

# Adrian M Tompkins

## List of Publications by Year in descending order

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93  
papers

7,027  
citations

81900

39  
h-index

62596

80  
g-index

103  
all docs

103  
docs citations

103  
times ranked

7432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Separating the Indian and Pacific Ocean Impacts on the Euro-Atlantic Response to ENSO and Its Transition from Early to Late Winter. <i>Journal of Climate</i> , 2021, 34, 1531-1548.	3.2	32
2	Impact of an accelerated melting of Greenland on malaria distribution over Africa. <i>Nature Communications</i> , 2021, 12, 3971.	12.8	14
3	Impact of a Mixed Ocean Layer and the Diurnal Cycle on Convective Aggregation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002186.	3.8	12
4	Projecting the risk of mosquito-borne diseases in a warmer and more populated world: a multi-model, multi-scenario intercomparison modelling study. <i>Lancet Planetary Health</i> , The, 2021, 5, e404-e414.	11.4	165
5	Projected shifts in the distribution of malaria vectors due to climate change. <i>Climatic Change</i> , 2020, 163, 2117-2133.	3.6	6
6	Observed Modulation of the Tropical Radiation Budget by Deep Convective Organization and Lower-Tropospheric Stability. <i>AGU Advances</i> , 2020, 1, e2019AV000155.	5.4	31
7	Monthly Entomological Inoculation Rate Data for Studying the Seasonality of Malaria Transmission in Africa. <i>Data</i> , 2020, 5, 31.	2.3	5
8	Aquatic ecosystem changes in a global biodiversity hotspot: Evidence from the Albertine Rift, central Africa. <i>Journal of Biogeography</i> , 2019, 46, 2098-2114.	3.0	3
9	Dynamical Malaria Forecasts Are Skillful at Regional and Local Scales in Uganda up to 4 Months Ahead. <i>GeoHealth</i> , 2019, 3, 58-66.	4.0	12
10	The First Forecastersâ€™ Handbook for West Africa. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2343-2351.	3.3	4
11	Modelled and observed mean and seasonal relationships between climate, population density and malaria indicators in Cameroon. <i>Malaria Journal</i> , 2019, 18, 359.	2.3	14
12	Predicting Climate Impacts on Health at Sub-seasonal to Seasonal Timescales. , 2019, , 455-477.		6
13	Uncertainty in malaria simulations in the highlands of Kenya: Relative contributions of model parameter setting, driving climate and initial condition errors. <i>PLoS ONE</i> , 2018, 13, e0200638.	2.5	21
14	The Climate-System Historical Forecast Project: Providing Open Access to Seasonal Forecast Ensembles from Centers around the Globe. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2293-2301.	3.3	41
15	Organization of tropical convection in low vertical wind shears: Role of updraft entrainment. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1046-1068.	3.8	122
16	Migration statistics relevant for malaria transmission in Senegal derived from mobile phone data and used in an agent-based migration model. <i>Geospatial Health</i> , 2016, 11, 408.	0.8	23
17	A breeding site model for regional, dynamical malaria simulations evaluated using in situ temporary ponds observations. <i>Geospatial Health</i> , 2016, 11, 390.	0.8	11
18	Assessment of malaria transmission changes in Africa, due to the climate impact of land use change using Coupled Model Intercomparison Project Phase 5 earth system models. <i>Geospatial Health</i> , 2016, 11, 380.	0.8	18

