Simon F B Tett

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#	Paper	IF	Citations
133	Uncertainty estimates in regional and global observed temperature changes: A new data set from 1850. <i>Journal of Geophysical Research</i> , 2006 , 111,		1387
132	High-resolution palaeoclimatic records for the last millennium: interpretation, integration and comparison with General Circulation Model control-run temperatures. <i>Holocene</i> , 1998 , 8, 455-471	2.6	645
131	Improved Analyses of Changes and Uncertainties in Sea Surface Temperature Measured In Situ since the Mid-Nineteenth Century: The HadSST2 Dataset. <i>Journal of Climate</i> , 2006 , 19, 446-469	4.4	627
130	Climate response to increasing levels of greenhouse gases and sulphate aerosols. <i>Nature</i> , 1995 , 376, 501-504	50.4	568
129	The second Hadley Centre coupled ocean-atmosphere GCM: model description, spinup and validation. <i>Climate Dynamics</i> , 1997 , 13, 103-134	4.2	520
128	External control of 20th century temperature by natural and anthropogenic forcings. <i>Science</i> , 2000 , 290, 2133-7	33.3	491
127	Anthropogenic climate change for 1860 to 2100 simulated with the HadCM3 model under updated emissions scenarios. <i>Climate Dynamics</i> , 2003 , 20, 583-612	4.2	444
126	Causes of twentieth-century temperature change near the Earth's surface. <i>Nature</i> , 1999 , 399, 569-572	50.4	420
125	Reconstructing past climate from noisy data. <i>Science</i> , 2004 , 306, 679-82	33.3	326
124	A search for human influences on the thermal structure of the atmosphere. <i>Nature</i> , 1996 , 382, 39-46	50.4	320
123	The internal climate variability of HadCM3, a version of the Hadley Centre coupled model without flux adjustments. <i>Climate Dynamics</i> , 2001 , 17, 61-81	4.2	318
122	Checking for model consistency in optimal fingerprinting. <i>Climate Dynamics</i> , 1999 , 15, 419-434	4.2	296
121	Evaluation of the North Atlantic Oscillation as simulated by a coupled climate model. <i>Climate Dynamics</i> , 1999 , 15, 685-702	4.2	259
120	European climate response to tropical volcanic eruptions over the last half millennium. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	258
119	Human Influence on the Atmospheric Vertical Temperature Structure: Detection and Observations. <i>Science</i> , 1996 , 274, 1170-3	33.3	211
118	Estimation of natural and anthropogenic contributions to twentieth century temperature change. Journal of Geophysical Research, 2002 , 107, ACL 10-1		181
117	Detecting and Attributing External Influences on the Climate System: A Review of Recent Advances. <i>Journal of Climate</i> , 2005 , 18, 1291-1314	4.4	173

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116	Revisiting radiosonde upper air temperatures from 1958 to 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		159
115	Attribution of twentieth century temperature change to natural and anthropogenic causes. <i>Climate Dynamics</i> , 2001 , 17, 1-21	4.2	145
114	Storylines: an alternative approach to representing uncertainty in physical aspects of climate change. <i>Climatic Change</i> , 2018 , 151, 555-571	4.5	130
113	Small influence of solar variability on climate over the past millennium. <i>Nature Geoscience</i> , 2014 , 7, 104	- 1₁0% 3	118
112	Detection and Attribution of Recent Climate Change: A Status Report. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 2631-2659	6.1	116
111	Large-scale temperature response to external forcing in simulations and reconstructions of the last millennium. <i>Climate of the Past</i> , 2013 , 9, 393-421	3.9	113
110	Separating Forced from Chaotic Climate Variability over the Past Millennium. <i>Journal of Climate</i> , 2013 , 26, 6954-6973	4.4	111
109	Influence of human and natural forcing on European seasonal temperatures. <i>Nature Geoscience</i> , 2011 , 4, 99-103	18.3	100
108	Scale-Dependent Detection of Climate Change. <i>Journal of Climate</i> , 1998 , 11, 3282-3294	4.4	99
107	The impact of natural and anthropogenic forcings on climate and hydrology since 1550. <i>Climate Dynamics</i> , 2006 , 28, 3-34	4.2	98
106	Chapter 1 Mediterranean climate variability over the last centuries: A review. <i>Developments in Earth and Environmental Sciences</i> , 2006 , 4, 27-148		87
105	An AOGCM simulation of the climate response to a volcanic super-eruption. <i>Climate Dynamics</i> , 2005 , 25, 725-738	4.2	83
104	Simulation of El Ni B -Southern Oscillation-like Variability in a Global AOGCM and its Response to CO2Increase. <i>Journal of Climate</i> , 1995 , 8, 1473-1502	4.4	77
103	Recent observed changes in severe storms over the United Kingdom and Iceland. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	76
102	Importance of the Pre-Industrial Baseline in Determining the Likelihood of Exceeding the Paris Limits. <i>Nature Climate Change</i> , 2017 , 7, 563-567	21.4	67
101	Testing the linearity of the response to combined greenhouse gas and sulfate aerosol forcing. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	67
100	Isolating the signal of ocean global warming. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	66
99	Two-hundred-fifty years of reconstructed and modeled tropical temperatures. <i>Journal of Geophysical Research</i> , 2006 , 111,		64

