Prof. David A. Stainforth BA (Hons), MSc, MA (Oxon), DPhil, FrMetS

Professorial Research Fellow

Grantham Research Institute on Climate Change and the Environment and the Centre for the Analysis of Time Series (CATS), London School of Economics & Political Science, Houghton Street, London. WC2A 2AE Date of birth:10th June 1967Nationality:BritishEmail:d.a.stainforth@lse.ac.ukTel.:020 7955 6425Web:climateconfidence.net(includes links to publications)

Expertise

• Characterisation and quantification of uncertainty in predictions of physical and economic assessments of climate change.

More than 80 influential academic publications on these subjects, an H-Index of 38 (on Google Scholar) and 15 papers with more than 100 citations.

- Public understanding of climate change science and economics. *Author of the popular science book: "Predicting Our Climate Future", OUP. Co-founder of the public resource computing project climate*prediction.*net. Three exhibits at the Royal Society Summer Exhibition and the Festival of Social Science.*
- Multi- and cross- disciplinary research and collaboration. Publications on climate physics, modelling, economics, policy, mathematics and philosophy.
- Policy and Business engagement.
 Has provided advice/presentations to multiple UK Government departments, the Climate Change Committee, the Royal Commission on Environmental Pollution, Lloyds of London, the Institute and Faculty of Actuaries, the Bank of England and more.

Employment:

2018 - present: Professorial Research Fellow, London School of Economics.

Co-director of the Centre for the Analysis of Timeseries to 2020.

- 2015 2018:Associate Professorial Research Fellow, London School of Economics.
Co-director of the Centre for the Analysis of Timeseries
- 2009 2015: Senior/Principal Research Fellow, London School of Economics.
- 2007 2009: Associate Professor, Department of Geography, University of Exeter.
- 2006 2007: Tyndall Research Fellow, Centre for the Environment, Oxford University.
- 2005 2009: Visiting Research Fellow, Centre for the Analysis of Timeseries, LSE.
- 2003 2006: NERC Research Fellow and Chief Scientist for climateprediction.net, Atmospheric, Oceanic and Planetary Physics, Oxford University.
- 1998 2003: Postdoctoral Researcher, Atmospheric, Oceanic and Planetary Physics, Oxford University.
- 1991 1998: Renewable Energy Consultant, AEA Technology.

Visiting Positions:

2011 - present: Honorary Professor (initially Fellow), Department of Physics, University of Warwick.2013 - 2015: Visiting Research Fellow, Environmental Change Institute, University of Oxford.

Education and Degrees:

- DPhil, Oxford University, Uncertainty and Confidence in Predictions of Climate Change, 2010. Supervisors: Prof. D. Liverman & Prof. Mark New.
- MA Oxon, 2010.
- MSc, Energy Systems and Environmental Management, Glasgow Caledonian University, 1991.
- BA (Hons) Physics, University of Oxford, Queens College, 1988.

Selected Professional Activities:

2019 - present: Fellow of the Royal Meteorological Society 2019 - present: Member of the NERC Advisory Network 2018 - present: Convenor of a regular session on the Economics of Climate Change at the annual European Geophysical Union conference. 2014 - 2015: Member of the Climate Impacts Group (a group spanning UK Government departments, coordinated by the Department of Energy and Climate Change). 2016 - present: Member of the Society of Authors Member of the NERC Peer Review College. 2008 - present: 2000 - present: Frequent reviewer of academic papers for a wide range of journals including Nature, Nature Climate Change, Climatic Change, Environmental Research Letters, Geophysical Research Letters, Journal of Climate, Hydrological Processes etc. Frequent reviewer of funding proposals for organisations including EPSRC (UK), 2000 - present: NERC (UK), NSF (USA), NWO (NL). Co-organiser of a Royal Society International Scientific Seminar at Chicheley Hall on 2016 "Storylines as an alternative way of representing uncertainty in climate change". 2015 Co-organiser of a workshop on Advancing Integrated Assessment Modelling at Dartington Hall, Devon. Member of the organising committee for a Snellius workshop at the Lorenz Centre, 2013 - 2014: Leiden, on "Climate Variability: from Data and Models to Decisions". 2010 - 2011: Member of the organising committee for the Institute of Mathematics and its Applications (IMA) 2011 Conference on the Mathematics of the Climate System. 2009: Organiser of a Munich Re CCCEP symposium on "Interpreting Models in a Climate Change Context". 2000 - present: Frequent member of the European and American Geophysical Unions. 2000 - 2002: European Commission Expert – Renewable Energy Project Evaluation.

