

# Dr Rachel James

Publication list, December 2016

## Publications

**James, R.**, Washington, R., Schleussner, C-F., Rogelj, J. Conway, D. Characterising half a degree difference: A review of methods for identifying regional climate responses to global warming targets. *WIREs Climate Change* (Accepted)

White, C. J, et al. Potential applications of subseasonal-to-seasonal (S2S) predictions. *Meteorological Applications* (Accepted)

Simpson, M., **James, R.**, Hall, J., Borgomeo, E., Ives, M., Almeida, S., Kingsborough, K., Economou, T., Stephenson, D., Wagener, T. (2016) Decision Analysis for Management of Natural Hazards *Annual Review of Environment and Resources*, doi: 10.1146/annurev-environ-110615-090011

Mitchell, D., **James, R.**, Forster, P. M., Betts, R. A., Shiogama, H., Allen, M. (2016) Realising the impacts of a 1.5C warmer world. *Nature Climate Change*, doi:10.1038/nclimate3055

Parker, H. R., Boyd, E., Cornforth, R. J., **James, R.**, Otto, F. E. L., & Allen, M. (2016). Stakeholder perceptions of event attribution in the loss and damage debate *Climate Policy* doi: 10.1080/14693062.2015.1124750

**James, R.**, Washington, R., & Jones, R. (2015). Process-based assessment of an ensemble of climate projections for West Africa. *Journal of Geophysical Research: Atmospheres*. doi:10.1002/2014JD022513

Parker, H. R., Cornforth, R. J., Boyd, E., **James, R.**, Otto, F. E. L., & Allen, M. (2015). Implications of event attribution for loss and damage policy. *Weather*, 70(9), 268–272. doi:10.1002/wea.2542

Otto, F. E. L., Boyd, E., Jones, R., Cornforth, R., **James, R.**, Parker, H. R., Allen, M. R. (2015) Attribution of extreme weather events in Africa: A preliminary exploration of the science and policy implications. *Climatic Change* DOI: 10.1007/s10584-015-1432-0.

**James, R.**, Washington, R., and Rowell, D.P. (2014) African Climate Change Uncertainty in Perturbed Physics Ensembles: Implications of Global Warming to 4°C and Beyond. *J. Climate*, 27(12), 4677–4692. doi:10.1175/JCLI-D-13-00612.1 [Open Access]

**James, R.**, Otto, F., Parker, H., Boyd, E., Cornforth, R., Mitchell, D., & Allen, M. (2014). Characterizing loss and damage from climate change. *Nature Climate Change*, 4(11), 938–939. doi:10.1038/nclimate2411

Rockström, J., Brasseur, G., Hoskins, B., Lucht, W., Schellnhuber, J., Kabat, P., Nakicenovic, N., Gong, P., Schlosser, P., Costa, M.M., Humble, A., Eyre, N., Gleick, P., **James, R.**, Lucena, A., Masera, O., Moench, M., Schaeffer, R., Seitzinger, S., van der Leeuw, S., Ward, B., Stern, N., Hurrell, J., Srivastava, L., Morgan, J., Nobre, C., Sokona, Y., Cremades, R., Roth, E., Liverman, D. & Arnott, J. 2014, Climate change: the necessary, the possible and the desirable, *Earth's Future*. doi:10.1002/2014EF000280

**James, R.**, Washington, R., and Rowell, D.P. (2013) Implications of global warming for the climate of African rainforests. *Phil. Trans. B*, 368(1625), 20120298. doi:10.1098/rstb.2012.0298 [Open Access]

Washington, R., **James, R.**, Pearce, H., Pokam, W.M., and Moufouma-Okia, W. (2013) Congo Basin rainfall climatology: can we believe the climate models? *Phil. Trans. B*, 368(1625), 20120296. doi:10.1098/rstb.2012.0296

**James, R.** and Washington, R. (2013) Changes in African temperature and precipitation associated with degrees of global warming, *Climatic Change*, DOI: 10.1007/s10584-012-0581-7. [now Open Access]

Also featured as a Research Highlight in *Nature Climate Change*: Brown, A. (2012) Global Implications for Africa *Nature Climate Change* **2**, 769.

