, Kent, E, Schulz, E, Verein, R, Rutz, S, Paver, C; 2010, The data management system for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) initiative, 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.83

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

Handegard, NO, Demer, D, Kloser, R, Lehodey, P, Maury, O, Simard, Y; 2010, Toward a Global Ocean Ecosystem Mid-Trophic Automatic Acoustic Sampler (MAAS), 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.40

Send, U, Weller, RA, Wallace, D, Chavez, F, Lampitt, RS, Dickey, T, et, al.; 2010, OceanSITES, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 2), Venice, Italy, September 2009, ESA Publication WPP-306

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

Garde, L, Spillman, CM, Majewski, L, Griffin, C, Kruger, G, Beggs, H; 2013, ReefTemp Next Generation

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

Tilbrook, B, Matear, R, Antoine, D, Bowie, AR, Brown, MV, Byrne, M, Hardman-Mountford, NJ, Howard, WR, Lenton, A, et, al.; 2015, Ocean biogeochemistry (inc. carbon cycle, ocean acidification, marine chemistry), Comments: Community white paper for National Marine Science Plan

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

Erbe, C; 2016, The effects of noise on aquatic life: AMSA Bulletin, Australian Marine Sciences Association, Campbelltown

## Community White Papers/Technical Papers 21

### Conference Proceedings

Beggs, H, Majewski, L, Paltoglou, G 2009, New Australian high resolution AVHRR SST products from the Integrated Marine Observing System, Proceedings of the 2009 International Users Symposium, Santa Rosa, USA, May, 2009, Santa Rosa

Beggs, H, Verein, R, Paltoglou, G 2010, Calibration and validation of AVHRR sea surface temperatures using observations from Ships of Opportunity, Proceedings of Oceans from Space 2010, Venice

Send, U, Burkill, P, Gruber, N, Johnson, G, et, al. 2010, Towards an Integrated Marine Observing System: in situ observations, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol 1), Venice, Italy, September 2009, ESA Publication WPP-306, Venice, Presenter: Uwe Send

Pender, L, Trull, T, McLaughlin, D, Lynch, T 2010, Pulse - a mooring for mixed layer measurements in the open ocean and extreme weather, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

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

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

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

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

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

Trull, T, Schulz, E, Bray, SG, Pender, L, McLaughlin, D, Tilbrook, B, Rosenberg, M, Lynch, T 2010, The Australian Integrated Marine Observing System Southern Ocean Time Series facility, Proceedings of Oceans 2010 IEEE, Sydney, Australia, May, 2010, Sydney

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

Beggs, H, Majewski, L, Paltoglou, G, Schulz, E, Barton, I, Verein, R 2010, Report to GHRSS11 from Australia - BLUElink and IMOS, Proceedings of the 11th International GHRSS1 Science Team Meeting, Lima, Peru, June, 2010, Lima, Presenter: Ian Barton

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

Beggs, H, Sandery, PA, Barass, V, Steinle, P 2011, Australian Bureau of Meteorology SST requirements for NWP and atmosphere-ocean coupled models, Proceedings of the 12th International GHRSS1 Science Team Meeting, Edinburgh, UK, June, 2011, Edinburgh, Presenter: Helen Beggs

Beggs, H, Majewski, L, Paltoglou, G, Verein, R, Zhong, A 2011, Report to GHRSS12 from Australia - BLUElink and IMOS, Proceedings of the 12th International GHRSS1 Science Team Meeting, Edinburgh, UK, June, 2011, Edinburgh, Presenter: Helen Beggs

Beggs, H, Castro, S, Wick, G, Majewski, L, LeBorgne, P, Merchant, C, Brunke, M, Clayson, CA, Zhu, X, Corlett, G, Barass, V, Tingwell, C, Sandery, PA, Schulz, E, Kruger, G, Harris, A, Mittaz, J, Gentemann, C, Embury, O 2012, Update on the GHRSS1 Tropical Warm Pool diurnal variability (TWP+) project, Proceedings of the 13th International GHRSS1 Science Team Meeting, Tokyo, Japan, June, 2012, Tokyo, Presenter: Helen Beggs

Kaiser-Weiss, A, Beggs, H, Hoyer, J, Harris, A, Corlett, G, Wick, G 2012, Summary of the joint workshop of the DV-WG, HL-TAG, ST-VAL, and EARWIG on tropical warm pool and high latitude SST issues, Proceedings of the 13th International GHRSS1 Science Team Meeting, Tokyo, Japan, June, 2012, Tokyo, Presenter: A Kaiser-Weiss

Beggs, H, Majewski, L, Kruger, G, Verein, R, Oke, PR, Sakov, P, Tingwell, C, Barass, V, Sandery, PA, Griffin, C 2012, Report to GHRSS13 from Australia - BLUElink and IMOS, Proceedings of the 13th International GHRSS1 Science Team Meeting, Tokyo, Japan, June, 2012, Tokyo

Cancet, M, Watson, C, Haines, BJ, Bonnefond, P, Lyard, F, Femenias, P 2015, Regional Cal/Val of altimeter range at non-dedicated sites in preparation of sentinel-3, Proceedings of Sentinel-3 for Science workshop. ESA SP-734, Venice, Presenter: Chris Watson

Erbe, C, McCauley, R, Gavrilov, AS, Madhusudhana, S, Verma, A 2016, The underwater soundscape around Australia, Proceedings of Acoustics 2016, Brisbane, Presenter: Christine Erbe

Beggs, H, Griffin, C, Majewski, L, Govekar, P, Sisson, J 2016, Report from the Australian RDAC to GHRSS1-XVII, Proceedings of the 17th International GHRSS1 Science Team Meeting, Washington, USA, June, 2016, Washington DC, Presenter: Helen Beggs

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

## Journals

- Mongin, M, Nelson, DM, Pondaven, P, Treguer, P 2006, Simulation of upper-ocean biogeochemistry with a flexible-composition phytoplankton model: C, N and Si cycling and Fe limitation in the Southern Ocean, *Deep Sea Research Part II*, vol. 53, no. 5-7, pp. 601-619, doi:10.1016/j.dsr2.2006.01.021
- Boyd, PW, Trull, T 2006, Understanding the export of biogenic particles in oceanic waters: is there consensus?, *Progress in Oceanography*, vol. 72, no. 4, pp. 276-312, doi:10.1016/j.pocean.2006.10.1007.
- Cardinal, D, Savoye, N, Trull, T, Dehairs, F, Kopczynska, E, Fripiat, F, Tison, JL, Andre, L 2006, Silicon isotopes in spring Southern Ocean diatoms: large zonal changes despite homogeneity among size fractions, *Marine Chemistry*, vol. 106, no. 1-2, pp. 46-62, doi:10.1016/j.marchem.2006.04.006
- Alory, G, Wijffels, S, Meyers, G 2007, Observed trends in the Indian Ocean over 1960-1999 and associated mechanisms, *Geophysical Research Letters*, vol. 34, L02606, doi:10.1029/2007GL028044
- Greenwood, J, Feng, M, Waite, A 2007, A one-dimensional simulation of biological production in two contrasting mesoscale eddies in the south eastern Indian Ocean, *Deep Sea Research Part II*, vol. 54, pp. 1029-1044, doi:10.1016/j.dsr2.2006.10.004
- 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
- Cubillos, JC, Wright, SW, Nash, G, Salas, MF, Griffiths, B, Tilbrook, B, Poisson, A, Hallegraef, GM 2007, Calcification morphotypes of the coccolithophorid *Emiliana huxleyi* in the Southern Ocean: changes in 2001 to 2006 compared to historical data, *Marine Ecology Progress Series*, vol. 348, pp. 47-54, doi:10.3354/meps07058
- 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 thermocline sea level rise, *Journal of Climate*, vol. 21, no. 21, pp. 5657-5672, doi:10.1175/2008JCLI2290.1
- Wainwright, L, Meyers, G, Wijffels, S, Pigot, LP 2008, Change in the Indonesian throughflow with the climatic shift of 1976/77, *Geophysical Research Letters*, vol. 35, L03604, doi:10.1029/2007GL031911
- 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
- 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
- Oke, PR, Sakov, P 2008, Representation error of oceanic observations for data assimilation, *Journal of Atmospheric and Oceanic Technology*, vol. 25, pp. 1004-1017
- 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

- Wijffels, S, Meyers, G, Godfrey, S 2008, A 20-Yr average of the Indonesian throughflow: regional currents and the interbasin exchange, *Journal of Physical Oceanography*, vol. 38, no. 9, pp. 1965-1978
- Morrow, R, Valladeau, G, Sallee, J-B 2008, Subsurface signature of Southern Ocean sea level rise, *Progress in Oceanography*, vol. 77, no. 4, pp. 351-366, doi:10.1016/j.pocean.2007.03.002
- 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
- Sallee, J-B, Morrow, R, Speer, K 2008, Southern Ocean fronts and their variability to climate modes, *Journal of Climate*, vol. 21, no. 12, pp. 3020-3039
- Ridgway, K, Coleman, R, Bailey, RJ, Sutton, P 2008, Decadal variability of East Australian Current transport inferred from repeated hi-density XBT transects, a CTD survey and satellite altimetry, *Journal of Geophysical Research - Oceans*, vol. 113, C08039, doi:10.1029/2007JC004664
- 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
- Demer, D, Kloser, R, MacLennan, D, Ona, E 2009, An introduction to the proceedings and a synthesis of the 2008 ICES symposium on the Ecosystem Approach with Fisheries Acoustics and Complementary Technologies (SEAFACETS), *ICES Journal of Marine Science*, vol. 66, pp. 961-965
- 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
- 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
- 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
- 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
- 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.
- 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
- Bowie, AR, Lannuzel, D, Remenyi, TA, Wagner, T, Lam, PJ, Boyd, PW, Guieu, C, Townsend, AT, Trull, T 2009, Biogeochemical iron budgets of the Southern Ocean south of Australia: decoupling of iron and nutrient cycles in the subantarctic zone by the summertime supply, *Global Biogeochemical Cycles*, vol. 23, no. GB4034, doi:10.1029/2009GB003500
- 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
- Roemmich, D, et. al. 2009, Argo: the challenge of continuing 10 years of progress, *Oceanography*, vol. 22, no. 3, pp. 46-55
- 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
- Feng, M, Waite, A, Thompson, P 2009, Climate variability and ocean production in the Leeuwin Current system off the west coast of Western Australia, *Journal of the Royal Society of Western Australia*, vol. 92, pp. 67-81
- 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



- 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
- Kloser, R, Ryan, T, Young, J, Lewis, M 2009, Acoustic observations of micronekton fish on the scale of an ocean basin: potential and challenges, *ICES Journal of Marine Science*, vol. 66, no. 6, pp. 998-1006, doi:10.1093/icesjms/fsp07
- 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
- Moy, AD, Howard, WR, Bray, SG, Trull, T 2009, Reduced calcification in modern Southern Ocean planktonic foraminifera, *Nature Geoscience*, vol. 2, no. 4, pp. 276-280, doi:10.1038/NGEO46
- 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
- Takahashi, KT, Hosie, G, Kitchener, JA, McLeod, DJ, Odate, T, Fukuchi, M 2010, Comparison of zooplankton distribution patterns between four seasons in the Indian Ocean sector of the Southern Ocean, *Polar Science*, vol. 4, no. 2, pp. 317-331, doi:10.1016/J.pdar.2010.05.00L
- Pinkerton, M, Smith, A, Raymond, B, Hosie, G, Sharp, B, Leathwick, J, Bradford-Grieve, J 2010, Spatial and seasonal distribution of adult *Oithona similis* in the Southern Ocean: predictions using boosted regression trees, *Deep Sea Research Part I*, vol. 57, no. 4, pp. 469-485, doi:10.1016/J.dsr2009.12.010
- 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
- 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
- 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
- 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
- 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
- DiFiore, PJ, Sigman, DM, Karsh, K, Trull, T, Dunbar, R, Robinson, R 2010, Poleward decrease in the isotope effect of nitrate assimilation across the Southern Ocean, *Geophysical Research Letters*, vol. 37, doi:10.1029/2010GL044090
- 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
- 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
- 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
- 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.
- 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

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

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

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

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

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

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

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

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, McEnulty, 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

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

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

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.

Thresher, RE, Wilson, NC, MacRae, CM, Neil, H 2010, Temperature effects on the calcite skeletal composition of deep-water gorgonians (Isididae), *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

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

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

McLeod, DJ, Hosie, G, Kitchener, JA, Takahashi, KT, Hunt, BPV 2010, Zooplankton atlas of the Southern Ocean: The SCAR SO-CPR Survey (1991-2008), *Polar Science*, vol. 4, no. 2, pp. 353-385, doi:10.1016/j.polar.2010.03.004

Edwards, M, Beaugrand, G, Hays, GC, Koslow, JA, Richardson, A 2010, Multi-decadal oceanic ecological datasets and their application in marine policy and management, *Trends in Ecology and Evolution*, vol. 25, no. 10, pp. 602-610, doi:10.1016/j.tree.2010.07.007.

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

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

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

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

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

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

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

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

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

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

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

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/s11802-011-0002-y

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

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

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

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

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

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

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

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

Takahashi, KT, Hosie, G, McLeod, DJ, Kitchener, JA 2011, Surface zooplankton distribution patterns during austral summer in the Indian sector of the Southern Ocean, south of Australia, *Polar Science*, vol. 5, no. 2, pp. 134-145, doi:10.1016/j.polar.2011.04.003

Allain, V, Nicol, S, Polovina, J, Coll, M, Olson, R, Griffiths, S, Dambacher, J, Young, J, Molina, J, Hoyle, S, Lawson, T 2011, International workshop on opportunities for ecosystem approaches to fisheries management in the Pacific Ocean tuna fisheries, *Reviews in Fish Biology and Fisheries*, vol. 22, no. 1, pp. 29-33, doi:10.1007/s11160-011-9220-z

Ebersbach, F, Trull, T, Davies, DM, Bray, SG 2011, Controls on mesopelagic particle fluxes in the sub-Antarctic and polar frontal zones in the Southern Ocean south of Australia in summer – Perspectives from free-drifting sediment traps, *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2260-2276, doi:10.1016/j.dsr2.2011.05.025,

Howard, WR, Roberts, D, Moy, AD, Lindsay, MCM, Hopcroft, RR, Trull, T, Bray, SG 2011, Distribution, abundance and seasonal flux of pteropods in the Sub-Antarctic Zone, *Deep Sea Research Part II*, vol. 58, no. 21-22, pp. 2293-2300, doi:10.1016/j.dsr2.2011.05.031

Schulz, E, Grosenbaugh, MA, Pender, L, Greenslade, DJM, Trull, T 2011, Mooring design using wave-state estimate from the Southern Ocean, *Journal of Atmospheric and Oceanic Technology*, vol. 28, no. 10, pp. 1351-1360, doi:10.1174/jtech-d-10-05033.1

- Field, IC, Harcourt, R, Boehme, L, de Bruyn, N, Charrassin, J-B, McMahon, C, Bester, M, Fedak, M, Hindell, MA 2011, Refining instrument attachment on phocid seals, *Marine Mammal Science*, vol. 28, no. 3, pp. 325-332, doi:10.1111/j.1748-7692.2011.00519.x
- Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R 2011, Absolute calibration in Bass Strait, Australia: TOPEX, Jason-1 and OSTM/Jason-2, *Marine Geodesy*, vol. 34, no. 3-4, pp. 242-260, doi:10.1080/01490419.2011.584834
- Bowie, AR, Trull, T, Dehairs, F 2011, Estimating the sensitivity of the Subantarctic Zone to environmental change, *Deep Sea Research Part II*, vol. 58, pp. 2051-2058, doi: 10.1016/j.dsr2.2011.05.034
- Bowie, AR, Griffiths, B, Dehairs, F, Trull, T 2011, Oceanography of the subantarctic and polar frontal zones south of Australia during summer: setting for the SAZ-Sense study, *Deep Sea Research Part II*, vol. 58, no. 21, pp. 2059-2070, doi: 10.1016/j.dsr2.2011.05.033
- Jacquet, SM, Lam, PJ, Trull, T, Dehairs, F 2011, Carbon export production in the Polar Front Zone and Subantarctic Zone south of Tasmania, *Deep Sea Research Part II*, vol. 58, no. 21, pp. 2277-2292, doi:10.1016/j.dsr2.2011.05.035
- 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
- Roberts, D, Howard, WR, Moy, AD, Roberts, J, Trull, T, Bray, SG, Hopcroft, RR 2011, Interannual pteropod variability in sediment traps deployed above and below the aragonite saturation horizon in the Sub-Antarctic Southern Ocean, *Polar Biology*, vol. 34, no. 11, pp. 1739-1750, doi:10.1007/s00300-011-1024-z

Smith, T, Brown, CJ, Bulman, C, Fulton, EA, Johnson, P, Kaplan, IC, Lozano-Montes, H, Mackinson, S, Marzloff, M, Shannon, LJ, Shin, Y, Tam, J 2011, Impacts of fishing low-trophic level species on marine ecosystems, *Science*, vol. 333, no. 6046, pp. 1147-1150, doi:10.1126/science.1209395

Kida, S, Wijffels, S 2012, The impact of the Indonesian throughflow and tidal mixing on the summer-time sea surface temperature in the western Indonesian seas, *Journal of Geophysical Research - Oceans*, vol. 117, no. C9, pp. 9007-9021, doi:10.1029/2012JC008162

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

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

Beggs, H, Verein, R, Paltoglou, G, Kippo, H, Underwood, M 2012, Enhancing ship of opportunity sea surface temperature observations in the Australian region, *Journal of Operational Oceanography*, vol. 5, no. 1, pp. 59-73

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

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

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

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

McLeod, DJ, Hallegraef, GM, Hosie, G, Richardson, A 2012, Climate-driven range expansion of the red-tide dinoflagellate *Noctiluca scintillans* into the Southern Ocean, *Journal of Plankton Research*, vol. 34, no. 4, pp. 332-337, doi:10.1093/plankt/fbr112

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

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

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

Oke, PR, Sakov, P 2012, Assessing the footprint of a regional ocean observing system., *Journal of Marine Systems*, vol. 105, pp. 30-51, doi:10.1016/j.jmarsys.2012.05

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

Shimada, K, Aoki, S, Oshima, KI, Rintoul, S 2012, Influence of the Ross Sea Bottom Water changes on the warming and freshening of the Antarctic bottom water in the Australian-Antarctic Basin, *Ocean Science*, vol. 8, pp. 419-432

Condon, RH, et. al. 2012, Questioning the rise of gelatinous zooplankton in the world's oceans, *BioScience*, vol. 62, no. 2, pp. 160-169, doi:10.1525/bio.2012.62.2.9

Brown, MV, Lauro, FM, DeMaere, MZ, Wilkins, D, Thomas, T, Riddle, MJ, Fuhrman, JA, Andrews-Pfannkoch, C, Hoffman, JM, McQuaid, JB, Allen, A, Rintoul, S, Cavicchioli, R 2012, Global biogeography of SAR11 marine bacteria, *Molecular Systems Biology*, vol. 8, doi:10.1038/msb.2012.28

- Tamura, T, Williams, G, Fraser, AD, Ohshima, KI 2012, Potential regime shift in decreased sea ice production after the Mertz Glacier calving, *Nature Communications*, vol. 3, doi:10.1038/ncomms1820
- Schulz, E, Josey, SA, Vereijn, R 2012, First air-sea flux mooring measurements in the Southern Ocean, *Geophysical Research Letters*, vol. 39, doi:10.1029/2012GL052290
- 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
- Flynn, AJ, Kloser, R 2012, Cross-basin heterogeneity in lanternfish (family Myctophidae) assemblages and isotopic niches ( $\delta^{13}C$  and  $\delta^{15}N$ ) in the southern Tasman Sea abyssal basin, *Deep Sea Research Part I*, vol. 69, pp. 113-127
- Fedak, M 2012, The impact of animal platforms on polar ocean observation, *Deep Sea Research Part II*, vol. 88, pp. 7-13, doi:10.1016/j.dsr2.2012.07.007
- 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
- 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
- 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
- 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
- Cowley, R, Wijffels, S, Cheng, L, et. al. 2013, Biases in expendable bathythermograph data: a new view based on historical side-by-side comparisons, *Journal of Atmospheric and Oceanic Technology*, vol. 30, no. 6, pp. 1195-1225, doi:10.1175/JTECH-D-12-00127.1
- 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
- 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

