

REFERENCES

- ABBS, D. & RAFTER, A. 2009. Impact of Climate Variability and Climate Change on Rainfall Extremes in Western Sydney and Surrounding Areas: Component 4 - Dynamical Downscaling. Report to the Sydney Metro Catchment Management Authority and Partners. Melbourne: CSIRO.
- ABBS, D. J. & RAFTER, A. S. 2012. Tropical cyclone projections for the west Australian region. Indian Ocean Climate Initiative (2012) Western Australia's Weather and Climate: A Synthesis of Indian Ocean Climate Initiative Stage 3 Research. Australia: CSIRO and BOM. p. 93-95.
- ABBS, D. J., LAVENDER, S. L., RAFTER, A. S. & ROUBICEK, A. J. 2014. Projected changes in SW Pacific Tropical Cyclones by the late 21st Century: Results based on direct detection in and downscaling of CMIP5 model outputs. CSIRO Climate Adaptation Flagship report. 19pp.
- ADLER, R. F., HUFFMAN, G. J., CHANG, A., FERRARO, R., XIE, P. P., JANOWIAK, J., RUDOLF, B., SCHNEIDER, U., CURTIS, S., BOLVIN, D., GRUBER, A., SUSSKIND, J., ARKIN, P. & NELKIN, E. 2003. The version-2 global precipitation climatology project (GPCP) monthly precipitation analysis (1979–present). *Journal of Hydrometeorology*, v. 4, p. 1147-1167.
- AUSTRALIAN GREENHOUSE OFFICE, 2006. Climate Change Impacts & Risk Management. A Guide for Business and Government. Broadleaf Capital International, Marsden Jacob Associates, For the Department of the Environment and Heritage.
- ALEXANDER, L. V., ZHANG, X., PETERSON, T. C., CAESAR, J., GLEASON, B., KLEIN TANK, A. M. G., HAYLOCK, M., COLLINS, D., TREWIN, B., RAHMIZADEH, F., TAGIPOUR, A., RUPA KUMAR, K., REVADEKAR, J., GRIFFITHS, G., VINCENT, L., STEPHENSON, D. B., BURN, J., AQUILAR, E., BRUNET, M., TAYLOR, M., NEW, M., ZHAI, P., RUSTICUCCI, M. & VAZQUEZ-AGUIRRE, J. L. 2006. Global observed changes in daily climate extremes of temperature and precipitation. *Journal of Geophysical Research*, 111, D05109.
- ALEXANDER, L., WANG, X., WAN, H. & TREWIN, B. 2011. Significant decline in storminess over southeast Australia since the late 19th century. *Australian Meteorological and Oceanographic Journal*, 61, 23-30.
- ALEXANDER, L. V. & ARBLASTER, J. M. 2009. Assessing trends in observed and modelled climate extremes over Australia in relation to future projections. *International Journal of Climatology*, 29, 417-435.
- ALLAN, R. & ANSELL, T. 2006. A new globally complete monthly historical gridded mean sea level pressure dataset (HadSLP2): 1850-2004. *Journal of Climate*, 19, 5816-5842.
- ALLEN, R., SHERWOOD, S., NORRIS, J. & ZENDER, C. 2012. Recent Northern Hemisphere tropical expansion primarily driven by black carbon and tropospheric ozone. *Nature*, 485, 350-U93.
- ALLEN, R. J., NORRIS, J. R. & WILD, M. 2013. Evaluation of multidecadal variability in CMIP5 surface solar radiation and inferred underestimation of aerosol direct effects over Europe, China, Japan, and India. *Journal of Geophysical Research-Atmospheres*, 118, 6311-6336.
- ANDERSSON, A., FENNIG, K., KLEPP, C., BAKAN, S., GRAßL, H. & SCHULZ, J. 2010. The Hamburg Ocean Atmosphere Parameters and Fluxes from Satellite Data - HOAPS-3. *Earth System Science Data*, 2, 215-234.
- ANTHONY, K. R., KLINE, D. I., DIAZ-PULIDO, G., DOVE, S. & HOEGH-GULDBERG, O. 2008. Ocean acidification causes bleaching and productivity loss in coral reef builders. *Proceedings of the National Academy of Sciences*, 105, 17442-17446.
- ARBLASTER, J. & MEEHL, G. 2006. Contributions of external forcings to southern annular mode trends. *Journal of Climate*, 19, 2896-2905.
- AULT, T. R., COLE, J. E. & GEORGE, S. S. 2012. The amplitude of decadal to multidecadal variability in precipitation simulated by state-of-the-art climate models. *Geophysical Research Letters*, 39.
- AUSTRALIAN BUREAU OF STATISTICS. 2013. Census 2011: Mesh Block Counts [Online]. Available: www.abs.gov.au/websitedbs/censushome.nsf/home/meshblockcounts?opendocument&navpos=269
- BARNES, E. A. & POLVANI, L. 2013. Response of the midlatitude jets, and of their variability, to increased greenhouse gases in the CMIP5 models. *Journal of Climate*, 26, 7117-7135.
- BAYNES, T., HERR, A., LANGSTON, A., COLLINS, K., CLARKE, J. & WEBB, L. 2013. Coastal Climate Risk Project Milestone 1 Technical Annex. CSIRO.
- BECK, C., GRIESER, J. & RUDOLPH, B. 2005. A new monthly precipitation climatology for the global land areas for the period 1951 to 2000. *Geophysical Research Abstracts*, 7, 07154.
- BEDNARŠEK, N., TARLING, G., BAKKER, D., FIELDING, S., JONES, E., VENABLES, H., WARD, P., KUZIRIAN, A., LEZE, B. & FEELY, R. 2012. Extensive dissolution of live pteropods in the Southern Ocean. *Nature Geoscience*, 5, 881-885.
- BERRY, G., REEDER, M. & JAKOB, C. 2011. A global climatology of atmospheric fronts. *Geophysical Research Letters*, 38.
- BHEND, J., BATHOLS, J. & HENNESSY, K. 2012. Climate change impacts on snow in Victoria. CSIRO report for the Victorian Department of Sustainability and Environment 42 pp. www.climatechange.vic.gov.au/home/climate-change-impacts-on-snow-in-victoria,-2013
- BHEND, J. & WHETTON, P. 2013. Consistency of simulated and observed regional changes in temperature, sea level pressure and precipitation. *Climatic Change*, 118, 799-810.

- BINDOFF, N. L., STOTT, P. A., ACHUTARAO, K.M., ALLEN, M.R., GILLET, N., GUTZLER, D., HANSINGO, K., HEGERL, G., HU, Y., JAIN, S., MOKHOV, I.I., OVERLAND, J., PERLWITZ, J., SEBBARI, R. & ZHANG, X. 2013. Detection and Attribution of Climate Change: from Global to Regional. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [STOCKER, T. F., QIN, D., PLATTNER, G.-K., TIGNOR, M., ALLEN, S.K., BOSCHUNG, J., NAUELS A., XIA, Y., BEX, V. & MIDGLEY, P.M. (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. www.climatechange2013.org and www.ipcc.ch
- BLANCHI, R., LUCAS, C., LEONARD, J. & FINKELE, K. 2010. Meteorological conditions and wildfire-related house loss in Australia. *International Journal of Wildland Fire*, 19, 914-926.
- BOM 2001. *Climatic Atlas of Australia - Evapotranspiration*. Australian Bureau of Meteorology.
- BOM 2013a. Special Climate Statement 43 – Extreme heat in January 2013. www.bom.gov.au/climate/current/statements/scs43e.pdf
- BOM 2013b. Bureau of Meteorology, Climate Change Tracker. Commonwealth of Australia. www.bom.gov.au/climate/
- BOM 2014a. State of the climate. Bureau of Meteorology. Commonwealth of Australia.
- BOM 2014b. Annual climate statement 2013. Bureau of Meteorology. Commonwealth of Australia.
- BOPP, L., RESPLANDY, L., ORR, J., DONEY, S., DUNNE, J., GEHLEN, M., HALLORAN, P., HEINZE, C., ILYINA, T. & SÉFÉRIAN, R. 2013. Multiple stressors of ocean ecosystems in the 21st century: projections with CMIP5 models. *Biogeosciences*, 10, 6225-6245.
- BRACEGIRDLE, T. & STEPHENSON, D. 2012. Higher precision estimates of regional polar warming by ensemble regression of climate model projections. *Climate Dynamics*, 39, 2805-2821.
- BRADSTOCK, R. A. 2010. A biogeographic model of fire regimes in Australia: current and future implications. *Global Ecology and Biogeography*, 19, 145-158.
- BRAGANZA, K., POWER, S., TREWIN, B., ARBLASTER, J., TIMBAL, B., HOPE, P., FREDERIKSEN, C., MCBRIDE, J., JONES, D. & PLUMMER, N. 2011. Update on the state of the climate, long-term trends and associated causes. In: KEENAN, T. D. & CLEUGH, H. A. (eds.). Canberra, Australia: Centre for Australian Weather and Climate Research. 106pp
- BROHAN, P., KENNEDY, J. J., HARRIS, I., TETT, S. F. B. & JONES, P. D. 2006. Uncertainty estimates in regional and global observed temperature changes: a new dataset from 1850. *Journal of Geophysical Research*, 111, D12106
- BURGESS, S., RICKETTS, J., PANJKOV, A., CARTER, J. & DAY, K. 2012. Consistent Climate Scenarios Project User Guide: 'Change factor' and 'Quantile-matching' based climate projections data. Queensland Department of Science, Information Technology, Innovation and the Arts.
- BURGETTE, R. J., WATSON, C. S., CHURCH, J. A., WHITE, N. J., TREGONING, P. & COLEMAN, R. 2013. Characterizing and minimizing the effects of noise in tide gauge time series: relative and geocentric sea level rise around Australia. *Geophysical Journal International*, 194, 719-736.
- BURKE, E. J. & BROWN, S. J. 2008. Evaluating uncertainties in the projection of future drought. *Journal of Hydrometeorology*, 9, 292-299.
- BUSER, C. M., KUNSCH, H. R., LUTHI, D., WILD, M. & SCHAR, C. 2009. Bayesian multi-model projection of climate: bias assumptions and interannual variability. *Climate Dynamics*, 33, 849-868.
- CAI, W., BORLACE, S., LENGAIGNE, M., VAN RENSCH, P., COLLINS, M., VECCHI, G., TIMMERMANN, A., SANTOSO, A., MCPHADEN, M., WU, L., ENGLAND, M., WANG, G., GUILYARDI, E. & JIN, F. 2014. Increasing frequency of extreme El Niño events due to greenhouse warming. *Nature Climate Change*, 4, 111-116.
- CAI, W. & COWAN, T. 2006. SAM and regional rainfall in IPCC AR4 models: Can anthropogenic forcing account for southwest Western Australian winter rainfall reduction? *Geophysical Research Letters*, 33.
- CAI, W. & COWAN, T. 2008. Dynamics of late autumn rainfall reduction over southeastern Australia. *Geophysical Research Letters*, 35.
- CAI, W. & COWAN, T. 2013. Why is the amplitude of the Indian Ocean Dipole overly large in CMIP3 and CMIP5 climate models? *Geophysical Research Letters*, 40, (6), 1200-1205.
- CAI, W., ZHENG, X.-T., WELLER, E., COLLINS, M., COWAN, T., LENGAIGNE, M., YU, W. & YAMAGATA, T. 2013. Projected response of the Indian Ocean Dipole to greenhouse warming. *Nature Geoscience*, 6, 999-1007.
- CAI, W., SULLIVAN, A. & COWAN, T. 2009. Rainfall Teleconnections with Indo-Pacific Variability in the WCRP CMIP3 Models. *Journal of Climate*, 22, 5046-5071.
- CAI, W., SULLIVAN, A., COWAN, T., RIBBE, J. & SHI, G. 2011. Simulation of the Indian Ocean Dipole: A relevant criterion for selecting models for climate projections. *Geophysical Research Letters*, 38, L03704.
- CALAFAT, F. M. & JORDA, G. 2011. A Mediterranean sea level reconstruction (1950-2008) with error budget estimates. *Global and Planetary Change*, 79, 118-133.
- CALLAGHAN, J. & POWER, S. 2010. A reduction in the frequency of severe land-falling tropical cyclones over eastern Australia in recent decades. *Clim Dynam.* doi:10.1007/s00382-010-0883-2.
- CAMARGO, S. J., BARNSTON, A. G. & ZEBIAK, S. E. 2005. A statistical assessment of tropical cyclone activity in atmospheric general circulation models. *Tellus A*, 57, 589-604.
- CATTO, J., JAKOB, C. & NICHOLLS, N. 2013. A global evaluation of fronts and precipitation in the ACCESS model. *Australian Meteorological and Oceanographic Journal*, 63, 191-203.

