

R T Sutton

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

11,870
citations

49
h-index

108
g-index

165
ext. papers

13,179
ext. citations

7.3
avg, IF

6.86
L-index

#	Paper	IF	Citations
134	The Potential to Narrow Uncertainty in Regional Climate Predictions. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1095-1108	6.1	1509
133	Atlantic Ocean forcing of North American and European summer climate. <i>Science</i> , 2005 , 309, 115-8	33.3	998
132	The potential to narrow uncertainty in projections of regional precipitation change. <i>Climate Dynamics</i> , 2011 , 37, 407-418	4.2	644
131	Atmospheric GCM Response to Extratropical SST Anomalies: Synthesis and Evaluation*. <i>Journal of Climate</i> , 2002 , 15, 2233-2256	4.4	514
130	Decadal Climate Prediction: An Update from the Trenches. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 243-267	6.1	364
129	Decadal predictability of North Atlantic sea surface temperature and climate. <i>Nature</i> , 1997 , 388, 563-567	30.4	315
128	Atlantic Ocean influence on a shift in European climate in the 1990s. <i>Nature Geoscience</i> , 2012 , 5, 788-792	18.3	300
127	Time of emergence of climate signals. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	280
126	Land/sea warming ratio in response to climate change: IPCC AR4 model results and comparison with observations. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	279
125	The Influence of a Weakening of the Atlantic Meridional Overturning Circulation on ENSO. <i>Journal of Climate</i> , 2007 , 20, 4899-4919	4.4	251
124	Have Aerosols Caused the Observed Atlantic Multidecadal Variability?. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 1135-1144	2.1	240
123	Climate Response to Basin-Scale Warming and Cooling of the North Atlantic Ocean. <i>Journal of Climate</i> , 2007 , 20, 891-907	4.4	228
122	A verification framework for interannual-to-decadal predictions experiments. <i>Climate Dynamics</i> , 2013 , 40, 245-272	4.2	207
121	Causes of the Rapid Warming of the North Atlantic Ocean in the Mid-1990s. <i>Journal of Climate</i> , 2012 , 25, 4116-4134	4.4	195
120	Multidecadal modulation of El Niño Southern Oscillation (ENSO) variance by Atlantic Ocean sea surface temperatures. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	195
119	A review of climate risk information for adaptation and development planning. <i>International Journal of Climatology</i> , 2009 , 29, 1193-1215	3.5	188
118	Dominant role of greenhouse-gas forcing in the recovery of Sahel rainfall. <i>Nature Climate Change</i> , 2015 , 5, 757-760	21.4	158

117	A Review of the Role of the Atlantic Meridional Overturning Circulation in Atlantic Multidecadal Variability and Associated Climate Impacts. <i>Reviews of Geophysics</i> , 2019 , 57, 316-375	23.1	152
116	Mechanism of Interdecadal Thermohaline Circulation Variability in a Coupled Ocean-Atmosphere GCM. <i>Journal of Climate</i> , 2005 , 18, 1117-1135	4.4	152
115	The Elements of Climate Variability in the Tropical Atlantic Region. <i>Journal of Climate</i> , 2000 , 13, 3261-3284	4.4	151
114	Interannual to Decadal Climate Predictability in the North Atlantic: A Multimodel-Ensemble Study. <i>Journal of Climate</i> , 2006 , 19, 1195-1203	4.4	150
113	Influence of the Ocean on North Atlantic Climate Variability 1871-1999. <i>Journal of Climate</i> , 2003 , 16, 3296-3313	4.4	142
112	The Atmospheric Response over the North Atlantic to Decadal Changes in Sea Surface Temperature. <i>Journal of Climate</i> , 1999 , 12, 2562-2584	4.4	137
111	Adjustment of the coupled ocean-atmosphere system to a sudden change in the Thermohaline Circulation. <i>Geophysical Research Letters</i> , 2002 , 29, 18-1-18-4	4.9	135
110	Past, Present, and Future Changes in the Atlantic Meridional Overturning Circulation. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 1663-1676	6.1	130
109	Projections of when temperature change will exceed 2 °C above pre-industrial levels. <i>Nature Climate Change</i> , 2011 , 1, 407-412	21.4	129
108	Understanding Land-Sea Warming Contrast in Response to Increasing Greenhouse Gases. Part I: Transient Adjustment. <i>Journal of Climate</i> , 2009 , 22, 3079-3097	4.4	128
107	A reversal of climatic trends in the North Atlantic since 2005. <i>Nature Geoscience</i> , 2016 , 9, 513-517	18.3	126
106	A lagged response to the 11 year solar cycle in observed winter Atlantic/European weather patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,405-13,420	4.4	125
105	Comment on "The Atlantic Multidecadal Oscillation without a role for ocean circulation". <i>Science</i> , 2016 , 352, 1527	33.3	116
104	Atlantic overturning in decline?. <i>Nature Geoscience</i> , 2014 , 7, 2-3	18.3	100
103	Enhancement of ENSO Variability by a Weakened Atlantic Thermohaline Circulation in a Coupled GCM. <i>Journal of Climate</i> , 2007 , 20, 4920-4939	4.4	95
102	Rapid descent of mesospheric air into the stratospheric polar vortex. <i>Geophysical Research Letters</i> , 1993 , 20, 1267-1270	4.9	88
101	Climate impacts of recent multidecadal changes in Atlantic Ocean Sea Surface Temperature: a multimodel comparison. <i>Climate Dynamics</i> , 2010 , 34, 1041-1058	4.2	84
100	Initialized decadal predictions of the rapid warming of the North Atlantic Ocean in the mid 1990s. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	82