- 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
- Lenton, A, Tilbrook, B, Law, RM, Bakker, DCE, Doney, S, Gruber, N, Ishii, M, Hoppema, M, Lovenduski, N, Matear, R, Metzl, N, et, al. 2013, Sea-air CO<sub>2</sub> fluxes in the Southern Ocean between 1990 and 2009, *Biogeosciences*, vol. 10, pp. 4037-4054, doi:10.5194/bg-10-4037-2013
- Ohshima, KI, Fukamachi, Y, Williams, G, Nihashi, S, Roquet, F, Kitade, Y, Tamura, T, Hirano, D, Herraiz-Borreguero, L, Field, IC, Hindell, MA, Aoki, S, Wakatsuchi, M 2013, Antarctic bottom water production by intense sea-ice formation in the Cape Darnley polynya, *Nature Geoscience*, vol. 6, pp. 235-240, doi:10.1038/ngeo1738
- Fieschi, MR, Rintoul, S, Gourrion, J, Pelegri, J 2013, The Tasman leakage as inferred from Argo floats, *Geophysical Research Letters*, vol. 40, pp. 1-5, doi:10.1002/2013GL057797
- Sarma, VVSS, Lenton, A, Metzl, N, Law, RM, Patra, PK, Doney, S, et, al. 2013, Sea-air CO<sub>2</sub> fluxes in the Indian Ocean between 1990 and 2009, *Biogeosciences*, vol. 10, pp. 7035-7052, doi:10.5194/bg-10-7035-2013
- Shadwick, E, Tilbrook, B, Cassar, N, Trull, T, Rintoul, S 2013, Summertime physical and biological controls on O<sub>2</sub> and CO<sub>2</sub> 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
- 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
- Johnson, R, Strutton, P, Wright, SW, McMinn, A, Meiners, K 2013, Three improved satellite chlorophyll algorithms for the Southern Ocean, *Journal of Geophysical Research - Oceans*, vol. 118, no. 7, pp. 3694-3703, doi:10.1002/jgrc.20270
- 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
- Hobday, A, Young, J, Abe, O, Costa, D, Cowen, R, Evans, K, Gasalla, M, Kloser, R, Maury, O, Weng, KC 2013, Climate impacts and oceanic top predators: moving from impacts to adaptation in oceanic systems, *Reviews in Fish Biology and Fisheries*, vol. 23, no. 4, pp. 1-10, doi:10.1007/s11160-013-9311-0
- 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
- 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
- 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

Couto, AB, Holbrook, N, Maharaj, AM 2013, Unravelling eastern Pacific and central Pacific ENSO contributions in south Pacific chlorophyll-a variability through remote sensing, *Remote Sensing*, vol. 5, no. 8, pp. 4067-4087, doi:10.3390/rs5084067

Gavrilov, AS, McCauley, R 2013, Acoustic detection and long-term monitoring of pygmy blue whales over the continental slope in southwest Australia, *Journal of Acoustical Society of America*, vol. 134, no. 3, pp. 2505-2513, doi:10.1121/1.4816576

Handegard, NO, du Buisson, L, Brehmer, P, Chalmers, SJ, De Robertis, A, Huse, G, Kloser, R, Macaulay, G, Maury, O, Ressler, PH, Stenseth, NC, Godo, OR 2013, Towards an acoustic-based coupled observation and modelling system for monitoring and predicting ecosystem dynamics of the open ocean, *Fish and Fisheries*, vol. 14, no. 4, pp. 605-615, doi:10.1111/J.1467-2979.2012.00480.X

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

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

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

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

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

Shadwick, E, Tilbrook, B, Williams, G 2014, Carbonate chemistry in the Mertz Polynya (East Antarctica): biological and physical modification of dense water outflows and the export of anthropogenic CO<sub>2</sub>, *Journal of Geophysical Research - Oceans*, vol. 119, no. 1, pp. 1-14, doi:10.1002/2013JC009286

White, N, Haigh, ID, Church, JA, Koen, T, Watson, C, Pritchard, T, Watson, PJ, Burgette, R, McInnes, KL, You, Z-J, Zhang, X, Tregoning, P 2014, Australian sea levels-trends, regional variability and influencing factors, *Earth-Science Reviews*, vol. 136, pp. 155-174, doi:10.1016/j.earscirev.2014.05.011

Cleeland, J, Lea, MA, Hindell, MA 2014, Use of the Southern Ocean by breeding short-tailed shearwaters (*Puffinus tenuirostris*), *Journal of Experimental Marine Biology and Ecology*, vol. 450, pp. 109-117, doi:10.1016/j.jembe.2013.10.012

- Bestley, S, Jonsen, I, Gales, N, Harcourt, R, Hindell, MA 2014, Taking animal tracking to new depths: synthesizing horizontal-vertical movement relationships for four marine predators, *Ecology*, vol. 96, pp. 417-427, doi:10.1890/14-0469.1
- Roberts, D, Howard, WR, Moy, AD, Roberts, J, Trull, T, Bray, SG, Hopcroft, RR 2014, Diverse trends in shell weight of three Southern Ocean pteropod taxa collected with Polar Frontal Zone sediment traps from 1997 to 2007, *Polar Biology*, vol. 37, no. 10, pp. 1445-1458, doi:10.1007/s00300-014-1534-6
- 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
- Roquet, F, Williams, G, Hindell, MA, Harcourt, R, McMahon, C, Guinet, C, Charrassin, J-B, Reverdin, G, Boehme, L, Lovell, P, Fedak, M 2014, A southern Indian Ocean database of hydrographic profiles obtained with instrumented elephant seals, *Scientific Data*, vol. 1, 140028, doi:10.1038/sdata.2014.28
- Foster, SD, Griffin, DA, Dunstan, P 2014, Twenty years of high-resolution sea surface temperature imagery around Australia: inter-annual and annual variability, *PLoS One*, vol. 9, no. 7, e100762, doi:10.1371/journal.pone.0100762
- Sawstrom, C, Beckley, L, Saunders, M, Thompson, P, Waite, A 2014, The zooplankton prey field for rock lobster phyllosoma larvae in relation to oceanographic features of the south-eastern Indian Ocean, *Journal of Plankton Research*, vol. 36, no. 4, pp. 1003-1016, doi:10.1093/plankt/fbu019
- Davies, C, Armstrong, A, Baird, ME, Coman, F, Gaughan, D, Greenwood, J, Gusmao, LFM, et, al. 2014, Over 75 years of zooplankton data in Australia, *Ecology*, vol. 95, no. 11, pp. 3229-3229, doi:10.1890/14-0697.1
- McMahon, C, Harcourt, R 2014, Antarctica: seals collect more Southern Ocean data, *Nature*, vol. 513, no. 33, doi:10.1038/513033e
- 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
- Cheng, L, Zhu, J, Cowley, R, et, al. 2014, Time, probe type, and temperature variable bias corrections to historical expendable bathythermograph observations, *Journal of Atmospheric and Oceanic Technology*, vol. 31, no. 8, pp. 1793-1825, doi:10.1175/JTECH-D-13-00197.1
- 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
- Delille, B, Vancoppenolle, M, Geilfus, NX, Tilbrook, B, Lannuzel, D, Schoemann, V, Becquevort, S, Carnat, G, Delille, D, Lancelot, C, Chou, L, Dieckmann, GS, Tison, JL 2014, Southern Ocean CO<sub>2</sub> sink: the contribution of the sea ice, *Journal of Geophysical Research - Oceans*, vol. 119, pp. 6340-6355, doi:10.1002/2014JC009941
- Bakker, DCE, Pfeil, B, Smith, K, Hankin, S, Olsen, A, Alin, SR, Cosca, C, Harasawa, S, Kozyr, A, Nojiri, Y, O'Brien, K, Schuster, U, Telszewski, M, Tilbrook, B, et, al. 2014, An update to the Surface Ocean CO<sub>2</sub> Atlas (SOCAT version 2) - 2014, *Earth System Science Data*, vol. 6, no. 1, pp. 69-90, doi:10.5194/essd-6-69-2014
- 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
- Ganachaud, AS, Cravette, S, Melet, A, Schiller, A, Holbrook, N, Sloyan, B, et, al. 2014, The southwest Pacific Ocean circulation and climate experiment (SPICE), *Journal of Geophysical Research - Oceans*, vol. 119, no. 11, pp. 7660-7686, doi:10.1002/2013JC009678
- 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
- McMahon, C, Simpkins, GR, Hindell, MA, et, al. 2014, Bottom-up regulation of a pole-ward migratory predator population, *Proceedings of the Royal Society Series B*, vol. 281, 20132842
- Banks, J, Lea, MA, McMahon, C, Hindell, MA 2014, Combining bio-logging and fatty acid signature analysis indicates spatio-temporal variation in the diet of the southern elephant seal, *Mirounga leonina*, *Journal of Experimental Marine Biology and Ecology*, vol. 450, pp. 79-90
- 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
- Lehodey, P, Conchon, A, Senina, I, Domokos, R, et, al. 2014, Optimization of a micronekton model with acoustic data, *ICES Journal of Marine Science*, vol. 75, no. 2, pp. 1-14, doi:10.1093/icesjms/fsu233
- 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
- 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
- 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
- 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

- 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
- 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
- Le Quere, C, et, al. 2015, Global carbon budget 2014, *Earth System Science Data*, vol. 7, pp. 47-85, doi:10.5194/essd-7-47-2015
- 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
- Watson, C, White, N, Church, JA, King, M, Burgette, R, Legresy, B 2015, Unabated global mean sea-level rise over the satellite altimeter era, *Nature Climate Change*, vol. 5, pp. 565-568, doi:10.1038/NCLIMATE2635
- 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
- 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
- Heerah, K, Hindell, MA, Guinet, C, Charrassin, J-B 2015, From high-resolution to low-resolution dive datasets: a new index to quantify the foraging effort of marine predators, *Animal Biotelemetry*, vol. 3, no. 42, doi:10.1186/s40317-015-0074-3
- 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
- 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
- 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
- Cassar, N, Wright, SW, Thompson, P, Trull, T, Westwood, KJ, De Salas, M, Davidson, A, Pearce, I, Davies, DM, Matear, R, Tilbrook, B 2015, The relation of mixed-layer carbon export production to plankton community, *Global Biogeochemical Cycles*, vol. 29, no. 4, pp. 446-462, doi:10.1002/2014GB004936
- 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
- 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
- Labrousse, S, Vacquie-Garcia, J, Heerah, K, et. al. 2015, Winter use of sea ice and ocean water mass habitat by southern elephant seals: the length and breadth of the mystery, *Progress in Oceanography*, vol. 137, no. Part A, pp. 52-68, doi:10.1016/j.pocean.2015.05.023
- Nechad, B, Ruddick, K, Schroeder, T, et. al. 2015, The CoastColour Round Robin datasets: a database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters, *Earth System Science Data*, vol. 8, pp. 173-258, doi:105194/essdd-8-173-2015
- Rapizo, H, Babanin, A, Schulz, E, Hemer, MA, Durrant, TH 2015, Observation of wind-waves from a floating buoy in the Southern Ocean, *Ocean Dynamics*, vol. 75, no. 9, pp. 1275-1288, doi:10.1007/s10236-015-0873-3
- Closet, 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
- 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

Boersch-Supan, PH, Rogers, AD, Brierly, A 2015, The distribution of pelagic sound scattering layers across the southwest Indian Ocean, *Deep Sea Research Part II*, vol. 136, pp. 108-121, doi:10.1016/j.dsr2.2015.06.023

Xue, L, Gao, L, Yu, W, Cai, W, Wei, M 2015, Response of sea surface fugacity of CO<sub>2</sub> to the SAM shift south of Tasmania: regional differences, *Geophysical Research Letters*, vol. 42, pp. 3973-3979, doi:10.1002/2015GL063926

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:10.1002/2015JC011351

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

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

Muller, MN, Trull, T, Hallegraef, GM 2015, Differing responses of three Southern Ocean *Emiliania huxleyi* ecotypes to changing seawater carbonate chemistry, *Marine Ecology Progress Series*, vol. 531, pp. 81-90, doi:10.3354/meps11309

Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L 2015, Latitudinal and temporal distributions of diatom populations in the pelagic waters of the subantarctic and polar frontal zones of the Southern Ocean and their role in the biological pump, *Biogeosciences*, vol. 12, pp. 5309-5337, doi:10.5194/bgd-12-8615-2015

Lenton, A, Tilbrook, B, Matear, R, Sasse, T, Nojiri, Y 2015, Historical reconstruction of ocean acidification in the Australian region, *Biogeosciences*, vol. 13, pp. 1753-1765, doi:10.5194/bg-13-1753-2016

Shadwick, E, Trull, T, Tilbrook, B, Sutton, A, Schulz, E, Sabine, CL 2015, Seasonality of biological and physical controls on surface ocean CO<sub>2</sub> from hourly observations at the Southern Ocean Time Series site south of Australia, *Global Biogeochemical Cycles*, vol. 29, no. 2, pp. 223-238, doi:10.1002/2014GB004906

Raymond, B, Lea, MA, Patterson, T, Andrews-Goff, V, Sharples, R, Charrassin, J-B, Cottin, M, Emmerson, L, Gales, N, Gales, R, Goldsworthy, S, Harcourt, R, Kato, A, Kirkwood, R, Lawton, K, Ropert-Coudert, Y, Southwell, C, Van Den Hoff, J, Wienecke, B, Woehler, EJ, Wotherspoon, S, Hindell, MA 2015, Important marine habitat off east Antarctica revealed by two decades of multi-species predator tracking, *Ecography*, vol. 38, no. 2, pp. 121-129, doi:10.1111/ecog.01021

Proud, R, Cox, MJ, Wotherspoon, S, Brierly, A 2015, A method for identifying Sound Scattering Layers and extracting key characteristics. *Methods in Ecology and Evolution*, *Methods in Ecology and Evolution*, vol. 6, no. 10, pp. 1190-1198, doi:10.1111/2041-210X.12396

Rigual-Hernandez, A, Trull, T, Bray, SG, Closset, I, Armand, L 2015, Seasonal dynamics in diatom and particulate export fluxes to the deep sea in the Australian sector of the southern Antarctic zone, *Journal of Marine Systems*, vol. 142, pp. 62-74, doi:10.1016/j.marsys.2014.10.002

Fay, A, McKinley, G, Lovenduski, N 2015, Southern Ocean carbon trends: sensitivity to methods, *Geophysical Research Letters*, vol. 41, pp. 6833-6840, doi:10.1002/2014GL061324

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

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

Tamura, T, Ohshima, KI, Fraser, AD, Williams, G 2016, Sea ice production variability in Antarctic coastal polynyas, *Journal of Geophysical Research - Oceans*, vol. 121, no. 5, pp. 2967-2979, doi:10.1002/2015JC011537

Roden, N, Tilbrook, B, Trull, T, Virtue, P, Williams, G 2016, Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica., *Journal of Geophysical Research - Oceans*, vol. 121, no. 12, pp. 8749-8769, doi:10.1002/2016JC012008

Le Quere, C, Andrew, RM, Canadell, JG, et. al. 2016, Global Carbon Budget 2016, *Earth System Science Data*, vol. 8, no. 2, pp. 605-649, doi:https://doi.org/10.5194/essd-8-605-2016

Tu, Q 2016, SST Diurnal Warming in the China Seas and Northwestern Pacific Ocean using MTSAT satellite observations, *Acta Oceanologica Sinica*, *Acta Oceanologica Sinica*, vol. 35, no. 12, pp. 12-18, doi:10.1007/s13131-016-0968-9

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

Hindell, MA, McMahon, C, Bester, M, et, al. 2016, Circumpolar habitat use in the southern elephant seal: implications for foraging success and population trajectories, *Ecosphere*, vol. 7, no. 5, e01213, doi:10.1002/ecs2.1213

Bibiloni-Isaksson, J, Seymour, JR, Ingleton, T, Van De Kamp, J, Bodrossy, L, Brown, MV 2016, Spatial and temporal variability of aerobic anoxygenic photoheterotrophic bacteria along the east coast of Australia, *Environmental Microbiology*, vol. 18, pp. 4485-4500, doi:10.1111/1462-2920.13436

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

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

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

Cheng, L, Abraham, JP, Goni, GJ, Boyer, T, Wijffels, S, Cowley, R, Gouretski, V, et, al. 2016, XBT science: assessment of instrumental biases and errors, *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-D-15-00031.1

Sloyan, B, Ridgway, K, Cowley, R 2016, The East Australian Current and property transport at 27oS from 2012-2013, *Journal of Physical Oceanography*, vol. 46, no. 3, pp. 993-1008, doi:10.1175/JPO-D-15-0052.1

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

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

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

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

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

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

Rigual-Hernandez, A, Trull, T, McCartney, K, Ballegeer, A, Lawler, K, Bray, SG, Armand, L 2016, Indices based on silicoflagellate assemblages offer potential for paleo-reconstructions of the main oceanographic zones of the Southern Ocean, *Geo-Marine Letters (International Journal of Marine Geology)*, pp. 1-10, doi:10.1007/s00367-016-0444-8

Jordan, RW, Abe, K, Cruz, J, Eriksen, R, Guerreiro, C, Hagino, K, Heldal, M, Hernandez-Becerril, DU, Malinverno, E, Nishida, S, Patil, SM, Supraha, L, Thomsen, HA, Triantaphyllou, MV, Young, JR 2016, Observations on the morphological diversity and distribution of two siliceous nannoplankton genera, *Hyalolithus* and *Petasaria*, *Micropaleontology*, vol. 61, no. 6, pp. 439-455

Bakker, DCE, Pfeil, B, et, al. 2016, A multi-decade record of high-quality fCO<sub>2</sub> data in version 3 of the Surface Ocean CO<sub>2</sub> Atlas (SOCAT), *Earth System Science Data*, vol. 8, pp. 383-413, doi:10.5194/essd-8-383-2016

Cherukuru, N, Davies, P, Brando, V, Anstee, J, Baird, ME, Clementson, L, Doblin, MA 2016, Physical oceanographic processes influence bio-optical properties in the Tasman Sea, *Journal of Sea research*, vol. 110, pp. 1-7, doi:10.1016/j.seares.2016.01.008

Hobday, A, Alexander, LV, Perkins, SE, Smale, DA, et, al. 2016, A hierarchical approach to defining marine heatwaves, *Progress in Oceanography*, vol. 141, pp. 227-238, doi:10.1016/j.pocean.2015.12.014

Freeman, E, Woodruff, SD, Worley, SJ, et, al. 2016, ICOADS Release 3.0: a major update to the historical marine climate record, *International Journal of Climatology*, vol. 37, pp. 2211-2237, doi:10.1002/joc.4775

Smith, S, Lopez, N, Bourassa, M 2016, SAMOS air-sea fluxes: 2005-2014, *Geoscience Data Journal*, vol. 3, no. 1, 19, doi:10.1002/gdj3.34

Condie, SA, Condie, R 2016, Retention of plankton within ocean eddies, *Global Ecology and Biogeography*, doi:10.1111/geb.12485

Jonsen, I 2016, Joint estimation over multiple individuals improves behavioural state inference from animal movement data, *Scientific Reports*, vol. 6, doi:10.1038/srep20625

Mongin, M, Baird, ME, Tilbrook, B, Matear, R, Lenton, A, Herzfeld, M, Wild-Allen, K, Skerratt, J, Margvelashvili, N, Robson, B, Duarte, CM, Gustafsson, M, Ralph, P, Steven, A 2016, The exposure of the Great Barrier Reef to ocean acidification, *Nature Communications*, vol. 7, doi:10.1038/ncomms10732

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

Raes, E, Bodrossy, L, Van De Kamp, J, Hardman-Mountford, NJ, et, al. 2016, Reduction of the powerful greenhouse gas N<sub>2</sub>O in the south-eastern Indian Ocean, *PLoS One*, vol. 11, no. 1, e0145996, doi:10.1371/journal.pone.0145996

Klocker, A, Marshall, DP, Keating, S 2016, A regime diagram for ocean geostrophic turbulence, *Quarterly Journal of the Royal Meteorological Society*, doi:10.1002/qj.2833

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

Williams, G, Herraiz-Borreguero, L, Roquet, F, Tamura, T, et, al. 2016, The suppression of Antarctic bottom water formation by melting ice shelves in Prydz Bay, *Nature Communications*, vol. 7, 12577, doi:10.1038/ncomms12577

Bestley, S, Jonsen, I, Harcourt, R, Hindell, MA, Gales, N 2016, Putting the behaviour into animal movement modelling: improved activity budgets from use of ancillary tag information, *Ecology and Evolution*, vol. 6, no. 22, pp. 8243-8255, doi:10.1002/ece3.2530

Lima, M, Cirano, M, Mata, M, Goes, M, Goni, GJ, Baringer, M 2016, An assessment of the Brazil Current baroclinic structure and variability near 22° S in distinct ocean forecasting and analysis systems, *Ocean Dynamics*, vol. 66, no. 6, pp. 893-916, doi:10.1007/s10236-016-0959-6

Ciuffardi, T, Napolitano, E, Iacono, R, Reseghetti, F, Raiteri, G, Bordone, A 2016, Analysis of surface circulation structures along a frequently repeated XBT transect crossing the Ligurian and Tyrrhenian Seas, *Ocean Dynamics*, vol. 66, no. 6, pp. 767-783, doi: 10.1007/s10236-016-0954-y

Williams, S, Pizarro, O, Naganobu, M, Friedman, A, Bryson, M 2016, Reflections on a decade of autonomous underwater vehicles operations for marine survey at the Australian Centre for Field Robotics, *Annual Reviews in Control*, vol. 42, pp. 158-165, doi:10.1016/j.arcontrol.2016.09.010

McCauley, R, Cato, D 2016, Evening choruses in the Perth Canyon and their potential link with Myctophidae fishes, *Journal of Acoustical Society of America*, vol. 140, no. 4, pp. 2384-2398, doi:10.1121/1.4964108