98	Fossil fuels in a trillion tonne world. <i>Nature Climate Change</i> , 2015 , 5, 419-423	21.4	63
97	Simulated Global-Mean Sea Level Changes over the Last Half-Millennium. <i>Journal of Climate</i> , 2006 , 19, 4576-4591	4.4	61
96	Fluctuations in autumnWinter severe storms over the British Isles: 1920 to present. <i>International Journal of Climatology</i> , 2009 , 29, 357-371	3.5	58
95	A global climatology of the diurnal variations in sea-surface temperature and implications for MSU temperature trends. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	57
94	Simple indices of global climate variability and change: Part I Dariability and correlation structure. <i>Climate Dynamics</i> , 2003 , 20, 491-502	4.2	57
93	A Comparison of Surface Air Temperature Variability in Three 1000-Yr Coupled OceanAtmosphere Model Integrations. <i>Journal of Climate</i> , 2000 , 13, 513-537	4.4	55
92	Critically Reassessing Tropospheric Temperature Trends from Radiosondes Using Realistic Validation Experiments. <i>Journal of Climate</i> , 2009 , 22, 465-485	4.4	53
91	Progress in Paleoclimate Modeling*. <i>Journal of Climate</i> , 2006 , 19, 5031-5057	4.4	53
90	Assessing Bias and Uncertainty in the HadAT-Adjusted Radiosonde Climate Record. <i>Journal of Climate</i> , 2008 , 21, 817-832	4.4	50
89	Simple indices of global climate variability and change Part II: attribution of climate change during the twentieth century. <i>Climate Dynamics</i> , 2004 , 22, 823-838	4.2	50
88	Anthropogenically-driven increases in the risks of summertime compound hot extremes. <i>Nature Communications</i> , 2020 , 11, 528	17.4	49
87	A Comparison of the Variability of a Climate Model with Paleotemperature Estimates from a Network of Tree-Ring Densities. <i>Journal of Climate</i> , 2002 , 15, 1497-1515	4.4	47
86	Summer heat waves over Eastern China: dynamical processes and trend attribution. <i>Environmental Research Letters</i> , 2017 , 12, 024015	6.2	45
85	Optimal detection and attribution of climate change: sensitivity of results to climate model differences. <i>Climate Dynamics</i> , 2000 , 16, 737-754	4.2	45
84	Global and regional variability in a coupled AOGCM. Climate Dynamics, 1997, 13, 303-323	4.2	41
83	Deriving a sea surface temperature record suitable for climate change research from the along-track scanning radiometers. <i>Advances in Space Research</i> , 2008 , 41, 1-11	2.4	41
82	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. <i>Journal of Geophysical Research</i> , 2011 , 116,		38
81	Four-decade record of pervasive grounding line retreat along the Bellingshausen margin of West Antarctica. <i>Geophysical Research Letters</i> , 2016 , 43, 5741-5749	4.9	36