99	Atlantic Climate Variability and Predictability: A CLIVAR Perspective. <i>Journal of Climate</i> , 2006 , 19, 5100-5121	4.1	82
98	Bjerknes Compensation and the Decadal Variability of the Energy Transports in a Coupled Climate Model. <i>Journal of Climate</i> , 2006 , 19, 1167-1181	4.4	79
97	Predictability of Winter Climate over the North Atlantic European Region during ENSO Events. <i>Journal of Climate</i> , 2004 , 17, 1953-1974	4.4	77
96	Variability of the North Atlantic summer storm track: mechanisms and impacts on European climate. <i>Environmental Research Letters</i> , 2013 , 8, 034037	6.2	73
95	Report of RMS Discussion Meeting 21 June 2000: Some aspects of the general circulation of the atmosphere Presidential Address. <i>Atmospheric Science Letters</i> , 2000 , 1, 89-100	2.4	73
94	Atlantic Multidecadal Variability and the U.K. ACSIS Program. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 415-425	6.1	60
93	Decadal Predictability of the Atlantic Ocean in a Coupled GCM: Forecast Skill and Optimal Perturbations Using Linear Inverse Modeling. <i>Journal of Climate</i> , 2009 , 22, 3960-3978	4.4	59
92	Exploring the impact of CMIP5 model biases on the simulation of North Atlantic decadal variability. <i>Geophysical Research Letters</i> , 2015 , 42, 5926-5934	4.9	58
91	Recent trends in sea level pressure in the Indian Ocean region. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	58
90	Response of the atmosphere-ocean mixed-layer system to anomalous ocean heat-flux convergence. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002 , 128, 1259-1275	6.4	57
89	An Intercomparison of Skill and Overconfidence/Underconfidence of the Wintertime North Atlantic Oscillation in Multimodel Seasonal Forecasts. <i>Geophysical Research Letters</i> , 2018 , 45, 7808-7817	4.9	55
88	Uncertainties in the timing of unprecedented climates. <i>Nature</i> , 2014 , 511, E3-5	5.4	54
87	Understanding the rapid summer warming and changes in temperature extremes since the mid-1990s over Western Europe. <i>Climate Dynamics</i> , 2017 , 48, 1537-1554	4.2	53
86	Does the North Atlantic Oscillation show unusual persistence on intraseasonal timescales?. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	53
85	The impact of North Atlantic sea surface temperature errors on the simulation of North Atlantic European region climate. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 1774-1783	6.4	49
84	Detection and attribution of Atlantic salinity changes. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	48
83	The influence of oceanic conditions on the hot European summer of 2003. <i>Climate Dynamics</i> , 2006 , 28, 53-66	4.2	48
82	Predictable winter climate in the North Atlantic sector during the 1997-1999 ENSO cycle. <i>Geophysical Research Letters</i> , 2000 , 27, 985-988	4.9	48