Selected Presentations:

I frequently present at conferences, workshops, and University departmental seminars, to a diverse range of academic and non-academic audiences. The following invited presentations are examples of this diversity:

• Vienna Workshop on the Development and Application of Climate Emulators, 2023. (Climate mathematics / physics)

- Columbia University Alliance Graduate Summer School, 2019. (Climate science in policy)
- University of Utrecht Workshop on Climate and the Economy, 2019. (Economics / mathematics)
- Bank of England Climate Risks Workshop, 2019. (Physics, economics and business)
- SigmaPhi International Conference on Statistical Physics, 2017. (Physics)
- Winton Capital Management Royal Society Workshop on Climate Prediction, 2017. (Business)
- Spanish Association for Energy Economics Conference, 2017. (Economics)
- University of Lund INTEGRATE Workshop on Modelling, 2016. (Climate Modelling)
- Dynamic Days Nonlinear Mathematics Conference, 2015. (Mathematics)
- Universität Bielefeld Workshop on Assessing the Climate via Models, 2015. (Philosophy)
- CIRCLE2 Adaptation Frontiers Conference, 2014. (Climate Adaptation)

Selected Academic Funds:

- Co-Investigator on the Horizon project 'Clim-Tip: Uncertainty-Aware Quantification Of Climate Tipping Potential And Climatic, Ecological, And Socioeconomic Impacts', 2024-2028
- Principal Investigator on the NERC Discovery Science project 'ODESSS: Optimising the Design of Ensembles to Support Science and Society', 2021-2024.
- Co-Investigator on the ESRC Centre for Climate Change Economics and Policy (CCCEP), 2013-2018.
- Principal Investigator on the LSE HEIF-5 project 'Communicating the Character of Climate Change Uncertainty', 2013-2015.
- Co-Investigator on the NERC project 'End-to-end Quantification of Uncertainty for Impacts Prediction (EQUIP)', 2010-12.
- Principal Investigator on the NERC-funded project 'Risk Assessment Probability and Impact Team (RAPIT)', 2009-12 (part of the NERC RAPID Climate Change Programme).
- Principal Investigator on an EPSRC Case studentship with Lloyds of London on "Extracting Decision-Relevant Information from Climate Models for the Insurance Industry", 2008-11.
- NERC Research Fellow, 2003-2006.

Selected Public Understanding of Science Activities:

- Article in The Guardian: "The big idea: can we predict the climate of the future?", 2023.
- Popular science book: "Predicting Our Climate Future", OUP, 2023.
- Major contributor to the Sense About Science publication "Making Sense of Uncertainty", 2013.
- Design, organisation and execution of a 2011 exhibit at the Royal Society entitled "Confidence from Uncertainty: Interpreting Climate Predictions".
- Invited speaker at the 2012 Brighton Science Festival.
- Organiser of a Royal Society Summer Exhibition exhibit on climate*prediction*.net and distributed computing in 2003. Team member in another one in 2007.
- Twice an invited speaker at "Communicate" conferences the UK's leading conference for environmental communicators.

Selected Teaching Activities:

2010 - present Lecturing and class teaching on the LSE MSc course on "Climate Change: Science, Economics and Policy", including redesign work for running online in 2020-2022.

Curriculum Vitae

- 2010 present Lecturing on the LSE Executive Summer School on "Climate Change: Economics and Governance", including running sessions exclusively online in 2020.
- 2012 Guest lecturer on a modelling summer school at NCAR, Boulder, Colorado, USA.
- 2009 2018 Co-supervisor of four graduate students at LSE. All completed.
- 2008 2012 Primary supervisor of one graduate student at LSE. Completed 2012.
- 2003 2007 Co-supervisor of one graduate student at University of Oxford. Completed.
- 2009 External PhD Examiner at University of Lancaster.
- 2007 2009 Design, preparation and teaching of multiple undergraduate and MSc courses at Exeter University.

Patents and Publications

H-Index = 29 on web of science; 38 on google scholar 15 papers with greater than 100 citations

Patents

DC/1042 – "Improvements in or Relating to Forecasting" US Patent Awarded 21st March 2006, number 7016784.