- CATTO, J., NICHOLLS, N. & JAKOB, C. 2012a. North Australian Sea Surface Temperatures and the El Niño-Southern Oscillation in Observations and Models. *Journal of Climate*, 25, 5011-5029.
- CATTO, J., NICHOLLS, N. & JAKOB, C. 2012b. North Australian Sea Surface Temperatures and the El Niño-Southern Oscillation in the CMIP5 Models. *Journal of Climate*, 25, 6375-6382.
- CHANDLER, R. E. 2013. Exploiting strength, discounting weakness: combining information from multiple climate simulators. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 371 (1991). 20120388
- CHARLES, S., BARI, M., KITSIOS, A. & BATES, B. 2007. Effect of GCM bias on downscaled precipitation and runoff projections for the Serpentine catchment, Western Australia. *International Journal of Climatology*, 1673-1690.
- CHARLES, S. P., BATES, B. C. & HUGHES, J. P. 1999. A spatiotemporal model for downscaling precipitation occurrence and amounts. *Journal of Geophysical Research: Atmospheres* (1984–2012), 104, 31657-31669.
- CHARLES, S., SILBERSTEIN, R., TENG, J., FU, G., HODGSON, G., GABROVSEK, C., CRUTE, J., CHIEW, F., SMITH, I. & KIRONO, D. 2010. Climate analyses for south-west Western Australia. A report to the Australian Government from the CSIRO South-West Western Australia Sustainable Yields Project. CSIRO, Australia. 83 pp.
- CHATTOPADHYAY, M. & ABBS, D. 2012. On the variability of projected tropical cyclone genesis in GCM ensembles. *Tellus Series a-Dynamic Meteorology and Oceanography*, 64 18696.
- CHIEW, F. 2006. Estimation of rainfall elasticity of streamflow in Australia. *Hydrological Sciences Journal- Journal Des Sciences Hydrologiques*, 51, 613-625.
- CHIEW, F., TENG, J., KIRONO, D., FROST, A., BATHOLS, J., VAZE, J., VINEY, N., HENNESSY, K. & CAI, W. 2008. Climate data for hydrologic scenario modelling across the Murray-Darling Basin. A Report to the Australian Government from the CSIRO Murray-Darling Basin Sustainable Yields Projects. Australia.
- CHIEW, F. H. S., KIRONO, D. G. C., KENT, D. & VAZE, J. 2009a. Assessment of rainfall simulations from global climate models and implications for climate change impact on runoff studies. 18th World IMACS/MODSIM Congress. Cains, Australia: <http://mssanz.org.au/modsim09>
- CHIEW, F. H. & MCMAHON, T. A. 1991. The Applicability of Morton's and Penman's Evapotranspiration Estimates in Rainfall-Runoff Modeling. *JAWRA Journal of the American Water Resources Association*, 27, 611-620.
- CHIEW, F. H. S., TENG, J., VAZE, J. & KIRONO, D. G. C. 2009b. Influence of global climate model selection on runoff impact assessment. *Journal of Hydrology*, 379, 172-180.
- CHRISTENSEN, J., KJELLSTROM, E., GIORGI, F., LENDERINK, G. & RUMMUKAINEN, M. 2010. Weight assignment in regional climate models. *Climate Research*, 44, 179-194.
- CHRISTENSEN, J. H., RUMMUKAINEN, M. & LENDERINK, G. 2009. Formulation of very-high-resolution climate model ensembles for Europe. In: VAN DER LINDEN, P. & MITCHELL, J. F. B. (eds.) *ENSEMBLES: Climate Change and its Impacts: Summary of research and results from the ENSEMBLES project*. Exeter EX1 3PB, UK: Met Office Hadley Centre.
- CHRISTIDIS, N., STOTT, P., KAROLY, D. & CIAVARELLA, A. 2013. An attribution study of the heavy rainfall over eastern Australia in March 2012 [in "Explaining extreme events of 2012 from a climate perspective"]. *Bull. Amer. Meteor. Soc*, 94, S58-S60.
- CHURCH, J., GREGORY, J., WHITE, N., PLATTEN, S. & MITROVICA, J. 2011a. Understanding and Projecting Sea Level Change. *Oceanography*, 24, 130-143.
- CHURCH, J. A., WHITE, N. J., KONIKOW, L. F., DOMINGUES, C. M., COGLEY, J. G., RIGNOT, E., GREGORY, J. M., VAN DEN BROEKE, M. R., MONAGHAN, A. J. & VELICOGNA, I. 2011b. Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. *Geophysical Research Letters*, 38, L18601.
- CHURCH, J., WHITE, N. & ARBLASTER, J. 2005. Significant decadal-scale impact of volcanic eruptions on sea level and ocean heat content. *Nature*, 438, 74-77.
- CHURCH, J. A., CLARK, P. U., CAZENAVE, A., GREGORY, J. M., JEVREJEVA, S., LEVERMANN, A., MERRIFIELD, M. A., MILNE, G. A., NEREM, R. S., NUNN, P. D., PAYNE, A. J., PFEFFER, W. T., STAMMER, D. & UNNIKRISHNAN, A. S. 2014. Sea Level Change. In: STOCKER, T. F., D. QIN, G.-K. PLATTNER, M. TIGNOR, S. K. ALLEN, J. BOSCHUNG, A. NAUELS, Y. XIA, V. BEX AND P. M. MIDGLEY (ed.) *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*.
- CHURCH, J. A. & WHITE, N. J. 2006. A 20th century acceleration in global sea-level rise. *Geophysical Research Letters*, 33.
- CHURCH, J. A. & WHITE, N. J. 2011. Sea-Level Rise from the Late 19th to the Early 21st Century. *Surveys in Geophysics*, 32, 585-602.
- CHURCH, J. A., WHITE, N. J., DOMINGUES, C. M., MONSELESAN, D. P. & MILES, E. R. 2013. Sea-Level and Ocean Heat-Content Change. 103, 697-725.
- CIAIS, P., SABINE, C., BALA, G., BOPP, L., BROVKIN, V., CANADELL, J., CHHABRA, A., DEFRIES, R., GALLOWAY, J., HEIMANN, M., JONES, C., LE QUÉRÉ, C., MYNENI, R. B., PIAO, S. & THORNTON, P. 2013. Carbon and Other Biogeochemical Cycles. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. In: STOCKER, T. F., D. QIN, G.-K. PLATTNER, M. TIGNOR, S.K. ALLEN, J. BOSCHUNG, A. NAUELS, Y. XIA, BEX, V. & MIDGLEY, P. M. (eds.) *Climate Change 2013: The Physical Science Basis*. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- CLARKE, H., LUCAS, C. & SMITH, P. 2013. Changes in Australian fire weather between 1973 and 2010. *International Journal of Climatology*, 33, 931-944.

- CLARKE, H., SMITH, P. & PITMAN, A. 2011a. Regional signatures of future fire weather over eastern Australia from global climate models. *International Journal of Wildland Fire*, 20, 550-562.
- CLARKE, J. M., WHETTON, P. H. & HENNESSY, K. J. 2011b. Providing Application-specific Climate Projections Datasets: CSIRO's Climate Futures Framework. In: CHAN, F., MARINOVA, D. & ANDERSSON, R. S. (eds.) MODSIM2011, 19th International Congress on Modelling and Simulation. Perth, Western Australia: Modelling and Simulation Society of Australia and New Zealand.
- COELHO, C. & GODDARD, L. 2009. El Niño-Induced Tropical Droughts in Climate Change Projections. *Journal of Climate*, 22, 6456-6476.
- COGLEY, J. G. 2009. Geodetic and direct mass-balance measurements: comparison and joint analysis. *Annals of Glaciology*, 50, 96-100.
- COLBERG, F. & MCINNES, K. 2012. The impact of future changes in weather patterns on extreme sea levels over southern Australia. *Journal of Geophysical Research-Oceans*, 117, (C8).
- COLMAN, R., MOISE, A. & HANSON, L. 2011. Tropical Australian climate and the Australian monsoon as simulated by 23 CMIP3 models. *Journal of Geophysical Research-Atmospheres*, 116.
- COOLEY, S. R., KITE-POWELL, H. L. & DONEY, S. C. 2009. Ocean acidification's potential to alter global marine ecosystem services. *Oceanography* 22(4) 172-181.
- CSIRO 1992. Climate change scenarios for the Australian region. Melbourne: CSIRO Division of Atmospheric Research.
- CSIRO 1996. Climate change scenarios for the Australian region. Melbourne: CSIRO Division of Atmospheric Research.
- CSIRO 2001. Climate change projections for Australila. Aspendale: CSIRO.
- CSIRO 2008. Murray-Darling Basin Sustainable Yields Project. A report to the Australian Government from the CSIRO.
- CSIRO 2012. Climate and water availability in south-eastern Australia – A synthesis of findings from Phase 2 of the South Eastern Australian Climate Initiative (SEACI). CSIRO, September.
- CSIRO AND BOM 2007. Climate change in Australia: technical report, Aspendale, Australia, CSIRO Marine and Atmospheric Research.
- CULLEN, B. R., ECKARD, R. J. & RAWNSLEY, R. P. 2012. Resistance of pasture production to projected climate changes in south-eastern Australia. *Crop and Pasture Science*, 63, 77-86.
- DAI, A. 2006. Recent climatology, variability, and trends in global surface humidity. *Journal of Climate*, 19, 3589-3606.
- DAI, A. 2011. Drought under global warming: a review. *Wiley Interdisciplinary Reviews: Climate Change*, 2, 45-65.
- DAI, A. 2013. Increasing drought under global warming in observations and models. *Nature Climate Change*, 3, 52-58.
- DARBYSHIRE, R., WEBB, L., GOODWIN, I. & BARLOW, S. 2013. Evaluation of recent trends in Australian pome fruit spring phenology. *International Journal of Biometeorology*, 57, 409-421.
- DARBYSHIRE, R., WEBB, L., GOODWIN, I. & BARLOW, S. 2014. Challenges in predicting climate change impacts on pome fruit phenology. *International Journal of Biometeorology*, 58, 1119-1133.
- DAVIS, C. J. 2013. Towards the development of long-term winter records for the Snowy Mountains. *Australian Meteorological and Oceanographic Journal*, 63, 303-313.
- DEE, D., UPPALA, S., SIMMONS, A., BERRISFORD, P., POLI, P., KOBAYASHI, S., ANDRAE, U., BALMASEDA, M., BALSAMO, G. & BAUER, P. 2011. The ERA-Interim reanalysis: Configuration and performance of the data assimilation system. *Quarterly Journal of the Royal Meteorological Society*, 137, 553-597.
- DENG, X., GRIFFIN, D. A., RIDGWAY, K. R., CHURCH, J. A., FEATHERSTONE, W. E., WHITE, N. & CAHILL, M. 2010. Chapter 18: Satellite altimetry for geodetic, oceanographic and climate studies in the Australian region. In: VIGNUDELLI, S., KOSTIANOV, A., CIPOLLINI, P. & BENVENISTE, J. (eds.) *Coastal Altimetry*. Berlin Heidelberg: Springer-Verlag.
- DEPARTMENT OF AGRICULTURE. 2013. Natural resource management [Online]. Commonwealth of Australia. Available: www.nrm.gov.au/about/nrm/regions/
- DEPARTMENT OF THE ENVIRONMENT. 2013. Australia's bioregions (IBRA) [Online]. Available: www.environment.gov.au/topics/land/national-reserve-system/science-maps-and-data/australias-bioregions-ibra
- DESER, C., KNUTTI, R., SOLOMON, S. & PHILLIPS, A. S. 2012a. Communication of the role of natural variability in future North American climate. *Nature Climate Change*, 2, 775-779.
- DESER, C., PHILLIPS, A., BOURDETTE, V. & TENG, H. 2012b. Uncertainty in climate change projections: the role of internal variability. *Climate Dynamics*, 38, 527-546.
- DONAT, M., ALEXANDER, L., YANG, H., DURRE, I., VOSE, R. & CAESAR, J. 2013a. Global Land-Based Datasets for Monitoring Climatic Extremes. *Bulletin of the American Meteorological Society*, 94, 997-1006.
- DONAT, M., ALEXANDER, L., YANG, H., DURRE, I., VOSE, R., DUNN, R., WILLETT, K., AGUILAR, E., BRUNET, M., CAESAR, J., HEWITSON, B., JACK, C., TANK, A., KRUGER, A., MARENGO, J., PETERSON, T., RENOM, M., ROJAS, C., RUSTICUCCI, M., SALINGER, J., ELRAYAH, A., SEKELE, S., SRIVASTAVA, A., TREWIN, B., VILLARROEL, C., VINCENT, L., ZHAI, P., ZHANG, X. & KITCHING, S. 2013b. Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. *Journal of Geophysical Research-Atmospheres*, 118, 2098-2118.

- DONEY, S. C., FABRY, V. J., FEELY, R. A. & KLEYPAS, J. A. 2009. Ocean Acidification: The Other CO₂ Problem. *Annu. Rev. Mar. Sci.*, 1, 169-92.
- DOWDY, A., MILLS, G. & TIMBAL, B. 2013a. Large-scale diagnostics of extratropical cyclogenesis in eastern Australia. *International Journal of Climatology*, 33, 2318-2327.
- DOWDY, A., MILLS, G., TIMBAL, B., GRIFFITHS, M. & WANG, Y. 2013b. Understanding rainfall projections in relation to extratropical cyclones in eastern Australia. *Australian Meteorological and Oceanographic Journal*, 63, 355-364.
- DOWDY, A., MILLS, G., TIMBAL, B. & WANG, Y. 2013c. Changes in the Risk of Extratropical Cyclones in Eastern Australia. *Journal of Climate*, 26, 1403-1417.
- DOWDY, A., MILLS, G., TIMBAL, B. & WANG, Y. 2014. Fewer large waves projected for eastern Australia due to decreasing storminess. *Nature Climate Change*, 4, 283-286.
- DOWDY, A. J. 2014. Long-term changes in Australian tropical cyclone numbers. *Atmospheric Science Letters*, doi: 10.1002/asl2.502.
- DROSDOWSKY, W. 2005. The latitude of the subtropical ridge over eastern Australia: The L index revisited. *International Journal of Climatology*, 25, 1291-1299.
- DUNLOP, M., PARRIS, H., RYAN, P. & KROON, F. 2013. Climate-ready conservation objectives: a scoping study. National Climate Change Adaptation Research Facility, Gold Coast. Available: http://apo.org.au/files/docs/Dunlop-Climature-ready-conservation-objectives_0.pdf.
- DUNN-SIGOUIN, E. & SON, S. 2013. Northern Hemisphere blocking frequency and duration in the CMIP5 models. *Journal of Geophysical Research-Atmospheres*, 118, 1179-1188.
- DURACK, P. J. & WIJFFELS, S. E. 2010. Fifty-year trends in global ocean salinities and their relationship to broad-scale warming. *Journal of Climate*, 23, 4342-4362.
- DURACK, P., WIJFFELS, S. & MATEAR, R. 2012. Ocean Salinities Reveal Strong Global Water Cycle Intensification During 1950 to 2000. *Science*, 336, 455-458.
- DUTTON, A. & LAMBECK, K. 2012. Ice volume and sea level during the last interglacial. *Science*, 337, 216-9.
- EKSTRÖM, M., GROSE, M. R. & WHETTON, P. H. submitted. An appraisal of downscaling methods used in climate change research. *WIREs Climate Change*.
- EMANUEL, K. A. 2013. Downscaling CMIP5 climate models shows increased tropical cyclone activity over the 21st century. *Proceedings of the National Academy of Sciences*, 110.
- EMANUEL, K. A. & NOLAN, D. 2004. Tropical cyclone activity and the global climate system. Preprints, 26th Conf. on Hurricanes and Tropical Meteorology, Miami, FL, Amer. Meteor. Soc. A, 2004. [Æftp://texmex.mit.edu/pub/emanuel/PAPERS/em_nolan_extended_2004.pdf](http://texmex.mit.edu/pub/emanuel/PAPERS/em_nolan_extended_2004.pdf)
- ENGLAND, M. H., MCGREGOR, S., SPENCE, P., MEEHL, G. A., TIMMERMANN, A., CAI, W., GUPTA, A. S., MCPHADEN, M. J., PURICH, A. & SANTOSO, A. 2014. Recent intensification of wind-driven circulation in the Pacific and the ongoing warming hiatus. *Nature Climate Change*, 4, 222-227.
- ENGLAND, M., UMMENHOFER, C. & SANTOSO, A. 2006. Interannual rainfall extremes over southwest Western Australia linked to Indian ocean climate variability. *Journal of Climate*, 19, 1948-1969.
- EVANS, J. & BOYER-SOUCHET, I. 2012. Local sea surface temperatures add to extreme precipitation in northeast Australia during La Niña. *Geophysical Research Letters*, 39.
- EVANS, J. P. 2011. CORDEX - An international climate downscaling initiative. MODSIM2011. Perth, Australia.
- EVANS, J., JI, F., LEE, C., SMITH, P., ARGÜESO, D. & FITA, L. 2014. Design of a regional climate modelling projection ensemble experiment-NARCLiM. *Geoscientific Model Development*, 7, 621-629.
- EYRING, V., ARBLASTER, J. M., CIONNI, I., SEDLÁČEK, J., PERLWITZ, J., YOUNG, P. J., BEKKI, S., BERGMANN, D., CAMERON-SMITH, P., COLLINS, W. J., FALUVEGI, G., GOTTSCHALDT, K. D., HOROWITZ, L. W., KINNISON, D. E., LAMARQUE, J. F., MARSH, D. R., SAINT-MARTIN, D., SHINDELL, D. T., SUDO, K., SZOPA, S. & WATANABE, S. 2013. Long-term ozone changes and associated climate impacts in CMIP5 simulations. *Journal of Geophysical Research: Atmospheres*, 118, 5029-5060.
- FABRICIUS, K. E., LANGDON, C., UTHICKE, S., HUMPHREY, C., NOONAN, S., DE'ATH, G., OKAZAKI, R., MUEHLEHNER, N., GLAS, M. S. & LOUGH, J. M. 2011. Losers and winners in coral reefs acclimatized to elevated carbon dioxide concentrations. *Nature Climate Change*, 1, 165-169.
- FABRY, V. J., SEIBEL, B. A., FEELY, R. A. & ORR, J. C. 2008. Impacts of ocean acidification on marine fauna and ecosystem processes. *ICES Journal of Marine Science: Journal du Conseil*, 65, 414-432.
- FAWCETT, R., TREWIN, B., BRAGANZA, K., SMALLEY, R., JOVANOVIĆ, B., JONES, D. A. 2012. On the sensitivity of Australian temperature trends and variability to analysis methods and observation networks. *CAWCR Research Report 50*, Bureau of Meteorology, Melbourne, 66 pp.
- FAWCETT, R., TREWIN, B., R SMALLEY, R., and BRAGANZA, K. 2013. On the changing nature of Australian monthly and daily temperature anomalies. In *proceedings of the Australian Meteorological and Oceanographic Society Annual Conference*, Melbourne, 2013.
- FEELY, R. A., SABINE, C. L., HERNANDEZ-AYON, J. M., IANSON, D. & HALES, B. 2008. Evidence for upwelling of corrosive "acidified" water onto the continental shelf. *Science*, 320, 1490-1492.
- FEELY, R. A., DONEY, S. C. & COOLEY, S. R. 2009. Ocean acidification: present conditions and future changes in a high-CO₂ world. *Oceanography* 22 (4) 36-47.