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19	To what extent does climate explain variations in reported malaria cases in early 20th century Uganda?. <i>Geospatial Health</i> , 2016, 11, 407.	0.8	7
20	Projecting malaria hazard from climate change in eastern Africa using large ensembles to estimate uncertainty. <i>Geospatial Health</i> , 2016, 11, 393.	0.8	21
21	Assessing the effects of air temperature and rainfall on malaria incidence: an epidemiological study across Rwanda and Uganda. <i>Geospatial Health</i> , 2016, 11, 379.	0.8	26
22	Numerical framework and performance of the new multiple-phase cloud microphysics scheme in RegCM4.5: precipitation, cloud microphysics, and cloud radiative effects. <i>Geoscientific Model Development</i> , 2016, 9, 2533-2547.	3.6	28
23	Simulating the impact of flooding on wheat yield – Case study in East China. <i>Agricultural and Forest Meteorology</i> , 2016, 216, 221-231.	4.8	19
24	A Regional Model for Malaria Vector Developmental Habitats Evaluated Using Explicit, Pond-Resolving Surface Hydrology Simulations. <i>PLoS ONE</i> , 2016, 11, e0150626.	2.5	24
25	An assessment of upper troposphere and lower stratosphere water vapor in MERRA, MERRA2, and ECMWF reanalyses using Aura MLS observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,468.	3.3	72
26	A process-based investigation into the impact of the Congo basin deforestation on surface climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5721-5739.	3.3	37
27	Comparison of <sc>ECMWF</sc> analysis and forecast humidity data with <sc>CARIBIC</sc> upper troposphere and lower stratosphere observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 833-844.	2.7	40
28	A Generalized Deforestation and Land-Use Change Scenario Generator for Use in Climate Modelling Studies. <i>PLoS ONE</i> , 2015, 10, e0136154.	2.5	12
29	Potential Predictability of Malaria in Africa Using ECMWF Monthly and Seasonal Climate Forecasts. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 521-540.	1.5	34
30	Generalizing Cloud Overlap Treatment to Include the Effect of Wind Shear. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2865-2876.	1.7	27
31	An Interpretation of Cloud Overlap Statistics. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2877-2889.	1.7	22
32	Impact of climate change on global malaria distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3286-3291.	7.1	431
33	Multisectoral climate impact hotspots in a warming world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3233-3238.	7.1	149
34	A regional-scale, high resolution dynamical malaria model that accounts for population density, climate and surface hydrology. <i>Malaria Journal</i> , 2013, 12, 65.	2.3	91
35	A rainfall calibration methodology for impacts modelling based on spatial mapping. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1389-1401.	2.7	28
36	Relative importance of climatic, geographic and socio-economic determinants of malaria in Malawi. <i>Malaria Journal</i> , 2013, 12, 416.	2.3	70

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37	The Ewim Nindie Summer School Series in Ghana: Capacity Building in Meteorological Education and Researchâ€”Lessons Learned and Future Prospects. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 595-601.	3.3	5
38	Using CloudSat Cloud Retrievals to Differentiate Satellite-Derived Rainfall Products over West Africa. <i>Journal of Hydrometeorology</i> , 2012, 13, 1810-1816.	1.9	12
39	Dynamical downscaling of ECMWF Ensemble seasonal forecasts over East Africa with RegCM3. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45
40	Sensitivity of seasonal climate and diurnal precipitation over Central America to land and sea surface schemes in RegCM4. <i>Climate Research</i> , 2012, 52, 31-48.	1.1	68
41	Effect of temporal and spatial scales of weather data on crop yield forecasts. <i>Climate Research</i> , 2012, 55, 65-78.	1.1	2
42	A simple bias correction technique for modeled monsoon precipitation applied to West Africa. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	13
43	Partitioning CloudSat ice water content for comparison with upper tropospheric ice in global atmospheric models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	32
44	Operational meteorology in West Africa: observational networks, weather analysis and forecasting. <i>Atmospheric Science Letters</i> , 2011, 12, 135-141.	1.9	25
45	The ECMWF model climate: recent progress through improved physical parametrizations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1145-1160.	2.7	77
46	Seasonal Ensemble Predictions of West African Monsoon Precipitation in the ECMWF System 3 with a Focus on the AMMA Special Observing Period in 2006. <i>Weather and Forecasting</i> , 2010, 25, 768-788.	1.4	34
47	Using Continuous Ground-Based Radar and Lidar Measurements for Evaluating the Representation of Clouds in Four Operational Models. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 1971-1991.	1.5	38
48	The Maintenance of the Relative Humidity of the Subtropical Free Troposphere. <i>Journal of Climate</i> , 2010, 23, 390-403.	3.2	40
49	Vertical Heating Structures Associated with the MJO as Characterized by TRMM Estimates, ECMWF Reanalyses, and Forecasts: A Case Study during 1998/99 Winter. <i>Journal of Climate</i> , 2009, 22, 6001-6020.	3.2	29
50	The diabatic heat budget of the upper troposphere and lower/mid stratosphere in ECMWF reanalyses. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 21-37.	2.7	91
51	Radiosonde humidity bias correction over the West African region for the special AMMA reanalysis at ECMWF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 595-617.	2.7	61
52	A Gillâ€”Matsunoâ€”type mechanism explains the tropical Atlantic influence on African and Indian monsoon rainfall. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 569-579.	2.7	203
53	Cloud ice: A climate model challenge with signs and expectations of progress. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	313
54	Aerosol analysis and forecast in the European Centre for Mediumâ€”Range Weather Forecasts Integrated Forecast System: Forward modeling. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	360