Oliver, ECJ, Herzfeld, M, Holbrook, N 2016, Modelling the shelf circulation off eastern Tasmania, *Continental Shelf Research*, vol. 130, pp. 14-33, doi:10.1016/j.csr.2016.10.005

Bass, N, Mourier, J, Knott, N, Guttridge, T, Brown, C 2016, Long-term migration patterns and bisexual philopatry in a benthic shark species, *Marine and Freshwater Research*, doi:10.1071/MF16122



- Ferguson, A, Harvey, ES, Knott, N 2016, Herbivore abundance, site fidelity and grazing rates on temperate reefs inside and outside marine reserves, *Journal of Experimental Marine Biology and Ecology*, vol. 478, pp. 96-105, doi:10.1016/j.jembe.2016.02.008
- Apostle, R, Gazit, T, Haward, M 2016, Ocean tracking and marine species protection in Australia and Canada: science, technology, and knowledge brokering, *Ocean Development and International Law*, vol. 47, no. 4, pp. 368-377, doi:10.1080/00908320.2016.1229944
- Whoriskey, F, Hindell, MA 2016, Developments in tagging technology and their contributions to the protection of marine species at risk, *Ocean Development and International Law*, vol. 47, no. 3, pp. 221-232, doi:10.1080/00908320.2016.1194090
- Taylor, M, Laffan, SW, Fairfax, AV, Payne, N 2016, Finding their way in the world: using acoustic telemetry to evaluate relative movement patterns of hatchery-reared fish in the period following release, *Fisheries Research*, vol. 186, pp. 538-543, doi:10.1016/j.fishres.2016.07.003
- Steckenreuter, A, Hoenner, X, Huveneers, C, Simpfendorfer, C, Buscot, MJ, Tattersall, K, Babcock, R, Heupel, M, Meekan, MG, McDowall, P, Peddemors, V, Harcourt, R 2016, Optimising the design of large scale acoustic telemetry curtains, *Marine and Freshwater Research*, doi:10.1071/MF16126
- Zhang, H, Beggs, H, Wang, XH, Kiss, A, Griffin, C 2016, Seasonal patterns of SST diurnal variation over the Tropical Warm Pool region, *Journal of Geophysical Research - Oceans*, vol. 121, doi:10.1002/2016JC012210
- Cheng, L, Trenberth, KE, Palmer, MD, Abraham, JP 2016, Observed and simulated full-depth ocean heat-content changes for 1970-2005, *Ocean Science*, vol. 12, no. 4, pp. 925-935, doi:10.5194/os-12-925-2016
- Roach, C, Speer, K 2016, Horizontal mixing in the Southern Ocean from Argo float trajectories, *Journal of Geophysical Research - Oceans*, vol. 121, no. 8, pp. 5570-5586, doi:10.1002/2015JC011440
- Matley, J, Heupel, M, Fisk, AT, Simpfendorfer, C, Tobin, A 2016, Measuring niche overlap between co-occurring *Plectropomus* spp. using acoustic telemetry and stable isotopes, *Marine and Freshwater Research*, doi:10.1071/MF16120
- Heerah, K, Hindell, MA, Andrews-Goff, V, Field, IC, McMahon, C, Charrassin, J-B 2016, Contrasting behavior between two populations of an ice-obligate predator in East Antarctica, *Ecology and Evolution*, vol. 7, no. 2, pp. 606-618, doi:10.1002/ece3.2652
- Pascoe, P, Lea, MA, Mattlin, R, et. al. 2016, Assessing the utility of two-and three-dimensional behavioural metrics in habitat usage models, *Marine Ecology Progress Series*, vol. 562, pp. 181-192, doi:10.3354/meps11947
- 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
- Behagle, N, Cotte, C, Ryan, T, Gauthier, O, et. al. 2016, Acoustic micronektonic distribution is structured by macroscale oceanographic processes across 20–50° S latitudes in the South-Western Indian Ocean, *Deep Sea Research Part I*, vol. 110, pp. 20-32, doi:10.1016/j.dsr.2015.12.007
- Rogers, AD 2016, Pelagic ecology of the South West Indian Ocean Ridge seamounts: Introduction and overview, *Deep Sea Research Part I*, vol. 136, pp. 1-4, doi:10.1016/j.dsr2.2016.12.009
- Kloser, R, Ryan, T, Keith, G, Gershwin, L 2016, Deep-scattering layer, gas-bladder density, and size estimates using a two-frequency acoustic and optical probe, *ICES Journal of Marine Science*, doi:10.1016/j.jmarsci.2016.11.007
- Davies, C, Coughlan, A, Ajani, P, Armbrrecht, L, Atkins, N, Bonham, P, Brett, S, Brinkman, R, et. al. 2016, A database of marine phytoplankton abundance, biomass and species composition in Australian waters, *Scientific Data*, vol. 3, doi:10.1038/sdata.2016.43
- Melvin, GD, Ryan, T, Keith, G, Gershwin, L 2016, The adaption of acoustic data from commercial fishing vessels in resource assessment and ecosystem monitoring, *Fisheries Research*, vol. 178, pp. 13-25, doi:10.1016/j.fishres.2015.09.010
- Teniswood, CMH, Roberts, D, Howard, WR, Bray, SG, Bradby, JE 2016, Microstructural shell strength of the Subantarctic pteropod *Limacina helicina antarctica*, *Polar Biology*, vol. 39, no. 9, pp. 1643-1652, doi:10.1007/s00300-016-1888-z

- Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L 2016, The fate of diatom valves in the Subantarctic and Polar Frontal Zones of the Southern Ocean: Sediment trap versus surface sediment assemblages, *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 457, pp. 129-143, doi:10.1016/j.palaeo.2016.06.004
- Yang, C, Masina, S, Storto, A 2016, Historical ocean reanalyses (1900–2010) using different data assimilation strategies, *Quarterly Journal of the Royal Meteorological Society*, vol. 143, no. 702, pp. 479-493, doi:10.1002/qj.2936
- Dongliang, Y 2016, Climate variability and predictability associated with the Indo-Pacific Oceanic Channel Dynamics in the CCSM4 Coupled System Model, *Chinese Journal of Oceanology and Limnology*, vol. 35, no. 1, pp. 23-38, doi:10.1007/s00343-016-5178-y
- Zhang, H, Beggs, H, Majewski, L, Wang, XH, Kiss, A 2016, Investigating sea surface temperature diurnal variation over the Tropical Warm Pool using MTSAT-1R data, *Remote Sensing of Environment*, vol. 183, pp. 1-12, doi:10.1016/j.rse.2016.05.002
- Labrousse, S, Sallee, J-B, Fraser, AD, Massom, R, et, al. 2017, Variability in sea ice cover and climate elicit sex specific responses in an Antarctic predator, *Scientific Reports*, vol. 7, 43236, doi:10.1038/srep43236
- Clausius, E, McMahon, C, Harcourt, R, Hindell, MA 2017, The effect of climate variability on weaning mass in a declining population of southern elephant seals *Mirounga leonina*, *Marine Ecology Progress Series*, doi:10.3354/meps12085
- Wang, Y, et, al. 2017, Optimising assimilation of hydrographic profiles into isopycnal ocean models with ensemble data assimilation, *Ocean Modelling*, vol. 114, pp. 33-44, doi:https://doi.org/10.1016/j.ocemod.2017.04.007
- Muller, MN, Trull, T, Hallegraef, GM 2017, Independence of nutrient limitation and carbon dioxide impacts on the Southern Ocean coccolithophore *Emiliania huxleyi*, *ISME Journal*, doi:10.1038/ismej.2017.53
- Wang, G, Cheng, L, Abraham, JP, et, al. 2017, Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses, *Climate Dynamics*, pp. 1-17, doi:10.1007/s00382-017-3751-5
- Lee, K, Huveneers, C, Duong, T, Harcourt, R 2017, The ocean has depth: two- versus three-dimensional space use estimators in a demersal reef fish, *Marine Ecology Progress Series*, doi:10.3354/meps12097
- Zhang, L, et, al. 2017, Estimating decadal predictability for the Southern Ocean using the GFDL CM2.1 model, *Journal of Climate*, doi:10.1175/JCLI-D-16-0840.1
- Storto, A, Masina, S 2017, Objectively estimating the temporal evolution of accuracy and skill in a global ocean reanalysis, *Meteorological Applications*, vol. 24, no. 1, pp. 101-113, doi:10.1002/met.1609
- Palmer, MD 2017, Reconciling Estimates of Ocean Heating and Earth's Radiation Budget, *Current Climate Change Reports*, vol. 3, no. 1, pp. 78-86, doi:10.1007/s40641-016-0053-7
- Cheng, L, et, al. 2017, Improved estimates of ocean heat content from 1960 to 2015, *Science Advances*, vol. 3, no. 3, e1601545, doi:10.1126/sciadv.1601545
- Chu, P 2017, Exponential leap-forward gradient scheme for determining the isothermal layer depth from profile data, *Journal of Oceanography*, pp. 1-24, doi:10.1007/s10872-017-0418-0
- Bowen, M, et, al. 2017, Interannual variability of sea surface temperatures in the Southwest Pacific and the role of ocean dynamics, *Journal of Climate*, doi:https://doi.org/10.1175/JCLI-D-16-0852.1
- Volkov, DL, et, al. 2017, Decade-long deep-ocean warming detected in the subtropical South Pacific, *Geophysical Research Letters*, vol. 44, no. 2, pp. 927-936, doi:10.1002/2016GL071661
- Liu, Z 2017, China Argo project: progress in China Argo ocean observations and data applications, *Acta Oceanologica Sinica*, vol. 36, no. 6, pp. 1-11, doi:10.1007/s13131-017-1035-x
- Everett, JD, Baird, ME, Buchanan, PJ, et, al. 2017, Modelling what we sample and sampling what we model: challenges for zooplankton model assessment, *Frontiers in Marine Science*, vol. 4, no. 77, doi:10.3389/fmars.2017.00077
- Xue, Y, et, al. 2017, A real-time ocean reanalyses intercomparison project in the context of tropical pacific observing system and ENSO monitoring, *Climate Dynamics*, 10.1007/s00382-017-3535-y, doi:10.1007/s00382-017-3535-y

- Meinen, CS, et, al. 2017, Characteristics and causes of Deep Western Boundary Current transport variability at 34.5°S during 2009–2014, *Ocean Science*, vol. 13, no. 1, pp. 175-194, doi:10.5194/os-13-175-2017
- Lopez, H, et, al. 2017, A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870, *Geophysical Research Letters*, vol. 44, no. 7, pp. 3309-3318, doi:10.1002/2017GL073227
- Chen, X, et, al. 2017, Examination of Interannual Variability of Sea Surface Temperature in the Indian Ocean Using the Physical Decomposition Method, *Satellite Oceanography and Meteorology*, vol. 2, no. 1, doi:10.18063/SOM.2016.02.005
- Benallal, MA, Moussa, H, Lencina-Avila, JM, et, al. 2017, Satellite-derived CO2 flux in the surface seawater of the Austral Ocean south of Australia, *International Journal of Remote Sensing*, vol. 36, no. 6, pp. 1600-1625, doi:10.1080/01431161.2017.1286054
- Lee, S, et, al. 2017, Wind-driven ocean dynamics impact on the contrasting sea-ice trends around West Antarctica, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012416
- Wilks, JV, Rigual-Hernandez, A, Trull, T, Bray, SG, Armand, L, Flores, J-A 2017, Biogeochemical flux and phytoplankton succession: A year-long sediment trap record in the Australian sector of the Subantarctic Zone, *Deep Sea Research Part I*, vol. 121, pp. 143-159, doi:10.1016/j.dsr.2017.01.001
- McMahon, C, Harcourt, R, Burton, HR, Hindell, MA 2017, Seal mothers expend more on offspring under favourable conditions and less when resources are limited, *Journal of Animal Ecology*, vol. 86, no. 2, 370, doi:10.1111/1365-2656.12611
- Sakov, P, Sandery, PA 2017, Andrew Edwards <andrew@edwardsproperty.com.au>, *Tellus A: Dynamic Meteorology and Oceanography*, vol. 69, no. 1, doi:http://dx.doi.org/10.1080/16000870.2017.1318031
- Chen, X, Zhang, X, Church, JA, Watson, C, et, al. 2017, The increasing rate of global mean sea-level rise during 1993-2014, *Nature Climate Change*, vol. 7, pp. 492-495, doi:10.1038/nclimate3325
- Michelot, T, et, al. 2017, Estimation and simulation of foraging trips in land-based marine predators, *Ecology*, vol. 98, no. 7, pp. 1932-1944, doi:10.1002/ecy.1880
- Protat, A, Schulz, E, et, al. 2017, Shipborne observations of the radiative effect of Southern Ocean Clouds, *Journal of Geophysical Research - Oceans*, vol. 122, no. 1, pp. 318-328, doi:10.1002/2016JD026061
- Trull, T, Passmore, A, Davies, DM, et, al. 2017, Distribution of planktonic biogenic carbonate organisms in the Southern Ocean south of Australia: a baseline for ocean acidification impact assessment, *Biogeosciences*, doi:https://doi.org/10.5194/bg-2017-219
- Pardo, PC, Tilbrook, B, Langlais, C, Trull, T, Rintoul, S 2017, Carbon uptake and biogeochemical change in the Southern Ocean, South of Australia, *Biogeosciences*, doi: https://doi.org/10.5194/bg-2017-213
- Hu, S 2017, Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification, *Geophysical Research Letters*, vol. 44, no. 3, pp. 1448-1456, doi:10.1002/2016GL072494
- 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
- Li, A, et, al. 2017, Long-term variation in the salinity of the Southern Yellow Sea Cold Water Mass, 1976–2006, *Journal of Oceanography*, vol. 73, no. 3, pp. 321-331, doi:10.1007/s10872-016-0405-x
- Yu, L, Schulz, E, Josey, SA 2017, Air-Sea Interaction Regimes in the sub-Antarctic Southern Ocean and Antarctic Marginal Ice Zone Revealed by Icebreaker Measurements, *Journal of Geophysical Research - Oceans*, doi:10.1002/2016JC012281
- Kaplan, MB, Jewett, L, Tilbrook, B 2017, International collaboration is vital for understanding and adapting to Ocean Acidification, *Georgetown Journal of International Affairs*
- Hobday, A, Cvitanovic, C 2017, Preparing Australian fisheries for the critical decade: insights from the past 25 years, *Marine and Freshwater Research*, doi:10.1071/MF16393

Labrousse, S, Sallee, J-B, Fraser, AD, Massom, R, Reid, P, Sumner, MD, Guinet, C, McMahon, C, Bailleul, F, Hindell, MA, Charrassin, J-B 2017, Under the sea ice: Exploring the relationship between sea ice and the foraging behaviour of southern elephant seals in East Antarctica, *Progress in Oceanography*, vol. 156, pp. 17-40, doi:10.1016/j.pocean.2017.05.014

Proud, R, Cox, MJ, Brierly, A 2017, Biogeography of the global ocean's mesopelagic zone, *Current Biology*, vol. 27, no. 1, pp. 113-119, doi:10.1016/j.cub.2016.11.003

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

Roberts, CD, et. al. 2017, Surface flux and ocean heat transport convergence contributions to seasonal and interannual variations of ocean heat content, *Journal of Geophysical Research - Oceans*, vol. 122, no. 1, pp. 726-744, doi:10.1002/2016JC012278

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

Meekan, MG, Duarte, CM, Fernandez-Gracia, J, Thums, M, Sequeira, A, Harcourt, R 2017, The Ecology of Human Mobility, *Trends in Ecology and Evolution*, vol. 32, no. 3, pp. 198-210, doi:10.1016/j.tree.2016.12.006

Rodriguez, J, Fernandez-Gracia, J, Thums, M, Hindell, MA, et. al. 2017, Big data analyses reveal patterns and drivers of the movements of southern elephant seals, *Scientific Reports*, vol. 7, 112, doi:10.1038/s41598-017-00165-0

**Journals 385**

## Thesis

Moy, AD 2005, Late pleistocene palaeoceanographic and geochemical evolution of the South Tasman Rise, Doctor of Philosophy (PhD), University of Tasmania, Hobart

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

Hill, K 2009, Wind forced changes and variability in the East Australia Current, 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

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

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

Doran, J 2012, Faecal pellet dynamics and carbon fluxes from gel-based sediment traps in the Southern Ocean, Honours degree, University of Western Australia, Perth

Cheah, W 2012, Photosynthetic performance and productivity of phytoplankton in the Southern Ocean, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Coxson, C 2013, The role of biogenic silica in carbon cycling processes in the sub-Antarctic zone south of Australia, Honours degree, University of Tasmania, Hobart

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

Karsh, K 2013, Isotopic fractionation accompanying algal nitrate assimilation, Doctor of Philosophy (PhD), Princeton University, Princeton

Coughlan, A 2013, Effects of climate change on phytoplankton phenology, distribution and community composition off Australia's East Coast, Honours degree, University of Queensland, Brisbane

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

Zhu, X 2015, Coastal shallow water diurnal warming, Doctor of Philosophy (PhD), University of Miami, Miami

Laurenceau-Cornec, E 2015, Ecosystem controls on carbon export efficiency from the naturally iron-fertilised phytoplankton bloom over the Kerguelen Plateau, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Roden, N 2016, Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica, 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

Labrousse, S 2016, Foraging ecology of male and female elephant seals in the sea-ice zone: role of the physiography, hydrological factors, and sea-ice condition, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Johnson, R 2016, Remote sensing of phytoplankton in the Southern Ocean, Doctor of Philosophy (PhD), University of Tasmania, Hobart

Malpress, V 2017, Bio-physical characterisation of east Antarctic polynyas as key southern elephant seal (*Mirounga leonina*) foraging habitat, Honours degree, University of Tasmania, Hobart

**Thesis 22**

## Data Product

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/>

Global Ocean Surface Underway Data, (1939 - 2029) Database. <http://www.gosud.org/>

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

Coastal and Oceanic Plankton Ecology, Production and Observation Database (COPEPOD), (1949 - 2029) Database.  
<http://www.st.nmfs.noaa.gov/copepod/>

Global Ocean Surface pCO<sub>2</sub> Data base (LDEO), (1956 - 2010) Database.  
[http://cdiac.ornl.gov/oceans/LDEO\\_Underway\\_Database/index.htm](http://cdiac.ornl.gov/oceans/LDEO_Underway_Database/index.htm)

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/>

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

XBT and CTD pairs dataset Version 1, (1966 - 2010) Database. <http://doi.org/10.4225/08/52AE99A4663B1>

Surface Ocean CO<sub>2</sub> Atlas (SOCAT) 2015, (1967 - 2014) Database. [www.socat.info](http://www.socat.info)

Surface Ocean CO<sub>2</sub> Atlas (SOCAT), (1967 - 2010) Database. [www.socat.info](http://www.socat.info)

Surface Ocean CO<sub>2</sub> Atlas (SOCAT) 2017, (1967 - 2016) Database. [www.socat.info](http://www.socat.info)

Surface Ocean CO<sub>2</sub> Atlas (SOCAT) 2016, (1967 - 2015) Database. [www.socat.info](http://www.socat.info)

NOCS Flux Dataset, (1972 - 2012) In Situ Gridded. [http://www.noc.soton.ac.uk/noc\\_flux/noc2.php](http://www.noc.soton.ac.uk/noc_flux/noc2.php)

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](http://poama.bom.gov.au/about_poama2.shtml)

Carbon Dioxide Information Analysis Centre (CDIAC), (1981 - 2029) Database. <http://cdiac.ornl.gov/>

Extended Reconstructed SST (ERSST) - Formally Reynolds SST, (1983 - 2029) In Situ Gridded. <http://www.ncdc.noaa.gov/oa/climate/research/sst/ersstv3.php>

XBT and CTD pairs dataset Version 2, (1983 - 2012) Database. <http://doi.org/10.4225/08/543F60A3F1690>

SCAR - CPR database, (1989 - 2009) Database. <https://data.aad.gov.au/aadc/cpr/index.cfm>

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](http://oceanwatch.noaa.gov/ow_index.html)

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>

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

World Ocean Database, (1993 - 2029) Database. [http://www.nodc.noaa.gov/OC5/WOD09/pr\\_wod09.html](http://www.nodc.noaa.gov/OC5/WOD09/pr_wod09.html)

NASA SeaBASS (Sea-viewing Wide Field-of-view Sensor Bio-optical Archive, (1996 - 2029) Satellite Products. <http://seabass.gsfc.nasa.gov/>

Global Telecommunication System (GTS), (1997 - 2029) Database. [http://www.wmo.int/pages/prog/www/TEM/GTS/index\\_en.html](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](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](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](http://www.jamstec.go.jp/ARGO/argo_web/MapQ/Mapdataset_e.html)

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

MERMAID (MERis MATchup In-situ Database), (2002 - 2013) Satellite Products. <http://earth.esa.int/cgi-bin/confm8.pl?abstract=181>

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](http://sio-argo.ucsd.edu/RG_Climatology.html)

Marine Mammals Exploring the Oceans Pole to Pole (MEOP), (2003 - 2035) Database. <http://www.meop.net>

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

Global Ocean Data Assimilation Experiment (GODAE), (2003 - 2007) Forecasting. [www.godae.org](http://www.godae.org)