## In review

Parker, H. R., Cornforth, R., Suarez, P., Allen, M. R., Boyd, E., **James, R.**, Otto, F. E. L., Walton, P. Dicing with Droughts: Using a Game to Engage Stakeholders in Extreme Event Attribution Science. *International Journal of Disaster Risk Science* (in review)

Boyd, E., **James, R.**, Jones, R., Parker, H., Otto, F. A typology of loss and damage perspectives. *Nature Climate Change*

## In prep

**James, R.**, Washington, R., Abiodun, B., Hart, N., Kay, G., Mutemi, J., Pokam, W., Senior, C. Evaluating climate models with an African lens. In prep for BAMS

## Reports

Hart, N., Blamey, R., **James, R.** et al. (2016) Southern Africa: Studying variability and future change. In Africa's climate: Helping decision makers make sense of climate information, Future Climate for Africa. Available at: <http://www.futureclimateafrica.org/wp-content/uploads/2016/11/africas-climate-final-report-4nov16.pdf>

Boyd, E., **James, R.**, Jones, R. (2016) Policy Brief: A spectrum of views on Loss and Damage. Available at: <http://www.eci.ox.ac.uk/publications/161101.pdf>

**James, R.** Sensitivity of Earth Systems: Lessons from the 1.5 Degrees Conference: how sensitive are earth systems to 1.5°C? Available at: [http://media.wix.com/ugd/6d11e7\\_f645c4aaa7ab40f4b9cf0be0ff631aa5.pdf](http://media.wix.com/ugd/6d11e7_f645c4aaa7ab40f4b9cf0be0ff631aa5.pdf), with key conclusions at: <http://www.1point5degrees.org.uk/conclusions>

**James, R.** (2013) *Implications of global warming for African climate*. DPhil Thesis, University of Oxford. [This thesis will soon be available on the Oxford Research Archive. In the meantime please contact me if you would like access to an electronic copy.]

Zommers, Z., van der Geest, K., de Sherbinin, A., Kienberger, S., Roberts, E., Harootunian, G., Sitati, A. & **James, R.** (2016) Loss and Damage: The Role of Ecosystem Services. United Nations Environment Programme, Nairobi, Kenya. Available at: [http://uneplive.unep.org/media/docs/assessments/loss\\_and\\_damage.pdf](http://uneplive.unep.org/media/docs/assessments/loss_and_damage.pdf)

Boyd, E., **James, R.**, Jones, R. (2016) Policy Brief: Typologies of Loss and Damage and Associated Actions. Available at: [http://www.eci.ox.ac.uk/publications/policy-brief-pdf/160608\\_Typologies\\_ExCom3Update\\_Final.pdf](http://www.eci.ox.ac.uk/publications/policy-brief-pdf/160608_Typologies_ExCom3Update_Final.pdf)

**James, R.** (2015) Climate services: Impacts, risks, and adaptation. Oxford's research and existing links to the Met Office. Available at: <http://www.eci.ox.ac.uk/people/downloads/rjames-climateservices.pdf>

**James, R.** (2015) Climate services: Impacts, risks, and adaptation. A summary of relevant research at the University of Oxford. Available at: [http://www.eci.ox.ac.uk/publications/downloads/ClimateServicesSummary\\_OxfordOnly.pdf](http://www.eci.ox.ac.uk/publications/downloads/ClimateServicesSummary_OxfordOnly.pdf)

Coghlan, C., Muzammil, M., Ingram, J., Vervoort, J., Otto, F. E. L., **James, R.** (2014) A sign of things to come? Examining four major climate-related disasters, 2010-2013: A preliminary study for Oxfam's Food and Climate Justice Campaign. *Oxfam Research Reports*. Available at: <http://policy-practice.oxfam.org.uk/publications/a-sign-of-things-to-come-examining-four-major-climate-related-disasters-2010-20-326092>

Otto, F. E. L., **James, R.**, Allen, M. R. (2014) The science of attributing extreme weather events and its potential contribution to assessing loss and damage associated with climate change impacts. Available at: <http://tinyurl.com/PEA-UNFCCC>

Guillot, B., **James, R.**, Massey, N., Otto, F., Hall, J., Allen, M. (2015) Modelling extreme weather in a changing climate: Potential applications for the insurance industry.