81	Connecting Climate Model Projections of Global Temperature Change with the Real World. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 963-980	6.1	48
80	Challenges and opportunities for improved understanding of regional climate dynamics. <i>Nature Climate Change</i> , 2018 , 8, 101-108	21.4	47
79	Evaluating the potential for statistical decadal predictions of sea surface temperatures with a perfect model approach. <i>Climate Dynamics</i> , 2011 , 37, 2495-2509	4.2	46
78	Variability of the Atlantic thermohaline circulation described by three-dimensional empirical orthogonal functions. <i>Climate Dynamics</i> , 2007 , 29, 745-762	4.2	46
77	Decadal predictions of the cooling and freshening of the North Atlantic in the 1960s and the role of ocean circulation. <i>Climate Dynamics</i> , 2014 , 42, 2353-2365	4.2	42
76	Abrupt summer warming and changes in temperature extremes over Northeast Asia since the mid-1990s: Drivers and physical processes. <i>Advances in Atmospheric Sciences</i> , 2016 , 33, 1005-1023	2.9	42
75	An intercomparison between the surface heat flux feedback in five coupled models, COADS and the NCEP reanalysis. <i>Climate Dynamics</i> , 2004 , 22, 373-388	4.2	40
74	Climate Science Needs to Take Risk Assessment Much More Seriously. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1637-1642	6.1	39
73	An Anatomy of the Cooling of the North Atlantic Ocean in the 1960s and 1970s. <i>Journal of Climate</i> , 2014 , 27, 8229-8243	4.4	39
72	Changes of interannual NAO variability in response to greenhouse gases forcing. <i>Climate Dynamics</i> , 2011 , 37, 1621-1641	4.2	39
71	The dominant mechanisms of variability in Atlantic Ocean Heat Transport in a Coupled Ocean-Atmosphere GCM. <i>Geophysical Research Letters</i> , 2001 , 28, 2445-2448	4.9	39
70	Aerosol-Forced AMOC Changes in CMIP6 Historical Simulations. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088166	4.9	38
69	What does global mean temperature tell us about local climate?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	38
68	The impact of resolution on the adjustment and decadal variability of the Atlantic meridional overturning circulation in a coupled climate model. <i>Climate Dynamics</i> , 2012 , 39, 3057-3073	4.2	38
67	Preferred response of the East Asian summer monsoon to local and non-local anthropogenic sulphur dioxide emissions. <i>Climate Dynamics</i> , 2016 , 46, 1733-1751	4.2	37
66	The Importance of Wind and Buoyancy Forcing for the Boundary Density Variations and the Geostrophic Component of the AMOC at 26°N. <i>Journal of Physical Oceanography</i> , 2014 , 44, 2387-2408	2.4	36
65	The 2015 European Heat Wave. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, S57-S62	6.1	35
64	Aerosol contribution to the rapid warming of near-term climate under RCP 2.6. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	35