Shipboard Automated Meteorological and Ocean System (SAMOS), (2004 - 2029) Database. <http://samos.coaps.fsu.edu/html/>

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>

Global Australian Multi-Sensor SST Analysis (GAMSSA), (2007 - 2029) In Situ Gridded. [http://podaac.jpl.nasa.gov/dataset/ABOM-L4LRfnd-GLOB-GAMSSA\\_28km](http://podaac.jpl.nasa.gov/dataset/ABOM-L4LRfnd-GLOB-GAMSSA_28km)

Regional Australian Multi-Sensor SST Analysis System (RAMSSA), (2007 - 2029) In Situ Gridded. [http://podaac.jpl.nasa.gov/dataset/ABOM-L4HRfnd-AUS-RAMSSA\\_09km](http://podaac.jpl.nasa.gov/dataset/ABOM-L4HRfnd-AUS-RAMSSA_09km)

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

"Griffin" SSH, (2010 - 2029) Satellite Products. <http://oceancurrent.imos.org.au/>

sailwx.info, (2013 - 2029) Near Real Time Information. <http://www.sailwx.info/shiptrack/index.html>

Sentinel-3 SLSTR SST Matchup Dataset v4.1, (2015 - 2016) Database. <http://www.ifremer.fr/cerweb/sentinel-3/mdb-slstr>

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## Public Seminars

Tilbrook, B; Ocean acidification in Australian regional seas and the Southern Ocean; 10th GHRSSST Science Team Meeting, 01/06/2009 - 01/06/2009, Santa Rosa, Presenter(s): Bronte Tilbrook

Hindell, MA; Foraging habitat of predators and areas of ecological significance in the Southern Ocean; IMAS Seminar Series, 23/06/2009 - 23/06/2009, University of Tasmania, Hobart, Presenter(s): Mark Hindell

Field, IC, Harcourt, R, Hindell, MA; Seals as indicators of biological changes in response to oceanographic variability in the Southern Ocean; SIMS Presentation, 15/09/2010 - 15/09/2010, Sydney Institute for Marine Science, Sydney, Presenter(s): Iain Field

Paltoglou, G, Majewski, L, Beggs, H; New Australian SST Products from the Australian Bureau Of Meteorology and the Integrated Marine Observing System; North American Space Agency Jet Propulsion Laboratory Seminar, 04/03/2011 - 04/03/2011, North American Space Agency Jet Propulsion Laboratory, Los Angeles, Presenter(s): George Paltoglou

Sloyan, B, Ridgway, K; East Australian Current Mooring Array: Initial analysis of the 2012 mooring deployment underway and CTD data; CMAR Science Symposium - Science, Impacts, Possibilities, 20/03/2012 - 22/03/2012, Hobart, Presenter(s): Bernadette Sloyan

Watson, C; Geodesy at UTAS and the IMOS Satellite Altimetry Sub-Facility; Seminar of the 40th Anniversary of Spatial Science at UTAS, 04/05/2012 - 04/05/2012, University of Tasmania, Hobart, Presenter(s): Chris Watson

Schroeder, T; Remote sensing of coastal waters around Australia: Challenges for ocean colour algorithms; Seminar Presentation, 09/06/2012 - 09/06/2012, University Littoral-Cote d'Opale, Wimereux, Presenter(s): Thomas Schroeder

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

Trull, T, Weeding, B, Laurenceau-Cornec, E; Growing expertise in risky marine science; Unimutual Biannual Conference, 25/08/2013 - 25/08/2013, University of Tasmania, Hobart, Presenter(s): Tom Trull

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

Sloyan, B, Ridgway, K, Cowley, R; Sustained monitoring of the mass and heat transport of the EAC; CSIRO Seminar Series, 20/03/2014 - 20/03/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Bernadette Sloyan

Cowley, R, Sloyan, B, Wijffels, S, Ridgway, K; Data analysis techniques of mooring instruments; CSIRO Seminar Series, 15/05/2014 - 15/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Rebecca Cowley

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

Watson, C, White, N, Church, JA, King, M, Burgette, R, Legresy, B; Refining satellite era estimates of global mean sea level rise; Research School of Earth Science (RSES) Seminar, 12/02/2015 - 12/02/2015, Canberra, Presenter(s): Chris Watson

Trull, T; Towards autonomous ocean observing: the IMOS Southern Ocean Time Series program; Japan Marine Science and Technology Core Lab Seminar, 07/10/2015 - 07/10/2015, Kochi, Presenter(s): Tom Trull

McMahon, C; Seals as Oceanographers - AAS 4329; Davis Station Presentation, 25/11/2015 - 25/11/2015, Davis Station, Presenter(s): Clive McMahon

Harcourt, R; Are animals the new oceanographers?; SIMS Lunchtime Seminar Series and Topics in Australian Marine Science Seminar Program, 05/05/2016 - 05/05/2016, Sydney Institute for Marine Science, Sydney, Presenter(s): Rob Harcourt

Steckenreuter, A; Tracking Marine Species around Australia - Great Barrier Reef to Southern Ocean and Ningaloo Reef to Sydney Harbour; Seminar at Workers Education Association, 22/06/2016 - 22/06/2016, Sydney, Presenter(s): Andre Steckenreuter

van Ruth, P, Doubell, M; The Southern Australian Integrated Marine Observing System - Data streams, applications and opportunities; The South Australian Southern Rock Lobster Research Advisory Committee Meeting, 01/07/2016 - 01/07/2016, Adelaide, Presenter(s): Paul van Ruth

van Ruth, P; Regional ecosystem monitoring to improve understanding of oyster productivity - Coffin Bay; Coffin Bay Research Forum, 21/09/2016 - 21/09/2016, Coffin Bay, Presenter(s): Paul van Ruth

Messer, L, Seymour, JR, Ostrowski, M, Doblin, MA, Petrou, K, Bissett, A, Van De Kamp, J, Fuhrman, JA, Bodrossy, L, Brown, MV; Microbial tropicalisation of temperate ocean waters driven by a western boundary current; University of Queensland, Genetics and Genomics Seminar Series, 30/09/2016 - 30/09/2016, University of Queensland, Brisbane, Presenter(s): Lauren Messer

McCauley, R; Fish choruses; BBC World Service Radio Interview, 12/10/2016 - 12/10/2016, Perth, Presenter(s): Rob McCauley

Seymour, JR; Swimming in a sea of marine microbes; Australian Society of Microbiology – Goldsworthy Lecture Australian Society of Microbiology – Goldsworthy Lecture , 12/10/2016 - 12/10/2016, Sydney, Presenter(s): Justin Seymour



McCauley, R; The use of passive acoustics to monitor our marine environment; CSIRO Hobart Workshop, 17/10/2016 - 17/10/2016, Hobart, Presenter(s): Rob McCauley

Benthuisen, J; Oceanic processes across tropical Australia; thermosalinograph results highlighted; Institute of Oceanology, Chinese Academy of Sciences, 04/11/2016 - 04/11/2016, Qingdao, Presenter(s): Jessica Benthuisen

Benthuisen, J; Oceanic processes across tropical Australia; thermosalinograph results highlighted; Ocean University of China, Public Seminar, 08/11/2016 - 08/11/2016, Qingdao, Presenter(s): Jessica Benthuisen

Harcourt, R; Are animals the new oceanographers?; Public Lecture, Sydney Institute of Marine Science, 30/03/2017 - 30/03/2017, Sydney, Presenter(s): Rob Harcourt

Trull, T; Antarctica: White, Black, and Red All-over? An outré autonomous excursion in interpretive dance; Australian Science Media Centre Annual General Meeting, 15/06/2017 - 15/06/2017, Hobart, Presenter(s): Tom Trull

Tilbrook, B, Neill, C, Berry, K, et, al.; Future Reef 2.0; Future Reef 2.0, 20/06/2017 - 20/06/2017, Brisbane, Presenter(s): Bronte Tilbrook

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## 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

Beggs, H, Barton, I, Rea, A, Harris, A, Mittaz, J, Maturi, E; Report from the Australian Regional Data Assembly Centre; GODAE High Resolution SST Pilot Project Science Team Meeting, 14/05/2007 - 18/05/2007, Melbourne

Ridgway, K, Dunn, JR; Improving ocean climatological fields using Argo and Altimetry; International Union of Geophysics and Geology (IUGG) General Assembly, 02/07/2007 - 13/07/2007, Perugia

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

Ridgway, K, Beggs, H, Furnas, M, Gronell, A, Hosie, G, Lee, R, Richardson, A, Schulz, E, Tilbrook, B, Trull, T, Turner, P, Wijffels, S; An observation network for the Oceans around Australia - the IMOS Bluewater Node; Australian Marine Science Association Conference, 09/07/2007 - 13/07/2007, University of Melbourne, Melbourne, Presenter(s): Eric Schulz

Beggs, H, Furnas, M, Hosie, G, Richardson, A, Ridgway, K, Schulz, E, Tilbrook, B, Turner, P, Wijffels, S; An observation network for the oceans around Australia - The IMOS Bluewater Node; Australian Meteorological and Oceanographic Society (AMOS) Conference, 29/01/2008 - 01/02/2008, Geelong

Schulz, E, Trull, T; The Australian Integrated Marine Observing System Southern Ocean Time Series Program, National Institute of Water and Atmospheric Research, Wellington, NZ, Nov. 2007; Australian Meteorological and Oceanographic Society (AMOS) Conference, 29/01/2008 - 01/02/2008, Geelong, Presenter(s): Eric Schulz

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

Ridgway, K, Beggs, H, Furnas, M, Gronell, A, Hosie, G, Lee, R, Richardson, A, Schulz, E, Tilbrook, B, Trull, T, Turner, P, Wijffels, S; An observation network for the oceans around Australia - The IMOS Bluewater and Climate Node; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Ganachaud, AS, Sen Gupta, AS, Steinberg, C, Maes, C; Projected ocean circulation changes to the tropical Pacific over the 21st century; Greenhouse 2009: Climate Change and Resources, 23/03/2009 - 26/03/2009, Perth

Richardson, A, Hosie, G, Coman, F, Davies, C, McLeod, DJ, Slotwinski, A; A new plankton observing programme: the Australian Continuous Plankton Recorder (AusCPR) survey; Global Ocean Ecosystem Dynamics (GLOBEC) Open Science Meeting, 22/06/2009 - 26/06/2009, Vancouver

Coman, F, Bonham, P, Davies, C, Slotwinski, A, Thompson, P, Richardson, A; The Plankton observing system for IMOS: 2. Plankton from the Australian National Reference Stations; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide, Presenter(s): Anthony Richardson

Richardson, A, Hosie, G, Coman, F, Davies, C, McLeod, DJ, Slotwinski, A; The plankton observing system for IMOS: 1. The Australian Continuous Plankton Recorder (AusCPR) survey; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide, Presenter(s): Anthony Richardson

Ridgway, K, Beggs, H, Furnas, M, Gronell, A, Hosie, G, Lee, R, Richardson, A, Schulz, E, Tilbrook, B, Trull, T, Turner, P, Wijffels, S; An observation network for the oceans around Australia - The IMOS Bluewater and Climate Node; Australian Marine Science Association Conference, 05/07/2009 - 09/07/2009, Adelaide

Ahmed, S, Harmel, T, Hlaing, S, Tonizzo, A, Gilerson, A ; Validation of ocean colour satellite sensors using multi and hyper-spectral data from Long Island Sound Coastal Observatory; AOP Workshop, 08/12/2009 - 10/12/2009, San Diego, Presenter(s): Sam Ahmed

Bestley, S, Rintoul, S, Charrassin, J-B; Seals reveal ocean-ice interaction in East Antarctica; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo

Field, IC, Harcourt, R, Sumner, MD, Hindell, MA; Insights from MEOP: Four dimensional foraging habitat of southern elephant seals from Macquarie Island; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo, Presenter(s): Iain Field

The MEOP Project: Marine Mammals Exploring the Oceans Pole to Pole; International Polar Year Science Conference, 08/06/2010 - 12/06/2010, Oslo, Presenter(s): Mike Fedak

Beggs, H, Majewski, L, Paltoglou, G; Satellite Sea Surface Temperature products for the Australian region from IMOS and BLUElink; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Hosie, G, et, al.; The SCAR Southern Ocean Continuous Plankton Recorder Survey: achievements, current status and future directions; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong, Presenter(s): Graham Hosie

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

Hindell, MA; 3 dimensional foraging habitats of top predators, and areas of ecological significance, on the Kerguelen Plateau; SCAR Open Science Conference, 03/08/2010 - 06/08/2010, Buenos Aires, Presenter(s): Mark Hindell

Hosie, G, Hunt, BPV, et, al.; The SCAR Southern Ocean Continuous Plankton Recorder Survey: achievements, current status and future directions; SCAR Open Science Conference, 03/08/2010 - 06/08/2010, Buenos Aires, Presenter(s): Brian Hunt

Lehodey, P, Senina, I, Calmettes, B, Royer, F, Gaspar, P, Abecassis, M, Polovina, J, Parker, D, Domokos, R, Hernandez, O; Towards operational management of pelagic ecosystems; ICES Annual Science Conference, 20/09/2010 - 24/09/2010, Nantes, Presenter(s): Patrick Lehodey

Beggs, H, Griffin, C, Majewski, L, King, E, Govekar, P, Sisson, J; IMOS Sea Surface Temperature products suitable for near-coastal applications; Coast to Coast Conference Workshop - Australian Coastal Observatory, 21/09/2010 - 22/09/2010, Adelaide, Presenter(s): Helen Beggs

Schulz, E; Air-sea flux observing efforts in the Southern Ocean; Australia - New Zealand Climate Forum 2010, 13/10/2010 - 15/10/2010, Hobart, Presenter(s): Eric Schulz

Ridgway, K; Decadal variability of the East Australian Current; Relationship to changes in the South Pacific Gyre and ENSO; Greenhouse 2011: The Science of Climate Change, 04/04/2011 - 08/04/2011, Cairns, Presenter(s): Ken Ridgway

Tilbrook, B; Ocean acidification on the GBR and in the Coral Sea; Greenhouse 2011: The Science of Climate Change, 04/04/2011 - 08/04/2011, Cairns, Presenter(s): Bronte Tilbrook

Harcourt, R; Monitoring apex predators in the Southern Ocean; 7th Journees Scientifiques du CNFRA, 19/05/2011 - 20/05/2011, Paris, Presenter(s): Rob Harcourt

Beggs, H, Majewski, L, Paltoglou, G, Verein, R, Zhong, A; Report to GHRSSST12 from Australia - BLUElink and IMOS; 12th GHRSSST Science Team Meeting, 27/06/2011 - 01/07/2011, Edinburgh

Field, IC, Harcourt, R, Hindell, MA, Bestley, S, Lea, MA, Goldsworthy, S, Page, B, Williams, G, Boomer, A; The Australian Animal Tagging and Monitoring System (AATAMS): moving towards an integrated approach for ocean observing; International Union of Geophysics and Geology (IUGG) Earth on the Edge: Science for a Sustainable Planet, 28/06/2011 - 07/07/2011, Melbourne, Presenter(s): Iain Field

Trull, T; Enhancement of Oceanic CO<sub>2</sub> uptake; International Union of Geophysics and Geology (IUGG) Earth on the Edge: Science for a Sustainable Planet, 28/06/2011 - 07/07/2011, Melbourne, Presenter(s): Tom Trull

Baird, ME, Oke, PR, Everett, JD, Griffin, DA, Doblin, MA, Pender, L, Suthers, I; Dynamics of a surface gravity current in a cold-core eddy in the western Tasman Sea; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Coman, F, Davies, C, Hosie, G, McLaughlin, J, McLeod, DJ, Slotwinski, A, Strzelecki, J, Tonks, M, Richardson, A; A new plankton observing programme: the Australian Continuous Plankton Recorder (AusCPR) survey; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Hosie, G, Mormede, S, Raymond, B, Pinkerton, M; Predicting biogeographic patterns of Southern Ocean and Antarctic zooplankton using Continuous Plankton Recorder data; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Kloser, R, Ryan, T, Lewis, M, Sutton, C, Keith, G; Using acoustics to understand the biomass, distribution, variability and energetics of mid-trophic level organisms in ocean ecosystems; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle

Sloyan, B, Wijffels, S; Sustained monitoring in the Timor Passage and Ombai Strait: components of the Indonesian Throughflow; Australian Marine Science Association Conference, 03/07/2011 - 07/07/2011, Fremantle, Presenter(s): Bernadette Sloyan

Trull, T; Sensor based studies of Southern Ocean carbon and climate signals; UTAS Quantitative Marine Science Invited New Students PhD Days, 14/07/2011 - 15/07/2011, University of Tasmania, Hobart, Presenter(s): Tom Trull

Shadwick, E; Carbon uptake in polar continental shelf regions; Land-Ocean Interactions in the Coastal Zone (LOICZ) Open Science Conference, 08/09/2011 - 15/09/2011, Yantai, Presenter(s): E Shadwick

Trull, T; Options for enhancement of oceanic CO<sub>2</sub> uptake; Australian Academy of Sciences and Australian Academy of Technical Sciences and Engineering Symposium on Geoengineering the Climate, 26/09/2011 - 27/09/2011, Canberra, Presenter(s): Tom Trull

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Updated results from the in situ calibration site in Bass Strait, Australia; Ocean Surface Topography Science Team (OSTST), 19/10/2011 - 21/10/2011, San Diego, Presenter(s): Chris Watson

King, E, Evans, B, Wyborn, L, Wu, W, Lymburner, L, Thankappan, M, Tan, P, Gray, M, Antony, J, Atif, M, Paget, M, Maier, S, Schroeder, T; A national environmental satellite data virtual laboratory; eResearch Australasia, 06/11/2011 - 10/11/2011, Melbourne, Presenter(s): Edward King

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

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Satellite Altimeter Calibration and Validation; Tasmanian IMOS Node Community Science Seminar, 09/12/2011 - 09/12/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Chris Watson

Shadwick, E; Carbon cycling in the Mertz Polynya; IMAS Seminar Series, 01/01/2012 - 31/12/2012, Institute of Marine and Antarctic Studies, Hobart, Presenter(s): Steve Rintoul, E Shadwick, Bronte Tilbrook

Griffin, DA, Cahill, M, Roughan, M, Oke, PR; Observing and modelling the East Australian Current and its eddies using IMOS data and the BLUElink models; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Josey, SA, Schulz, E, Yu, L; First steps towards determination of the Southern Ocean air-sea heat exchange: Evaluating flux datasets using the SOFS mooring; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

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

Schulz, E; Evaluating the numerical weather prediction air-sea fluxes over the global ocean for Access-G; 18th Australian Meteorological and Oceanographic Society (AMOS) Conference, 31/01/2012 - 03/02/2012, University of New South Wales, Sydney

Schroeder, T; Overview of IMOS Cal/Val activities within the Satellite Remote Sensing Facility; Committee on Earth Observation Satellites (CEOS) WGCV-34 Meeting, 06/02/2012 - 10/02/2012, Brisbane, Presenter(s): Thomas Schroeder

Tregoning, P, Watson, C, White, N, Church, JA, Burgette, R, Coleman, R; Satellite validation of sea surface and ice sheet heights from Satellite Altimetry for climate studies; Committee on Earth Observation Satellites (CEOS) WGCV-34 Meeting, 06/02/2012 - 10/02/2012, Brisbane, Presenter(s): Paul Tregoning

Brando, V, Clementson, L, Schroeder, T, Keen, R, Daniel, P, Dekker, AG; Spatial and temporal bio-optical variability at Lucinda Jetty coastal observatory: Implications for calibration and validation of ocean colour sensors; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

Keen, R, Brando, V, Daniel, P, McKenzie, D, Woodward, L, Palmer, R, Mills, D, Slivkoff, M, Klonowski, W; The establishment of autonomous ship based ocean colour observations on Australian research vessels; Ocean Sciences Meeting, 20/02/2012 - 24/02/2012, Salt Lake City

King, E; Integrating Ocean Colour into Australia's Marine Observing System; 17th International Ocean Colour Coordinating Group Committee Meeting, 28/02/2012 - 01/03/2012, Denpasar, Presenter(s): Edward King

Beggs, H, Castro, S, Wick, G, Majewski, L, Paltoglou, G, LeBorgne, P, Embury, O, Gentemann, C, Clayson, CA, Weihs, R, Sandery, PA, Barass, V, Tingwell, C, Steinle, P, Harris, A, Merchant, C, Martin, MJ, Zhu, X, Brunke, M; Overview of the GHRSSST Tropical Warm Pool Diurnal Variability Project; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Castro, S, Wick, G, Beggs, H; Comparisons observed and predicted diurnal warming in the Tropical Warm Pool using simplified parameterizations; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Kruger, G, Majewski, L, Beggs, H; ABOM SST Retrievals in the Southern Ocean (and other sundry matters); GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Majewski, L; Validation of MTSAT-1R SST over the Tropical Warm Pool; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne, Presenter(s): Leon Majewski

Wick, G, Castro, S, Beggs, H; Preliminary application of physical diurnal warming models within TWP+; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Zhu, X, Minnett, P, Hendee, J, Manfrino, C, Berkelmans, R, Beggs, H; Coastal diurnal warming study through in-situ data analysis and modelling; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Trull, T; Advances in the understanding of the Southern Ocean carbon cycle; ACE CRC Annual Symposium, 08/03/2012 - 09/03/2012, Hobart, Presenter(s): Tom Trull