- FENNIG, K., ANDERSSON, A., BAKAN, S., KLEPP, C. & SCHROEDER, M. 2012. Hamburg Ocean Atmosphere Parameters and Fluxes from Satellite Data - HOAPS 3.2 - Monthly Means / 6-Hourly Composite. (electronic publication). Satellite Application Facility on Climate Monitoring. www.hoaps.zmaw.de/index.php?id=pub
- FESER, F., ROCKEL, B., VON STORCH, H., WINTERFELDT, J. & ZAHN, M. 2011. Regional Climate Models Add Value to Global Model Data: A Review and Selected Examples. *Bulletin of the American Meteorological Society*, 92, 1181-1192.
- FLATO, G., MAROTZKE, J., ABIODUN, B., BRACONNOT, P., CHOU, S., COLLINS, W., COX, P., DRIOUECH, F., EMORI, S. & EYRING, V. 2013. Evaluation of climate models. *Climate change*, 741-866.
- FISCHER, E. & KNUTTI, R. 2014. Detection of spatially aggregated changes in temperature and precipitation extremes. *Geophysical Research Letters*, 41, 547-554.
- FOLEY, A. M. 2010. Uncertainty in regional climate modelling: A review. *Progress in Physical Geography*, 34, 647-670.
- FOSTER, G. L. & ROHLING, E. J. 2013. Relationship between sea level and climate forcing by CO₂ on geological timescales. *Proc Natl Acad Sci U S A*, 110, 1209-14.
- FOWLER, H. & WILBY, R. 2007. Beyond the downscaling comparison study. *International Journal of Climatology*, 27, 1543-1545.
- FREDERIKSEN, J. S. & FREDERIKSEN, C. S. 2005. Decadal Changes in Southern Hemisphere Winter Cyclogenesis. Published, Aspendale, Victoria: CSIRO Marine and Atmospheric Research Paper No. 002, 35pp
- FREDERIKSEN, J. S. & FREDERIKSEN, C. S. 2007. Inter-decadal Changes in Southern Hemisphere Winter Storm Track Modes. *Tellus A*, 59A, 599-617.
- FREDERIKSEN, C. S., FREDERIKSEN, J. S., SISSON, J. M. & OSBROUGH, S. L. 2011. Changes and projections in Australian winter rainfall and circulation: Anthropogenic forcing and internal variability. 2, 143-162. FREITAS, A. C. V. & RAO, V. B. 2014. Global changes in propagation of stationary waves in a warming scenario. *Quarterly Journal of the Royal Meteorological Society*, 140, 364-383.
- FRIEDLINGSTEIN, P., MEINSHAUSEN, M., ARORA, V. K., JONES, C. D., ANAV, A., LIDDICOAT, S. K. & KNUTTI, R. 2014. Uncertainties in CMIP5 climate projections due to carbon cycle feedbacks. *Journal of Climate* 27(2) 511-526.
- FRIELER, K., MEINSHAUSEN, M., GOLLY, A., MENGEL, M., LEBEK, K., DONNER, S. & HOEGH-GULDBERG, O. 2012. Limiting global warming to 2 [thinsp][deg] C is unlikely to save most coral reefs. *Nature Climate Change*, 3, 165-170.
- GALLANT, A., HENNESSY, K. & RISBEY, J. 2007. Trends in rainfall indices for six Australian regions: 1910-2005. *Australian Meteorological Magazine*, 223-239.
- GALLANT, A. J. E. & KAROLY, D. J. 2010. A Combined Climate Extremes Index for the Australian Region. *Journal of Climate*, 23, 6153-6165.
- GALLANT, A., KAROLY, D. & GLEASON, K. 2014. Consistent Trends in a Modified Climate Extremes Index in the United States, Europe, and Australia. *Journal of Climate*, 27, 1379-1394.
- GALLANT, A. J. E., REEDER, M. J., RISBEY, J. S. & HENNESSY, K. J. 2013. The characteristics of seasonal-scale droughts in Australia, 1911-2009. *International Journal of Climatology*, 33, 1658-1672.
- GEHRELS, W. R. & WOODWORTH, P. L. 2013. When did modern rates of sea-level rise start? *Global and Planetary Change*, 100, 263-277.
- GILLETT, N. & THOMPSON, D. 2003. Simulation of recent Southern Hemisphere climate change. *Science*, 302, 273-275.
- GIORGI, F. & MEARNS, L. O. 1999. Introduction to special section: Regional climate modeling revisited. *J. Geophys. Res.*, 104, 6335-6352.
- GLECKLER, P., TAYLOR, K. & DOUTRIAUX, C. 2008. Performance metrics for climate models. *Journal of Geophysical Research-Atmospheres*, 113.
- GRAINGER, S., FREDERIKSEN, C. & ZHENG, X. 2013. Modes of interannual variability of Southern Hemisphere atmospheric circulation in CMIP3 models: assessment and projections. *Climate Dynamics*, 41, 479-500.
- GRAINGER, S., FREDERIKSEN, C. S. & ZHENG, X. 2014. Assessment of modes of interannual variability of Southern Hemisphere atmospheric circulation in CMIP5 models *Journal of Climate*, (accepted).
- GROSE, M., CORNEY, S., KATZFEY, J., BENNETT, J., HOLZ, G., WHITE, C. & BINDOFF, N. 2013. A regional response in mean westerly circulation and rainfall to projected climate warming over Tasmania, Australia. *Climate Dynamics*, 40, 2035-2048.
- GROSE, M. R., BROWN, J. N., NARSEY, S., BROWN, J. R., MURPHY, B. F., LANGLAIS, C., GUPTA, A. S., MOISE, A. F. & IRVING, D. B. 2014a. Assessment of the CMIP5 global climate model simulations of the western tropical Pacific climate system and comparison to CMIP3. *International Journal of Climatology*, 34 (12), 3382-3399.
- GROSE, M., POOK, M., MCINTOSH, P., RISBEY, J. & BINDOFF, N. 2012. The simulation of cutoff lows in a regional climate model: reliability and future trends. *Climate Dynamics*, 39, 445-459.
- GROSE, M. R., BARNES-KEOGHAN, I., CORNEY, S., WHITE, C., HOLZ, G., BENNETT, J., GAYNOR, S. & BINDOFF, N. 2010. Climate Futures for Tasmania: general climate impacts technical report, Hobart, Antarctic Climate & Ecosystems Cooperative Research Centre.
- GROSE, M. R., FOX-HUGHES, P., HARRIS, R. M. & BINDOFF, N. L. 2014b. Changes to the drivers of fire weather with a warming climate—a case study of southeast Tasmania. *Climatic Change*, 1-15.
- GUILYARDI, E., WITTENBERG, A., FEDOROV, A., COLLINS, M., WANG, C., CAPOTONDI, A., VAN OLDENBORGH, G. J. & STOCKDALE, T. 2009. Understanding El Niño in ocean-atmosphere general circulation models: progress and challenges. *Bulletin of the American Meteorological Society*, 90, 325-340.

- HAIGH, I., NICHOLLS, R. & WELLS, N. 2009. Mean sea level trends around the English Channel over the 20th century and their wider context. *Continental Shelf Research*, 29, 2083-2098.
- HAIGH, I., WIJERATNE, E., MACPHERSON, L., PATTIARATCHI, C., MASON, M., CROMPTON, R. & GEORGE, S. 2014. Estimating present day extreme water level exceedance probabilities around the coastline of Australia: tides, extra-tropical storm surges and mean sea level. *Climate Dynamics*, 42, 121-138.
- HALL, A. & VISBECK, M. 2002. Synchronous variability in the southern hemisphere atmosphere, sea ice, and ocean resulting from the annular mode. *Journal of Climate*, 15, 3043-3057.
- HALLEGATTE, S., HOURCADE, J. & AMBROSI, P. 2007. Using climate analogues for assessing climate change economic impacts in urban areas. *Climatic Change*, 82, 47-60.
- HANNAH, J. & BELL, R. G. 2012. Regional sea level trends in New Zealand. *Journal of Geophysical Research-Oceans*, 117.
- HANSEN, J., RUEDY, R., SATO, M., & LO, K. 2010. Global surface temperature change. *Reviews in Geophysics*, 48, RG4004.
- HANSEN, J., SATO, M. & RUEDY, R. 2012. Perception of climate change. *Proceedings of the National Academy of Sciences of the United States of America*, 109, E2415-E2423.
- HARLEY, M., TURNER, I., SHORT, A. & RANASINGHE, R. 2010. Interannual variability and controls of the Sydney wave climate. *International Journal of Climatology*, 30, 1322-1335.
- HARPER, B., HARDY, T., MASON, L. & FRYAR, R. 2009. Developments in storm tide modelling and risk assessment in the Australian region. *Natural hazards*, 51, 225-238.
- HARRIS, I., JONES, P., OSBORN, T. & LISTER, D. 2013. Updated high-resolution grids of monthly climatic observations—the CRU TS3. 10 Dataset. *International Journal of Climatology*, 34, 623-642.
- HART, R. 2003. A cyclone phase space derived from thermal wind and thermal asymmetry. *Monthly Weather Review*, 131, 585-616.
- HASSON, A., MILLS, G., TIMBAL, B. & WALSH, K. 2009. Assessing the impact of climate change on extreme fire weather events over southeastern Australia. *Climate Research*, 39, 159-172.
- HAWKINS, E. & SUTTON, R. 2009. The Potential to Narrow Uncertainty in Regional Climate Predictions. *Bulletin of the American Meteorological Society*, 90, 1095-1107.
- HELD, I. M. & SODEN, B. J. 2006. Robust responses of the hydrological cycle to global warming. *Journal of Climate*, 19, 5686-5699.
- HENDON, H., LIM, E., ARBLASTER, J. & ANDERSON, D. 2014. Causes and predictability of the record wet east Australian spring 2010. *Climate Dynamics*, 42, 1155-1174.
- HENDON, H., THOMPSON, D. & WHEELER, M. 2007. Australian rainfall and surface temperature variations associated with the Southern Hemisphere annular mode. *Journal of Climate*, 2452-2467.
- HENDRIKX, J., ZAMMIT, C., HREINSSON, E. & BECKEN, S. 2013. A comparative assessment of the potential impact of climate change on the ski industry in New Zealand and Australia. *Climatic Change*, 119, 965-978.
- HENNESSY, K. J., WHETTON, P., SMITH, I., BATHOLS, J., HUTCHINSON, M. & SHARPLES, J. 2003. The impact of climate change on snow conditions in mainland Australia, CSIRO Atmospheric Research Aspendale, 47 p.
- HENNESSY, K., FAWCETT, R., KIRONO, D., MPELASOKA, F., JONES, D., BATHOLS, J., WHETTON, P., STAFFORD-SMITH, M., HOWDEN, M., MITCHELL, C. & PLUMMER, N. 2008. An assessment of the impact of climate change on the nature of frequency of exceptional climatic events. A Report to the Australian Government. Australia.
- HENNESSY, K., LUCAS, C., NICHOLLS, N., BATHOLS, J., SUPPIAH, R. & RICKETTS, J. 2005. Climate change impacts on fire-weather in south-east Australia. Consultancy report by CSIRO Marine and Atmospheric Research, Bureau of Meteorology and Bushfire CRC for the New South Wales Greenhouse Office, Victorian Department of Sustainability and Environment, ACT Government, Tasmanian Department of Primary Industries, Water and Environment and the Australian Greenhouse Office. Victoria
- HENRY, O., PRANDI, P., LLOVEL, W., CAZENAVE, A., JEVREJEVA, S., STAMMER, D., MEYSSIGNAC, B. & KOLDUNOV, N. 2012. Tide gauge-based sea level variations since 1950 along the Norwegian and Russian coasts of the Arctic Ocean: Contribution of the steric and mass components. *Journal of Geophysical Research-Oceans*, 117.
- HEGERL, G. C., ZWIERS, F. W., BRACONNOT, P., GILLET, N.P., LUO, Y., MARENGO ORSINI, J.A. NICHOLLS, N., PENNER, J.E. & STOTT, P.A. 2007. Understanding and Attributing Climate Change. In: *Climate Change 2007: The Physical Science Basis*. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- HILL, K. L., RINTOUL, S. R., RIDGWAY, K. R. & OKE, P. R. 2011. Decadal changes in the South Pacific western boundary current system revealed in observations and ocean state estimates. *Journal of Geophysical Research-Oceans*, 116.
- HOBBINS, M. T., RAMIREZ, J. A., BROWN, T. C. & CLAESSENS, L. 2001. The complementary relationship in estimation of regional evapotranspiration: The Complementary Relationship Areal Evapotranspiration and Advection-Aridity models. *Water Resources Research*, 37, 1367-1387.
- HOEGH-GULDBERG, O., MUMBY, P., HOOTEN, A., STENECK, R., GREENFIELD, P., GOMEZ, E., HARVELL, C., SALE, P., EDWARDS, A. & CALDEIRA, K. 2007. Coral reefs under rapid climate change and ocean acidification. *Science*, 318, 1737-1742.