63	Predictable Climate Impacts of the Decadal Changes in the Ocean in the 1990s. <i>Journal of Climate</i> , 2013 , 26, 6329-6339	4.4	34
62	Atmospheric response in summer linked to recent Arctic sea ice loss. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2070-2076	6.4	34
61	The Impacts of European and Asian Anthropogenic Sulfur Dioxide Emissions on Sahel Rainfall. <i>Journal of Climate</i> , 2014 , 27, 7000-7017	4.4	34
60	Attribution of Forced Decadal Climate Change in Coupled and Uncoupled Ocean-Atmosphere Model Experiments. <i>Journal of Climate</i> , 2017 , 30, 6203-6223	4.4	33
59	Observational evidence of European summer weather patterns predictable from spring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 59-63	11.5	33
58	Importance of density-compensated temperature change for deep North Atlantic Ocean heat uptake. <i>Nature Geoscience</i> , 2012 , 5, 905-910	18.3	33
57	Potential predictability of rapid changes in the Atlantic meridional overturning circulation. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	31
56	Historical Simulations With HadGEM3-GC3.1 for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001995	7.1	30
55	Observed Emergence of the Climate Change Signal: From the Familiar to the Unknown. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086259	4.9	30
54	Indian Ocean Climate and Dipole Variability in Hadley Centre Coupled GCMs. <i>Journal of Climate</i> , 2005 , 18, 2286-2307	4.4	30
53	Forced decadal changes in the East Asian summer monsoon: the roles of greenhouse gases and anthropogenic aerosols. <i>Climate Dynamics</i> , 2018 , 51, 3699-3715	4.2	29
52	Impacts of recent decadal changes in Asian aerosols on the East Asian summer monsoon: roles of aerosol-radiation and aerosol-cloud interactions. <i>Climate Dynamics</i> , 2019 , 53, 3235-3256	4.2	29
51	Atmospheric Impact of Arctic Sea Ice Loss in a Coupled Ocean-Atmosphere Simulation*. <i>Journal of Climate</i> , 2015 , 28, 9606-9622	4.4	28
50	Mechanisms of decadal variability in the Labrador Sea and the wider North Atlantic in a high-resolution climate model. <i>Climate Dynamics</i> , 2017 , 49, 2625-2647	4.2	28
49	El Niño in a Coupled Climate Model: Sensitivity to Changes in Mean State Induced by Heat Flux and Wind Stress Corrections. <i>Journal of Climate</i> , 2007 , 20, 2273-2298	4.4	27
48	A Mechanism of Internal Decadal Atlantic Ocean Variability in a High-Resolution Coupled Climate Model. <i>Journal of Climate</i> , 2015 , 28, 7764-7785	4.4	26
47	Variability in North Atlantic heat content and heat transport in a coupled ocean-atmosphere GCM. <i>Climate Dynamics</i> , 2002 , 19, 485-497	4.2	25
46	The Interannual Variability of Energy Transports within and over the Atlantic Ocean in a Coupled Climate Model. <i>Journal of Climate</i> , 2004 , 17, 1433-1448	4.4	24

45	Lagrangian flow in the middle atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1994 , 120, 1299-1321	6.4	24
44	North Atlantic forcing of climate and its uncertainty from a multi-model experiment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 2013-2032	6.4	22
43	The Interpretation and Use of Biases in Decadal Climate Predictions. <i>Journal of Climate</i> , 2014 , 27, 2931-2947	4.7	21
42	Mechanisms Linking Volcanic Aerosols to the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2012 , 25, 3039-3051	4.4	21
41	Case studies in interannual to decadal climate predictability. <i>Climate Dynamics</i> , 2010 , 35, 1169-1189	4.2	21
40	The effect of El Niño on intraseasonal Kelvin waves. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002 , 128, 1277-1291	6.4	21
39	Changes in tropical Atlantic interannual variability from a substantial weakening of the meridional overturning circulation. <i>Climate Dynamics</i> , 2013 , 41, 2765-2784	4.2	20
38	A new feedback on climate change from the hydrological cycle. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	20
37	Recent multivariate changes in the North Atlantic climate system, with a focus on 2005-2016. <i>International Journal of Climatology</i> , 2018 , 38, 5050-5076	3.5	20
36	ESD Ideas: a simple proposal to improve the contribution of IPCC WGI to the assessment and communication of climate change risks. <i>Earth System Dynamics</i> , 2018 , 9, 1155-1158	4.8	19
35	Processes governing the predictability of the Atlantic meridional overturning circulation in a coupled GCM. <i>Climate Dynamics</i> , 2011 , 37, 1771-1782	4.2	18
34	The 2014 Hot, Dry Summer in Northeast Asia. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, S105-S110	6.1	15
33	Sensitivity of Historical Climate Simulations to Uncertain Aerosol Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085806	4.9	15
32	Multiple perspectives on the attribution of the extreme European summer of 2012 to climate change. <i>Climate Dynamics</i> , 2018 , 50, 3537-3555	4.2	14
31	Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2017 , 48, 297-311	4.2	12
30	The seasonal forecast of electricity demand: a hierarchical Bayesian model with climatological weather generator. <i>Applied Stochastic Models in Business and Industry</i> , 2006 , 22, 113-125	1.1	12
29	Exploring multi-model atmospheric GCM ensembles with ANOVA. <i>Climate Dynamics</i> , 2008 , 31, 973-986	4.2	10
28	On the climate response of the low-latitude Pacific Ocean to changes in the global freshwater cycle. <i>Climate Dynamics</i> , 2006 , 27, 593-611	4.2	10