Wijffels, S, Sloyan, B, Steinberg, C; The Australian Integrated Marine Observing System's Indonesian throughflow and shelf moorings; CLIVAR ITF-Task Team Workshop Developing an Effective Monitoring Program of the Indonesian throughflow, 12/03/2012 - 14/03/2012, Jakarta

Antoine, D; General requirements for Cal/Val of ocean colour satellite observations from the preliminary outputs of the CEOS OCR-VC "INSITU-OCR" initiative and as a basis for designing the Sentinel-3/OLCI cal/val plan; Sentinel-3 Calibration and Validation Planning Workshop, 20/03/2012 - 22/03/2012, Frascati, Presenter(s): David Antoine

McCauley, R, Gavrilov, AS, Salgado Kent, C, Jenner, C, Jenner, M, Gedamke, J; Migratory habits of pygmy and Antarctic blue whales in Australian waters; Living Whales in the Southern Ocean: Advances in Methods for Non-lethal Cetacean Research, 27/03/2012 - 29/03/2012, Puerto Varas, Presenter(s): Rob McCauley

Schulz, E, Durrant, TH; Evaluating the numerical weather prediction - Air Sea Fluxes over the Global Ocean for ACCESS-G; 9th ACCESS/CAWCR Informal Workshop, 30/03/2012 - 30/03/2012, Melbourne, Presenter(s): Eric Schulz

Hindell, MA, et, al.; Three dimensional habitat structure in southern elephant seals; International Polar Year Conference (IPY), 22/04/2012 - 27/04/2012, Montreal, Presenter(s): Mark Hindell

Hill, K, Sloyan, B, Ridgway, K, Rintoul, S, Oke, PR; Variability in the East Australian Current: Existing evidence, and observing system plans; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea

Schiller, A, Ridgway, K; The circulation of Southwest Pacific Ocean; 10th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO) - Changing Southern Climates, 23/04/2012 - 27/04/2012, Noumea

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

Trull, T; Changing Southern Ocean biogeochemistry - the impact of iron and acidity; Australian Academy of Sciences Symposium "Antarctic Science - from Mawson's Expedition to today, 04/05/2012 - 04/05/2012, Canberra, Presenter(s): Tom Trull

Trull, T; Advances in Southern Ocean Carbon Cycle research; ACE CRC Mid-Term Review, 23/05/2012 - 23/05/2012, Hobart, Presenter(s): Tom Trull

Beggs, H, Kaiser-Weiss, A, Hoyer, J, Harris, A, Corlett, G, Wick, G, Castro, S, Sandery, PA; Summary of the joint workshop on tropical warm pool and high latitude SST issues, Melbourne, 5-9 March 2012; 13th GHRSSST Science Team Meeting, 04/06/2012 - 08/06/2012, Tokyo

Raymond, B, Patterson, T, Andrews-Goff, V, Lea, MA, Hindell, MA; Integration and synthesis of Antarctic predator tracking data; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Ben Raymond

Tilbrook, B; CO2 Observing systems in the Southern Ocean; Surface Ocean CO2 Atlas (SOCAT) Progress Meeting, 03/07/2012 - 04/07/2012, Tsukuba, Presenter(s): Bronte Tilbrook

Majewski, L, Kruger, G, Beggs, H; AVHRR and MTSAT sea surface temperature products for the Australian region; 12th International Coral Reef Symposium (ICRS), 09/07/2012 - 13/07/2012, Cairns

Hindell, MA, et, al.; Three dimensional habitat structure in southern elephant seals; 32nd SCAR Open Science Conference, 13/07/2012 - 25/07/2012, Portland, Presenter(s): Mark Hindell

Beggs, H, Castro, S, Majewski, L, Wick, G, LeBorgne, P, Griffin, C, Gentemann, C, Merchant, C; Using satellite SST to measure diurnal warming in the Tropical Warm Pool Region; 22nd Congress of the International Society for Photogrammetry and Remote Sensing, 25/08/2012 - 01/09/2012, Melbourne

Majewski, L, Kruger, G, Beggs, H; Satellite Sea Surface Temperature products for the Australian region from IMOS; 22nd Congress of the International Society for Photogrammetry and Remote Sensing, 25/08/2012 - 01/09/2012, Melbourne

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Assessing altimeter bias drift: an Australian contribution using the global tide gauge network and GPS estimates of vertical land motion; Ocean Surface Topography Science Team (OSTST) Meeting, 22/09/2012 - 29/09/2012, Lido, Presenter(s): Chris Watson

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Updated absolute bias results from the Australian in-situ calibration sites: Bass Strait and Storm Bay; Ocean Surface Topography Science Team (OSTST) Meeting, 22/09/2012 - 29/09/2012, Lido, Presenter(s): Chris Watson

Bonnefond, P, Desjonqueres, JD, Haines, BJ, Mertikas, S, Watson, C; Absolute calibration of the TOPEX/Poseidon and Jason measurement systems: twenty years of monitoring from dedicated sites; 20 years of progress in radar altimetry with 4th Argo Science Workshop, 24/09/2012 - 29/09/2012, Venice, Presenter(s): Chris Watson

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

Tilbrook, B; The carbonate chemistry of the Great Barrier Reef; 3rd International Conference on the Oceans in a High CO<sub>2</sub> World, 24/09/2012 - 28/09/2012, Monterey, Presenter(s): Bronte Tilbrook

Barrell, S; Use of satellite data and products in Australia; 3rd Asia/Oceania Meteorological Satellite Users' Conference, 09/10/2012 - 12/10/2012, Jeju Island, Presenter(s): S Barrell

Beggs, H, Majewski, L, Griffin, C, Siddique, A; New Satellite SST Products that could benefit BLUElink Systems; BLUElink III Science Meeting, 30/10/2012 - 31/10/2012, Hobart, Presenter(s): Helen Beggs

Trull, T; The Southern Ocean Time Series moored sensing and sampling program - motivations for moving beyond biogeochemistry to marine microbial ecology; Autonomous, in situ microbial diagnostics and monitoring for microbial oceanography Workshop, 05/11/2012 - 06/11/2012, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Tom Trull

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

Beggs, H, Castro, S, Majewski, L, Wick, G, Merchant, C, Griffin, C, LeBorgne, P, Gentemann, C; A Study of Diurnal Warming in the Tropical Warm Pool using Sea Surface Temperature from Multiple Satellites ; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Helen Beggs

Kloser, R, Sutton, C, Ryan, T, Keith, G, Downie, R; Towards an understanding of the distribution, biomass and energetics of mid-trophic organisms in the open ocean; CLIOTOP Second Symposium, 11/02/2013 - 15/02/2013, Noumea, Presenter(s): Rudy Kloser

Sloyan, B, Wijffels, S, Cowley, R; Observations of the Pacific and Indian Ocean Exchange; Australian Meteorological and Oceanographic Society (AMOS) Conference, 11/02/2013 - 13/02/2013, Melbourne, Presenter(s): Bernadette Sloyan

Tilbrook, B; Ocean carbon and acidification; 2nd Joint Commission Steering Committee Meeting on Science and Technology, 14/03/2013 - 15/03/2013, Hobart, Presenter(s): Bronte Tilbrook

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

Shadwick, E, Cassar, N, Tilbrook, B, Trull, T; Influence of net community production and physical processes on surface oxygen and carbon distribution along a north-south section across the Australian sector of the Southern Ocean; 45th International Liege Colloquium on Ocean Dynamics, 13/05/2013 - 17/05/2013, Liege, Presenter(s): E Shadwick

Tilbrook, B; Carbon and acidification research in the Southern Ocean; SOOS Asian Workshop Data Management Sub-Committee Meeting, 23/05/2013 - 24/05/2013, Shanghai, Presenter(s): Bronte Tilbrook

Tilbrook, B; Theme 4 work plan: ocean carbon; SOOS Asian Workshop Data Management Sub-Committee Meeting, 23/05/2013 - 24/05/2013, Shanghai, Presenter(s): Bronte Tilbrook

Trull, T; An overview of Australian open ocean moored observatories; OceanSITES 9th Steering Committee and 6th Data Management Team Meetings, 27/05/2013 - 30/05/2013, Seoul, Presenter(s): Tom Trull

Bakker, DCE, Hankin, S, Olsen, A; An update to the surface ocean CO<sub>2</sub>; 9th International Carbon Dioxide Conference, 03/06/2013 - 07/06/2013, Beijing, Presenter(s): D Bakker

Beggs, H, Majewski, L, Castro, S, Wick, G, Brunke, M, Rodriguez, J; Update on the GHRSSST Tropical Warm Pool Diurnal Variability (TWP+) Project; 14th GHRSSST Science Team Meeting, 17/06/2013 - 21/06/2013, Woods Hole, Presenter(s): Helen Beggs

Beggs, H, Majewski, L, Griffin, C, Verein, R, Tingwell, C, Sakov, P, Garde, L; Report to GHRSS14 from Australia - BLUElink and IMOS; 14th GHRSS1 Science Team Meeting, 17/06/2013 - 21/06/2013, Woods Hole, Presenter(s): Helen Beggs

Gavrilov, AS, McCauley, R; A network of passive acoustic observatories of the integrated marine observing system in Australia: data collection, processing and online communication through an internet portal ; 14th Conference on Ocean Acoustics, 17/06/2013 - 21/06/2013, Moscow, Presenter(s): Alexander Gavrilov

Griffin, C, Beggs, H, Majewski, L; A consistent day/night regression algorithm based on 3-channel AVHRR; 14th GHRSS1 Science Team Meeting, 17/06/2013 - 21/06/2013, Woods Hole, Presenter(s): Christopher Griffin

Gavrilov, AS, McCauley, R, Hidas, MG, Bohm, P; Passive acoustics observatories of the Integrated Marine Observing System: Data collection, management and communication; Underwater Acoustic Conference, 24/06/2013 - 28/06/2013, Corfu, Presenter(s): Alexander Gavrilov

Sloyan, B, Wijffels, S, Cowley, R; The 2011-2012 Pacific and Indian Ocean Exchange: Initial results from the IMOS Timor Passage and Ombai Strait Moorings; AOGS - Asia Oceania Geosciences Society Annual Meeting , 24/06/2013 - 28/06/2013, Brisbane, Presenter(s): Bernadette Sloyan

Trull, T, Schulz, E; The Southern Ocean Time Series observatory: automated; Strategic Science in Antarctica - A Joint Australian and New Zealand Conference, 24/06/2013 - 26/06/2013, University of Tasmania, Hobart, Presenter(s): Tom Trull

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

Kloser, R, Keith, G, Sutton, C, Ryan, T, Downie, R; A decade of Tasman Sea bio-acoustics; Australian Marine Science Association Conference, 07/07/2013 - 11/07/2013, Gold Coast, Presenter(s): Rudy Kloser

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

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

Tilbrook, B, Lenton, A, Law, RM, Bakker, DCE, Doney, S, Gruber, N, Hoppema, M, Ishii, M, Lovenduski, N, Matear, R, Metzl, N, et, al.; Sea-air fluxes in the Southern Ocean: 1990-2009; Greenhouse 2013, 05/10/2013 - 11/10/2013, Adelaide, Presenter(s): Bronte Tilbrook

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

Beggs, H; Group for high resolution sea surface temperature (GHRSS1) - activities in Asia and Oceania; 4th Asia Oceania Meteorological Satellite User's Conference, 09/10/2013 - 11/10/2013, Melbourne, Presenter(s): Helen Beggs

Griffin, C, Beggs, H, Majewski, L; A quick introduction to the methods and features of the IMOS HRPT AVHRR SST dataset produced by the Australian Bureau of Meteorology; 4th Asia Oceania Meteorological Satellite User's Conference, 09/10/2013 - 11/10/2013, Melbourne, Presenter(s): Christopher Griffin

Majewski, L, Griffin, C, Beggs, H; Spatial and temporal biases in MTSAT-1R SST; 4th Asia Oceania Meteorological Satellite User's Conference, 09/10/2013 - 11/10/2013, Melbourne, Presenter(s): Helen Beggs

Trull, T; Australian Bluewater Observing System; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Tom Trull

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

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

Shadwick, E, Tilbrook, B, Cassar, N, Trull, T, Rintoul, S; Summertime physical and biological controls on O<sub>2</sub> and CO<sub>2</sub> in the Australian sector of the Southern Ocean; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): E Shadwick

Trull, T; Hourly observations at the Australian Integrated Marine Observing System Southern Ocean Time Series facility; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Tom Trull

Trull, T; Net community production at the Southern Ocean Time Series site; Australian Meteorological and Oceanographic Society (AMOS) Conference, 12/02/2014 - 14/02/2014, Hobart, Presenter(s): Tom Trull

Closset, I, Cardinal, D, Thil, F, Bray, SG, Trull, T; Seasonal variation, origin and fate of settling diatoms in the Southern Ocean tracked by silicon isotope record in deep sediment traps; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Ivia Closset

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

Shadwick, E, Tilbrook, B, Williams, G, Rintoul, S; Biological modification of carbonate chemistry in dense water outflows from the Mertz Polynya, East Antarctica; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): E Shadwick

Sloyan, B, Wijffels, S, Tilbrook, B, Katsumata, K, Murata, A; Deep ocean changes at the western boundary of the South Pacific Ocean; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Bernadette Sloyan

Trull, T, Weeding, B, Bray, SG, Jansen, P, Schulz, E; Hourly observations at the Australian Southern Ocean Time Series indicate elevated net community production in the still-cooling, late-winter, deep mixed layer; Ocean Sciences Meeting, 23/02/2014 - 28/02/2014, Honolulu, Presenter(s): Tom Trull

Cardinal, D, Closset, I, Bray, SG, Trull, T; Composition of settling particles in the Southern Ocean and processes controlling seasonal variations of deep export production; European Geosciences Union (EGU) General Assembly, 27/04/2014 - 02/05/2014, Vienna, Presenter(s): D Cardinal

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

Messer, L, Jeffries, TC, Mahaffey, C, Doubell, M, Doblin, MA, Brown, MV, Seymour, JR; Diazotroph dynamics across Australia's oligotrophic oceans; Australian Society for Microbiology Conference, 06/07/2014 - 09/07/2014, Melbourne, Presenter(s): Lauren Messer

Sloyan, B, Cowley, R; Temporal and spatial variability of the East Australian Current; Australian Marine Science Association Conference, 07/07/2014 - 11/07/2014, Canberra, Presenter(s): Bernadette Sloyan

Messer, L, Jeffries, TC, Mahaffey, C, Doubell, M, Doblin, MA, Brown, MV, Seymour, JR; Diazotroph dynamics across Australia's oligotrophic oceans; 15th International Symposium on Microbial Ecology, 24/08/2014 - 29/08/2014, Seoul, Presenter(s): Lauren Messer

Watson, C, White, N, Church, JA, Beardsley, J, Legresy, B, King, M; Update results from the Australian in-situ calibration sites: Bass Strait and Storm Bay; Ocean Surface Topography Science Team (OSTST) Meeting, 27/10/2014 - 31/10/2014, Lake Constance, Presenter(s): Chris Watson

Watson, C, White, N, Church, JA, King, M, Burgette, R; Refining satellite era estimates of global mean sea level rise; Geography and Spatial Sciences Conference, 25/11/2014 - 26/11/2014, Hobart, Presenter(s): Chris Watson

Zibordi, G; JRC Agency Report; 39th CEOS Working Group on Calibration and Validation Plenary, 06/05/2015 - 08/05/2015, Berlin, Presenter(s): Giuseppe Zibordi

Tilbrook, B, Jewett, L, Williamson, P, Newton, J, Isensee, K; Global ocean acidification observing network; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Bronte Tilbrook



Tilbrook, B, Steven, A, Neill, C, Baird, ME, Mongin, M; Ocean acidification and the carbonate chemistry of the Great Barrier Reef; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Bronte Tilbrook

Gavrilov, AS, McCauley, R, Charlton, C, Ward, R; Spot calls and its probable source; 3rd Underwater Acoustics Conference and Exhibition, 21/06/2015 - 26/06/2015, Crete, Presenter(s): Alexander Gavrilov

Legresy, B, Watson, C, Church, JA, White, N, Trebaul, J-P, Beardsley, J, Andrewartha, J; Satellite altimetry calibration/validation at the Australian Bass Strait site in the context of the new missions: Jason-3 and Sentinel-3; International Union of Geophysics and Geology (IUGG) General Assembly, 22/06/2015 - 02/07/2015, Prague, Presenter(s): Chris Watson

McMahon, C; IMOS: Seals are changing the way we monitor the Southern Ocean; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Clive McMahon

Potter, A, Lewis, A; Geoscience Australia's support in the search for Malaysia airlines flight MH370; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Adam Lewis

Richardson, A, Rochester, W, Eriksen, R; Plankton 2015: as assessment of Australia's oceans using plankton as ecosystem indicators; Australian Marine Science Association Conference, 05/07/2015 - 09/07/2015, Geelong, Presenter(s): Anthony Richardson

Bodrossy, L; Microbial cycling in marine waters around Australia; Applied and Environmental Microbiology Gordon research Conference, 12/07/2015 - 17/07/2015, Massachusetts, Presenter(s): Lev Bodrossy

Church, JA; Sea-level change: a scientific and social challenge for the 21st century; Australian Meteorological & Oceanographic Society (AMOS) Conference, 15/07/2015 - 17/07/2015, Brisbane, Presenter(s): John Church

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

McCauley, R; Definition of the blue whale species complex and their movements in Australian and Southern Ocean waters; 12th International Congress on Theoretical and Computational Acoustics, 11/10/2015 - 16/10/2015, Hangzhou, Presenter(s): Rob McCauley

Zhang, X, Eguiluz, V; Human Mobility; Enrichment in the Fall - Marine Megafauna Movement: exploring new technologies for a better understanding of animal movement across the ocean, 16/10/2015 - 24/10/2015, King Abdul University of Science and Technology, Jeddah, Presenter(s): Xueban Zhang

Watson, C, Legresy, B, Church, JA, Beardsley, J, King, M, Santamaria-Gomez, A; Absolute bias estimates from the Australian in situ sites; Ocean Surface Topography Science Team (OSTST) Meeting, 20/10/2015 - 23/10/2015, Reston, Presenter(s): Chris Watson

Watson, C, Legresy, B, Church, JA, King, M, Santamaria-Gomez, A; Assessing satellite era sea level change using tide gauges and estimates of land motion; Ocean Surface Topography Science Team (OSTST) Meeting, 20/10/2015 - 23/10/2015, Reston, Presenter(s): Chris Watson

Tilbrook, B; Southern Ocean carbon and ocean acidification; Greenhouse, 27/10/2015 - 30/10/2015, Hobart, Presenter(s): Bronte Tilbrook

Clementson, L, Richardson, A, Davies, C, Schroeder, T; Data, data everywhere - how to access phytoplankton taxonomic and pigment composition data for the Australian region; 29th Australasian Society for Phycology and Aquatic Botany Conference, 04/11/2015 - 06/11/2015, Hobart, Presenter(s): L Clementson

Waseda, T, Kiyomatsu, K, Fujimoto, W, Jansen, P, Schulz, E, Babanin, A, Rapizo, H; Observed orbital velocity of extreme waves and directional spectrum; 14th International Workshop on Wave Hindcasting and Forecasting & 5th Coastal Hazard Symposium, 08/11/2015 - 13/11/2015, Key West

Tilbrook, B; Global ocean acidification monitoring; 2nd Session of the Executive Council of the Global Ocean Acidification Observing Network, 19/11/2015 - 20/11/2015, Monaco, Presenter(s): Bronte Tilbrook

Bailleul, F, Goldsworthy, S, Mackay, A, Rogers, P, Page, B, Baylis, A, McKenzie, J, Jonsen, I, Hindell, MA; The places to be in the Great Australian Bight: areas of ecological significance for multiple iconic species; 21st Biennial Conference on the Biology of Marine Mammals, 13/12/2015 - 18/12/2015, San Fransisco, Presenter(s): Fred Bailleul

Beggs, H, Griffin, C, Majewski, L, King, E, Sisson, J; IMOS SST products suitable for near coastal applications; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Helen Beggs

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

Protat, A, Schulz, E, Sun, Z, Xiao, Y, Keywood, M; Southern Ocean cloud - radiation interactions and their representation in the Australian regional forecast model as revealed by RV Investigator observations; Australian Meteorological and Oceanographic Society (AMOS) Conference, 08/02/2016 - 11/02/2016, Melbourne, Presenter(s): Alain Protat

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

Harcourt, R, McMahon, C, Jonsen, I, Goldsworthy, S, Hindell, MA, Thums, M; IMOS: How seals are changing the way we monitor the Southern Ocean; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Rob Harcourt

Labrousse, S; Under the sea ice: exploration of the relationships between sea ice patterns and foraging movements of a marine predator in East Antarctica; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Sarah Labrousse

Sloyan, B; Direct observations of the East Australian Current and property transport at 27 degrees South from 2012-2013; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans, Presenter(s): Bernadette Sloyan