Books

D. Stainforth, "Predicting Our Climate Future: What we know, what we don't know, and what we can't know". **Oxford University Press**, 12th October 2023. ISBN: 978-0198812937.

Press

Stainforth, D.A. *The big idea: can we predict the climate of the future?*, **The Guardian**, 30th Sept 2023

Publications

Citation counts are mostly from "web of science" with some from GoogleScholar, as indicated in parentheses. Web of science is generally more conservative in its count of citations.

De Melo Virissimo, F., D.A. Stainforth, J. Bröcker. *The Evolution Of A Non-Autonomous Chaotic System Under Non-Periodic Forcing: A Climate Change Example*, **Chaos**, submitted Oct 2023.

Cael, B.B., P. Goodwin, C. R. Pearce, and D. Stainforth. *Benefit-cost ratios of carbon dioxide removal strategies*, **Environmental Research Letters**, accepted Sept. 2023.

Rising, J., M. Tedesco, F. Piontek and D. Stainforth. *The missing risks of climate change*, **Nature**. Oct. 2022. <u>https://doi.org/10.1038/s41586-022-05243-6</u> [**Citations: 20**]

Cael, B. B., G. L. Britten, F. Mir Calafat, J. Bloch-Johnson, D. Stainforth and P. Goodwin. *Climate nonlinearities: selection, uncertainty, projections, and damages,* **Environmental Research Letters**, 17, 084025, Aug 2022. <u>https://doi.org/10.1088/1748-9326/ac8238</u> [**Citations: 1**]

Calel, R. and D. A. Stainforth. *The Economics of Global Climate Variability*, **US CLIVAR Variations**, Dec 2021. (Not peer reviewed)

Katzav, J., E. Thompson, J. Risby, D. A. Stainforth, S. Bradley, M. Frisch. *On the appropriate and inappropriate uses of probability distributions in climate projections and some alternatives*, **Climatic Change**, Nov 2021. <u>https://doi.org/10.1007/s10584-021-03267-x</u> [**Citations: 6**]

Baldissera Pacchetti, M., S. Dessai, S. Bradley and D. A. Stainforth. *Assessing the quality of state-of-the-art regional climate information: the case of the UK Climate Projections 2018*, **Climatic Change**, Sept 2021. <u>https://doi.org/10.1007/s10584-021-03187-w</u> [**Citations: 1**]

Stainforth, D. A. *Klimapolitik: CO*₂-schulden als technologieentwicklungsturbo (CO₂ debt as a technology development booster), **Spektrum er Wissenschaft**, Nov 2021. (Not peer reviewed)

Stainforth, D.A. '*Polluter pays' policy could speed up emission reductions and removal of atmospheric CO*₂, News and Views article in **Nature**, Aug 2021. <u>https://doi.org/10.1038/d41586-021-02192-4</u> (Not peer reviewed) [**Citations: 3**]

Baldissera Pacchetti, M., S. Dessai, S. Bradley and D. A. Stainforth. *Assessing the quality of regional climate information*, **Bulletin of the America Meteorological Society**, Mar 2021. <u>https://doi.org/10.1175/BAMS-D-20-0008.1</u> [Citations: 5]

Calel, R., S.C. Chapman, D.A. Stainforth & N.W. Watkins, *Temperature variability implies greater* economic damages from climate change, **Nature Communications**, Oct 2020. <u>https://doi.org/10.1038/s41467-020-18797-8</u>. [**Citations: 15**] (Winner of the Lloyds Science of Risk Prize 2021 - Climate Change Theme)

Watkins, N.W., R. Klages, D. Stainforth, I. Ford, S. C. Chapman and A. Chechkin. *Generalized Langevin dynamics for modeling the temperature of the earth*. Accepted in proceedings of **Tenth International Conference on Complex Systems**, Nashua, New Hampshire, July 2020. Preprint: arXiv:2007.06464 [cond-mat.stat-mech] (Not peer reviewed)

Stainforth, D.A and R. Calel, *New priorities for climate science and climate economics in the 2020s*. **Nature Communications,** 11, 3864, 2020. <u>https://doi.org/10.1038/s41467-020-16624-8</u>. [**Citations: 8**]