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- HOLBROOK, N. J. & BINDOFF, N. L. 1997. Interannual and decadal temperature variability in the southwest Pacific Ocean between 1955 and 1988. *Journal of Climate*, 10, 1035-1049.
- HOLZ, G. K., GROSE, M. R., BENNETT, J. C., CORNEY, S. P., WHITE, C. J., PHELAN, D., POTTER, K., KRITICOS, D. J., RAWNSLEY, R., PARSONS, D., LISSON, S., GAYNOR, S. M. & BINDOFF, N. L. 2010. Climate Futures for Tasmania: impacts on agriculture technical report. Hobart, Tasmania: Antarctic Climate and Ecosystems Cooperative Research Centre.
- HOPE, P., DROSDOWSKY, W. & NICHOLLS, N. 2006. Shifts in the synoptic systems influencing southwest Western Australia. *Climate Dynamics*, 26, 751-764.
- HOPE, P., TIMBAL, B. & FAWCETT, R. 2010. Associations between rainfall variability in the southwest and southeast of Australia and their evolution through time. *International Journal of Climatology*, 30, 1360-1371.
- HU, Y., TAO, L. & LIU, J. 2013. Poleward expansion of the Hadley circulation in CMIP5 simulations. *Advances in Atmospheric Sciences*, 30, 790-795.
- HUFFMAN, G. J., ADLER, R. F., BOLVIN, D. T. & GU, G. 2009. Improving the global precipitation record: GPCP Version 2.1. *Geophysical Research Letters*, 36, L17808.
- HUNG, M., LIN, J., WANG, W., KIM, D., SHINODA, T. & WEAVER, S. 2013. MJO and Convectively Coupled Equatorial Waves Simulated by CMIP5 Climate Models. *Journal of Climate*, 26, 6185-6214.
- HUNTER, J. 2012. A simple technique for estimating an allowance for uncertain sea-level rise. *Climatic Change*, 113, 239-252.
- HUNTER, J. R., CHURCH, J. A., WHITE, N. J. & ZHANG, X. 2013. Towards a global regionally varying allowance for sea-level rise. *Ocean Engineering* 71, 17-27.
- HUNTER, J., COLEMAN, R. & PUGH, D. 2003. The sea level at Port Arthur, Tasmania, from 1841 to the present. *Geophysical Research Letters*, 30.
- HUNTINGTON, T. G. 2006. Evidence for intensification of the global water cycle: Review and synthesis. *Journal of Hydrology*, 319, 83-95.
- IGBP (International Geosphere-Biosphere Programme), 2010. IGBP Global Change magazine, 75, June 2010 www.igbp.net/publications/globalchangemagazine/globalchangemagazine/75.5.1b8ae20512db692f2a6800010715.html
- IGLESIAS-RODRIGUEZ, M. D., HALLORAN, P. R., RICKABY, R. E., HALL, I. R., COLMENERO-HIDALGO, E., GITTINS, J. R., GREEN, D. R., TYRRELL, T., GIBBS, S. J. & VON DASSOW, P. 2008. Phytoplankton calcification in a high-CO₂ world. *Science*, 320, 336-340.
- IHARA, C., KUSHNIR, Y. & CANE, M. A. 2008. Warming trend of the Indian Ocean SST and Indian Ocean dipole from 1880 to 2004. *Journal of Climate*, 21, 2035-2046.
- INNESS, P., SLINGO, J., GUILYARDI, E. & COLE, J. 2003. Simulation of the Madden-Julian oscillation in a coupled general circulation model. Part II: The role of the basic state. *Journal of Climate*, 16, 365-382.
- IOCI 2002. Climate variability and change in south west Western Australia. Technical Report, Indian Ocean Climate Initiative Panel. Perth, Australia.
- IPCC 1995 Climate change 1995: the science of climate change. Contribution of Working Group I to the Second Assessment of the Intergovernmental Panel on Climate Change. In: HOUGHTON, J. T., MEIRA FILHO, L., CALLENDER, B., HARRIS, N., KATTENBERG, A. & MASKELL, K. (eds.). Cambridge University Press Cambridge, United Kingdom.
- IPCC 2001. Climate Change 2001: The Scientific Basis. In: HOUGHTON, J. T., DING, Y., GRIGGS, D. J., NOGUER, M., VAN DER LINDEN, P. J., DAL, X., MASKELL, K. & JOHNSON, C. (eds.). Cambridge: Cambridge University Press.
- IPCC 2007. Climate Change 2007: The Physical Science basis: Working group I contribution to the Fourth Assessment report of the IPCC. In: SOLOMON, S. (ed.). Cambridge: Cambridge University Press.
- IPCC 2012. Summary for Policymakers. In: Managing the risks of extreme events and disasters to advance climate change adaptation. In: FIELD CB, V. B., TF STOCKER, D QIN, DJ DOKKEN, KL EBI, MD MASTRANDEA, KJ MARCH, GK PLATTNER, SK ALLEN, M TIGNOR, AND PM MIDGLEY (EDS) (ed.) Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change. Cambridge, UK, and New York, NY, USA: Cambridge University Press.
- IPCC 2013. Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. In: STOCKER, T. F., D. QIN, G.-K. PLATTNER, M. TIGNOR, S. K. ALLEN, J. BOSCHUNG, A. NAUELS, Y. XIA, V. BEX AND P. M. MIDGLEY (ed.).
- IPCC 2014. Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change In: EDENHOFER, O., R. PICHES-MADRUGA, Y. SOKONA, E. FARAHANI, S. KADNER, K. SEYBOTH, A. ADLER, I. BAUM, S. BRUNNER, P. EICKEMEIER, B. KRIEMANN, J. SAVOLAINEN, S. SCHLÖMER, C. VON STECHOW, T. ZWICKEL & MINX, J. C. (eds.). Cambridge, United Kingdom and New York, NY, USA.: Cambridge University Press.
- JAKOB, D. 2010. Challenges in developing a high-quality surface wind-speed data-set for Australia. *Australian Meteorological Magazine*, 60, 227-236.
- JEVREJEVA, S., GRINSTED, A., MOORE, J. C. & HOLTGATE, S. 2006. Nonlinear trends and multiyear cycles in sea level records. *Journal of Geophysical Research*, 111.
- JEVREJEVA, S., MOORE, J. C., GRINSTED, A. & WOODWORTH, P. L. 2008. Recent global sea level acceleration started over 200 years ago? *Geophysical Research Letters*, 35.
- JIANG, X., MALONEY, E., LI, J. & WALISER, D. 2013. Simulations of the Eastern North Pacific Intraseasonal Variability in CMIP5 GCMs. *Journal of Climate*, 26, 3489-3510.

- JONES, R. & MCINNES, K. 2004. A scoping study on impact and adaptation strategies for climate change in Victoria. CSIRO Atmospheric Research, Melbourne, Australia: Report to the Greenhouse unit of the Victorian department of sustainability and environment.
- JONES, D. A., WANG, W. & FAWCETT, R. 2009a. High-quality spatial climate data-sets for Australia. *Australian Meteorological and Oceanographic Journal*, 58, 233-248.
- JONES, G., STOTT, P. & CHRISTIDIS, N. 2013. Attribution of observed historical near-surface temperature variations to anthropogenic and natural causes using CMIP5 simulations. *Journal of Geophysical Research-Atmospheres*, 118, 4001-4024.
- JONES, J., FOGT, R., WIDMANN, M., MARSHALL, G., JONES, P. & VISBECK, M. 2009b. Historical SAM Variability. Part I: Century-Length Seasonal Reconstructions. *Journal of Climate*, 22, 5319-5345.
- JOSEY, S. A., KENT, E. C. & TAYLOR, P. K. 1998. The Southampton Oceanography Centre (SOC) ocean-atmosphere heat, momentum and freshwater flux atlas, Southampton Oceanography Centre Southampton, UK.
- JOURDAIN, N. C., GUPTA, A. S., TASCHETTO, A. S., UMMENHOFER, C. C., MOISE, A. F. & ASHOK, K. 2013. The Indo-Australian monsoon and its relationship to ENSO and IOD in reanalysis data and the CMIP3/CMIP5 simulations. *Climate Dynamics*, 41, 3073-3102.
- JOVANOVIĆ, B., COLLINS, D., BRAGANZA, K., JAKOB, D. & JONES, D. 2011. A high-quality monthly total cloud amount dataset for Australia. *Climatic Change*, 108, 485-517.
- JOVANOVIĆ, B., JONES, D. & COLLINS, D. 2008. A high-quality monthly pan evaporation dataset for Australia. *Climatic Change*, 87, 517-535.
- KALNAY, E., KANAMITSU, M., KISTLER, R., COLLINS, W., DEAVEN, D., GANDIN, L., IREDELL, M., SAHA, S., WHITE, G., WOOLLEN, J., ZHU, Y., CHELLIAH, M., EBISUZAKI, W., HIGGINS, W., JANOWIAK, J., MO, K. C., ROPELEWSKI, C., WANG, J., LEETMAA, A., REYNOLDS, R., JENNE, R. & JOSEPH, D. 1996. The NCEP/NCAR 40-year reanalysis project. *Bulletin of the American Meteorological Society*, 77, 437-471.
- KANAMITSU, M., EBISUZAKI, W., WOOLLEN, J., YANG, S., HNILO, J., FIORINO, M. & POTTER, G. 2002. NCEP-DOE AMIP-II reanalysis (R-2). *Bulletin of the American Meteorological Society*, 83, 1631-1643.
- KARL, T. R., NICHOLLS, N. & GHAZI, A. 1999. Clivar/GCOS/WMO workshop on indices and indicators for climate extremes workshop summary. *Weather and Climate Extremes*. Springer.
- KAROLY, D. & BRAGANZA, K. 2005. Attribution of recent temperature changes in the Australian region. *Journal of Climate*, 18, 457-464.
- KENDALL, R. A., MITROVICA, J. X. & MILNE, G. A. 2005. On post-glacial sea level - II. Numerical formulation and comparative results on spherically symmetric models. *Geophysical Journal International*, 161, 679-706.
- KENDON, E., JONES, R., KJELLSTROM, E. & MURPHY, J. 2010. Using and Designing GCM-RCM Ensemble Regional Climate Projections. *Journal of Climate*, 23, 6485-6503.
- KENT, D., KIRONO, D., TIMBAL, B. & CHIEW, F. 2013. Representation of the Australian subtropical ridge in the CMIP3 models. *International Journal of Climatology*, 33, 48-57.
- KEY, R. M., KOZYR, A., SABINE, C. L., LEE, K., WANNINKHOF, R., BULLISTER, J. L., FEELY, R. A., MILLERO, F. J., MORDY, C. & PENG, T. H. 2004. A global ocean carbon climatology: Results from Global Data Analysis Project (GLODAP). *Global Biogeochemical Cycles*, 18.
- KING, A. D., S. C. LEWIS, S. E. PERKINS, L. V. ALEXANDER, M. G. DONAT, D. J. KAROLY & M. T. BLACK 2013. Limited Evidence of Anthropogenic Influence on the 2011-12 Extreme Rainfall over Southeast Australia. In 'Explaining Extreme Events of 2012 from a Climate Perspective'. *Bull. Amer. Meteor. Soc.*, 94, S55-S58.
- KIM, D., SOBEL, A., DEL GENIO, A., CHEN, Y., CAMARGO, S., YAO, M., KELLEY, M. & NAZARENKO, L. 2012. The Tropical Subseasonal Variability Simulated in the NASA GISS General Circulation Model. *Journal of Climate*, 25, 4641-4659.
- KIM, D., SPERBER, K., STERN, W., WALISER, D., KANG, I., MALONEY, E., WANG, W., WEICKMANN, K., BENEDICT, J., KHAIROUTDINOV, M., LEE, M., NEALE, R., SUAREZ, M., THAYER-CALDER, K. & ZHANG, G. 2009. Application of MJO Simulation Diagnostics to Climate Models. *Journal of Climate*, 22, 6413-6436.
- KIRONO, D. G. C., HENNESSY, K., MPELASOKA, F. & KENT, D. 2011a. Approaches for generating climate change scenarios for use in drought projections - a review. *CAWCR Technical report No 034*.
- KIRONO, D. G. C., JONES, R. N. & CLEUGH, H. A. 2009. Pan-evaporation measurements and Morton-point potential evaporation estimates in Australia: are their trends the same? *International Journal of Climatology*, 29, 711-718.
- KIRONO, D. G. C. & KENT, D. M. 2011. Assessment of rainfall and potential evaporation from global climate models and its implications for Australian regional drought projection. *International Journal of Climatology*, 31, 1295-1308.
- KIRONO, D. G. C., KENT, D. M., HENNESSY, K. J. & MPELASOKA, F. 2011b. Characteristics of Australian droughts under enhanced greenhouse conditions: Results from 14 global climate models. *Journal of Arid Environments*, 75, 566-575.
- KNUTSON, T., MCBRIDE, J., CHAN, J., EMANUEL, K., HOLLAND, G., LANDSEA, C., HELD, I., KOSSIN, J., SRIVASTAVA, A. & SUGI, M. 2010. Tropical cyclones and climate change. *Nature Geoscience*, 3, 157-163.
- KNUTTI, R., FURRER, R., TEBALDI, C., CERMAK, J. & MEEHL, G. 2010. Challenges in Combining Projections from Multiple Climate Models. *Journal of Climate*, 23, 2739-2758.
- KNUTTI, R., MASSON, D. & GETTELMAN, A. 2013. Climate model genealogy: Generation CMIP5 and how we got there. *Geophysical Research Letters*, 40, 1194-1199.

- KNUTTI, R. & SEDLÁČEK, J. 2013. Robustness and uncertainties in the new CMIP5 climate model projections. *Nature Climate Change*, 3, 369-373.
- KOKIC, P., CRIMP, S. & HOWDEN, M. 2011. Forecasting climate variables using a mixed-effect state-space model. *Environmetrics*, 22, 409-419.
- KOPP, R. E., SIMONS, F. J., MITROVICA, J. X., MALOOF, A. C. & OPPENHEIMER, M. 2009. Probabilistic assessment of sea level during the last interglacial stage. *Nature*, 462, 863-7.
- KOPP, R. E., SIMONS, F. J., MITROVICA, J. X., MALOOF, A. C. & OPPENHEIMER, M. 2013. A probabilistic assessment of sea level variations within the last interglacial stage. *Geophysical Journal International*, 193, 711-716.
- KOSSIN, J. P., EMANUEL, K. A. & VECCHI, G. A. 2014. The poleward migration of the location of tropical cyclone maximum intensity. *Nature*, 509, 349-352.
- KUHLBRODT, T. & GREGORY, J. 2012. Ocean heat uptake and its consequences for the magnitude of sea level rise and climate change. *Geophysical Research Letters*, 39.
- KULESHOV, Y., FAWCETT, R., QI, L., TREWIN, B., JONES, D., MCBRIDE, J. & RAMSAY, H. 2010. Trends in tropical cyclones in the South Indian Ocean and the South Pacific Ocean. *Journal of Geophysical Research-Atmospheres*, 115.
- LAMBECK, K. 2002. Sea Level Change from Mid Holocene to Recent Time: an Australian Example With Global Implications. *Ice Sheets, Sea Level and the Dynamic Earth*. *Geodynamics Science* 29, 33-50.
- LAMBECK, K., ESAT, T. M. & POTTER, E. K. 2002. Links between climate and sea levels for the past three million years. *Nature*, 419, 199-206.
- LANGENBRUNNER, B. & NEELIN, J. 2013. Analyzing ENSO Teleconnections in CMIP Models as a Measure of Model Fidelity in Simulating Precipitation. *Journal of Climate*, 26, 4431-4446.
- LARGE, W. G. & YEAGER, S. 2004. Diurnal to decadal global forcing for ocean and sea-ice models: the data sets and flux climatologies. *CGD Division of the National Center for Atmospheric Research, NCAR Technical Note: NCAR/TN-460+STR*.
- LARGE, W. G. & YEAGER, S. 2009. The global climatology of an interannually varying air-sea flux data set. *Climate Dynamics*, 33, 341-364.
- LAVENDER, S. & WALSH, K. 2011. Dynamically downscaled simulations of Australian region tropical cyclones in current and future climates. *Geophysical Research Letters*, 38.
- LE QUÉRÉ, C., PETERS, G., ANDRES, R., ANDREW, R., BODEN, T., CIAIS, P., FRIEDLINGSTEIN, P., HOUGHTON, R., MARLAND, G., MORIARTY, R., SITCH, S., TANS, P., ARNETH, A., ARVANITIS, A., BAKKER, D. C. E., BOPP, L., CANADELL, J. G., CHINI, L. P., DONEY, S. C., HARPER, A., HARRIS, I., HOUSE, J. I., JAIN, A. K., JONES, S. D., KATO, E., KEELING, R. F., KLEIN GOLDEWIJK, K., KÖRTZINGER, A., KOVEN, C., LEFÈVRE, N., MAIGNAN, F., OMAR, A., ONO, T., PARK, G.-H., PFEIL, B., POULTER, B., RAUPACH, M. R., REGNIER, P., RÖDENBECK, C., SAITO, S., SCHWINGER, J., SEGSCHEIDER, J., STOCKER, B. D., TAKAHASHI, T., TILBROOK, B., VAN HEUVEN, S., VIOVY, N., WANNINKHOF, R., WILTSHIRE, A. & ZAEHLE, S. 2013. Global carbon budget 2013. *Earth System Science Data Discussions*, 6, 689-760.
- LEE, J.-Y. & WANG, B. 2014. Future change of global monsoon in the CMIP5. *Climate Dynamics*, 42, 101-119.
- LEONARD, M., WESTRA, S., PHATAK, A., LAMBERT, M., VAN DEN HURK, B., MCINNES, K., RISBEY, J., SCHUSTER, S., JAKOB, D. & STAFFORD-SMITH, M. 2013. A compound event framework for understanding extreme impacts. *Wiley Interdisciplinary Reviews: Climate Change* 5(1) 113-128.
- LEVITUS, S., ANTONOV, J., BOYER, T. & STEPHENS, C. 2000. Warming of the world ocean. *Science*, 287, 2225-2229.
- LEWIS, S. & KAROLY, D. 2013. Anthropogenic contributions to Australia's record summer temperatures of 2013. *Geophysical Research Letters*, 40, 3705-3709.
- LEWIS, S. C. & KAROLY, D. J. 2014. The role of anthropogenic forcing in the record 2013 Australia-wide annual and spring temperatures. *Bulletin of the American Meteorological Society*, (in press).
- LI, X.-F., YU, J. & LI, Y. 2013. Recent Summer Rainfall Increase and Surface Cooling over Northern Australia since the Late 1970s: A Response to Warming in the Tropical Western Pacific. *Journal of Climate*, 26, 7221-7239.
- LI, Y., LI, J. & FENG, J. 2012. A Teleconnection between the Reduction of Rainfall in Southwest Western Australia and North China. *Journal of Climate*, 25, 8444-8461.
- LIMA, F. & WETHEY, D. 2012. Three decades of high-resolution coastal sea surface temperatures reveal more than warming. *Nature Communications*, 3.
- LIN, J., KILADIS, G., MAPES, B., WEICKMANN, K., SPERBER, K., LIN, W., WHEELER, M., SCHUBERT, S., DEL GENIO, A., DONNER, L., EMORI, S., GUEREMY, J., HOURDIN, F., RASCH, P., ROECKNER, E. & SCINOCCA, J. 2006. Tropical intraseasonal variability in 14 IPCC AR4 climate models. Part I: Convective signals. *Journal of Climate*, 19, 2665-2690.
- LIU, L., YU, W. & LI, T. 2011. Dynamic and Thermodynamic Air-Sea Coupling Associated with the Indian Ocean Dipole Diagnosed from 23 WCRP CMIP3 Models. *Journal of Climate*, 24, 4941-4958.
- LLOYD-HUGHES, B. & SAUNDERS, M. A. 2002. A drought climatology for Europe. *International Journal of Climatology*, 22, 1571-1592.