Hardman-Mountford, NJ; Australian ocean colour activities; 21st IOCCG Committee Meeting, 01/03/2016 - 03/03/2016, Santa Monica, Presenter(s): Nick Hardman-Mountford

Jamet, C; Atmospheric correction in coastal waters; 21st IOCCG Committee Meeting, 01/03/2016 - 03/03/2016, Santa Monica, Presenter(s): Cedric Jamet

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

Beggs, H, Zhou, X, Ignatov, A, Xu, F; Bureau of Meteorology's IMOS Ship SST Data QC System - comparison with other ship SST QC; QC Summit, 07/03/2016 - 11/06/2016, Hobart, Presenter(s): Helen Beggs

Passmore, A, Trull, T, Davies, DM, Smit, T; Distribution of pelagic biogenic carbonates south of Australia: a baseline for ocean acidification impact assessment; 4th Oceans in a high CO2 World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): A Passmore

Harcourt, R; IMOS Animal Tracking in Australia: what has been achieved and what of the future; Ocean Tracking Network Conference, 31/05/2016 - 03/06/2016, Halifax, Presenter(s): Rob Harcourt

Legresy, B, Watson, C; Opportunities for SWOT Cal/Val around Australia; Surface Water and Ocean Topography (SWOT) Science Team Meeting, 13/06/2016 - 17/06/2016, Pasadena

Watson, C, Legresy, B; SWOT Cal/Val around Australia; Surface Water and Ocean Topography (SWOT) Science Team Meeting, 13/06/2016 - 17/06/2016, Pasadena, Presenter(s): P Bonnefond

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

Parsons, M, et, al.; Long-term monitoring of soundscapes and deciphering a usable index: Examples of spatio-temporal patterns in fish choruses from Australia as an analogue for a changing soundscape; The Effects of Noise on Aquatic Life, 10/07/2016 - 16/07/2016, Dublin, Presenter(s): Miles Parsons

Schroeder, T, Qiu, Y, Malthus, T; Coastal atmospheric correction for Himwari-8 and IMOS validation support; 2nd GEO-LEO Applications Workshop, 01/09/2016 - 01/09/2016, Tokyo, Presenter(s): Thomas Schroeder

Hobday, A; Looking into the future: seasonal to multi-year forecasts for fish and fisheries; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): Alastair Hobday

Kloser, R; Using fishing vessels for basin-scale ecological monitoring using bio-acoustics and the continuous plankton recorder; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): Rudy Kloser

McMahon, C, Harcourt, R; IMOS: Southern Ocean Observations in real time for the global research community; Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016, 04/09/2016 - 07/09/2016, Hobart, Presenter(s): Clive McMahon

Malthus, T; CSIRO agency report on Cal/Val activities; 41st CEOS Working Group on Calibration and Validation Plenary, 05/09/2016 - 07/09/2016, Tokyo, Presenter(s): Tim Malthus

Roquet, F, Boehme, L, Bester, M, Brasseur, S, Charrassin, J-B, Costa, D, Fedak, M, Guinet, C, Hall, A, Harcourt, R, Hindell, MA, Kovacs, K, Lydersen, C, McMahon, C, Picard, B, Reverdin, G, Vincent, C; When diving animals help us to observe the oceans: the MEOP data portal; International Conference on Marine Data and Information Systems (IMDIS), 11/10/2016 - 13/10/2016, Gdansk, Presenter(s): Fabian Roquet

Sundarabalan, B, Jamet, C, Bailey, S, Brajard, J, He, X, Ruddick, K, Schroeder, T, Shanmugam, P, Stamnes, K, Sterckx, S, Wang, M; Atmospheric correction over complex turbid waters; Ocean Optics XXIII Conference, 23/10/2016 - 28/10/2016, Victoria, Presenter(s): b Sundarabalan

Erbe, C, McCauley, R, Gavrilov, AS, Madhusudhana, S, Verma, A; The underwater soundscape around Australia; Second Australasian Acoustical Societies Conference, 09/11/2016 - 11/11/2016, Brisbane, Presenter(s): Christine Erbe

Messer, L, Seymour, JR, Ostrowski, M, Bissett, A, Van De Kamp, J, Bodrossy, L, Brown, MV; Using network analysis to determine phytoplankton-bacteria interactions; C3 (Climate Change Cluster) Colloquium 2016 - Algae Bacteria Interactions, 08/12/2016 - 09/12/2016, Sydney, Presenter(s): Lauren Messer

Ostrowski, M, Bodrossy, L, Brown, MV, Van De Kamp, J, Seymour, JR, Bissett, A, Kahlke, T, Goossen, K, Fitzgerald, A, Moltmann, T; A continental-scale genomic observatory: a foundation for discovery and baseline for the next generation of ecosystem molecular tools; C3 (Climate Change Cluster) Colloquium 2016 - Algae Bacteria Interactions, 08/12/2016 - 09/12/2016, Sydney, Presenter(s): Martin Ostrowski

Doyle, H, Van Wijk, EM, Wallace, L, Trull, T; A climatology-based delayed mode QC procedure for Argo oxygen data; Australia-India Bio-Argo Workshop, 14/12/2016 - 16/12/2016, Perth, Presenter(s): Tom Trull

Cahill, M; Identifying extreme events in Australian waters using high-resolution SST; AMOS/MSNZ Conference and ANZ Climate Forum 2017, 07/02/2017 - 10/02/2017, Canberra, Presenter(s): Madeleine Cahill

Seymour, JR, et, al.; Defining the Australian Ocean Microbiome with a continental-scale, sustained oceanographic observatory; QA, QC and Product Summit, 05/06/2017 - 09/06/2017, South Australian Research and Development Institute, Adelaide, Presenter(s): Justin Seymour

Watson, C, Chen, X, Zhang, X, Church, JA, King, M, Monselesan, D, Legresy, B; The increasing rate of global mean sea level rise over the satellite era; School of Land and Food Research Conference, 13/06/2017 - 15/06/2017, Hobart, Presenter(s): Chris Watson

Antoine, D, Schroeder, T, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurements; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): David Antoine

Govekar, P; Use of ACSPO VIIRS L3U SST in the Australian Bureau of Meteorology; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Pallavi Govekar

Harcourt, R; IMOS Animal Tracking, 10 years of age and going strong; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Rob Harcourt

Richardson, A; A decade of IMOS Plankton Observations; Australian Marine Science Association Conference, 02/07/2017 - 06/07/2017, Darwin, Presenter(s): Anthony Richardson

Uribe-Palomino, J, Coman, F, Tonks, M, et, al.; Pontellid copepods from Australian waters; 13th International Conference on Copepoda, 16/07/2017 - 21/07/2017, Los Angeles, Presenter(s): Julian Uribe-Palomino

Uribe-Palomino, J, Coman, F, Tonks, M, Slotwinski, A, et, al.; Lessons from the free living marine copepods found throughout the Australian Plankton Survey; 13th International Conference on Copepoda, 16/07/2017 - 21/07/2017, Los Angeles, Presenter(s): Julian Uribe-Palomino

### Conference Poster

Ridgway, K; Dynamics of the Southwest Pacific Ocean and the South Pacific Convergence Zone (SPCZ); American Geophysical Union (AGU) Fall Meeting, 10/12/2007 - 14/12/2007, San Fransisco, Presenter(s): Ken Ridgway

Beggs, H, Verein, R, Kippo, H, Underwood, M, Barton, I, Steinberg, C, Schulz, E, Hibbins, R, Gorman, J, Thomas, A, Ball, G, Cowen, L, Lee, R; Enhancing ship of opportunity sea surface temperature observations in the Australian region; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne

Majewski, L; New and enhanced Satellite Sea Surface Temperature products over the Australian region; 9th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), 09/02/2009 - 13/02/2009, Melbourne, Presenter(s): Leon Majewski

Seuront, L, Leterme, S, Middleton, J, Ridgway, K, Doherty, P, Bainbridge, S, Steinberg, C, Suthers, I, Roughan, M, Pattiaratchi, C, Thresher, A, Trull, T, Schulz, E, Wijffels, S, Williams, S, Allen, S, Heron, M, Harcourt, R, Proctor, R, Turner, P, Critchley, G, Richardson, A, Coman, F, Bonham, P, Terhell, D, Thompson, P, Tilbrook, B, Berry, K, Clementson, L, Robert, S, Lynch, T, Furnas, M, Roberts, K, Magierowski, R, Meyers, G; IMOS, an Integrated Marine Observing System for Australia; European Geosciences Union (EGU) General Assembly, 19/04/2009 - 24/04/2009, Vienna

Beggs, H, Verein, R, Kippo, H, Underwood, M, Barton, I, Steinberg, C, Schulz, E, Hibbins, R, Thomas, A, Ball, G; Enhancing Ship of Opportunity Sea Surface Temperature Observations in the Australian Region; GHRST 2009 International Users Symposium, 29/05/2009 - 30/05/2009, Santa Rosa

Beggs, H, Verein, R, Kippo, H, Underwood, M, Barton, I, Steinberg, C, Schulz, E, Hibbins, R, Gorman, J, Thomas, A, Ball, G, Cowen, L, Lee, R; Enhancing ship of opportunity sea surface temperature observations in the Australian region; 10th GHRST Science Team Meeting, 01/06/2009 - 01/06/2009, Santa Rosa

Ridgway, K, Beggs, H, Gronell, A, Hosie, G, Furnas, M, Lee, R, Schulz, E, Tilbrook, B; A Ship of Opportunity Observation Network for the Oceans Around Australia; OceanObs'09 Conference, 21/09/2009 - 25/09/2009, Venice

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

Beggs, H, Gentemann, C, Steinle, P; Real-time skin sea surface temperature analyses for quality control of data assimilated into NWP models; 5th World Meteorological Organisation Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology, 05/10/2009 - 09/10/2009, Melbourne

Beggs, H, Verein, R, Paltoglou, G; Calibration and validation of AVHRR sea surface temperatures using observations from Ships of Opportunity; Oceans from Space, 26/04/2010 - 30/04/2010, Venice

Beggs, H, Verein, R, Paltoglou, G; Calibration and validation of AVHRR sea surface temperatures using observations from Ships of Opportunity; 11th GHRST Science Team Meeting, 21/06/2010 - 25/06/2010, Lima

Boomer, A, Huvneers, C, Goldsworthy, S, Hindell, MA, Semmens, J, Tattersall, K, Field, IC, Harcourt, R; Australian Animal Tagging and Monitoring System (AATAMS): higher predators providing sustained observations of the marine environment; Australian Marine Science Association Conference, 05/07/2010 - 08/07/2010, Woolongong

Cleeland, J, Hindell, MA, Lea, MA; The 'honeymoon' flights of the shot-tailed shearwater (*Puffinus tenuirostris*); Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Jaimie Cleeland

Downie, R, Ryan, T, Sutton, C, Kloser, R; Characterising micronekton communities of the Southern Ocean and Macquarie Ridge using multi-frequency acoustics and net systems.; 3rd International Forum of the Sub-Antarctic, 01/08/2011 - 02/08/2011, Commission for the Conservation of Antarctic Marine Living Resources, Hobart, Presenter(s): Ryan Downie

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

Castro, S, Wick, G, Beggs, H; Comparisons of observed and predicted diurnal warming in the Tropical Warm Pool using simplified parameterizations; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

Shadwick, E; Ocean productivity and aragonite saturation state enhanced by the calving of the Mertz Glacier; Planet Under Pressure Conference, 26/03/2012 - 29/03/2012, London, Presenter(s): Steve Rintoul, E Shadwick, Bronte Tilbrook, Guy Williams

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

Trull, T; The Southern Ocean Time Series Observatory; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Tom Trull

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

Watson, C, White, N, Church, JA, King, M, Burgette, R; Improving the tide gauge validation for the altimeter sea level climate record; Ocean Surface Topography Science Team (OSTST) 2013 Meeting, 08/10/2013 - 11/10/2013, Boulder, Presenter(s): Chris Watson

Watson, C, White, N, Church, JA, King, M, Burgette, R; Validating the satellite altimeter sea level climate record; American Geophysical Union (AGU) Fall Meeting, 09/12/2013 - 13/12/2013, San Fransisco, Presenter(s): Chris Watson

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

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

Beggs, H, Majewski, L, Griffin, C, King, E, Sisson, J; 23 years of sea surface temperature products from IMOS; 16th GHRSSST Science Team Meeting, 20/07/2015 - 24/07/2015, Noordwyk, Presenter(s): Helen Beggs

Beggs, H, Majewski, L, Griffin, C, King, E, Sisson, J; 23 years of sea surface temperature products from IMOS ; Australian Forum for Operational Oceanography, 21/07/2015 - 23/07/2015, Fremantle, Presenter(s): Helen Beggs

Balcazar, N, Klinck, H, Nieukirk, S, Mellinger, D, Tripovich, J, Dziak, R; Acoustics reveals the population structure of the elusive blue whale; 2015 Ecological Society of America (ESA) Annual Meeting, 09/08/2015 - 14/08/2015, Baltimore, Presenter(s): Naysa Balcazar

Kita, Y, Waseda, T, Schulz, E, Jansen, P, Nishida, T; Turbulence intensification of marine winds at midlatitude in the southern hemisphere; comparison with the northern hemisphere; Ocean Sciences Meeting, 21/02/2016 - 26/02/2016, New Orleans

Zhang, H, Beggs, H, Wang, XH, Kiss, A, Griffin, C; Seasonal patterns of sea surface temperature diurnal variation over the Tropical Warm Pool region; 17th GHRSSST Science Team Meeting, 06/06/2016 - 10/06/2016, Washington DC, Presenter(s): Helen Beggs

Beggs, H, Griffin, C, Majewski, L, King, E, Sisson, J; IMOS sea surface temperature products suitable for near-coastal applications; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Everett, JD, Richardson, A, Baird, ME, et, al.; Bridging the zooplankton gap between models and observations: the IMOS Zooplankton Ocean Observations and Modelling Task Team (ZOOM); Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

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

Reid, P, Sloyan, B, Spillman, CM, Argent, R; SST in Australia EEZ; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra

Clementson, L, Lynch, T, Kelly, P, Moore, D, Kay, R, Schroeder, T; Providing high quality chlorophyll-a data streams from moored observing systems over broad spatial and temporal scales ; Ocean Optics XXIII Conference, 23/10/2016 - 28/10/2016, Victoria, Presenter(s): L Clementson

Cancet, M, Griffin, DA, Lyard, F, et, al.; Assessment of the FES2014 tidal current atlas around Australia; Ocean Surface Topography Science Team (OSTST) Meeting, 31/10/2016 - 04/11/2016, La Rochelle, Presenter(s): Mathilde Cancet

Badis, Y, Klochova, T, Strittmatter, M, Garvetto, A, Murua, P, Ostrowski, M, et, al.; Hidden diversity in the oomycete genus *Olpidopsis* is a global threat to red algal cultivation; Oomycete Molecular Genetics Network Annual Meeting, 11/03/2017 - 14/03/2017, Asilomar, Presenter(s): Yacine Badis

Rigual-Hernandez, A, Trull, T, Flores, J-A, Kloster, M, Fuertes, MA, Armand, L; Southern Ocean sediment traps: novel applications for understanding ecosystem functioning and the biological pump; Polar Marine Science Gordon Research Seminar, 26/03/2017 - 31/03/2017, Ventura, Presenter(s): Andres Rigual-Hernandez

Antoine, D, Schroeder, T, Botha, N, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurements; International Ocean Colour Science Meeting, 15/05/2017 - 18/05/2017, Lisbon, Presenter(s): David Antoine

Huang, B, et, al.; Extended Reconstructed Sea Surface Temperature Version 5 (ERSSTV5): Upgrades, Validations and Intercomparisons; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): Boyin Huang

Zhou, X, Ignatov, A, Xu, F; Recent Improvement to the NOAA iQUAM2 System; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): X Zhou

### **Course Presentation**

Paltoglou, G, Beggs, H, Majewski, L; New Australian high resolution AVHRR SST products from the Integrated Marine Observing System; Australian Remote Sensing and Photogrammetry Conference, 13/09/2010 - 17/09/2010, Alice Springs, Presenter(s): George Paltoglou

McCauley, R, et, al.; Through water communications & sonar performance; Defence Science, Engineering and Technology Seminars, 27/10/2016 - 27/10/2016, Melbourne, Presenter(s): Rob McCauley

### **Key Note Speaker**

Beggs, H, Majewski, L, Paltoglou, G; Use of thermal infrared from space in operational systems; Oceans from Space, 26/04/2010 - 30/04/2010, Venice

Watson, C; Space Geodesy: Current techniques, challenges and some unsolved problems; Engineering Mathematics and Applications Conference (EMAC), 04/12/2011 - 07/12/2011, Sydney, Presenter(s): Chris Watson

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

Harcourt, R; Are animals the new oceanographers; Sea Life Trust Student Award Night, 27/10/2015 - 27/10/2015, Sydney Aquarium, Sydney, Presenter(s): Rob Harcourt

### Meeting Presentation

Gronell, A; XBT Fall rates; GTSP (Global Temperature-Salinity Profile Program) Meeting, 12/11/2007 - 12/11/2007, Hobart, Presenter(s): Ann Gronell

Ridgway, K; Monitoring the East Australian Current- a historical perspective and future plans; American Geophysical Union (AGU) Fall Meeting, 10/12/2007 - 14/12/2007, San Fransisco, Presenter(s): Ken Ridgway

Gronell, A, et, al.; Changing XBT fallrates and their influence on estimates of the ocean heat content; Ocean Sciences Meeting, 02/03/2008 - 07/03/2008, Orlando, Presenter(s): Ann Gronell

Beggs, H; Report from the Australian Regional Data Assembly Centre; 9th GHRSS-PP Science Team Meeting, 09/06/2008 - 13/06/2008, Perros-Guirec, Presenter(s): Helen Beggs

Majewski, L; Status of SSES at the Bureau of Meteorology; 9th GHRSS-PP Science Team Meeting, 09/06/2008 - 13/06/2008, Perros-Guirec, Presenter(s): Leon Majewski

Thresher, A; Quota Project; GTSP (Global Temperature-Salinity Profile Program) Meeting, 27/10/2008 - 27/10/2008, Honolulu, Presenter(s): Ann Thresher

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

Tilbrook, B; Australian surface CO<sub>2</sub> measurements; Surface Ocean CO<sub>2</sub> Atlas Project (SOCAT) Pacific Regional Meeting, 18/03/2009 - 20/03/2009, Tsukuba, Presenter(s): Bronte Tilbrook

Beggs, H, Majewski, L, Andreu-Burillo, I, Paltoglou, G, Verein, R; Report to GHRSS10 from Australia - BLUElink and IMOS; 10th GHRSS Science Team Meeting, 01/06/2009 - 01/06/2009, Santa Rosa, Presenter(s): Helen Beggs

Tilbrook, B; Review of LAS and QC of previous day; Surface Ocean CO<sub>2</sub> Atlas Project (SOCAT) Atlantic and Southern Ocean Regional Meeting, 25/06/2009 - 26/06/2009, Norwich, Presenter(s): Bronte Tilbrook

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

Thresher, A; GTSP Data Format Issues; JCOMM Steering Group Meeting for the Global Temperature –Salinity Profile Programme, 05/05/2010 - 07/05/2010, Oostende, Presenter(s): Ann Thresher

Thresher, A; Indian Ocean QC I; JCOMM Steering Group Meeting for the Global Temperature –Salinity Profile Programme, 05/05/2010 - 07/05/2010, Oostende, Presenter(s): Ann Thresher

Schulz, E, Josey, SA; Southern Ocean Air-Sea Fluxes: recent developments; CLIVAR/CliC/SCAR Southern Ocean Region Implementation Panel 6th Meeting, 14/06/2010 - 17/06/2010, Southampton, Presenter(s): Simon Josey

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; In-situ calibration: the potential benefits of single-pass, multi-site, data collection; Ocean Surface Topography Science Team (OSTST) Meeting, 18/10/2010 - 22/10/2010, Lisbon

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Updated results from the in situ calibration site in Bass Strait, Australia; Ocean Surface Topography Science Team (OSTST) Meeting, 18/10/2010 - 22/10/2010, Lisbon

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

Speer, K; Results of SOFS-NCEP validation; NSF Office of Polar Programs Advisory Committee Meeting, 10/11/2010 - 10/11/2010, Arlington, Presenter(s): Kevin Speer

Beggs, H, Verein, R, Paltoglou, G, Thomas, A; IMOS Ship SST Observations; 6th JCOMM Ship Observations Team Meeting, 11/04/2011 - 15/04/2011, Hobart, Presenter(s): Helen Beggs

Sloyan, B; IMOS long term monitoring of the East Australian Current; SPICE Science Planning Meeting, 13/04/2011 - 15/04/2011, Hobart, Presenter(s): Bernadette Sloyan

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

Beggs, H, Majewski, L, LeBorgne, P, Harris, A, Merchant, C, Paltoglou, G; GHRSSST Tropical Warm Pool Diurnal Variability Project (TWP+); 12th GHRSSST Science Team Meeting, 27/06/2011 - 01/07/2011, Edinburgh, Presenter(s): Helen Beggs

Hidas, MG; Integrated Marine Observing System (IMOS); 8th OceanSITES Steering Team Meeting, 01/12/2011 - 02/12/2011, La Jolla, Presenter(s): Marty Hidas