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80	Probable causes of late twentieth century tropospheric temperature trends. <i>Climate Dynamics</i> , 2003 , 21, 573-591	4.2	34
79	Global evaluation of gross primary productivity in the JULES land surface model v3.4.1. <i>Geoscientific Model Development</i> , 2017 , 10, 2651-2670	6.3	30
78	Causes of atmospheric temperature change 1960\(\mathbb{Q}\)000: A combined attribution analysis. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	29
77	Modelled and observed variability in atmospheric vertical temperature structure. <i>Climate Dynamics</i> , 2000 , 16, 49-61	4.2	28
76	Human Influence on the Record-breaking Cold Event in January of 2016 in Eastern China. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, S118-S122	6.1	28
75	Estimating the Transient Climate Response from Observed Warming. <i>Journal of Climate</i> , 2018 , 31, 8645	-846/63	27
74	Correcting urban bias in large-scale temperature records in China, 1980\(\mathbb{Q}\)009. <i>Geophysical Research Letters</i> , 2017 , 44, 401-408	4.9	24
73	Ascribing potential causes of recent trends in free atmosphere temperatures. <i>Atmospheric Science Letters</i> , 2001 , 2, 166-172	2.4	24
72	Interpretations of the Paris climate target. <i>Nature Geoscience</i> , 2018 , 11, 220-221	18.3	23
71	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe. <i>Climate Dynamics</i> , 2019 , 52, 1187-1210	4.2	22
70	Can a Decadal Forecasting System Predict Temperature Extreme Indices?*. <i>Journal of Climate</i> , 2013 , 26, 3728-3744	4.4	21
69	Attribution of extreme precipitation in the lower reaches of the Yangtze River during May 2016. <i>Environmental Research Letters</i> , 2018 , 13, 014015	6.2	20
68	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part II: Climate Sensitivity. <i>Journal of Climate</i> , 2013 , 26, 9367-9383	4.4	20
67	Evaluation of mechanisms of hot and cold days in climate models over Central Europe. <i>Environmental Research Letters</i> , 2015 , 10, 014002	6.2	19
66	Obtaining diverse behaviors in a climate model without the use of flux adjustments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2781-2793	4.4	19
65	Discrepancies between the modeled and proxy-reconstructed response to volcanic forcing over the past millennium: Implications and possible mechanisms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 7617-7627	4.4	19
64	Climatological Diurnal Cycles in Clear-Sky Brightness Temperatures from the High-Resolution Infrared Radiation Sounder (HIRS). <i>Journal of Atmospheric and Oceanic Technology</i> , 2011 , 28, 1199-1205	2	18
63	Homogenized Daily Relative Humidity Series in China during 1960\(\overline{D}\)017. Advances in Atmospheric Sciences, 2020 , 37, 318-327	2.9	17

62	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part I: Tuning. <i>Journal of Climate</i> , 2013 , 26, 9348-9366	4.4	17
61	Agro-meteorological indices and climate model uncertainty over the UKII <i>Climatic Change</i> , 2015 , 128, 113-126	4.5	16
60	Variability of Deep-Ocean Mass Transport: Spectral Shapes and Spatial Scales. <i>Journal of Climate</i> , 2000 , 13, 1916-1935	4.4	16
59	Uncertainty levels in predicted patterns of anthropogenic climate change. <i>Journal of Geophysical Research</i> , 2000 , 105, 15525-15542		16
58	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. <i>Environmental Research Letters</i> , 2018 , 13, 114004	6.2	16
57	Underestimated Change of Wet-Bulb Temperatures Over East and South China. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086140	4.9	15
56	How Much Has the North Atlantic Ocean Overturning Circulation Changed in the Last 50 Years?. Journal of Climate, 2014 , 27, 6325-6342	4.4	15
55	Impacts of Anthropogenic Forcings and El Nib on Chinese Extreme Temperatures. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 994-1002	2.9	14
54	Anthropogenic emissions and urbanization increase risk of compound hot extremes in cities. <i>Nature Climate Change</i> ,	21.4	14
53	Assessing the robustness of zonal mean climate change detection. <i>Geophysical Research Letters</i> , 2002 , 29, 26-1-26-4	4.9	13
52	Multi-site evaluation of the JULES land surface model using global and local data. <i>Geoscientific Model Development</i> , 2015 , 8, 295-316	6.3	12
51	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017 like Heat Waves over Central Eastern China. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S91-S95	6.1	11
50	Calibrating climate models using inverse methods: case studies with HadAM3, HadAM3P and HadCM3. <i>Geoscientific Model Development</i> , 2017 , 10, 3567-3589	6.3	11
49	Atmospheric science: tropospheric temperature series from satellites. <i>Nature</i> , 2004 , 432, 1 p following 572; discussion following 572	50.4	11
48	Contribution of Anthropogenic Climate Change to April May 2017 Heavy Precipitation over the Uruguay River Basin. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S37-S41	6.1	10
47	Glacier change along West Antarctica's Marie Byrd Land Sector and links to inter-decadal atmosphereBcean variability. <i>Cryosphere</i> , 2018 , 12, 2461-2479	5.5	10
46	How much has urbanisation affected United Kingdom temperatures?. <i>Atmospheric Science Letters</i> , 2019 , 20, e896	2.4	9
45	The Local Aerosol Emission Effect on Surface Shortwave Radiation and Temperatures. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 806-817	7.1	9