Chapman, S. C., E. Murphy, N. W. Watkins & D. A. Stainforth. *Trends in Winter Warm Spells in the Central England Temperature Record.* Journal of Applied Meteorology and Climatology, 59 (6): 1069–1076, 2020. <u>https://doi.org/10.1175/JAMC-D-19-0267.1</u> [Citations: 6]

DeFries, R., O. Edenhofer, A. Halliday, G. Heal, T. Lenton, M. Puma, J. Rising, J. Rockström, A. Ruane, H. J. Schellnhuber, D. Stainforth, N. Stern, M. Tedesco, R. Ward, *The missing economic risks in assessments of climate change impacts*, **GRI Policy Insight**, Sept. 2019. (Not peer reviewed) [**Citations: 51 (GoogleScholar)**]

Harrison, S., T. Mighall, D.A.Stainforth, P. Allen, M. Macklin, E. Anderson, J. Knight, D. Mauquoy, D. Passmore, B. Rea, M. Spagnolo and S, Shannon. *Uncertainty in geomorphological responses to climate change*, **Climatic Change**, 156, Issue 1-2, pp69-86, 10.1007/s10584-019-02520-8, Sept. 2019. [**Citations: 16**]

Chapman, S. C., N. W. Watkins & D. A. Stainforth. *Warming Trends in Summer Heatwaves.* **Geophysical Research Letters,** 2019, 46, 1634-1640. [Citations: 29]

Stainforth, D.A., *The Changing Shape of Climate*, **EARTH**, American Geosciences Institute, 2018. (Not peer reviewed)

Shepherd, T. G., E. Boyd, R. A. Calel, S. C. Chapman, S. Dessai, I. M. Dima-West, H. J. Fowler, R. James,D. Maraun, O. Martius, C. A. Senior, A. H. Sobel, D. A. Stainforth, S. F. B. Tett, K. E. Trenberth, B. J. J.M. van den Hurk, N. W. Watkins, R. L. Wilby & D. A. Zenghelis. *Storylines: an alternative approach to*

representing uncertainty in physical aspects of climate change. **Climatic Change**, 2018, 151, 555-571. **[Citations: 209]**

Dessai S, A.J. Bhave, C. Birch, D. Conway, L. Garcia-Carreras, J.P. Gosling, N. Mittal, and D.A. Stainforth. *Building narratives to characterise uncertainty in regional climate change through expert elicitation*. **Environmental Research Letters**, 2018, 13(7). [**Citations: 29**]

Bhave, A.J., D. Conway, S. Desai, D.A. Stainforth, *Water Resource Planning Under Future Climate and Socioeconomic Uncertainty in the Cauvery River Basin in Karnataka, India*, **Water Resources Research,** February 2018. DOI: 10.1002/2017WR020970. [Citations: 70]

Dessai, S., A.J. Bhave, C. Birch, D. Conway, L. Garcia-Carreras, J.P. Gosling, N. Mittal, D.A. Stainforth, *Building narratives to characterise uncertainty in regional climate change through expert elicitation*, **CCCEP Working Paper 332**, January 2018.

Calel, R. and D.A. Stainforth, *On the Physics of Three Integrated Assessment Models*, **Bulletin of the American Meteorological Society (BAMS)**, June 2017. DOI: 10.1175/BAMS-D-16-0034.1 [**Citations: 19**]

Bhave, A.G., D. Conway, S. Desai, D.A. Stainforth, *Barriers and opportunities for robust decision making approaches to support climate change adaptation in the developing world*, **Climate Risk Management**, Sept. 2016, DOI: 10.1016/j.crm.2016.09.004 [**Citations: 56**]

Frigg, R., L. A. Smith and D. A. Stainforth, *An assessment of the foundational assumptions in highresolution climate projections: the case of UKCP09*, **Synthese**, 1-30, Dec 2015, DOI 10.1007/s11229-015-0739-8 [**Citations: 27**]

Chapman, S. C., Stainforth, D. A. & Watkins, N. W. *Limits to the quantification of local climate change*. **Environmental Research Letters,** 10, Sep 2015, 094018. **[Citations: 6]**

Hawkins, E., Smith, R., Gregory, J. & Stainforth, D. A. *Irreducible uncertainty in near-term climate projections*. **Climate Dynamics**, 1-13, 2015, doi:10.1007/s00382-015-2806-8. **[Citations: 120]**