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

Beggs, H, Majewski, L; Satellite SST and SST Verification; BLUElink III Science Meeting, 30/10/2012 - 31/10/2012, Hobart, Presenter(s): Helen Beggs

Brando, V; Ocean colour validation in Australian waters; Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): Vittorio Brando

King, E; National remote sensing data sets; Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): Edward King

Ridgway, K; Observing the interannual and decadal variability of the East Australian Current; Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): Ken Ridgway

Trull, T; Net community production at the Southern Ocean Time Series; Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): Tom Trull

Schulz, E; Observations for understanding ocean-atmosphere interactions; American Association for the Advancement of Science (AAAS) annual meeting - , 14/02/2013 - 18/06/2013, Boston, Presenter(s): Eric Schulz

McCauley, R; Demonstration of IMOS Passive Acoustics web interface; Southern Ocean Research Partnership/International Whaling Commission pre-scientific meeting, 31/05/2013 - 02/06/2013, Jeju Island, Presenter(s): Rob McCauley

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

Watson, C, White, N, Church, JA, Beardsley, J, King, M, Coleman, R; Ongoing monitoring of absolute bias from the Australian in-situ calibration sites: Bass Strait and Storm Bay; Ocean Surface Topography Science Team (OSTST) 2013 Meeting, 08/10/2013 - 11/10/2013, Boulder, Presenter(s): Chris Watson

Beggs, H, Dekker, AG; Australian ship sea surface temperature for Sentinel-3 SLSTR validation; Setinel-3 Validation Team 1st Meeting, 26/11/2013 - 29/11/2013, Frascati, Presenter(s): Helen Beggs

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

Kloser, R, Keith, G, Sutton, C, Ryan, T, Downie, R; A decade of Tasman Sea bioacoustics; ICES Working Group on Fisheries Acoustics Science and Technology (WGFAST) Meeting, 05/05/2014 - 09/05/2014, Massachusetts, Presenter(s): Rudy Kloser



Ryan, T, Kloser, R, Sherlock, M, Cordell, J, Marouchos, A; From nekton to micro-nekton - applications and challenges with deepwater quantitative acoustic-optical measurements; ICES Working Group on Fisheries Acoustics Science and Technology (WGFAST) Meeting, 05/05/2014 - 09/05/2014, Massachusetts, Presenter(s): Tim Ryan

Beggs, H; GHRSSST Satellite SST Products in BLUElink - Current and Future; BLUElink III Science Meeting, 06/05/2014 - 07/05/2014, Melbourne, Presenter(s): Helen Beggs

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

Beggs, H, Barton, I, Griffin, C, Majewski, L, Smith, G, Siddique, A; Report from Australia to GHRSSST-XV; 15th GHRSSST Science Team Meeting, 02/06/2014 - 06/06/2014, Cape Town, Presenter(s): Helen Beggs

Griffin, C, Beggs, H, Majewski, L; ABoM SSES - applying in situ regressed SSES to in situ regressed SST retrievals over the Australian region; 15th GHRSSST Science Team Meeting, 02/06/2014 - 06/06/2014, Cape Town, Presenter(s): Helen Beggs

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

Watson, C, White, N, Church, JA, King, M, Burgette, R; Refining satellite era estimates of global mean sea level rise; Australian Geodesy Meeting, 01/07/2014 - 02/07/2014, Canberra, Presenter(s): Chris Watson

Harcourt, R; White Sharks, Australian Animal Tracking and global links through the Ocean Tracking Network; Shark Mitigation Strategies and Alternatives Briefing, 16/07/2014 - 16/07/2014, Canberra, Presenter(s): Rob Harcourt

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

Beggs, H, Griffin, C, Majewski, L, Sisson, J; Report from the Australian RDAC to GHRSSST-XVI; 16th GHRSSST Science Team Meeting, 20/07/2015 - 24/07/2015, Noordwyk, Presenter(s): Helen Beggs

Watson, C, White, N, Church, JA, King, M, Burgette, R; Sea level rise; Surveying & Spatial Sciences Institute State Congress, 24/07/2015 - 24/07/2015, Hobart, Presenter(s): Chris Watson

Tilbrook, B, Steven, A, Neill, C, Berry, K, Passmore, A; Future Reef MAP; Rio Tinto and Great Barrier Reef Foundation meeting, 29/10/2015 - 29/10/2015, Brisbane, Presenter(s): Bronte Tilbrook

Beggs, H, Griffin, C, Sisson, J, Govekar, P; IMOS AVHRR SST on-line validation; 17th GHRSSST Science Team Meeting, 06/06/2016 - 10/06/2016, Washington DC, Presenter(s): Helen Beggs

Griffin, C; Harmonized quality assessments using GHRSSST SSES; 17th GHRSSST Science Team Meeting, 06/06/2016 - 10/06/2016, Washington DC, Presenter(s): Christopher Griffin

Kloser, R; Acoustic observations, biological challenges and technological opportunities; CSIRO Meeting, 01/09/2016 - 01/09/2016, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Rudy Kloser

Cancet, M, Bonnefond, P, Haines, BJ, et, al.; Regional in situ Cal/Val of satellite altimeter range at non-dedicated calibration sites; Ocean Surface Topography Science Team (OSTST) Meeting, 31/10/2016 - 04/11/2016, La Rochelle, Presenter(s): Mathilde Cancet

Watson, C, Legresy, B, Church, JA, King, M, Santamaria-Gomez, A; Validating the altimeter sea level record using tide gauges and estimates of land motion; Ocean Surface Topography Science Team (OSTST) Meeting, 31/10/2016 - 04/11/2016, La Rochelle, Presenter(s): Chris Watson

Watson, C, Legresy, B, King, M, Church, JA, Beardsley, J, Hetzel, Y; Altimeter absolute bias estimates from Bass Strait, Australia; Ocean Surface Topography Science Team (OSTST) Meeting, 31/10/2016 - 04/11/2016, La Rochelle, Presenter(s): Chris Watson

Zhang, Y; IMOS passive acoustic data for sonar performance evaluation; DSTG Adelaide presentation, 22/11/2016 - 22/11/2016, Adelaide, Presenter(s): Y Zhang

Malthus, T, Thankappan, M, Schroeder, T, Mitchell, R; Australian contributions to the Sentinel-2 Cal/Val effort; 1st Sentinel-2 Validation Team Meeting, 28/11/2016 - 29/11/2016, Frascati, Presenter(s): Tim Malthus

Ma, J, Feng, M; Model-based design of the overturning circulation observation strategies; IIOE-2 Steering Committee Meeting No 1, 02/02/2017 - 04/02/2017, Perth, Presenter(s): Jie Ma

Cahill, M; Validating coastal altimetry on the Great Australian Bight; 10th Coastal Altimetry Meeting, 21/02/2017 - 24/02/2017, Florence, Presenter(s): Madeleine Cahill

Cowley, R; Monitoring and data centre reports - Global temperature and Salinity Profile Programme (GTSP); 9th Session of the Ship Observations Team, 27/03/2017 - 31/03/2017, London, Presenter(s): Rebecca Cowley

Cowley, R; SOOP Programme activity reports (including implementation status) - Report by the SOOPIP Chairperson ; 9th Session of the Ship Observations Team, 27/03/2017 - 31/03/2017, London, Presenter(s): Rebecca Cowley

Ryan, T, Kloser, R, Downie, R, Keith, G; IMOS BA-SOOP bi-acoustic processing methods; ICES Working Group on Quality of Acoustic Data (WKQUAD), 31/03/2017 - 31/03/2017, Nelson, Presenter(s): Tim Ryan

Downie, R, Kloser, R, Ryan, T, et, al.; Basin scale bio-acoustic observing and change detection: from little things big things grow; ICES Working Group on Fisheries Acoustics Science and Technology, 03/04/2017 - 07/04/2017, Nelson, Presenter(s): Ryan Downie

Ostrowski, M; A marine microbial observatory: BPA marine microbes - Pelagic project; NSW IMOS Community Meeting and RAAP Project Update, 08/05/2017 - 08/05/2017, Sydney Institute for Marine Science, Sydney, Presenter(s): Martin Ostrowski

Beggs, H, Govekar, P, Griffin, C, Majewski, L; Plans for new Himawari-8 and VIIRS SST Products from IMOS; Bluelink Science Meeting, 16/05/2017 - 17/05/2017, Melbourne, Presenter(s): Helen Beggs

Bodrossy, L; Genomics for estuarine status assessment; National Estuarine Network meeting, 22/05/2017 - 22/05/2017, Townsville, Presenter(s): Lev Bodrossy

Beggs, H, Sisson, J; IMOS Ship SST for Satellite SST Validation; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): Helen Beggs

Govekar, P, Griffin, C, Beggs, H, Majewski, L; Use of ACSPO VIIRS L3U SSTs in the Australian Bureau of Meteorology; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): Pallavi Govekar

Liu, C, Angel, W, Freeman, E, et, al.; The improvement of ICOADS3.0 and its application to DOISST; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): C Liu

Schallenberg, C, Trull, T, Jansen, P; Southern Ocean Time Series Bio-optical QC; QA, QC and Product Summit, 05/06/2017 - 09/06/2017, South Australian Research and Development Institute, Adelaide, Presenter(s): Christina Schallenberg

Zhang, H, Beggs, H, Wang, XH, Rodriguez, J, et, al.; Comparison of SST Diurnal Variation Models over the Tropical Warm Pool; 18th GHRSSST Science Team Meeting, 05/06/2017 - 09/06/2017, Qingdao, Presenter(s): Haifeng Zhang

Benthuisen, J; Oceanography of Northern Australia; temperature loggers, moorings, gliders, and thermosalinograph results highlighted; Dhimurru Aboriginal Corporation, 20/06/2017 - 20/06/2017, Nhulunbuy, Presenter(s): Jessica Benthuisen

Benthuisen, J; Oceanography of Northern Australia; temperature loggers, moorings, gliders, and thermosalinograph results highlighted; Anindilyakwa Land and Sea Rangers, 21/06/2017 - 21/06/2017, Alyangula, Presenter(s): Jessica Benthuisen

## 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

Session Chair - GTSP Data Issue - II; GTSP (Global Temperature-Salinity Profile Program) Meeting, 27/10/2008 - 27/10/2008, Honolulu, Presenter(s): Ann Thresher

Session Co-Chairs - Standardisation of Quality Control; JCOMM Steering Group Meeting for the Global Temperature-Salinity Profile Programme, 05/05/2010 - 07/05/2010, Oostende, Presenter(s): Charles Sun, Ann Thresher

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

Session Chair - XBT Workshop; Sixth Session of the JCOMM Ship Observations Team (SOT) , 11/04/2011 - 15/04/2011, Hobart, Presenter(s): Ann Thresher

Session Chair - TG-AcMetadata; ICES Working Group on Fisheries Acoustics Science and Technology Annual Meeting, 10/05/2011 - 13/05/2011, Reykjavik, Presenter(s): Tim Ryan

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

Session Co-Chairs - XBT Fall rate corrections; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Rebecca Cowley, Ann Thresher

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

Trebaul, J-P; Satellite altimetry Cal/Val at the Australian Bass Strait site in the context of the new missions Jason-3 and Sentinel-3; CSIRO Public Seminar, 16/07/2015 - 16/07/2015, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): J-P Trebaul

### **Symposium Presentation**

Hosie, G, Kitchener, JA, McLeod, DJ, Takahashi, KT, Hunt, BPV, How, J; Circum-Antarctic zooplankton patterns as determined by Continuous Plankton Recorder; 10th SCAR Biology Symposium, 27/07/2009 - 31/07/2009, Sapporo, Presenter(s): Graham Hosie

McLeod, DJ, Takahashi, KT, Hosie, G, Kitchener, JA, et, al.; The Distribution of key zooplankton taxa in the Southern Ocean: The Southern Ocean Continuous Plankton Recorder Atlas; 10th SCAR Biology Symposium, 27/07/2009 - 31/07/2009, Sapporo, Presenter(s): Graham Hosie

Hosie, G; Changes in Southern Ocean Zooplankton. Local changes in a global context; Symposium on Antarctic-South American Interactions in the Marine Environment, 05/11/2009 - 06/11/2009, Rio de Janeiro, Presenter(s): Graham Hosie

Hindell, MA; Foraging habitats of top predators, and areas of ecological significance, on the Kerguelen Plateau; International Science Symposium on the Kerguelen Plateau, 14/04/2010 - 16/04/2010, Concarneau, Presenter(s): Mark Hindell

Trull, T; Quantifying the biological carbon pump using SOTS observations; ACE CRC Annual Symposium Carbon Program, 19/08/2010 - 19/08/2010, Antarctic Climate and Ecosystems Cooperative Research Centre, Hobart, Presenter(s): Tom Trull

Hindell, MA; From physics to predators: how Antarctic birds and mammals are influenced by the Southern Ocean; Phillip Law Commemorative Antarctic Science Symposium - Going South, 15/09/2010 - 15/09/2010, Melbourne, Presenter(s): Mark Hindell

Hosie, G, Raymond, B, Takahashi, KT, Lida, T, Kitchener, JA, McLeod, DJ; The variability of zooplankton community structure in the Southern Ocean based on Continuous Plankton Recorder data; 32nd Symposium on Polar Biology, 30/11/2010 - 01/12/2010, Tokyo, Presenter(s): Graham Hosie

Harcourt, R, Field, IC, Hindell, MA, Lea, MA, Goldsworthy, S, Page, B, Boomer, A; The Australian Animal Tagging and Monitoring System (AATAMS): time for us to grow up and share the data; Biologging Science Symposium IV, 14/03/2011 - 18/03/2011, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Rob Harcourt

Paltoglou, G, Majewski, L, Beggs, H; New Australian high resolution AVHRR SST Products from the Integrated Marine Observing System; 34th International Symposium on Remote Sensing of the Environment, 11/04/2011 - 15/04/2011, Sydney, Presenter(s): George Paltoglou

Field, IC, Mattlin, R; Biologging through the Australian Animal Tracking and Monitoring System: Monitoring predators to identify key oceanographic features and areas of ecological significance for assessing biological responses to environmental change; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Iain Field

Hosie, G, Mormede, S, Richardson, A, Hall, J; Australia, NZ role in the global Alliance of CPR Surveys and Southern Ocean CPR Consortium; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Graham Hosie

Kloser, R, O'Driscoll, R; Bio-acoustic observations for ecosystem characterisation; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Rudy Kloser

Nodder, SM, Schulz, E, Trull, T; Deep-ocean observatories and biogeochemical and biophysical time-series data: New Zealand-Australia and international linkages; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Scott Nodder

Schulz, E, Smith, M, Boyd, PW; Regional ships of opportunity: Ship-based air-sea flux and Aeolian dust measurements in the seas around New Zealand and Australia; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Eric Schulz

Sutton, P, Ridgway, K, Pattiaratchi, C; Trans Tasman glider deployments; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Philip Sutton

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

Tilbrook, B, Currie, K; New Zealand and Australian integrated network for sustained observations of ocean carbon fluxes and acidification; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Bronte Tilbrook

Tilbrook, B, Currie, K, Smith, M; Sustained observing network for ocean carbon and acidification; Australia-NZ Symposium, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Bronte Tilbrook

Shadwick, E; Carbon cycling in the Mertz Polynya; ACE CRC Annual Symposium, 08/03/2012 - 09/03/2012, Hobart, Presenter(s): Steve Rintoul, E Shadwick, Bronte Tilbrook

Hindell, MA; From physics to predators: how Antarctic birds and mammals are influenced by the Southern Ocean; Centennial Antarctic Symposium, 29/06/2012 - 29/06/2012, Shanghai Ocean University, Shanghai, Presenter(s): Mark Hindell

Hindell, MA, Fedak, M, Bailleul, F, Bester, M, Biuw, M, Boehme, L, Charrassin, J-B, Costa, D, Field, IC, Guinet, C, Huckstadt, L, Muelbert, M, Lydersen, C, McIntyre, T, Ploetz, J, Roquet, F, Williams, G, Kovacs, K; Three dimensional habitat structure in southern elephant seals; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Mark Hindell

Hosie, G, Batten, S, Chiba, S, Edwards, M, Fukuchi, M, Hall, J, Melrose, C, Muxagata, E, Richardson, A, Verheye, H, Burkill, P; Global Alliance of Continuous Plankton Recorder Surveys (GACS): placing local/regional monitoring in a global context; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Graham Hosie

King, E, Clementson, L, Brando, V, Besnard, L, Blondeau-Patissier, D, Anstee, J, Wilkes, L; New Remote Sensing Products with national Coverage from IMOS; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): L Clementson

McLeod, DJ, Hallegraeff, GM, Hosie, G, Richardson, A; Climate-driven range expansion of the red-tide dinoflagellate *Noctiluca scintillans* into the Southern Ocean; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): David McLeod

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

Thresher, RE, Fallon, S, Neil, H, Morrongiello, J; Inferred changes in the EAC since the mid-1800s: trans-Tasman coral proxy records and evidence of changing fish growth; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Ronald Thresher

Trull, T; Iron enrichment enhances phytoplankton biomass but not surface carbon export in the subantarctic Southern Ocean; AMSA-NZMSS (Australian Marine Sciences Association and New Zealand Marine Science Society) Conference, 01/07/2012 - 07/07/2012, Hobart, Presenter(s): Tom Trull

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

Ridgway, K; Observing the interannual and decadal variability of the East Australian Current; Open Science Symposium on Western Pacific Ocean Circulation and Climate, 15/10/2012 - 17/10/2012, Qingdao, Presenter(s): Ken Ridgway

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

Trull, T, Weeding, B; Estimating the seasonal cycle of net community production in the subantarctic Southern Ocean from moored gas sensors; 45th International Liege Colloquium on Ocean Dynamics, 13/05/2013 - 17/05/2013, Liege, Presenter(s): Tom Trull

Bestley, S, Cox, MJ, Jonsen, I, Gales, N, Nicol, S, Hindell, MA, Harcourt, R; Quantifying links between bio-physical processes, krill and predators; 11th SCAR Biology Symposium, 15/07/2013 - 19/07/2013, Barcelona, Presenter(s): Sophie Bestley

Beggs, H, Griffin, C, Majewski, L, Siddique, A; Twenty one years of 1km resolution AVHRR Sea Surface Temperature data over the Antarctic region; IGS 2014 International Symposium on Sea Ice in a Changing Environment, 09/03/2014 - 14/03/2014, Hobart, Presenter(s): Helen Beggs

Shadwick, E; Advances in the understanding of Southern Ocean CO<sub>2</sub> uptake; ACE-CRC Annual Symposium, 04/06/2014 - 04/06/2014, Hobart, Presenter(s): E Shadwick

Beggs, H, Griffin, C, Majewski, L, King, E, Sisson, J; A multi-decadal, coastal sea surface temperature product for Australia - why we need it; Blue Planet Symposium, 27/05/2015 - 29/05/2015, Cairns, Presenter(s): Helen Beggs

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

Baldry, K, Hardman-Mountford, NJ, Greenwood, J, Tilbrook, B; Remotely-sensed estimation of alkalinity in coastal waters around Australia; 4th Oceans in a high CO<sub>2</sub> World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): K Baldry

Conde-Pardo, P, Tilbrook, B; Biogeochemical change in the Southern Ocean, South of Tasmania; 4th Oceans in a high CO<sub>2</sub> World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): Paula Conde-Pardo

Davidson, S, Westwood, KJ, Thomson, P, Deppeler, S, Pascoe, P, Wright, SW, Pearce, I, Van den Eenden, M, Johnson, R, Schulz, K, Tilbrook, B, De Salas, M; Variability in response of Antarctic marine microbes to enhanced pCO<sub>2</sub>; 4th Oceans in a high CO<sub>2</sub> World Symposium, 03/05/2016 - 06/05/2016, Hobart, Presenter(s): S Davidson

Kloser, R, van Ruth, P; Theme 2 - Pelagic ecosystems and environmental drivers; Great Australian Bight Research Project Annual Symposium, 01/08/2016 - 01/08/2016, Adelaide, Presenter(s): Rudy Kloser

Middleton, J, Griffith, G; Theme 1 - Oceanography and waves; the Sciences that underpin; Great Australian Bight Research Project Annual Symposium, 01/08/2016 - 01/08/2016, Adelaide, Presenter(s): John Middleton

Messer, L, Brown, MV, Schaeffer, A, Siboni, N, Jeffries, TC, Ingleton, T, Mahaffey, C, Seymour, JR; A subtropical western boundary current drives the phenology of nitrogen fixation in temperate coastal waters; 16th International Symposium on Microbial Ecology (ISME), 21/08/2016 - 26/08/2016, Montreal, Presenter(s): Lauren Messer

Tilbrook, B, Steven, A, Neill, C, Berry, K, et, al.; Ocean acidification on the Great Barrier Reef; The Future of Marine Ecosystems, 08/10/2016 - 10/10/2016, Hobart, Presenter(s): Bronte Tilbrook

Brown, MV; Detecting, predicting and modelling change in microbiomes; Theo Murphy Frontiers of Science Symposium, 29/11/2016 - 01/12/2016, Adelaide, Presenter(s): Mark Brown