- LOCARNINI, R. A., MISHONOV, A. V., ANTONOV, J. I., BOYER, T. P. & GARCIA, H. E., BARANOVA, O. K., ZWENG, M. M. & JOHNSON, D. R. 2010. World Ocean Atlas 2009, Volume 1: Temperature. In: S. LEVITUS (ed.). NOAA Atlas NESDIS 68, U.S. Government Printing Office, Washington, D.C., 184 pp ftp://ftp.nodc.noaa.gov/pub/WOA09/DOC/wao09_vol1_text.pdf
- LUCAS, C., HENNESSY, K., MILLS, G. & BATHOLS, J. 2007. Bushfire Weather in Southeast Australia: Recent Trends and Projected Climate Change Impacts. Consultancy Report prepared for The Climate Institute of Australia. Bush fire Cooperative Research Centre: Victoria
- LUCAS, C. 2010a. A high-quality historical humidity database for Australia. Australia: CAWCR Tehnical Report No 024.
- LUCAS, C. 2010b. On developing a historical fire weather data-set for Australia. Australian Meteorological and Oceanographic Journal, 60, 1-13.
- LUCAS, C., NGUYEN, H. & TIMBAL, B. 2012. An observational analysis of Southern Hemisphere tropical expansion. Journal of Geophysical Research-Atmospheres, 117.
- LUCAS, C., TIMBAL, B. & NGUYEN, H. 2014. The expanding tropics: a critical assessment of the observational and modeling studies. Wiley Interdisciplinary Reviews: Climate Change 5(1) 89-112.
- MADDEN, R. A. & JULIAN, P. R. 1972. Description of global-scale circulation cells in the tropics with a 40-50 day period. Journal of the Atmospheric Sciences, 29, 1109-1123.
- MADDEN, R. A. & JULIAN, P. R. 1994. Observations of the 40-50-day tropical oscillation-A review. Monthly Weather Review, 122, 814-837.
- MARAUN, D., WETTERHALL, F., IRESON, A., CHANDLER, R., KENDON, E., WIDMANN, M., BRIENEN, S., RUST, H., SAUTER, T. & THEMEßL, M. 2010. Precipitation downscaling under climate change: recent developments to bridge the gap between dynamical models and the end user. Reviews of Geophysics, 48, (3).
- MARSHALL, G. 2007. Half-century seasonal relationships between the Southern Annular Mode and Antarctic temperatures. International Journal of Climatology, 27, 373-383.
- MASSON-DELMOTTE, V., SCHULZ, M., ABE-OUCHI, A., BEER, J., GANOPOLSKI, A., GONZÁLEZ-ROUCO, J.-E., JANSEN, E., LAMBECK, K., LUTERBACHER, J., NAISH, T., OSBORN, T., OTTO-BLIESNER, B., QUINN, T., RAMESH, R., ROJAS, M., SHAO, X. & TIMMERMANN, A. 2014. Chapter 5: Information from the Paleoclimate Archives. In: STOCKER, T. F., D. QIN, G.-K. PLATTNER, M. TIGNOR, S. K. ALLEN, J. BOSCHUNG, A. NAUELS, Y. XIA, V. BEX AND P. M. MIDGLEY (ed.) Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change.
- MASTRANDREA, M. D., FIELD, C. B., STOCKER, T. F., EDENHOFER, O., EBI, K. L., FRAME, D. J., HELD, H., KRIEGLER, E., MACH, K. J. & MATSCHOSS, P. R. 2010. Guidance note for lead authors of the IPCC fifth assessment report on consistent treatment of uncertainties. Intergovernmental Panel on Climate Change (IPCC).
- MASTERS, D., NEREM, R. S., CHOE, C., LEULIETTE, E., BECKLEY, B., WHITE, N. & ABLAIN, M. 2012. Comparison of Global Mean Sea Level Time Series from TOPEX/Poseidon, Jason-1, and Jason-2. Marine Geodesy, 35, 20-41.
- MATEAR, R., CHAMBERLAIN, M., SUN, C. & FENG, M. 2013. Climate change projection of the Tasman Sea from an Eddy-resolving Ocean Model. Journal of Geophysical Research: Oceans, 118, 2961-2976.
- MAXINO, C., MCAVANEY, B., PITMAN, A. & PERKINS, S. 2008. Ranking the AR4 climate models over the Murray-Darling Basin using simulated maximum temperature, minimum temperature and precipitation. International Journal of Climatology, 1097-1112.
- MCARTHUR, A. G. 1967. Fire behaviour in Eucalypt forests. Leaflet. Forestry Timber Bureau Australia, 35-35.
- MCBRIDE, J. L. & NICHOLLS, N. 1983. Seasonal relationships between Australian rainfall and the Southern Oscillation. Monthly Weather Review, 111, 1998-2004.
- MCCOWN, R. L., HAMMER, G. L., HARGREAVES, J. N. G., HOLZWORTH, D. P. & FREEBAIRN, D. M. 1996. APSIM: A Novel Software System for Model Development, Model Testing, and Simulation in Agricultural Research. Agricultural Systems, 50, 255-271.
- MCEVOY, D., AHMED, I. & MULLETT, J. 2012. The impact of the 2009 heat wave on Melbourne's critical infrastructure. Local Environment, 17, 783-796.
- MCGRATH, G. S., SADLER, R., FLEMING, K., TREGONING, P., HINZ, C. & VENEKLAAS, E. J. 2012. Tropical cyclones and the ecohydrology of Australia's recent continental-scale drought. Geophysical Research Letters, 39.
- MCGREGOR, J. L. & DIX, M. R. 2008. An updated description of the conformal-cubic atmospheric model. High resolution numerical modelling of the atmosphere and ocean, Springer: 51-76.
- MCINNES, K., ERWIN, T. & BATHOLS, J. 2011. Global Climate Model projected changes in 10 m wind speed and direction due to anthropogenic climate change. Atmospheric Science Letters, 12, 325-333.
- MCINNES, K. & HUBBERT, G. 2003. A numerical modelling study of storm surges in Bass Strait. Australian Meteorological Magazine, 52, 143-156.
- MCINNES, K., HUBBERT, G., ABBS, D. & OLIVER, S. 2002. A numerical modelling study of coastal flooding. Meteorology and Atmospheric Physics, 80, 217-233.
- MCKEE, T. B., DOESKEN, N. J. & KLEIST, J. 1993. The relationship of drought frequency and duration to time scales. Proceedings of the 8th Conference on Applied Climatology, American Meteorological Society Boston, MA, 179-183.

- MCMAHON, T. A., PEEL, M. C., LOWE, L., SRIKANTHAN, R. & MCVICAR, T. R. 2013. Estimating actual, potential, reference crop and pan evaporation using standard meteorological data: a pragmatic synthesis. *Hydrology and Earth System Sciences*, 17, 1331-1363.
- MCVICAR, T., RODERICK, M., DONOHUE, R., LI, L., VAN NIEL, T., THOMAS, A., GRIESER, J., JHAJHARIA, D., HIMRI, Y., MAHOWALD, N., MESCHERSKAYA, A., KRUGER, A., REHMAN, S. & DINPASHOH, Y. 2012. Global review and synthesis of trends in observed terrestrial near-surface wind speeds: Implications for evaporation. *Journal of Hydrology*, 416, 182-205.
- MCVICAR, T., VAN NIEL, T., LI, L., RODERICK, M., RAYNER, D., RICCIARDULLI, L. & DONOHUE, R. 2008. Wind speed climatology and trends for Australia, 1975-2006: Capturing the stilling phenomenon and comparison with near-surface reanalysis output. *Geophysical Research Letters*, 35.
- MEARNS, L. O., GUTOWSKI, W., JONES, R., LEUNG, R., MCGINNIS, S., NUNES, A. & QIAN, Y. 2009. A regional climate change assessment program for North America. *Eos, Transactions American Geophysical Union*, 90, 311-311.
- MEEHL, G., ARBLASTER, J., MATTHES, K., SASSI, F. & VAN LOON, H. 2009. Amplifying the Pacific Climate System Response to a Small 11-Year Solar Cycle Forcing. *Science*, 325, 1114-1118.
- MEEHL, G. A., COVEY, C., TAYLOR, K. E., DELWORTH, T., STOUFFER, R. J., LATIF, M., MCAVANEY, B. & MITCHELL, J. F. B. 2007. THE WCRP CMIP3 Multimodel Dataset: A New Era in Climate Change Research. *Bulletin of the American Meteorological Society*, 88, 1383-1394.
- MEINSHAUSEN, M., SMITH, S., CALVIN, K., DANIEL, J., KAINUMA, M., LAMARQUE, J., MATSUMOTO, K., MONTZKA, S., RAPER, S., RIAHI, K., THOMSON, A., VELDEERS, G. & VAN VUUREN, D. 2011. The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. *Climatic Change*, 109, 213-241.
- MEYERS, G., MCINTOSH, P., PIGOT, L. & POOK, M. 2007. The years of El Niño, La Niña, and interactions with the tropical Indian ocean. *Journal of Climate*, 20, 2872-2880.
- MILLS, G. 2005. A re-examination of the synoptic and mesoscale meteorology of Ash Wednesday 1983. *Australian Meteorological Magazine*, 54, 35-55.
- MILLS, G. A., WEBB, R., DAVIDSON, N. E., KEPERT, J., SEED, A. & ABBS, D. 2010. The Pasha Bulker east coast low of 8 June 2007. Centre for Australian Weather and Climate Research, Australia, CAWCR Technical Report 23.
- MIN, S., SIMONIS, D. & HENSE, A. 2007. Probabilistic climate change predictions applying Bayesian model averaging. *Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences*, 365, 2103-2116.
- MITCHELL, R., FORGAN, B., CAMPBELL, S. & QIN, Y. 2013. The climatology of Australian tropical aerosol: Evidence for regional correlation. *Geophysical Research Letters*, 40, 2384-2389.
- MITROVICA, J. X., GOMEZ, N., MORROW, E., HAY, C., LATYCHEV, K. & TAMISIEA, M. E. 2011. On the robustness of predictions of sea level fingerprints. *Geophysical Journal International*, 187, 729-742.
- MIZUTA, R., YOSHIMURA, H., MURAKAMI, H., MATSUEDA, M., ENDO, H., OSE, T., KAMIGUCHI, K., HOSAKA, M., SUGI, M., YUKIMOTO, S., KUSUNOKI, S. & KITO, A. 2012. Climate Simulations Using MRI-AGCM3.2 with 20-km Grid. *Journal of the Meteorological Society of Japan*, 90A, 233-258.
- MOISE, A., COLMAN, R. & BROWN, J. 2012. Behind uncertainties in projections of Australian tropical climate: Analysis of 19 CMIP3 models. *Journal of Geophysical Research-Atmospheres*, 117.
- MOISE, A. & HUDSON, D. 2008. Probabilistic predictions of climate change for Australia and southern Africa using the reliability ensemble average of IPCC CMIP3 model simulations. *Journal of Geophysical Research-Atmospheres*, 113 (D15).
- MORICE, C. P., KENNEDY, J. J., RAYNER, N. A. & JONES, P. D. 2012. Quantifying uncertainties in global and regional temperature change using an ensemble of observational estimates: The HadCRUT4 data set. *Journal of Geophysical Research: Atmospheres* (1984–2012), 117.
- MÖRNER, N.-A. & ETIOPE, G. 2002. Carbon degassing from the lithosphere. *Global and Planetary Change*, 33, 185-203.
- MORTON, F. I. 1983. Operational estimates of areal evapotranspiration and their significance to the science and practice of hydrology. *Journal of Hydrology*, 66, 1-76.
- MOSS, R., EDMONDS, J., HIBBARD, K., MANNING, M., ROSE, S., VAN VUUREN, D., CARTER, T., EMORI, S., KAINUMA, M., KRAM, T., MEEHL, G., MITCHELL, J., NAKICENOVIC, N., RIAHI, K., SMITH, S., STOUFFER, R., THOMSON, A., WEYANT, J. & WILBANKS, T. 2010. The next generation of scenarios for climate change research and assessment. *Nature*, 463, 747-756.
- MOY, A. D., HOWARD, W. R., BRAY, S. G. & TRULL, T. W. 2009. Reduced calcification in modern Southern Ocean planktonic foraminifera. *Nature Geoscience*, 2, 276-280.
- MUNDAY, P. L., DIXSON, D. L., MCCORMICK, M. I., MEEKAN, M., FERRARI, M. C. & CHIVERS, D. P. 2010. Replenishment of fish populations is threatened by ocean acidification. *Proceedings of the National Academy of Sciences*, 107, 12930-12934.
- MUNDAY, P. L., DONELSON, J. M., DIXSON, D. L. & ENDO, G. G. 2009. Effects of ocean acidification on the early life history of a tropical marine fish. *Proceedings of the Royal Society B: Biological Sciences*, 276, 3275-3283.
- MURAKAMI, H. & WANG, B. 2010. Future Change of North Atlantic Tropical Cyclone Tracks: Projection by a 20-km-Mesh Global Atmospheric Model. *Journal of Climate*, 23, 2699-2721.