Calel, R., Stainforth, D. A. & Dietz, S. *Tall tales and fat tails: the science and economics of extreme warming*. **Climatic Change** 132, 127-141, Sep 2015. **[Citations: 18]**

Wesselink, A., Challinor, A. J., Watson, J., Beven, K., Allen, I., Hanlon, H., Lopez, A., Lorenz, S., Otto, F., Morse, A., Rye, C., Saux-Picard, S., Stainforth, D. & Suckling, E. *Equipped to deal with uncertainty in climate and impacts predictions: lessons from internal peer review*. **Climatic Change** 132, 1-14, Sep 2015. [**Citations: 14**]

Daron J D and Stainforth D A, *On quantifying the climate of the nonautonomous Lorenz-63 model*, **Chaos**, 25, Apr 2015. [**Citations: 10**]

Hazeleger, W., B. J. J. M. Van den Hurk, E. Min, G. J. Van Oldenborgh, A. C. Petersen, D. A. Stainforth,
E. Vasileiadou, and L. A. Smith, *Tales of Future Weather*, Nature Climate Change, 5, 107-113, Feb 2015. [Citations: 108]

Curriculum Vitae

Frame, D. J., Booth, B., Kettleborough, J. A., Stainforth, D. A., Gregory, J. M., Collins, M. & Allen, M. R. *Constraining climate forecasts: The role of prior assumptions (vol 32, L09702, 2005)*. **Geophysical Research Letters** 41, 3257-3258, May 2014. [**Citations: 1**]

Daron, J.D. and D.A. Stainforth, *Assessing pricing assumptions for weather index insurance in a changing climate*. **Climate Risk Management**, 1, 76–91, Feb 2014, doi:10.1016/j.crm.2014.01.001. [**Citations: 17**]

(Runner up for the Lloyds Science of Risk prize 2014 - Climate Change Theme)

Stainforth, D.A., *Climate projection: Testing climate assumptions*. **Nature Climate Change**, 4, 248–249, Apr 2014, doi:10.1038/nclimate2172. [**Citations: 1**]

Stainforth, D.A., S.C. Chapman, and N.W. Watkins, *Mapping climate change in European temperature distributions* **Environmental Research Letters**, 2013. 8(3). [**Citations: 29**]

Daron, J., and D. A. Stainforth, *On Predicting Climate Under Climate Change*, Environmental Research Letters, 2013 (8). [Citations: **37**]

Frigg, R., L.A. Smith, D. A. Stainforth, *The Myopia of Imperfect Climate Models: The Case of UKCP09,* **Philosophy of Science**, 2013. [**Citations: 39**]

Chapman, S.C., D.A. Stainforth, and N.W. Watkins, *On Estimating Local Long Term Climate Trends.* **Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences**, 2013 (371). [**Citations: 12**]

Millner, A., R. Calel, D. Stainforth, and G. MacKerron, *Do probabilistic expert elicitations capture scientists' uncertainty about climate change?* **Climatic Change**, 2013. 116(2): p. 427-436. [**Citations: 15**]

Fankhauser, S., N. Ranger, J. Colmer, S. Fisher, S. Surminski, D. Stainforth and A. Williamson, *An Independent National Adaptation Programme for England*. **Policy brief, Grantham Research Institute on Climate Change & Environment**, London, UK, 2013. (Internally peer-reviewed)

Stainforth, D.A. and L.A. Smith, *Clarify the limits of climate models*. **Nature**, 2012. 489(7415): p. 208-208. (Not peer reviewed) [**Citations: 3**]

Stainforth, D.A. *Quantifying and dealing with uncertainty in climate-related models*, Box 1.4 in Ch. 1 of *Climate Change: Global Risks, Challenges and Decisions*, Eds. Richardson, K., Steffen, W., and Liverman, D., 2011, **Cambridge University Press**: Cambridge. P 17-19. (Not peer reviewed)

Stainforth, D.A., *Probabilistic regional and seasonal predictions of twenty-first century temperature and precipitation*, in *GRI Working Paper Series*, S. Dietz, Editor 2010, Grantham Research Institute on Climate Change and the Environment: London.

Oreskes, N., D.A. Stainforth, and L.A. Smith, *Adaptation to Global Warming: Do Climate Models Tell Us What We Need to Know?* **Philosophy of Science**, 2010. 77(5): p. 1012-1028. [**Citations: 47**]

Stainforth, D. A., *Estimating Uncertainty in Future Climate Projections* in O J Rolf, J Kiang and R Waskom (eds) Workshop on Nonstationarity, Hydrologic Frequency Analysis, and Water Management, 2010. **Colorado Water Institute Information Series** No. 109.