Tilbrook, B; The Global Ocean Acidification Observing Network; GEOSS Asia-Pacific Symposium, Earth observations supporting the implementation of the SDGs in the Asia Pacific Region, 11/01/2017 - 13/01/2017, Tokyo, Presenter(s): Bronte Tilbrook

Ostrowski, M, Bodrossy, L, Thomas, T, Brown, MV, Van De Kamp, J, Seymour, JR, Bissett, A, Kahlke, T, Goossen, K, Fitzgerald, A, Moltmann, T; Marine Microbes: a foundation for discovery and baseline for the next generation of ecosystem molecular tools; NCRIS Greater impact through environmental infrastructure symposium, 16/05/2017 - 18/05/2017, Canberra, Presenter(s): Martin Ostrowski

## **Webinar**

Uribe-Palomino, J; What is in a mouthful of water?; CSIRO/IMOS Plankton Video, Brisbane, Presenter(s): Julian Uribe-Palomino

## **Workshop Presentation**

Trull, T; Australian Southern Ocean carbon cycle research - developing opportunities for collaboration; Ocean Carbon and Biogeochemistry Workshop, 10/07/2006 - 13/07/2006, Woods Hole Oceanographic Institute, Woods Hole, Presenter(s): Tom Trull

Gronell, A; XBT metadata effects on fall rate corrections; NOAA XBT Fall Rate Workshop, 10/03/2008 - 12/03/2008, Miami, Presenter(s): Ann Gronell

Wijffels, S; Impact of fall rate on estimates of the steric component of sea level rise; NOAA XBT Fall Rate Workshop, 10/03/2008 - 12/03/2008, Miami, Presenter(s): Susan Wijffels

Schulz, E; An Australian contribution to SAMOS and GOSUD; 2nd GOUSD/SAMOS Workshop, 10/06/2008 - 12/06/2008, Seattle, Presenter(s): Eric Schulz

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

Trull, T; SOTS science goals and design parameters; Changing Times: International Ocean Biogeochemical Time-series Workshop, 05/11/2008 - 07/11/2008, Scripps Institution of Oceanography, San Diego, Presenter(s): Tom Trull

Pender, L, Trull, T, McLaughlin, D, Griffiths, B; SOTS design goals ; Office of Naval Research/Marine Technology Society - Buoy Workshop, 04/03/2009 - 06/03/2009, St. Louis, Presenter(s): L Pender

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 PEOODAS; 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

Schulz, E; Air-Sea Flux verification over the ocean; ACCESS Model Evaluation Workshop, 29/04/2010 - 29/04/2010, Bureau of Meteorology, Melbourne, Presenter(s): Eric Schulz

Hosie, G, et, al.; Southern Ocean CPR Survey Data; CAML/SCAR Biogeographic Synthesis Workshop, 18/05/2010 - 21/05/2010, Villefranch-sur-mer, Presenter(s): Graham Hosie

Williams, G; New insights into polynya dynamics from seal-mounted CTDs; SASSI Workshop, International Polar Year Science Conference, 07/06/2010 - 07/06/2010, Oslo, Presenter(s): Guy Williams

Bowie, AR; The need for observing the ocean at high temporal frequency to determine ocean carbon uptake and resultant ocean acidification; ACE CRC Research Users Forum, 15/06/2010 - 17/06/2010, Canberra, Presenter(s): Tom Trull

Neill, C; Underway pCO<sub>2</sub> system developments; Southern and Indian Ocean Surface Ocean Carbon Dioxide Atlas (SOCAT) Workshop, 16/06/2010 - 18/06/2010, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Craig Neill

Tilbrook, B; Future plans: Southern and Indian Ocean observations Australia; Southern and Indian Ocean Surface Ocean Carbon Dioxide Atlas (SOCAT) Workshop, 16/06/2010 - 18/06/2010, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Bronte Tilbrook

Trull, T; Advantages of basing international process studies in the well monitored waters south of Australia; ISIS Consortium Workshop on Ocean Iron Fertilization Research, 12/07/2010 - 14/07/2010, Woods Hole Oceanographic Institute, Woods Hole, Presenter(s): Tom Trull

Trull, T; Australian SAZ Programs; Workshop on the Seasonal Cycle of the Carbon-Climate System in the Southern Ocean, 23/08/2010 - 25/08/2010, Cape Town, Presenter(s): Tom Trull

Cowley, R, Wijffels, S, Boyer, T, Kizu, S; A new view of biases in historical expendable bathythermograph data based on side-by-side comparisons; XBT Bias and Fall Rate Workshop , 25/08/2010 - 27/08/2010, Hamburg, Presenter(s): Rebecca Cowley

Thresher, A, Sun, C, Snowden, D; Requirements for a new NetCDF format for Upper Ocean Temperature (UOT) data; XBT Bias and Fall Rate Workshop , 25/08/2010 - 27/08/2010, Hamburg, Presenter(s): Rebecca Cowley

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

Field, IC, Harcourt, R, Hindell, MA; Biologging and the Australian Acoustic Tracking and Monitoring System (AATAMS); Ocean Tracking Network (OTN) Data Management Committee Workshop, 06/11/2010 - 07/11/2010, Halifax, Presenter(s): Iain Field

Hosie, G, McLeod, DJ; Expert group on CPR research; Southern Ocean CPR Standards Workshop, 22/11/2010 - 26/11/2010, Tokyo

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Absolute calibration in Bass Strait, Australia: methods applied and lessons learnt; Deformation Monitoring & Satellite Altimetry Workshop GNSS, 20/01/2011 - 21/01/2011, Chania

Beggs, H, Majewski, L, LeBorgne, P, Harris, A, Merchant, C, Paltoglou, G; GHRSSST Tropical Warm Pool Diurnal Variability Project (TWP+); 6th GHRSSST Diurnal Variability Working Group Workshop, 28/02/2011 - 28/02/2011, Boulder, Presenter(s): Helen Beggs

Beggs, H, Verein, R, Paltoglou, G, Thomas, A; Using IMOS Ship SST Observations for Validation of Satellite SST Observations; GHRSSST SST Validation Working Group Workshop, 01/03/2011 - 01/03/2011, Boulder, Presenter(s): Helen Beggs

Paltoglou, G, Majewski, L, Beggs, H; New Australian SST Products from the Australian Bureau Of Meteorology and the Integrated Marine Observing System; GHRSSST SST Validation Working Group Workshop, 01/03/2011 - 01/03/2011, Boulder

Steinberg, C, Wijffels, S, Sloyan, B, Hill, K, Moltmann, T; IMOS Timor Leste Indonesian Through Flow Observations; Arafura and Timor Seas Expert Forum Workshop, 24/03/2011 - 24/03/2011, Dili, Presenter(s): Craig Steinberg

Kloser, R; Toward a global observation and modelling system for studying the ecology of the open ocean using acoustics; EurOceans Foresight Workshop, 03/05/2011 - 06/05/2011, Bergen, Presenter(s): Rudy Kloser

Kloser, R, McCauley, R; Sustained ecosystem monitoring using passive and active acoustics; ICES Working Group on Fisheries Acoustics Science and Technology Annual Meeting, 10/05/2011 - 13/05/2011, Reykjavik, Presenter(s): Rudy Kloser

Ryan, T, Kloser, R; Processing of acoustic data for a ship of opportunity ocean observing system ; ICES Working Group on Fisheries Acoustics Science and Technology Annual Meeting, 10/05/2011 - 13/05/2011, Reykjavik, Presenter(s): Rudy Kloser

Thresher, A; GTSP data management in Australia; GTSP Data Management Workshop, 07/06/2011 - 09/06/2011, Washington DC, Presenter(s): Ann Thresher

Beggs, H; Use and requirements for XBT surface temperature observations by the Group for High Resolution SST (GHRSSST); XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Helen Beggs

Cowley, R; A new analysis of fall-rate coefficients in historical XBT data based on side-by-side comparisons; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Rebecca Cowley

Cowley, R; A New View of XBT Biases; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Rebecca Cowley

Domingues, CM; The importance of XBT data to climate studies; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Catia Domingues

Hill, K; Decadal changes in the East Australian Current system - the relationship to changes in the South Pacific Gyre; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Katy Hill

Oke, PR; Observing system evaluation activities under GODAE Ocean View; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Peter Oke

Rintoul, S; On the Southern Ocean; XBT Science Workshop, 07/07/2011 - 08/07/2011, Melbourne, Presenter(s): Steve Rintoul

Hosie, G, Richardson, A; Workshop on going global: internationalising the Continuous Plankton Recorder Survey; Plankton Symposium: Plankton Biodiversity and Climate Change, 22/09/2011 - 23/09/2011, Plymouth, Presenter(s): Graham Hosie, Anthony Richardson

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; IMOS Sub-Facility 11e Satellite Altimeter Calibration and Validation; Workshop of the National Satellite Calibration Working Group, 03/11/2011 - 03/11/2011, Commonwealth Scientific Industrial Research Organisation, Canberra, Presenter(s): Chris Watson

Schulz, E, Smith, M, Boyd, PW, McTainsh, G; Ship-based air-sea flux & Aeolian dust measurements in the seas around New Zealand and Australia; The New Zealand-Australia Symposium in Ocean Observing and Data Management, 05/12/2011 - 06/12/2011, Hobart, Presenter(s): Eric Schulz

Beggs, H, Paltoglou, G, Verein, R; Ship SST data for satellite SST and ocean model validation below 40°S; GHRSSST Joint Workshop on Tropical Warm Pool and High Latitude SST Issues, 05/03/2012 - 09/03/2012, Melbourne

McCauley, R; The marine soundscape; Effect of Noise on Fish, Fisheries and invertebrate BOEMRE Workshop, 20/03/2012 - 22/03/2012, San Diego, Presenter(s): Rob McCauley

Watson, C, White, N, Church, JA, Burgette, R, Tregoning, P, Coleman, R; Possible Australian Contributions: Sentinel-3 SSH Calibration and Validation, Global Monitoring for Environment and Securing (GMES); Sentinel-3 Calibration and Validation Planning Workshop, 20/03/2012 - 22/03/2012, Frascati, Presenter(s): A Dekker

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

King, E; National remote sensing data set production and access; Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): Edward King

McLeod, DJ, Coman, F, Davies, C, Hosie, G, McLaughlin, D, Murphy, N, Rochester, W, Slotwinski, A, Strzelecki, J, Tonks, M, Richardson, A; Plankton Observing in Australia: the Australian Continuous Plankton Recorder (AusCPR); Bluewater & Climate Node Science Meeting, 28/11/2012 - 29/11/2012, Hobart, Presenter(s): David McLeod

White, N, Church, JA, Watson, C; Satellite altimeter calibration; Earth Observation and Informatics Transformational Capability Workshop, 01/03/2013 - 01/03/2013, Sydney, Presenter(s): Neil White

Cowley, R; QC procedures for RDI ADCPs; Australian National Mooring Network QC Summit Meeting, 11/12/2013 - 12/12/2013, Hobart, Presenter(s): Rebecca Cowley

Hindell, MA; Animal oceanographers in SOOS; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Mark Hindell

Hindell, MA; Marine mammals collect under-ice data during winter in the Southern Ocean; Partnership for Observation of the Global Oceans (POGO), 21/01/2014 - 24/01/2014, Hobart, Presenter(s): Mark Hindell



Ghantous, M; Applications of the wave induced mixing, historical and current; COEST/CSIRO Workshop: Deep-water Oceanographic Buoys: Deployments, Measurements, Outcomes, 05/05/2014 - 06/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Malek Ghantous

Jansen, P; Mooring design of the Southern Ocean buoy; COEST/CSIRO Workshop: Deep-water Oceanographic Buoys: Deployments, Measurements, Outcomes, 05/05/2014 - 06/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Peter Jansen

Jansen, P; Southern Ocean Time Series (SOTS); COEST/CSIRO Workshop: Deep-water Oceanographic Buoys: Deployments, Measurements, Outcomes, 05/05/2014 - 06/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Peter Jansen

Rapizo, H; Wave and current measurements at SOFS; COEST/CSIRO Workshop: Deep-water Oceanographic Buoys: Deployments, Measurements, Outcomes, 05/05/2014 - 06/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Henrique Rapizo

Ryan, T, Kloser, R, Downie, R, Keith, G; Quality assurance of acoustic data products from multiple vessels in a range of sea states; ICES Working Group on Fisheries Acoustics Science and Technology (WGFAST) Meeting, 05/05/2014 - 09/05/2014, Massachusetts, Presenter(s): Tim Ryan

Schulz, E; Atmosphere, wave and ocean observations at the Southern Ocean Flux Station; COEST/CSIRO Workshop: Deep-water Oceanographic Buoys: Deployments, Measurements, Outcomes, 05/05/2014 - 06/05/2014, Commonwealth Scientific Industrial Research Organisation, Hobart, Presenter(s): Eric Schulz

McMahon, C, Harcourt, R; AATAMS - Biologging - what is it, what is available data wise - services provided to research community; SIMS Workshop, 29/07/2014 - 30/07/2014, Sydney Institute for Marine Science, Sydney, Presenter(s): Clive McMahon

Tilbrook, B; Ocean acidification observing system; UN Small Island Developing States Ocean Acidification Workshop, 28/08/2014 - 29/08/2014, Apia, Presenter(s): Bronte Tilbrook

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

Legresy, B, Church, JA, White, N, Monselesan, D, Slangen, A; Sensitivity of sea-level rise reconstruction from tide gauges; Workshop on Global and Regional Sea Level Variability and Change, 10/06/2015 - 12/06/2015, Majorca, Presenter(s): Benoit Legresy

Bestley, S; Working group on animal movement prediction 2015 (AMP2015) - first meeting final report; Working group on Animal Movement Prediction 2015 (AMP2015), 15/06/2015 - 18/06/2015, St. Andrews, Presenter(s): Sophie Bestley

Beggs, H, Griffin, C, Majewski, L, Sisson, J, King, E, Kruger, G, Siddique, A, Freeman, J; New IMOS-GHRST Sea Surface Temperature products suitable for near-coastal applications; CAWCR Seminar, Bureau of Meteorology, 21/09/2015 - 21/09/2015, Melbourne, Presenter(s): Helen Beggs

Schulz, E, Weller, E, Trull, T; Sustained Southern Ocean air-sea flux mooring observations: past and future challenges; SOOS Air-Sea Flux Workshop, 21/09/2015 - 23/09/2015, Frascati, Presenter(s): Eric Schulz

Hindell, MA, Ropert-Coudert, Y, Bornemann, H, Jonsen, I, Trathan, P, Lea, MA, Wotherspoon, S, Huckstadt, L, Reisinger, R, Putte, VD; A multidisciplinary workshop of the Expert Group on Birds and Marine Mammals; Second Scar Retrospective Analysis of Antarctic Tracking Data Workshop, 04/04/2016 - 06/04/2016, Delmenhorst, Presenter(s): Mark Hindell

Fielding, S, Thomas, J, Anderson, C, Conchon, A, Cossio, A, Dunsford, A, Escobar Flores, P, Horne, J, Jarvis, T, Kloser, R, Ryan, T; Acoustic processing and methods workshop; Southern Ocean Network of Acoustics (SONA) Workshop, 24/04/2016 - 25/04/2016, Vigo, Presenter(s): Sophie Fielding

Kloser, R; Australia's integrated observing system - bioacoustics; Southern Ocean Network of Acoustics (SONA) Workshop, 24/04/2016 - 25/04/2016, Vigo, Presenter(s): Rudy Kloser

Ryan, T, Kloser, R, Downie, R, Keith, G; Sona workshop: discussion presentation for quality assurance of acoustic data products from multiple vessels in a range of sea states; Southern Ocean Network of Acoustics (SONA) Workshop, 24/04/2016 - 25/04/2016, Vigo, Presenter(s): Tim Ryan

Tilbrook, B; Global ocean acidification observing network; 3rd Global Ocean Acidification Observing Network Workshop, 08/05/2016 - 10/05/2016, Hobart, Presenter(s): Bronte Tilbrook

Harcourt, R, Pirota, V, Grech, A, Jonsen, I, Slip, D, Peddemors, V; Entanglement of migrating whales down under, the search for an effective mitigation strategy; Fishing and Aquaculture Gear Workshop, 22/05/2016 - 26/05/2016, Princeton, Presenter(s): Rob Harcourt

Uribe-Palomino, J; Parasitic copepods workshop; 3rd International Workshop on Symbiotic Copepoda, 10/07/2016 - 16/07/2016, Heron Island, Presenter(s): Julian Uribe-Palomino

Steinberg, C; ARGOS reception (and use) by the IMOS Satellite Reception Facility in Townsville; ARGOS Users Workshop, 08/09/2016 - 08/09/2016, Hobart, Presenter(s): Craig Steinberg

Cowley, R; Roadmap for implementation of uncertainty into IQuOD dataset versions; 5th XBT Science Workshop and 4th Annual IQuOD Workshop, 05/10/2016 - 07/10/2016, Tokyo, Presenter(s): Rebecca Cowley

Cowley, R; Uncertainty task team: summary of activities; 5th XBT Science Workshop and 4th Annual IQuOD Workshop, 05/10/2016 - 07/10/2016, Tokyo, Presenter(s): Rebecca Cowley

Lenton, A; Past and future changes in ocean acidification around Australia; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Andrew Lenton

Oliveira, H, Middleton, J, Oke, PR, Coleman, R; The upwelling circulation along the shelves of the Great Australian Bight: idealized simulations and the role of banks and valleys; Australian Coastal and Oceans Modelling and Observations (ACOMO) Workshop, 11/10/2016 - 12/10/2016, Canberra, Presenter(s): Hugo Oliveira

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

Sandery, PA; Aspects of sub-mesoscale ocean analysis and forecasting; Bureau of Meteorology Annual R&D Workshop: Data Assimilation, 05/12/2016 - 09/12/2016, Melbourne, Presenter(s): Paul Sandery

Cahill, M; Oceanography and data relevant to fisheries of SE Australia; Fishwell Research & SE Squid Fisheries Workshop, 30/01/2017 - 30/01/2017, Adelaide, Presenter(s): Madeleine Cahill

Feng, M; Monitoring boundary currents in the Indian Ocean; IndOOS review workshop, 30/01/2017 - 01/02/2017, Perth, Presenter(s): Ming Feng

Antoine, D, Schroeder, T, Botha, N, Cherukuru, N, Dekker, AG, Doblin, MA, Fearn, PRCS, Hardman-Mountford, NJ, Johnson, R, King, E, et, al.; The Australian Integrated Marine Observing System (IMOS) radiometry task team: a community effort towards improved field ocean colour measurement; ESA Workshop on Vicarious Infrastructure, 21/02/2017 - 23/02/2017, Frascati, Presenter(s): David Antoine

Antoine, D, Schroeder, T, et, al.; Update on the Radiometry Task Team; ESA Workshop on Vicarious Infrastructure, 21/02/2017 - 23/02/2017, Frascati, Presenter(s): David Antoine

Roquet, F, Boehme, L, Bester, M, et, al.; In-situ observations using tagged animals; ALPS-II Workshop - Autonomous and Lagrangian Platforms and Sensors, 21/02/2017 - 24/02/2017, La Jolla, Presenter(s): Fabian Roquet

Bodrossy, L; Microbial oceanography in Australia: tools and opportunities; First Australia Singapore Joint Strategic Dialog on Innovation and Science. Marine Science Workshop, 30/03/2017 - 31/03/2017, Canberra, Presenter(s): Lev Bodrossy

Beggs, H, et, al.; Bureau of Meteorology SST Products - what we have now and what we need; BoM-NOAA SST Workshop, 18/04/2017 - 21/04/2017, Melbourne, Presenter(s): Helen Beggs

Govekar, P, Griffin, C, Beggs, H, Majewski, L; Use of ACSPO VIIRS L3U SST in the Australian Bureau of Meteorology; BoM-NOAA SST Workshop, 18/04/2017 - 21/04/2017, Melbourne, Presenter(s): Pallavi Govekar

Griffin, C; BoM SSES in BoM SST Products; BoM-NOAA SST Workshop, 18/04/2017 - 21/04/2017, Melbourne, Presenter(s): Christopher Griffin

Zhou, X, Ignatov, A, Xu, F; NOAA in situ SST Quality Monitor; BoM-NOAA SST Workshop, 18/04/2017 - 21/04/2017, Melbourne, Presenter(s): X Zhou

Richardson, A, Everett, JD, Suthers, I; Analysis IMOS AusCPR data; AusCPR Workshop, 27/04/2017 - 27/04/2017, Sydney Institute for Marine Science, Sydney

Watson, C, Chen, X, Zhang, X, Church, JA, King, M, Monselesan, D, Legresy, B; The increasing rate of global mean sea level rise over the satellite era; Australian Geodesy Workshop, 28/06/2017 - 29/06/2017, Canberra, Presenter(s): Chris Watson

Seymour, JR, et, al.; BPA marine microbes project; Marine and Coastal Microbiome Workshop, 06/07/2017 - 07/07/2017, Melbourne, Presenter(s): Justin Seymour

Eguiluz, V; A complex systems approach to movement behaviour of a large marine predator: southern elephant seals as a case study; Marine Megafauna Movement: exploring new technologies for a better understanding of animal movement across the ocean, Kochi University, Jeddah, Presenter(s): V Eguiluz

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