## Blogs

**James, R.** (2016) What's this about a 1.5 degree target? (part of "What's next for climate change" campaign with Guardian and Mediaplanet). Available at: <http://www.globalhealthaction.co.uk/climate-change/whats-this-about-a-1-5c-target>

**James, R.** (2015) Can climate information improve water security for the poor? *REACH water* Available at: <http://reachwater.org.uk/can-climate-information-improve-water-security-for-the-poor/>

## Presentations

**James, R.** Using process-based assessment of climate model projections to construct storylines for water management in Africa. Oral Presentation: Royal Society Scientific Seminar "Storylines as an alternative way of representing uncertainty in climate change", Chicheley Hall, 23-24 November 2016.

Boyd, E., **James, R.**, Jones, R. A spectrum of views on Loss and Damage. Oral Presentation: COP22 Side Event "Loss and Damage: Perspectives and Options". Marrakech, 7 November 2016.

**James, R.**, Hart, N., Washington, R. Representation of Tropical-Temperate Troughs in Coupled Climate Models, Oral Presentation: South African Society for Atmospheric Sciences Conference, Cape Town, 31 October 2016.

**James, R.**, Hart, N., Washington, R. Representation of Tropical-Temperate Troughs over southern Africa in the Unified Model, Oral Presentation: Africa Process Evaluation Group, Met Office, Exeter, 12 October 2016.

Boyd, E., **James, R.**, Jones, R. A spectrum of views on Loss and Damage. Oral Presentation: COP22 Side Event “Loss and Damage: Perspectives and Options”. Marrakech, 7 November 2016.

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**James, R.**, Hart, N., Washington, R. Representation of Tropical-Temperate Troughs over southern Africa in the Unified Model, Oral Presentation: Africa Process Evaluation Group, Met Office, Exeter, 12 October 2016.

Boyd, E., **James, R.**, Jones, R. Perspectives on Loss and Damage. Oral Presentation: Resilience Academy, Bavaria, 6 September 2016.

Boyd, E., **James, R.**, Jones, R. Typologies of Loss and Damage: Insights from an analysis of 40 key stakeholder interviews from science, policy and practice. Oral Presentation: Adaptation Futures, Rotterdam, 10 May 2016.

**Boyd, E., James, R., Jones, R.** Typologies of Loss and Damage and Associated Actions. Expert Briefing to the Executive Committee of the Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts, Bonn, 26 April 2016.  
[http://unfccc.int/adaptation/groups\\_committees/loss\\_and\\_damage\\_executive\\_committee/items/9548.php](http://unfccc.int/adaptation/groups_committees/loss_and_damage_executive_committee/items/9548.php)

**Huggel, C., Bresch, D., Hansen, G., James, R., Mechler, R., Stone, D., Walliman-Helmer, I.** Attribution of irreversible loss to anthropogenic climate change. Oral Presentation: European Geosciences Union General Assembly, Vienna, 22 April 2016.

**James, R.**, Washington, R., Jones, R. Can analysis of circulation changes be used to assess confidence in future projections and inform adaptation planning? A case study for southern Africa. Poster Presentation: Workshop ‘The role of atmospheric circulation in regional climate change’, Reading, 13-15 April 2016.

**Serdeczny, O., James, R.** Climate-related loss and damage – what’s justice got to do with it? Discussion Paper and Oral Presentation: Climate Ethics and Economics Workshop, Frankfurt, 3-4 March 2016.

**James, R.** How well does the Unified Model represent the climate system of southern Africa? Oral Presentation: IMPALA Science Conference, Exeter, 10-11 December 2015.

**James, R.**, Otto, F. E. L., Allen, M. Blame it on climate change? The emerging science of event attribution. Seminar: United Nations Environment Programme, Nairobi, 22 April 2015.