27	Estimating Climatically Relevant Singular Vectors for Decadal Predictions of the Atlantic Ocean. <i>Journal of Climate</i> , 2011 , 24, 109-123	4.4	9
26	Decadal climate prediction (project GCEP). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 925-37	3	9
25	Quasi-periodic fluctuations in the Greenland-Iceland-Norwegian Seas region in a coupled climate model. <i>Ocean Dynamics</i> , 2007 , 57, 541-557	2.3	9
24	Predictability and skill of boreal winter forecasts made with the ECMWF Seasonal Forecasting System II. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006 , 132, 2031-2053	6.4	8
23	Influence of May Atlantic Ocean initial conditions on the subsequent North Atlantic winter climate. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006 , 132, 2977-2999	6.4	7
22	The influence of subseasonal wind variability on tropical instability waves in the Pacific. <i>Geophysical Research Letters</i> , 2001 , 28, 2041-2044	4.9	7
21	Projected near term changes in the East Asian summer monsoon and its uncertainty. <i>Environmental Research Letters</i> , 2019 , 14, 084038	6.2	6
20	A novel transport assimilation method for the Atlantic meridional overturning circulation at 26°N. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 2563-2572	6.4	6
19	The impact of salinity perturbations on the future uptake of heat by the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2014 , 41, 9072-9079	4.9	6
18	Climate predictability in the second year. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 913-6	3	6
17	Sea-ice decline due to more than warming alone. <i>Nature</i> , 2007 , 450, 27	50.4	6
16	U.K. Community Earth System Modeling for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002004	7.1	6
15	Development, Amplification, and Decay of Atlantic/European Summer Weather Patterns Linked to Spring North Atlantic Sea Surface Temperatures. <i>Journal of Climate</i> , 2020 , 33, 5939-5951	4.4	5
14	Labrador Sea subsurface density as a precursor of multidecadal variability in the North Atlantic: a multi-model study. <i>Earth System Dynamics</i> , 2021 , 12, 419-438	4.8	5
13	Processes shaping the spatial pattern and seasonality of the surface air temperature response to anthropogenic forcing. <i>Climate Dynamics</i> , 2020 , 54, 3959-3975	4.2	4
12	Informing adaptation: New challenges for the climate modelling community. <i>Weather</i> , 2005 , 60, 186-189	0.9	4
11	The Evaluation of the North Atlantic Climate System in UKESM1 Historical Simulations for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002126	7.1	4
10	Impact of air-sea coupling on Northern Hemisphere summer climate and the monsoon-desert teleconnection. <i>Climate Dynamics</i> , 2019 , 53, 5063-5078	4.2	2

9	ESD Ideas: Global climate response scenarios for IPCC assessments. <i>Earth System Dynamics</i> , 2020 , 11, 751-754	4.8	2
8	Attributing extreme weather to climate change is not a done deal. <i>Nature</i> , 2018 , 561, 177	50.4	2
7	Recent decadal weakening of the summer Eurasian westerly jet attributable to anthropogenic aerosol emissions.. <i>Nature Communications</i> , 2022 , 13, 1148	17.4	2
6	Attribution of 2012 extreme climate events: does air-sea interaction matter?. <i>Climate Dynamics</i> , 2020 , 55, 1225-1245	4.2	1
5	Challenges and opportunities for improved understanding of regional climate dynamics		1
4	Recent trends in summer atmospheric circulation in the North Atlantic/European region: is there a role for anthropogenic aerosols?. <i>Journal of Climate</i> , 2021 , 1-49	4.4	0
3	Interactions between the stratospheric polar vortex and Atlantic circulation on seasonal to multi-decadal timescales. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4867-4893	6.8	0
2	Coupled Ocean-Atmosphere Processes and European Climate (COAPEC): Improved Understanding of the Coupled Climate System. <i>Journal of Climate</i> , 2006 , 19, 1065-1065	4.4	
1	CLIVAR Workshop on Atlantic Climate Predictability. <i>Journal of Climate</i> , 2006 , 19, 5947-5947	4.4	