- MURAKAMI, H., MIZUTA, R. & SHINDO, E. 2012. Future changes in tropical cyclone activity projected by multi-physics and multi-SST ensemble experiments using the 60-km-mesh MRI-AGCM. *Climate Dynamics*, 39 (9-10), 2569-2584.
- MURPHY, B. & TIMBAL, B. 2008. A review of recent climate variability and climate change in southeastern Australia. *International Journal of Climatology*, 28, 859-879.
- MYHRE, G., MYHRE, C., SAMSET, B. & STORELVMO, T. 2013. Aerosols and their Relation to Global Climate and Climate Sensitivity. *Nature Education Knowledge*, 4, 7.
- NAKIĆENOVIĆ, N. & SWART, R. (eds.) 2000. Special Report on Emissions Scenarios. A Special Report of Working Group III of the Intergovernmental Panel on Climate Change, Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- NEELIN, J., CHOU, C. & SU, H. 2003. Tropical drought regions in global warming and El Niño teleconnections. *Geophysical Research Letters*, 30.
- NEELIN, J. D. 2007. Moist dynamics of tropical convection zones in monsoons, teleconnections, and global warming. In: T. SCHNEIDER & A. SOBEL (eds.) *Moist dynamics of tropical convection zones in monsoons, teleconnections and global warming*. Princeton: Princeton University Press.
- NGUYEN, H., EVANS, A., LUCAS, C., SMITH, I. & TIMBAL, B. 2013. The Hadley Circulation in Reanalyses: Climatology, Variability, and Change. *Journal of Climate*, 26, 3357-3376.
- NGUYEN, K. & WALSH, K. 2001. Interannual, decadal, and transient greenhouse simulation of tropical cyclone-like vortices in a regional climate model of the South Pacific. *Journal of Climate*, 14, 3043-3054.
- NICHOLLS, N. 2004. The changing nature of Australian droughts. *Climatic Change*, 63, 323-336.
- NICHOLLS, N. 2010. Local and remote causes of the southern Australian autumn-winter rainfall decline, 1958-2007. *Climate Dynamics*, 34, 835-845.
- NUNEZ, M. & LI, Y. 2008. A cloud-based reconstruction of surface solar radiation trends for Australia. *Theoretical and Applied Climatology*, 91, 59-75.
- O'GORMAN, P. & SCHNEIDER, T. 2009. The physical basis for increases in precipitation extremes in simulations of 21st-century climate change. *Proceedings of the National Academy of Sciences of the United States of America*, 106, 14773-14777.
- ONOGI, K., TSUTSUI, J., KOIDE, H., SAKAMOTO, M., KOBAYASHI, S., HATSUSHIKA, H., MATSUMOTO, T., YAMAZAKI, N., KAMAHORI, H., TAKAHASHI, K., KADOKURA, S., WADA, K., KATO, K., OYAMA, R., OSE, T., MANNOJI, N. & TAIRA, R. 2007. The JRA-25 Reanalysis. *Journal of the Meteorological Society of Japan*. Ser. II, 86, (3), 369-432.
- ORLOWSKY, B. & SENEVIRATNE, S. I. 2013. Elusive drought: uncertainty in observed trends and short- and long-term CMIP5 projections. *Hydrology and Earth System Sciences*, 17, 1765-1781.
- ORR, J. C., FABRY, V. J., AUMONT, O., BOPP, L., DONEY, S. C., FEELY, R. A., GNANADESIKAN, A., GRUBER, N., ISHIDA, A. & JOOS, F. 2005. Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature*, 437, 681-686.
- OTTO, F., MASSEY, N., VAN OLDENBORGH, G., JONES, R. & ALLEN, M. 2012. Reconciling two approaches to attribution of the 2010 Russian heat wave. *Geophysical Research Letters*, 39.
- PAETH, H. & MANNIG, B. 2013. On the added value of regional climate modeling in climate change assessment. *Climate Dynamics*, 41, 1057-1066.
- PAGE, C. M. & JONES, D. 2001. OzClim: The development of a climate scenario generator for Australia. In: ZERGER, A. & ARGENT, R. M. (eds.) *MODSIM 2001 International Congress on Modelling and Simulation*. Modelling and Simulation Society of Australia and New Zealand.
- PARKER, W. S. 2013. Ensemble modeling, uncertainty and robust predictions. *Wiley Interdisciplinary Reviews: Climate Change*, 4, 213-223.
- PATTIARATCHI, C. & ELIOT, M. 2008. Sea level variability in south-west Australia: from hours to decades. *Proceedings of the 31st ASCE International Conference on Coastal Engineering (Hamburg, Germany)*.
- PEARCE, A. F. & FENG, M. 2013. The rise and fall of the "marine heat wave" off Western Australia during the summer of 2010/2011. *Journal of Marine Systems*, 111, 139-156.
- PELTIER, W. R. 2004. GLOBAL GLACIAL ISOSTASY AND THE SURFACE OF THE ICE-AGE EARTH: The ICE-5G (VM2) Model and GRACE. *Annual Review of Earth and Planetary Sciences*, 32, 111-149.
- PEPLER, A., COUTTS-SMITH, A. & TIMBAL, B. 2014. The role of East Coast Lows on rainfall patterns and inter-annual variability across the East Coast of Australia. *International Journal of Climatology*, 34, 1011-1021.
- PEPLER, A. S. & RAKICH, C. S. 2010. Extreme inflow events and synoptic forcing in Sydney catchments. *IOP Conference Series: Earth and Environmental Science*, 2010. IOP Publishing, 012010.
- PERCIVAL, D. B. & MOFJELD, H. O. 1997. Analysis of subtidal coastal sea level fluctuations using wavelets. *Journal of the American Statistical Association*, 92, 868-880.
- PERKINS, S., ALEXANDER, L. & NAIRN, J. 2012. Increasing frequency, intensity and duration of observed global heatwaves and warm spells. *Geophysical Research Letters*, 39.
- PERKINS, S., PITMAN, A. & SISSON, S. 2009. Smaller projected increases in 20-year temperature returns over Australia in skill-selected climate models. *Geophysical Research Letters*, 36.
- PERKINS, S. E., PITMAN, A. J., HOLBROOK, N. J. & MCANENEY, J. 2007. Evaluation of the AR4 climate models' simulated daily maximum temperature, minimum temperature, and precipitation over Australia using probability density functions. *Journal of Climate*, 20, 4356-4376.

- PETHERAM, C., RUSTOMJI, P. & VLEESHOUWER, J. 2009. Rainfall-runoff modelling across northern Australia. A report to the Australian Government from the CSIRO Northern Australia Sustainable Yields Project. CSIRO Water for a Healthy Country Flagship, Australia.
- PHILANDER, G. (ed.) 1990. *El Niño, La Niña, and the Southern Oscillation*, San Diego, CA: Academic Press.
- PITMAN, A. J., NARISMA, G. T., PIELKE, R. & HOLBROOK, N. 2004. Impact of land cover change on the climate of southwest Western Australia. *Journal of Geophysical Research: Atmospheres* (1984–2012), 109, 1-12.
- PITMAN, A. & PERKINS, S. 2008. Regional Projections of Future Seasonal and Annual Changes in Rainfall and Temperature over Australia Based on Skill-Selected AR4 Models. *Earth Interactions*, 12(12), 1-50.
- POLVANI, L., WAUGH, D., CORREA, G. & SON, S. 2011. Stratospheric Ozone Depletion: The Main Driver of Twentieth-Century Atmospheric Circulation Changes in the Southern Hemisphere. *Journal of Climate*, 24, 795-812.
- POOK, M. & GIBSON, T. 1999. Atmospheric blocking and storm tracks during SOP-1 of the FROST Project. *Australian Meteorological Magazine*, 51-60.
- POOK, M., RISBEY, J., MCINTOSH, P., UMMENHOFER, C., MARSHALL, A. & MEYERS, G. 2013. The Seasonal Cycle of Blocking and Associated Physical Mechanisms in the Australian Region and Relationship with Rainfall. *Monthly Weather Review*, 141, 4534-4553.
- POOK, M. J., RISBEY, J. S. & MCINTOSH, P. C. 2012. The synoptic climatology of cool-season rainfall in the Central Wheatbelt of Western Australia. *Monthly Weather Review*, 140, 28-43.
- POST, D., CHIEW, F., TENG, J., VAZE, J., MPELASOKA, F., SMITH, I., KATZFEY, J., MARSTON, F., MARVANEK, S. & KIRONO, D. 2009. Production of climate scenarios for Tasmania.: a report to the Australian Government from the CSIRO Tasmania Sustainable Yields Project. CSIRO Water for Healthy Country Flagship, Australia. 49.
- POST, D. A., CHIEW, F. H. S., TENG, J., WANG, B. & MARVANEK, S. 2012. Projected changes in climate and runoff for south-eastern Australia under 1 °C and 2 °C of global warming. A SEACI Phase 2 special report Australia: CSIRO.
- POTTER, N. J., CHIEW, F. H. S., FROST, A. J., SRIKANTHAN, R., MCMAHON, T. A., PEEL, M. C. & AUSTIN, J. M. 2008. Characterisation of recent rainfall and runoff in the Murray-Darling Basin. A report to the Australian Government from the CSIRO Murray-Darling Basin Sustainable Yields Project. CSIRO, Australia.
- POWER, S., CASEY, T., FOLLAND, C., COLMAN, A. & MEHTA, V. 1999. Inter-decadal modulation of the impact of ENSO on Australia. *Climate Dynamics*, 15, 319-324.
- POWER, S. & COLMAN, R. 2006. Multi-year predictability in a coupled general circulation model. *Climate Dynamics*, 26, 247-272.
- POWER, S., DELAGE, F., CHUNG, C., KOCIUBA, G. & KEAY, K. 2013. Robust twenty-first-century projections of El Niño and related precipitation variability. *Nature*, 502, 541-545.
- POWER, S., HAYLOCK, M., COLMAN, R. & WANG, X. 2006. The predictability of interdecadal changes in ENSO activity and ENSO teleconnections. *Journal of Climate*, 19, 4755-4771.
- PREVIDI, M. & LIEPERT, B. 2007. Annular modes and Hadley cell expansion under global warming. *Geophysical Research Letters*, 34.
- RAFTER, A. & ABBS, D. 2009. An analysis of future changes in extreme rainfall over Australian regions based on GCM simulations and Extreme Value Analysis. In: SANDERY, P. A., LEEUWENBURG, T., WANG, G. & HOLLIS, A. J. (eds.) *CAWCR Research Letters*, Issue 3. Melbourne: CSIRO.
- RAHMSTORF, S. & COUMOU, D. 2011. Increase of extreme events in a warming world. *Proceedings of the National Academy of Sciences of the United States of America*, 108, 17905-17909.
- RANDALL, D. A., WOOD, R. A., BONY, S., COLMAN, R., FICHEFET, T., FYFE, J., KATTSOV, J., PITMAN, A., SHUKLA, J., SRINIVASAN, J., STOUFFER, R. J., SUMI, A. & TAYLOR, K. E. 2007. *Climate Models and Their Evaluation*. In: *Climate Change 2007: The Physical Science Basis*. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M.Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- RAPHAEL, M. & HOLLAND, M. 2006. Twentieth century simulation of the southern hemisphere climate in coupled models. Part 1: large scale circulation variability. *Climate Dynamics*, 26, 217-228.
- RAUPACH, M., BRIGGS, P., HAVERD, V., KING, E., PAGET, M. & TRUDINGER, C. 2009. Australian Water Availability Project (AWAP). Canberra, Australia.(www.csiro.au/awap): CSIRO Marine and Atmospheric Research, Component: Final Report for Phase 3. CAWCR Technical Report No. 013.
- RAUPACH, M., BRIGGS, P., HAVERD, V., KING, E., PAGET, M. & TRUDINGER, C. 2012. Australian Water Availability Project. Canberra, Australia: CSIRO Marine and Atmospheric Research. www.csiro.au/awap
- RAVEN, J., CALDEIRA, K., ELDERFIELD, H., HOEGH-GULDBERG, O., LISS, P., RIEBESELL, U., SHEPHERD, J., TURLEY, C. & WATSON, A. 2005. Ocean acidification due to increasing atmospheric carbon dioxide, The Royal Society.
- RAY, R. D. & DOUGLAS, B. C. 2011. Experiments in reconstructing twentieth-century sea levels. *Progress in Oceanography*, 91, 496-515.

- RAYNER, N. A., PARKER, D. E., HORTON, E. B., FOLLAND, C. K., ALEXANDER, L. V., ROWELL, D. P., KENT, E. C. & KAPLAN, A. 2003. Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. *Journal of Geophysical Research: Atmospheres*, 108, D1.
- REINECKER, M. M., SUAREZ, M. J., GELARO, R., TODLING, R., BACMEISTER, J., LIU, E., BOSILOVICH, M. G., SCHUBERT, S. D., TAKACS, L., KIM, G.-K., BLOOM, S., CHEN, J., COLLINS, D., CONATY, A., DA SILVA, A., GU, W., JOINER, J., KOSTER, R. D., LUCCHESI, R., MOLOD, A., OWENS, T., PAWSON, S., PEGION, P., REDDER, C. R., REICHLE, R., ROBERTSON, F. R., RUDDICK, A. G., SIENKIEWICZ, M. & WOOLLEN, J. 2011. MERRA: NASA's Modern-Era Retrospective Analysis for Research and Applications. *Journal of Climate*, 24, 3624–3648.
- RICKETTS, J. & PAGE, C. M. 2007. A web based version of OzClim for exploring climate change impacts and risks in the Australian region. In: OXLEY, L. & KULASIRI, D. (eds.) MODSIM 2007 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand.
- RIDGWAY, K. 2007. Long-term trend and decadal variability of the southward penetration of the East Australian Current. *Geophysical Research Letters*, 34 (13), L13613.
- RIDGWAY, K., DUNN, J. & WILKIN, J. 2002. Ocean interpolation by four-dimensional weighted least squares-application to the waters around Australasia. *Journal of Atmospheric and Oceanic Technology*, 19, 1357-1375.
- RISBEY, J., KAROLY, D., REYNOLDS, A. & BRAGANZA, K. 2003. Global warming signature in Australia's worst drought. 16, 6-11.
- RISBEY, J., MCINTOSH, P. & POOK, M. 2013a. Synoptic components of rainfall variability and trends in southeast Australia. *International Journal of Climatology*, 33, 2459-2472.
- RISBEY, J., POOK, M. & MCINTOSH, P. 2013b. Spatial trends in synoptic rainfall in southern Australia. *Geophysical Research Letters*, 40, 3781-3785.
- RISBEY, J., POOK, M., MCINTOSH, P., UMMENHOFER, C. & MEYERS, G. 2009a. Characteristics and variability of synoptic features associated with cool season rainfall in southeastern Australia. *International Journal of Climatology*, 29, 1595-1613.
- RISBEY, J., POOK, M., MCINTOSH, P., WHEELER, M. & HENDON, H. 2009b. On the Remote Drivers of Rainfall Variability in Australia. *Monthly Weather Review*, 137, 3233-3253.
- ROGELJ, J., MEINSHAUSEN, M. & KNUTTI, R. 2012. Global warming under old and new scenarios using IPCC climate sensitivity range estimates. *Nature Climate Change*, 2, 248-253.
- ROHLING, E. J., GRANT, K., BOLSHAW, M., ROBERTS, A. P., SIDDALL, M., HEMLEBEN, C. & KUCERA, M. 2009. Antarctic temperature and global sea level closely coupled over the past five glacial cycles. *Nature Geoscience*, 2, 500-504.
- ROPELEWSKI, C. F. & HALPERT, M. 1989. Precipitation patterns associated with the high index phase of the Southern Oscillation. *Journal of Climate*, 2, 268-284.
- RUDOLF, B., BECK, C., GRIESER, J. & SCHNEIDER, U. 2005. Global Precipitation Analysis Products. Global Precipitation Climatology Centre (GPCC), DWD, Internet publication, 1-8. www.gewex.org/PAN-GEWEX-MTG/Pan-GEWEX_GPCC-2006.pdf
- RUMMUKAINEN, M. 2010. State-of-the-art with regional climate models. *Wiley Interdisciplinary Reviews: Climate Change*, 1, 82-96.
- SAHA, S., MOORTHY, S., PAN, H.-L., WU, X., WANG, J., NADIGA, S., TRIPP, P., KISTLER, R., WOOLLEN, J., BEHRINGER, D., LIU, H., STOKES, D., GRUMBINE, R., GAYNO, G., WANG, J., HOU, Y.-T., CHUANG, H.-Y., JUANG, H.-M. H., SELA, J., IREDELL, M., TREADON, R., KLEIST, D., VAN DELST, P., KEYSER, D., DERBER, J., EK, M., MENG, J., WEI, H., YANG, R., LORD, S., VAN DEN DOOL, H., KUMAR, A., WANG, W., LONG, C., CHELLIAH, M., XUE, Y., HUANG, B., SCHEMM, J.-K., EBISUZAKI, W., LIN, R., XIE, P., CHEN, M., ZHOU, S., HIGGINS, W., ZOU, C.-Z., LIU, Q., CHEN, Y., HAN, Y., CUCURULL, L., REYNOLDS, R. W., RUTLEDGE, G. & GOLDBERG, M. 2010. The NCEP Climate Forecast System Reanalysis. *Bulletin of the American Meteorological Society*, 91, 1015–1057.
- SAJI, N., GOSWAMI, B., VINAYACHANDRAN, P. & YAMAGATA, T. 1999. A dipole mode in the tropical Indian Ocean. *Nature*, 401, 360-363.
- SAJI, N., XIE, S. & YAMAGATA, T. 2006. Tropical Indian Ocean variability in the IPCC twentieth-century climate simulations. *Journal of Climate*, 19, 4397-4417.
- SALLENGER, A. H., DORAN, K. S. & HOWD, P. A. 2012. Hotspot of accelerated sea-level rise on the Atlantic coast of North America. *Nature Climate Change*, 2, 884-888.
- SANTOSO, A., MCGREGOR, S., JIN, F.-F., CAI, W., ENGLAND, M. H., AN, S.-I., MCPHADEN, M. J. & GUILYARDI, E. 2013. Late-twentieth-century emergence of the El Niño propagation asymmetry and future projections. *Nature*, 504, 126-130.
- SEN GUPTA, A. & ENGLAND, M. H. 2006. Coupled Ocean–Atmosphere–Ice Response to Variations in the Southern Annular Mode. *Journal of Climate*, 19, 4457-4486.
- SCAIFE, A. A., COPSEY, D., KENDON, L., VIDALE, P.-L., MARTIN, G. M., MILTON, S., MOUFOUMA-OKIA, W., ROBERTS, M. J., PALMER, WALTERS, D. N. & WILLIAMS, K. 2011. Final Report of the CAPTIVATE model development project. Deliverable D3.2.7 (Internal Report), Met. Office Hadley Centre.
- SENEVIRATNE, S. I. 2012. CLIMATE SCIENCE Historical drought trends revisited. *Nature*, 491, 338-339.
- SEWPA. 2013. Australia's Ecoregions [Online]. Department of Sustainability, Environment, Water, Populations and Communities. Available: <http://www.environment.gov.au/parks/nrs/science/bioregion-framework/terrestrial-habitats.html>