Harrison, S. and D. Stainforth, *Predicting Climate Change: Lessons From Reductionism, Emergence, and the Past* **Eos**, 2009. 90(13): p. 111-112. [Citations: 16 (GoogleScholar)]

Rougier, J., D. M. H. Sexton, J. M. Murphy, and D. Stainforth, *Analyzing the Climate Sensitivity of the HadSM3 Climate Model Using Ensembles from Different but Related Experiments*. Journal of Climate, 2009. 22(13): p. 3540-3557. [Citations: 123]

Sanderson, B.M., R. Knutti, T. Aina, C. Christensen, N. Faull, D.J. Frame, W. J. Ingram, C. Piani, D.A. Stainforth, D.A. Stone, M.R. Allen, *Constraints on model response to greenhouse gas forcing and the role of subgrid-scale processes*. Journal of Climate, 2008. 21(11): p. 2384-2400. [Citations: 47]

Knight, C.G., S.H.E. Knight, N. Massey, T. Aina, C. Christensen, D.J. Frame, J.A. Kettleborough, A. Martin, S. Pascoe, B. Sanderson, D.A. Stainforth, and M.R. Allen, *Association of parameter, software, and hardware variation with large-scale behavior across 57,,000 climate models.* **Proceedings of the National Academy of Sciences of the United States of America**, 2007. 104(30): p. 12259-12264. [Citations: 59]

Stainforth, D.A., M.R. Allen, E.R. Tredger, and L.A. Smith, *Confidence, uncertainty and decision-support relevance in climate predictions*. Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences, 2007. 365(1857): p. 2145-2161. [Citations: 292]

Stainforth, D.A., T.E. Downing, R. Washington, A. Lopez, and M. New, *Issues in the interpretation of climate model ensembles to inform decisions*. Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences, 2007. 365(1857): p. 2163-2177. [Citations: 135]

Allen, M.R., D.J. Frame, J. Kettleborough, and D.A. Stainforth, *Model error in weather and climate forecasting*, in *Predictability of Weather and Climate*, T.N. Palmer, Editor 2006, **Cambridge University Press**: Cambridge. p. 391-427. [**Citations: 74 (GoogleScholar)**]

Massey, N., T. Aina, M. Allen, C. Christensen, D. Frame, D. Goodman, J. Kettleborough, A. Martin, S. Pascoe & D. Stainforth, *Data access and analysis with distributed federated data servers in climateprediction.net*. Advances in Geosciences, 2006. Vol 8, pages 49-56. [Citations: 29(GoogleScholar)]

Lopez, A., C. Tebaldi, M. New, D. Stainforth, M. Allen, and J. Kettleborough, *Two approaches to quantifying uncertainty in global temperature changes.* Journal of Climate, 2006. 19(19): p. 4785-4796. [Citations: 54]

Knutti, R., G.A. Meehl, M.R. Allen, and D.A. Stainforth, *Constraining climate sensitivity from the seasonal cycle in surface temperature.* **Journal of Climate**, 2006. 19(17): p. 4224-4233. [**Citations: 131**]

Stainforth, D.A., M. R. Allen, D. J. Frame, C. Piani, *Risks Associated with Stabilisation Scenarios and Uncertainty in Regional and Global Climate Change Impacts*, Chapter 33 of Avoiding Dangerous Climate Change, 2006. **Cambridge University Press**, ISBN-13: 9780521864718, ISBN-10: 0521864712 [**Citations: 2 (GoogleScholar)**]

Allen, M., N. Andronova, B. Booth, S. Dessai, D. Frame, C. Forest, J. Gregory, G. Hegerl, R. Knutti, C. Piani, D. Sexton and D. Stainforth, *Observational Constraints on Climate Sensitivity*, Chapter 29 of

Avoiding Dangerous Climate Change, 2006. Cambridge University Press, ISBN-13: 9780521864718, ISBN-10: 0521864712. [Citations: 39 (GoogleScholar)]

C. Christensen, T. Aina & D. Stainforth, *The Challenge of Volunteer Computing With Lengthy Climate Model Simulations*, **Proceedings of the e-Science 2005 International Conference**, Melbourne, December 2005. [**Citations: 24**]

