

Ships of opportunity



Research Projects

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

GHRSSST Tropical Warm Pool Diurnal Variability Project, Centre for Australian Weather and Climate Research, Bureau of Meteorology, Helen Beggs, L Majewski, Pierre LeBorgne, Gary Wick, Sandra Castro, Carol Ann Clayson, Chelle Gentemann, Rachel Weihs, Peter Steinle, Paul Sandery, Vaughan Barras, 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

Extreme tidal forcing of a topographically complex coastal region: the Kimberley, Australian Institute of Marine Science, University of Western Australia, Ryan Lowe, N Jones, Richard Brinkman, Funding: ARC

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

Plankton dynamics in Moreton Bay, University of Queensland, Griffith University, Anthony Richardson, Funding: ARC

Upwelling, internal waves and nutrient supply at Ningaloo Reef, Australian Institute of Marine Science, University of Western Australia, Jim Falter, Ryan Lowe, Richard Brinkman, Funding: Australian Institute of Marine Science, University of Western Australia

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

WAMSI Node 2: Ningaloo, Australian Institute of Marine Science, University of Western Australia, Jim Falter, Ryan Lowe, Richard Brinkman, Partner Institution(s): AIMS, Funding: Australian Institute of Marine Science, West Australian Marine Science Institution

Postgraduate Research Projects

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), Dynamics and impacts of East Australia Current variability off the sou ... , University of Tasmania, Commonwealth Scientific Industrial Research Organisation; Katy Hill, 2005-2009, Supervisor(s): Steve Rintoul, Ken Ridgway, Richard Coleman

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, Gustaf Hallegraeff

Doctor of Philosophy (PhD), Zooplankton community dynamics: Biomass, abundance, assemblages and grazing in a sub-tropical bay, University of Queensland; Sarah Pausina, 2009-2012, Supervisor(s): Hugh Possingham, Anthony Richardson, Dave McKinnon

Doctor of Philosophy (PhD), Diurnal variability in shallow waters of coral reefs, University of Miami; Xiaofang Zhu, Supervisor(s): Peter Minnett

Doctor of Philosophy (PhD), Long-term distribution and ecology of pelagic tunicates, University of New South Wales; Natasha Henschke, Supervisor(s): Iain Suthers

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): P Lehodey, I Senina; Partner Institution(s): CLS

Doctor of Philosophy (PhD), Zooplankton off NSW, University of New South Wales; Ben Harris, 2010-2012, Supervisor(s): Iain Suthers

Book

Book Chapters

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

Community White Papers / Technical Papers

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, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.83

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, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.82

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, 21-25 September 2009, doi:10.5270/OceanObs09.cwp.68

Conference Proceedings

Send, U, et. al. 2010, Observing Ocean Boundary Currents, Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2), Venice, Italy, 21-25 September 2009, Venice, Presenter: U Send

Beggs, H, Majewski, L, Paltoglou, G, Verein, R, Zhong, A 2011, Report to GHRSSST12 from Australia – BLUElink and IMOS, Proceedings of the 12th GHRSSST Science Team Meeting, Edinburgh, 27 June - 1 July 2011, Edinburgh, Presenter: Helen Beggs

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

In Press

Baird, ME, MacDonald, HS, Roughan, M, Oke, PR 2009, Downscaling an eddy-resolving global ocean model for the continental shelf off South-East Australia, Ocean Modelling

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, doi:10.1007/s11160-011-9220-z

Journals

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

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,

Maynard, J, Turner, P, Anthony, KR, Baird, A, Berkelmans, R, Eakin, CM, Johnson, J, Marshall, P, Packer, G, Rea, A, Willis, B 2008, An interactive monitoring system for coral bleaching using high-resolution SST and improved stress predictors, Geophysical Research Letters, vol. 35, doi:10.1029/2007GL032175

Gronell, A, Wijffels, S 2008, A Semiautomated Approach for Quality Controlling Large Historical Ocean Temperature Archives, Journal of Atmospheric and Oceanic Technology, vol. 25, no. 6, pp. 990-1003, doi:10.1175/JTECHO539.1

Wijffels, S, 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

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

Wijffels, S, Willis, J, Domingues, CM, Barker, PM, White, N, Gronell, A, Ridgway, K, Church, JA 2008, Changing Expendable Bathythermograph Fall Rates and Their Impact on Estimates of Thermosteric Sea Level Rise, Journal of Climate, vol. 21, no. 21, pp. 5657-5672, doi:10.1175/2008JCLI2290.1

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

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

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

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

Edwards, M, Beaugrand, G, Hays, GC, Koslow, JA, Richardson, A 2010, The continuing evolution of 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.

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.

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

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

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

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

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

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

Reports

Thesis

Public Seminars

Conferences, Symposia or Workshops

Conference Oral Presentation

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

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

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

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

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; Towards operational management of pelagic ecosystems; ICES Annual Science Conference, 20/09/2010 - 24/09/2010, Nantes, Presenter(s): P Lehodey

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

Tilbrook, B; Ocean acidification and the carbonate chemistry of Australian regional seas; Ocean Acidification: Implications for living marine resources in the Southern Hemisphere, 15/06/2011 - 17/06/2011, Canberra, Presenter(s): Bronte Tilbrook

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

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 (9ICSHMO), 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 (9ICSHMO), 09/02/2009 - 13/02/2009, Melbourne, Presenter(s): L Majewski

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; GHRSSST 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 GHRSSST 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

Beggs, H, Verein, R, Paltoglou, G; Calibration and Validation of AVHRR Sea Surface Temperatures using Observations from Ships of Opportunity; 11th GHRSSST Science Team Meeting, 21/06/2010 - 25/06/2010, Lima

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

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 Francisco, 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 GHRST-PP Science Team Meeting, 09/06/2008 - 13/06/2008, Perros-Guirec, Presenter(s): Helen Beggs

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

Tilbrook, B; Australian surface fCO₂ measurements; Surface Ocean CO₂ 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 GHRST10 from Australia - BLUElink and IMOS; 10th GHRST 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 CO₂ Atlas Project (SOCAT) Atlantic and Southern Ocean Regional Meeting, 25/06/2009 - 26/06/2009, Norwich, Presenter(s): Bronte Tilbrook

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

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

Session Chair

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

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

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

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

Workshop Presentation

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

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

Neill, C; "Underway pCO₂ 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

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

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

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

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

Kloser, R; Toward a global observation and modeling 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

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