**James, R.**, Otto, F. E. L., Parker, H. R., Boyd, E., Cornforth, R., Jones, R., Mitchell, D., & Allen, M. What kind of information might climate change attribution provide for mechanisms to address loss and damage? Oral Presentation: Loss and Damage WriteShop, United Nations Environment Programme, Nairobi, 21 April 2015.

**James, R.**, Washington, R. Using climate model experiments to explore difference between degrees of global warming. Oral Presentation: European Geosciences Union General Assembly, Vienna, 17 April 2015. Slides available at: <http://meetingorganizer.copernicus.org/egu2015/sessionprogramme>

**James, R.**, Boyd, E., Jones, R. How can scientists support UNFCCC mechanisms to address loss and damage? Seminar: International Institute for Applied Systems Analysis (IIASA) Risk Policy and Vulnerability Group, Laxenburg, 14 April 2015.

**James, R.**, Washington, R., & Jones, R. Process-based assessment of regional climate model projections over southern Africa. Oral Presentation: European Geosciences Union General Assembly, Vienna, 13 April 2015. Slides available at: <http://meetingorganizer.copernicus.org/egu2015/sessionprogramme>

**James, R.**, Otto, F. E. L., Parker, H. R., Boyd, E., Cornforth, R., Jones, R., Mitchell, D., & Allen, M. How can research about extreme events and impacts be developed to support international climate policy? Poster Presentation: European Geosciences Union General Assembly, Vienna, 13 April 2015. Available at: <http://meetingorganizer.copernicus.org/egu2015/sessionprogramme>

**James, R.**, Washington, R. Improving Model Processes for African Climate (IMPALA): Plans for model evaluation 2015-2018. Oral Presentation: Africa Process Evaluation Group, Reading, 19 January 2015.

**James, R.** To what extent do climate models represent risks from future climate change? Oral Presentation: Water Network Seminar, Oxford, 4 December 2014.

**James, R.**, Washington, R., & Jones, R. Circulation changes associated with drying in West Africa in QUMP-PRECIS. Oral Presentation: Africa Process Evaluation Group, Exeter, 5 June 2014.

**James, R.**, Washington, R., & Jones, R. Do RCMs produce different (and more credible) projections than their driving GCMs? Oral Presentation: CORDEX, Brussels, 4-7 November 2013. Slides available at: [http://cordex2013.wcrp-climate.org/parallel\\_B4.shtml](http://cordex2013.wcrp-climate.org/parallel_B4.shtml)

**James, R.**, Otto, F. E. L., Allen, M. R., Boyd, E., Cornforth, R. J., Parker, H. R. Attribution of extreme weather events in Africa: A preliminary exploration of the science and policy implications. Oral Presentation: CCDAll (Climate Change and Development in Africa), Addis Ababa, 21-23 October 2013. Slides available at: <http://www.climdev-africa.org/ccda3-conference-documents>

**James, R.**, Otto, F. E. L., Massey, N., Jones, R., Boyd, E., Cornforth, R., Allen, M. Is there sufficient scientific evidence to support the UNFCCC loss and damage agenda? Poster Presentation: CCDAll (Climate Change and Development in Africa), Addis Ababa, 21-23 October 2013.

**James, R.**, Washington, R., & Jones, R. Climate change in global and regional models: a comparison of precipitation projections over West Africa. Poster Presentation: Africa Climate Conference, Arusha, 15-18 October 2013.

**James, R.**, Washington, R., and Rowell, D.P. Implications of global warming for West African precipitation. Oral Presentation: *AMMA International Conference*, Toulouse, 2-6 July 2012. Slides available at: <http://amma-conf2012.ipsl.fr/presentations/pr-6b/>

**James, R.**, Washington, R., and Rowell, D.P. Implications of global warming for the climate of West Africa and the Congo basin. Oral Presentation: *Climate Change, Deforestation, and the Future of African Rainforests*, International Conference, Oxford, 4-6 January 2012. Audio available at: <http://www.eci.ox.ac.uk/africa/programme.php>

**James, R.**, Washington, R., and Rowell, D.P. Using QUMP ensembles to explore uncertainty in the implications of global warming for African precipitation. Seminar: Met Office Hadley Centre, Exeter, 29 November 2011.