Piani, C., D.J. Frame, D.A. Stainforth, and M.R. Allen, *Constraints on climate change from a multithousand member ensemble of simulations*. **Geophysical Research Letters**, 2005. 32(23). [**Citations: 119**]

Kargel, J.S., M. J. Abrams, M. P. Bishop, A. Bush, G. Hamilton, H. Jiskoot, A. Kääb, H.H. Kieffer, E. M. Lee, F. Paul, F. Rau, B. Raup, J. F. Shroder, D. Soltesz, D. Stainforth, L. Stearns, R. Wessels, *Multispectral imaging contributions to global land ice measurements from space*. **Remote Sensing of Environment**, 2005. Vol 99, 187–219. [**Citations: 197**]

Frame, D.J., B.B.B. Booth, J.A. Kettleborough, D.A. Stainforth, J.M. Gregory, M. Collins, and M.R. Allen, *Constraining climate forecasts: The role of prior assumptions*. **Geophysical Research Letters**, 2005. 32(9). [**Citations: 112**]

Stainforth, D.A., T. Aina, C. Christensen, M. Collins, N. Faull, D.J. Frame, J.A. Kettleborough, S. Knight, A. Martin, J.M. Murphy, C. Piani, D. Sexton, L.A. Smith, R.A. Spicer, A.J. Thorpe, and M.R. Allen, *Uncertainty in predictions of the climate response to rising levels of greenhouse gases*. **Nature**, 2005. 433(7024): p. 403-406. [**Citations: 799**]

Murphy, J.M., D.M.H. Sexton, D.N. Barnett, G.S. Jones, M.J. Webb, M. Collins and D.A. Stainforth, *Quantification of modelling uncertainties in a large ensemble of climate change simulations*. **Nature**, 2004. 430(7001): p. 768-772. [**Citations: 1208**]

Piani, C., W.A. Norton, and D.A. Stainforth, *Equatorial stratospheric response to variations in deterministic and stochastic gravity wave parameterizations*. Journal of Geophysical Research-Atmospheres, 2004. 109(D14). [Citations: 18]

Stainforth, D.A., M.R. Allen, D.J. Frame, J. Kettleborough, C. Christensen, T. Aina, and M. Collins, *Climateprediction.net: A Global Community for Research in Climate Physics*, in *Environmental Online Communication*, A. Scharl, Editor. 2004, Springer-Verlag London Ltd.: London. [Citations: 9 (GoogleScholar)]

Walton, J.P.R.B., D.J. Frame, and D.A. Stainforth. *Visualization For Public-Resource Climate Modeling*. in *VisSym04: Joint EUROGRAPHICS - IEEE TCVG Symposium on Visualization*. 2004. Konstanz: Eurographics Association. [Citations: 5 (GoogleScholar)]

Stainforth, D.A., A. Martin, A. Simpson, C. Christensen, J. Kettleborough, T. Aina, and M. Allen, Security principles for public-resource modeling research. Thirteenth IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, Proceedings, 2004: p. 319-324. [Citations: 67 (GoogleScholar)]

Allen, M.R. and D.A. Stainforth, *Towards objective probabalistic climate forecasting*. **Nature**, 2002. 419(6903): p. 228-228. [**Citations: 107 (GoogleScholar)**]

Stainforth, D.A., J. Kettleborough, A. Martin, A. Simpson, R. Gillis, A. Akkas, R. Gault, M. Collins, D. Gavaghan and M. Allen, *Climateprediction.net: Design Principles for Public Resource Modelling Research*. International Conference on Parallel and Distributed Computing Systems, PDCS 2002, November 4-6, 2002, Cambridge, USA. [Citations: 21 (Researchgate)]

Stainforth, D.A., J. Kettleborough, M. Allen, M. Collins, A. Heaps, and J. Murphy, *Distributed computing for public-interest climate modeling research*. Computing in Science & Engineering, 2002.
4(3): p. 82-89. (Not peer reviewed) [Citations: 27]

Allen, M.R., J. A. Kettleborough and D. Stainforth, *Model error in weather and climate forecasting*. **Proceedings of the 2002 ECMWF Predictability Seminar**, European Centre for Medium Range Weather Forecasting, Reading, UK. (Not peer-reviewed)

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