- SHI, G., CAI, W., COWAN, T., RIBBE, J., ROTSTAYN, L. & DIX, M. 2008. Variability and trend of North West Australia rainfall: observations and coupled climate modeling. *Journal of Climate*, 21, 2938-2959.
- SILVERMAN, J., LAZAR, B., CAO, L., CALDEIRA, K. & EREZ, J. 2009. Coral reefs may start dissolving when atmospheric CO₂ doubles. *Geophysical Research Letters*, 36.
- SIMMONDS, I. & KEAY, K. 2000. Mean Southern Hemisphere extratropical cyclone behavior in the 40-year NCEP-NCAR reanalysis. *Journal of Climate*, 13, 873-885.
- SIMMONDS, I., KEAY, K. & BYE, J. 2012. Identification and Climatology of Southern Hemisphere Mobile Fronts in a Modern Reanalysis. *Journal of Climate*, 25, 1945-1962.
- SIMMONS, A., WILLET, K., JONES, P., THORNE, P. & DEE, D. 2010. Low-frequency variations in surface atmospheric humidity, temperature, and precipitation: Inferences from reanalyses and monthly gridded observational data sets. *Journal of Geophysical Research-Atmospheres*, 115.
- SLANGEN, A. B. A., KATSMAN, C. A., VAN DE WAL, R. S. W., VERMEERSEN, L. L. A. & RIVA, R. E. M. 2012. Towards regional projections of twenty-first century sea-level change based on IPCC SRES scenarios. *Climate Dynamics*, 38, 1191-1209.
- SMITH, I. & CHANDLER, E. 2010. Refining rainfall projections for the Murray Darling Basin of south-east Australia--the effect of sampling model results based on performance. *Climatic Change*, 102, 377-393.
- SMITH, R. L., TEBALDI, C., NYCHKA, D. & MEARNES, L. O. 2009. Bayesian Modeling of Uncertainty in Ensembles of Climate Models. *Journal of the American Statistical Association*, 104, 97-116.
- SNAY, R., CLINE, M., DILLINGER, W., FOOTE, R., HILLA, S., KASS, W., RAY, J., ROHDE, J., SELLA, G. & SOLER, T. 2007. Using global positioning system-derived crustal velocities to estimate rates of absolute sea level change from North American tide gauge records. *Journal of Geophysical Research-Solid Earth*, 112.
- SODEN, B., WETHERALD, R., STENCHIKOV, G. & ROBOCK, A. 2002. Global cooling after the eruption of Mount Pinatubo: A test of climate feedback by water vapor. *Science*, 296, 727-730.
- SON, S., GERBER, E., PERLWITZ, J., POLVANI, L., GILLETT, N., SEO, K., EYRING, V., SHEPHERD, T., WAUGH, D., AKIYOSHI, H., AUSTIN, J., BAUMGAERTNER, A., BEKKI, S., BRAESICKE, P., BRUHL, C., BUTCHART, N., CHIPPERFIELD, M., CUGNET, D., DAMERIS, M., DHOMSE, S., FRITH, S., GARNY, H., GARCIA, R., HARDIMAN, S., JOCKEL, P., LAMARQUE, J., MANCINI, E., MARCHAND, M., MICHOU, M., NAKAMURA, T., MORGENSTERN, O., PITARI, G., PLUMMER, D., PYLE, J., ROZANOV, E., SCINOCCHA, J., SHIBATA, K., SMALE, D., TEYSSERE, H., TIAN, W. & YAMASHITA, Y. 2010. Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. *Journal of Geophysical Research-Atmospheres*, 115.
- SPERBER, K. & ANNAMALAI, H. 2008. Coupled model simulations of boreal summer intraseasonal (30-50 day) variability, Part 1: Systematic errors and caution on use of metrics. *Climate Dynamics*, 31, 345-372.
- SPERBER, K., ANNAMALAI, H., KANG, I., KITO, A., MOISE, A., TURNER, A., WANG, B. & ZHOU, T. 2013. The Asian summer monsoon: an intercomparison of CMIP5 vs. CMIP3 simulations of the late 20th century. *Climate Dynamics*, 41, 2711-2744.
- SPERBER, K. & KIM, D. 2012. Simplified metrics for the identification of the Madden-Julian oscillation in models. *Atmospheric Science Letters*, 13, 187-193.
- STANDARDS AUSTRALIA. 2009. ISO 31000:2009 Australian/New Zealand Standard. Sydney Australia. <http://sherq.org/31000.pdf>
- STERN, H., DE HOEDT, G. & ERNST, J. 2000. Objective classification of Australian climates. *Australian Meteorological Magazine*, 49, 87-96.
- STEYNOR, A., GAWITH, M. & STREET, R. 2012. Engaging users in the development and delivery of climate projections: the UKCIP experience of UKCP09. UKCIP, Oxford.
- STONE, D. A., ALLEN, M. R., STOTT, P. A., PALL, P., MIN, S. K., NOZAWA, T. & YUKIMOTO, S. 2009. The Detection and Attribution of Human Influence on Climate. *Annual Review of Environment and Resources*, 34, 1-16.
- STOTT, P., GILLETT, N., HEGERL, G., KAROLY, D., STONE, D., ZHANG, X. & ZWIERS, F. 2010. Detection and attribution of climate change: a regional perspective. *Wiley Interdisciplinary Reviews-Climate Change*, 1, 192-211.
- STOTT, P. A., STONE, D. A. & ALLEN, M. R. 2004. Human contribution to the European heatwave of 2003. *Nature*, 432, 610-614.
- STREET, R. B., STEYNOR, A., BOWYER, P. & HUMPHREY, K. 2009. Delivering and using the UK climate projections 2009. *Weather*, 64, 227-231.
- STURMAN, A. P. & TAPPER, N. J., 2006. *The weather and climate of Australia and New Zealand*, Oxford University Press Melbourne.
- SUPPIAH, R., HENNESSY, K., WHETTON, P. H., MCINNES, K., MACADAM, I., BATHOLS, J., RICKETTS, J. & PAGE, C. M. 2007. Australian climate change projections derived from simulations performed for the IPCC 4th Assessment Report. *Australian Meteorological Magazine*, 56, 131-152.
- SUTHERST, R., MAYWALD, G. & KRITICOS, D. 2007. CLIMEX Version 3: User's Guide. Hearne Scientific Software Pty Ltd.
- SZALAI, S. & SZINELL, C. 2000. Comparison of two drought indices for drought monitoring in Hungary – a case study. Dordrecht: Kluwer.
- TAYLOR, I. H., BURKE, E., MCCOLL, L., FALLOON, P. D., HARRIS, G. R. & MCNEALL, D. 2013. The impact of climate mitigation on projections of future drought. *Hydrology and Earth System Sciences*, 17, 2339-2358.

- TAYLOR, K. 2001. Summarizing multiple aspects of model performance in a single diagram. *Journal of Geophysical Research-Atmospheres*, 106, 7183-7192.
- TAYLOR, K. E., STOUFFER, R. J. & MEEHL, G. A. 2012. An overview of CMIP5 and the experiment design. *Bulletin of the American Meteorological Society*, 93, 485-498.
- TEBALDI, C., SMITH, R. L., NYCHKA, D. & MEARN, L. O. 2005. Quantifying uncertainty in projections of regional climate change: A Bayesian approach to the analysis of multimodel ensembles. *Journal of Climate*, 18, 1524-1540.
- TENG, J., CHEW, F., VAZE, J., MARVANEK, S. & KIRONO, D. 2012. Estimation of Climate Change Impact on Mean Annual Runoff across Continental Australia Using Budyko and Fu Equations and Hydrological Models. *Journal of Hydrometeorology*, 13, 1094-1106.
- THOMPSON, D. & SOLOMON, S. 2002. Interpretation of recent Southern Hemisphere climate change. *Science*, 296, 895-899.
- THOMPSON, D., SOLOMON, S., KUSHNER, P., ENGLAND, M., GRISE, K. & KAROLY, D. 2011. Signatures of the Antarctic ozone hole in Southern Hemisphere surface climate change. *Nature Geoscience*, 4, 741-749.
- THOMPSON, D. & WALLACE, J. 2000. Annular modes in the extratropical circulation. Part I: Month-to-month variability. *Journal of Climate*, 13, 1000-1016.
- TIMBAL, B. 2009. The continuing decline in South-East Australian rainfall – Update to May 2009. *CAWCR Research Letters*, 2, 4-11.
- TIMBAL, B. & ARBLASTER, J. M. 2006. Land cover change as an additional forcing to explain the rainfall decline in the south west of Australia. *Geophysical Research Letters*, 33, L07717.
- TIMBAL, B., ARBLASTER, J., BRAGANZA, K., FERNANDEZ, E., HENDON, H., MURPHY, B., RAUPACH, M., RAKICH, C., SMITH, I. & WHAN, K. 2010. Understanding the anthropogenic nature of the observed rainfall decline across South Eastern Australia, Centre for Australian Weather and Climate Research. Technical Report No. 026 www.cawcr.gov.au/publications/technicalreports/CTR_026.pdf
- TIMBAL, B. & DROSDOWSKY, W. 2013. The relationship between the decline of South Eastern Australia rainfall and the strengthening of the subtropical ridge. *International Journal of Climatology*, 33, 1021-1034.
- TIMBAL, B. & FAWCETT, R. 2013. A Historical Perspective on Southeastern Australian Rainfall since 1865 Using the Instrumental Record. *Journal of Climate*, 26, 1112-1129.
- TIMBAL, B., FERNANDEZ, E. & LI, Z. 2009. Generalization of a statistical downscaling model to provide local climate change projections for Australia. *Environmental Modelling & Software*, 24, 341-358.
- TIMBAL, B. & HENDON, H. 2011. The role of tropical modes of variability in recent rainfall deficits across the Murray-Darling Basin. *Water Resources Research*, 47 (12).
- TIMBAL, B. & MCAVANEY, B. J. 2001. An Analogue based method to downscale surface air temperature: Application for Australia. *Climate dynamics*, 17, 947-963.
- TIMBAL, B., WANG, Y., EVANS, A., CHAN, F., MARINOVA, D. & ANDERSSON, R. 2011. Downscaling climate change information: an essential ingredient to incorporate uncertainties into adaptation policies. 19th International Congress on Modelling and Simulation (Modsim2011), 115-126.
- TIPPETT, M., CAMARGO, S. & SOBEL, A. 2011. A Poisson Regression Index for Tropical Cyclone Genesis and the Role of Large-Scale Vorticity in Genesis. *Journal of Climate*, 24, 2335-2357.
- TORY, K., CHAND, S., DARE, R. & MCBRIDE, J. 2013a. An Assessment of a Model-, Grid-, and Basin-Independent Tropical Cyclone Detection Scheme in Selected CMIP3 Global Climate Models. *Journal of Climate*, 26, 5508-5522.
- TORY, K., CHAND, S., DARE, R. & MCBRIDE, J. 2013b. The Development and Assessment of a Model-, Grid-, and Basin-Independent Tropical Cyclone Detection Scheme. *Journal of Climate*, 26, 5493-5507.
- TORY, K., CHAND, S., MCBRIDE, J., YE, H. & DARE, R. 2013c. Projected Changes in Late-Twenty-First-Century Tropical Cyclone Frequency in 13 Coupled Climate Models from Phase 5 of the Coupled Model Intercomparison Project. *Journal of Climate*, 26, 9946-9959.
- TRENBERTH, K., STEPANIAK, D. & CARON, J. 2000. The global monsoon as seen through the divergent atmospheric circulation. *Journal of Climate*, 13, 3969-3993.
- TREWIN, B. 2002. Charts from the past—24 May, 1994. *Bull. Aust. Meteor. Ocean. Soc.*, 17, 74.
- TREWIN, B. 2010. Exposure, instrumentation, and observing practice effects on land temperature measurements. *Wiley Interdisciplinary Reviews-Climate Change*, 1, 490-506.
- TREWIN, B. 2013. A daily homogenized temperature data set for Australia. *International Journal of Climatology*, 33, 1510-1529.
- TREWIN, B. & VERMONT, H. 2010. Changes in the frequency of record temperatures in Australia, 1957-2009. *Australian Meteorological and Oceanographic Journal*, 60, 113-119.
- TREWIN, B. & SMALLEY, R. 2013. Changes in extreme temperatures in Australia, 1910 to 2011. In proceedings of the Australian Meteorological and Oceanographic Society Annual Conference, Melbourne, 2013. 11-13.
- TROCCOLI, A., MULLER, K., COPPIN, P., DAVY, R., RUSSELL, C. & HIRSCH, A. 2012. Long-Term Wind Speed Trends over Australia. *Journal of Climate*, 25, 170-183.
- TSIMPLIS, M., SPADA, G., MARCOS, M. & FLEMMING, N. 2011. Multi-decadal sea level trends and land movements in the Mediterranean Sea with estimates of factors perturbing tide gauge data and cumulative uncertainties. *Global and Planetary Change*, 76, 63-76.
- UMMENHOFER, C., ENGLAND, M., MCINTOSH, P., MEYERS, G., POOK, M., RISBEY, J., GUPTA, A. & TASCHETTO, A. 2009. What causes southeast Australia's worst droughts? *Geophysical Research Letters*, 36.