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44	Anthropogenic Influences on the Persistent Night-Time Heat Wave in Summer 2018 over Northeast China. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S83-S88	6.1	9
43	Attribution of Detected Temperature Trends in Southeast Brazil. <i>Geophysical Research Letters</i> , 2019 , 46, 8407-8414	4.9	9
42	Carbon accounting for negative emissions technologies. Climate Policy, 2021, 21, 699-717	5.3	9
41	Ocean and land forcing of the record-breaking Dust Bowl heatwaves across central United States. <i>Nature Communications</i> , 2020 , 11, 2870	17.4	8
40	Central-Eastern China Persistent Heat Waves: Evaluation of the AMIP Models. <i>Journal of Climate</i> , 2018 , 31, 3609-3624	4.4	8
39	Climate ModelBimulated Diurnal Cycles in HIRS Clear-Sky Brightness Temperatures. <i>Journal of Climate</i> , 2012 , 25, 5845-5863	4.4	8
38	Anthropogenic Influence on 2018 Summer Persistent Heavy Rainfall in Central Western China. Bulletin of the American Meteorological Society, 2020 , 101, S65-S70	6.1	7
37	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study. <i>Journal of Climate</i> , 2018 , 31, 3387-3410	4.4	7
36	Using longwave HIRS radiances to test climate models. Climate Dynamics, 2014, 43, 1103-1127	4.2	7
35	Using IASI to simulate the total spectrum of outgoing long-wave radiances. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6561-6575	6.8	7
34	Anthropogenic Influence on 2019 Mayllune Extremely Low Precipitation in Southwestern China. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, S97-S102	6.1	7
33	Projected near term changes in the East Asian summer monsoon and its uncertainty. <i>Environmental Research Letters</i> , 2019 , 14, 084038	6.2	6
32	Near-term prediction of impact-relevant extreme temperature indices. <i>Climatic Change</i> , 2015 , 132, 61-7	76 4.5	6
31	Have human activities changed the frequencies of absolute extreme temperatures in eastern China?. <i>Environmental Research Letters</i> , 2018 , 13, 014012	6.2	6
30	Disentangling the causes of the 1816 European year without a summer. <i>Environmental Research Letters</i> , 2019 , 14, 094019	6.2	6
29	What is the Uncertainty in Degree-Day Projections due to Different Calibration Methodologies?. <i>Journal of Climate</i> , 2017 , 30, 9059-9075	4.4	6
28	Temperature response to external forcing in simulations and reconstructions of the last millennium		6
27	Learning from the 2018 heatwave in the context of climate change: are high-temperature extremes important for adaptation in Scotland?. <i>Environmental Research Letters</i> , 2020 , 15, 034051	6.2	5

26	Understanding Interdependent Climate Change Risks Using a Serious Game. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1279-E1300	6.1	5
25	Automated parameter tuning applied to sea ice in a global climate model. <i>Climate Dynamics</i> , 2018 , 50, 51-65	4.2	5
24	Anthropogenic and natural causes of twentieth century temperature change. <i>Space Science Reviews</i> , 2000 , 94, 337-344	7.5	5
23	Widespread Persistent Extreme Cold Events Over South-East China: Mechanisms, Trends, and Attribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033447	4.4	4
22	Anthropogenic Forcings and Associated Changes in Fire Risk in Western North America and Australia During 2015/16. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, S60-S64	6.1	4
21	Anthropogenic Influences on Heavy Precipitation during the 2019 Extremely Wet Rainy Season in Southern China. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, S103-S109	6.1	4
20	Multi-site evaluation of the JULES land surface model using global and local data 2014,		3
19	Anthropogenic Influences on 2019 July Precipitation Extremes Over the MidLlower Reaches of the Yangtze River. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	3
18	Was the Extended Rainy Winter 2018/19 over the Middle and Lower Reaches of the Yangtze River Driven by Anthropogenic Forcing?. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, S67-S73	6.1	3
17	Recent developments in Holocene climate modelling. <i>Developments in Paleoenvironmental Research</i> , 2004 , 495-514		3
16	Quantifying the contribution of an individual to making extreme weather events more likely. <i>Environmental Research Letters</i> , 2021 , 16, 104040	6.2	2
15	Attributing the 2015/2016 Amazon basin drought to anthropogenic influence. <i>Climate Resilience and Sustainability</i> ,		2
14	Reduced Probability of 2020 JuneIJuly Persistent Heavy Mei-yu Rainfall Event in the Middle to Lower Reaches of the Yangtze River Basin under Anthropogenic Forcing. <i>Bulletin of the American Meteorological Society</i> , 2022 , 103, S83-S89	6.1	2
13	Calibrating Climate Models Using Inverse Methods: Case studies with HadAM3, HadAM3P and HadCM3 2017 ,		1
12	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2005 , 86, 1471-1480	6.1	1
11	Rayleigh-Bhard convection as a tool for studying dust devils. <i>Atmospheric Science Letters</i> , 2001 , 2, 132-1	42 4	1
10	Does Model Calibration Reduce Uncertainty in Climate Projections?. <i>Journal of Climate</i> , 2022 , 1-39	4.4	1
9	Physical processes of summer extreme rainfall interannual variability in Eastern Chinapart II: evaluation of CMIP6 models. <i>Climate Dynamics</i> ,1	4.2	1

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