- UPPALA, S., KALLBERG, P., SIMMONS, A., ANDRAE, U., BECHTOLD, V., FIORINO, M., GIBSON, J., HASELER, J., HERNANDEZ, A., KELLY, G., LI, X., ONOGI, K., SAARINEN, S., SOKKA, N., ALLAN, R., ANDERSSON, E., ARPE, K., BALMASEDA, M., BELJAARS, A., VAN DE BERG, L., BIDLOT, J., BORMANN, N., CAIRES, S., CHEVALLIER, F., DETHOF, A., DRAGOSAVAC, M., FISHER, M., FUENTES, M., HAGEMANN, S., HOLM, E., HOSKINS, B., ISAKSEN, L., JANSSEN, P., JENNE, R., MCNALLY, A., MAHFOUF, J., MORCLETTE, J., RAYNER, N., SAUNDERS, R., SIMON, P., STERL, A., TRENBERTH, K., UNTCH, A., VASILJEVIC, D., VITERBO, P. & WOOLLEN, J. 2005. The ERA-40 re-analysis. *Quarterly Journal of the Royal Meteorological Society*, 131, 2961-3012.
- VAN HAREN, R., VAN OLDENBORGH, G., LENDERINK, G., COLLINS, M. & HAZELEGER, W. 2012. SST and circulation trend biases cause an underestimation of European precipitation trends. *Climate Dynamics*, 1-20.
- VAN OLDENBORGH, G. J., DRIJFHOUT, S., VAN ULDEN, A., HAARSMA, R., STERL, A., SEVERIJNS, C., HAZELEGER, W. & DIJKSTRA, H. 2009. Western Europe is warming much faster than expected. *Climate of the Past*, 5, 1-12.
- VAN OLDENBORGH, G. J., REYES, F. D., DRIJFHOUT, S. & HAWKINS, E. 2013. Reliability of regional climate model trends. *Environmental Research Letters*, 8, 014055.
- VAN VUUREN, D. P., EDMONDS, J., KAINUMA, M., RIAHI, K., THOMSON, A., HIBBARD, K., HURTT, G. C., KRAM, T., KREY, V. & LAMARQUE, J.-F. 2011. The representative concentration pathways: an overview. *Climatic Change*, 109, 5-31.
- VAUGHAN, C. & DESSAI, S. 2014. *Climate services for society: origins, institutional arrangements, and design elements for an evaluation framework*. Wiley Interdisciplinary Reviews: Climate Change, 5, (5), 587-603.
- VAUTARD, R., CATTIAUX, J., YIOU, P., THEPAUT, J. & CIAIS, P. 2010. Northern Hemisphere atmospheric stilling partly attributed to an increase in surface roughness. *Nature Geoscience*, 3, 756-761.
- VAZE, J. & TENG, J. 2011. Future climate and runoff projections across New South Wales, Australia: results and practical applications. *Hydrological Processes*, 25, 18-35.
- VAZE, J., TENG, J. & CHIEW, J. H. S. 2011. Assessment of GCM simulations of annual and seasonal rainfall and daily rainfall distribution across south-east Australia. *Hydrological Processes*, 25, 1486-1497.
- VERDON-KIDD, D. C. & KIEM, A. S. 2009. On the relationship between large-scale climate modes and regional synoptic patterns that drive Victorian rainfall. *Hydrology and Earth System Sciences*, 13, 467-479.
- WAHL, T., HAIGH, I. D., WOODWORTH, P. L., ALBRECHT, F., DILLINGH, D., JENSEN, J., NICHOLLS, R. J., WEISSE, R. & WOPPELMANN, G. 2013. Observed mean sea level changes around the North Sea coastline from 1800 to present. *Earth-Science Reviews*, 124, 51-67.
- WAHL, T., JENSEN, J., FRANK, T. & HAIGH, I. D. 2011. Improved estimates of mean sea level changes in the German Bight over the last 166 years. *Ocean Dynamics*, 61, 701-715.
- WALISER, D., JIN, K., KANG, I., STERN, W., SCHUBERT, S., WU, M., LAU, K., LEE, M., KRISHNAMURTHY, V., KITOH, A., MEEHL, G., GALIN, V., SATYAN, V., MANDKE, S., WU, G., LIU, Y. & PARK, C. 2003. AGCM simulations of intraseasonal variability associated with the Asian summer monsoon. *Climate Dynamics*, 21, 423-446.
- WALISER, D., SPERBER, K., HENDON, H., KIM, D., WHEELER, M., WEICKMANN, K., ZHANG, C., DONNER, L., GOTTSCHALCK, J., HIGGINS, W., KANG, I., LEGLER, D., MONCRIEFF, M., VITART, F., WANG, B., WANG, W., WOOLNOUGH, S., MALONEY, E., SCHUBERT, S., STERN, W. & OSCILLATION, C. M.-J. 2009. MJO Simulation Diagnostics. *Journal of Climate*, 22, 3006-3030.
- WANG, B. & DING, Q. 2008. Global monsoon: Dominant mode of annual variation in the tropics. *Dynamics of Atmospheres and Oceans*, 44, 165-183.
- WANG, C., PICAUT, J., WANG, C., XIE, S. & CARTON, J. 2004a. Understanding ENSO physics - A review. *Earth's Climate: the Ocean-Atmosphere Interaction*, 147, 21-48.
- WANG, G. & CAI, W. 2013. Climate-change impact on the 20th-century relationship between the Southern Annular Mode and global mean temperature. *Sci Rep*, 3, 2039.
- WANG, Y., LEUNG, L. R., MCGREGOR, J. L., LEE, D.-K., WANG, W.-C., DING, Y. & KIMURA, F. 2004b. Regional climate modeling: progress, challenges and prospects. *Journal of the Meteorological Society of Japan*, 82, 1599-1628.
- WATANABE, M., KUG, J., JIN, F., COLLINS, M., OHBA, M. & WITTENBERG, A. 2012. Uncertainty in the ENSO amplitude change from the past to the future. *Geophysical Research Letters*, 39.
- WATTERSON, I. 1996. Non-dimensional measures of climate model performance. *International Journal of Climatology*, 16, 379-391.
- WATTERSON, I. 2009. Components of precipitation and temperature anomalies and change associated with modes of the Southern Hemisphere. *International Journal of Climatology*, 29, 809-826.
- WATTERSON, I. 2010. Relationships between southeastern Australian rainfall and sea surface temperatures examined using a climate model. *Journal of Geophysical Research-Atmospheres*, 115.
- WATTERSON, I. 2012. Understanding and partitioning future climates for Australian regions from CMIP3 using ocean warming indices. *Climatic Change*, 111, 903-922.
- WATTERSON, I., BATHOLS, J. & HEADY, C. 2013a. What influences the skill of climate models over the continents? *Bulletin of the American Meteorological Society*, 95, 689-700.
- WATTERSON, I., HIRST, A. & ROTSTAYN, L. 2013b. A skill score based evaluation of simulated Australian climate. *Australian Meteorological and Oceanographic Journal*, 63, 181-190.

- WATTERSON, I., MCGREGOR, J. & NGUYEN, K. 2008. Changes in extreme temperatures of Australasian summer simulated by CCAM under global warming, and the roles of winds and land-sea contrasts. *Australian Meteorological Magazine*, 57, 195-212.
- WATTERSON, I. G. 2008. Calculation of probability density functions for temperature and precipitation change under global warming. *Journal of Geophysical Research*, 113, D12106.
- WATTERSON, I. G. & WHETTON, P. H. 2011. Distributions of decadal means of temperature and precipitation change under global warming. *Journal of Geophysical Research: Atmospheres* (1984–2012), 116.
- WATTERSON, I. G. & WHETTON, P. H. 2013. Probabilistic projections of regional temperature and precipitation extending from observed time series. *Climatic Change*, 1-15.
- WEBB, L., WHETTON, P. & BARLOW, E. W. R. 2008. Climate change and wine grape quality in Australia. *Climate Research*, 36, 99-111.
- WEBB, L. B., WHETTON, P. H., BHEND, J., DARBYSHIRE, R., BRIGGS, P. R. & BARLOW, E. W. R. 2012. Earlier wine-grape ripening driven by climatic warming and drying and management practices. *Nature Climate Change*, 2, 259-264.
- WEIGEL, A. P., KNUTTI, R., LINIGER, M. A. & APPENZELLER, C. 2010. Risks of Model Weighting in Multimodel Climate Projections. *Journal of Climate*, 23, 4175-4191.
- WELLER, E. & CAI, W. 2013a. Asymmetry in the IOD and ENSO Teleconnection in a CMIP5 Model Ensemble and Its Relevance to Regional Rainfall. *Journal of Climate*, 26, 5139-5149.
- WELLER, E. & CAI, W. 2013b. Realism of the Indian Ocean Dipole in CMIP5 Models: The Implications for Climate Projections. *Journal of Climate*, 26, 6649-6659.
- WENTZ, F., RICCIARDULLI, L., HILBURN, K. & MEARS, C. 2007. How much more rain will global warming bring? *Science*, 317, 233-235.
- WERNBERG, T., RUSSELL, B. D., THOMSEN, M. S., GURGEL, C. F. D., BRADSHAW, C. J. A., POLOCZANSKZ, E. S. & CONNELL, S. D. 2011. Seaweed Communities in Retreat from Ocean Warming. *Current Biology* 21, 1828–1832.
- WHAN, K., TIMBAL, B. & LINDESAY, J. 2014. Linear and nonlinear statistical analysis of the impact of subtropical ridge intensity and position on south-east Australian rainfall. *International Journal of Climatology*, 34, 326-342.
- WHEELER, M., HENDON, H., CLELAND, S., MEINKE, H. & DONALD, A. 2009. Impacts of the Madden-Julian Oscillation on Australian Rainfall and Circulation. *Journal of Climate*, 22, 1482-1498.
- WHETTON, P., HENNESSY, K., CLARKE, J., MCINNES, K. & KENT, D. 2012. Use of Representative Climate Futures in impact and adaptation assessment. *Climatic Change*, 115, 433-442.
- WHETTON, P. H., KAROLY, D., WATTERSON, I. G., WEBB, L., DROST, F., KIRONO, D. & MCINNES, K. 2013. Australia's Climate in a Four Degree World. In: CHRISTOFF, P. (ed.) *Four Degrees of Global Warming. Australia in a hot world*. London: Earthscan/Routledge.
- WHITE, N. J., HAIGH, I. D., CHURCH, J. A., KEON, T., WATSON, C. S., PRITCHARD, T., WATSON, P. J., BURGETTE, R. J., ELIOT, M., MCINNES, K. L., YOU, B., ZHANG, X. & TREGONING, P. 2014. Australian Sea Levels - Trends, regional variability and Influencing Factors. *Earth Science Reviews*, 136, 155-174.
- WILBY, R. L., TRONI, J., BIOT, Y., TEDD, L., HEWITSON, B. C., SMITH, D. M. & SUTTON, R. T. 2009. A review of climate risk information for adaptation and development planning. *International Journal of Climatology*, 29, 1193-1215.
- WILLETT, K. M., JONES, P. D., THORNE, P. W. & GILLETT, N. P. 2010. A comparison of large scale changes in surface humidity over land in observations and CMIP3 general circulation models. *Environmental Research Letters*, 5.
- WILLIAMS, R. J., BRADSTOCK, R. A., CARY, G. J., ENRIGHT, N., GILL, A., LIEDLOFF, A., LUCAS, C., WHELAN, R., ANDERSEN, A. & BOWMAN, D. 2009. Interactions between climate change, fire regimes and biodiversity in australia-a preliminary assessment. Report to the Department of Climate Change and Department of the Environment, Water, Heritage and Arts. Canberra.
- WILLOWS, R. I. & CONNELL, R. K. 2003. *Climate adaptation: Risk, uncertainty and decision-making*. UKCIP, Oxford: UKCIP Technical Report.
- WOODROFFE, C. D., MCGREGOR, H. V., LAMBECK, K., SMITHERS, S. G. & FINK, D. 2012. Mid-Pacific microatolls record sea-level stability over the past 5000 yr. *Geology*, 40, 951-954.
- WOODWORTH, P. L. 1999. High waters at Liverpool since 1768: the UK's longest sea level record. *Geophysical Research Letters*, 26, 1589-1592.
- WOODWORTH, P. L., TEFERLE, F. N., BINGLEY, R. M., SHENNAN, I. & WILLIAMS, S. D. P. 2009. Trends in UK mean sea level revisited. *Geophysical Journal International*, 176, 19-30.
- WU, L., CAI, W., ZHANG, L., NAKAMURA, H., TIMMERMANN, A., JOYCE, T., MCPHADEN, M. J., ALEXANDER, M., QIU, B. & VISBECK, M. 2012. Enhanced warming over the global subtropical western boundary currents. *Nature Climate Change*, 2, 161-166.
- XAVIER, P. 2012. Intraseasonal Convective Moistening in CMIP3 Models. *Journal of Climate*, 25, 2569-2577.
- XAVIER, P., DUVEL, J., BRACONNOT, P. & DOBLAS-REYES, F. 2010. An Evaluation Metric for Intraseasonal Variability and its Application to CMIP3 Twentieth-Century Simulations. *Journal of Climate*, 23, 3497-3508.
- XIE, P. & ARKIN, P. A. 1997. Global Precipitation: A 17-Year Monthly Analysis Based on Gauge Observations, Satellite Estimates, and Numerical Model Outputs. *Bulletin of the American Meteorological Society*, 78, 2539–2558.

- XU, T. & HUTCHINSON, M. 2011. ANUCLIM version 6.1 user guide. Canberra: The Australian National University Fenner School of Environment and Society.
- YAMAGATA, T., BEHERA, S., LUO, J., MASSON, S., JURY, M., RAO, S., WANG, C., XIE, S. & CARTON, J. 2004. Coupled ocean-atmosphere variability in the tropical Indian ocean. *Earth's Climate: the Ocean-Atmosphere Interaction*, 147, 189-211.
- YOUNG, I., ZIEGER, S. & BABANIN, A. 2011. Global Trends in Wind Speed and Wave Height. *Science*, 332, 451-455.
- ZARGAR, A., SADIQ, R., NASER, B. & KHAN, F. I. 2011. A review of drought indices. *Environmental Reviews*, 19, 333-349.
- ZHANG, L., POTTER, N., HICKEL, K., ZHANG, Y. & SHAO, Q. 2008. Water balance modeling over variable time scales based on the Budyko framework – Model development and testing. *Journal of Hydrology*, 360, 117-131.
- ZHANG, X. & CHURCH, J. A. 2012. Sea level trends, interannual and decadal variability in the Pacific Ocean. *Geophysical Research Letters*, 39 (21).
- ZHANG, X., CHURCH, J. A., PLATTEN, S. M. & MONSELESAN, D. 2013. Projection of subtropical gyre circulation and associated sea level changes in the Pacific based on CMIP3 climate models. *Climate Dynamics*, 43 131-144.
- ZHANG, X. B., ZWIERS, F. W., HEGERL, G. C., LAMBERT, F. H., GILLET, N. P., SOLOMON, S., STOTT, P. A. & NOZAWA, T. 2007. Detection of human influence on twentieth-century precipitation trends. *Nature*, 448, 461-U4.
- ZHENG, F., LI, J., CLARK, R. T. & NNAMCHI, H. C. 2013. Simulation and projection of the Southern Hemisphere annular mode in CMIP5 models. *Journal of Climate*, 26, 9860-9879.
- ZINKE, J., ROUNTREY, A., FENG, M., XIE, S.-P., DISSARD, D., RANKENBURG, K., LOUGH, J. & MCCULLOCH, M. 2014. Corals record long-term Leeuwin current variability including Ningaloo Niño/Niña since 1795. *Nature Communications*, 5, 3607.