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55	Validation of the Aura Microwave Limb Sounder temperature and geopotential height measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	370
56	A stochastic convective approach to account for model uncertainty due to unresolved humidity variability. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
57	Comparisons of satellites liquid water estimates to ECMWF and GMAO analyses, 20th century IPCC AR4 climate simulations, and GCM simulations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	54
58	Cloudnet. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 883-898.	3.3	477
59	Generalizing Cloud Overlap Treatment to Include Solar Zenith Angle Effects on Cloud Geometry. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2116-2125.	1.7	26
60	Monthly Forecast of the Madden-Julian Oscillation Using a Coupled GCM. <i>Monthly Weather Review</i> , 2007, 135, 2700-2715.	1.4	107
61	Assessing consistency between EOS MLS and ECMWF analyzed and forecast estimates of cloud ice. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	25
62	Analysis and forecast impact of the main humidity observing systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1473-1485.	2.7	76
63	Ice supersaturation in the ECMWF integrated forecast system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 53-63.	2.7	185
64	Relationships of upper tropospheric water vapor, clouds and SST: MLS observations, ECMWF analyses and GCM simulations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	23
65	Response to the Summer of 2003 Mediterranean SST Anomalies over Europe and Africa. <i>Journal of Climate</i> , 2006, 19, 5439-5454.	3.2	58
66	Impact of Cloud Cover on Solar Radiative Biases in Deep Convective Regimes. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1989-2000.	1.7	13
67	The African easterly jet in the ECMWF Integrated Forecast System: 4D-Var analysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2861-2885.	2.7	35
68	The diurnal cycle of the West African monsoon circulation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2839-2860.	2.7	253
69	Some aspects of systematic error in the ECMWF model. <i>Atmospheric Science Letters</i> , 2005, 6, 133-139.	1.9	17
70	Assimilation and Modeling of the Atmospheric Hydrological Cycle in the ECMWF Forecasting System. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 387-402.	3.3	143
71	Influence of aerosol climatology on forecasts of the African Easterly Jet. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	124
72	Comparisons of EOS MLS cloud ice measurements with ECMWF analyses and GCM simulations: Initial results. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	54

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73	The capability of 4D-Var systems to assimilate cloud-affected satellite infrared radiances. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 917-932.	2.7	57
74	Variational retrieval of temperature and humidity profiles using rain rates versus microwave brightness temperatures. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 827-852.	2.7	49
75	A cloud scheme for data assimilation: Description and initial tests. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2495-2517.	2.7	66
76	Simple Models of the Role of Surface Fluxes in Convective Cold Pool Evolution. Journals of the Atmospheric Sciences, 2004, 61, 1582-1595.	1.7	37
77	Solar radiative biases in deep convective regimes: Possible implications for dynamical feedback. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 1721-1730.	2.7	5
78	Impact of temperature and humidity variability on cloud cover assessed using aircraft data. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2151-2170.	2.7	26
79	Three-dimensional radiative transfer in tropical deep convective clouds. Journal of Geophysical Research, 2003, 108, .	3.3	26
80	The JET2000 Project: Aircraft Observations of the African Easterly Jet and African Easterly Waves. Bulletin of the American Meteorological Society, 2003, 84, 337-352.	3.3	98
81	Effect of Spatial Organization on Solar Radiative Transfer in Three-Dimensional Idealized Stratocumulus Cloud Fields. Journals of the Atmospheric Sciences, 2003, 60, 1774-1794.	1.7	41
82	A Prognostic Parameterization for the Subgrid-Scale Variability of Water Vapor and Clouds in Large-Scale Models and Its Use to Diagnose Cloud Cover. Journals of the Atmospheric Sciences, 2002, 59, 1917-1942.	1.7	349
83	On the Relationship between Tropical Convection and Sea Surface Temperature. Journal of Climate, 2001, 14, 633-637.	3.2	73
84	Organization of Tropical Convection in Low Vertical Wind Shears: The Role of Cold Pools. Journals of the Atmospheric Sciences, 2001, 58, 1650-1672.	1.7	256
85	Organization of Tropical Convection in Low Vertical Wind Shears: The Role of Water Vapor. Journals of the Atmospheric Sciences, 2001, 58, 529-545.	1.7	268
86	The Impact of Dimensionality on Long-Term Cloud-Resolving Model Simulations. Monthly Weather Review, 2000, 128, 1521-1535.	1.4	82
87	The vertical resolution sensitivity of simulated equilibrium temperature and water vapour profiles. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1219-1238.	2.7	45
88	The vertical resolution sensitivity of simulated equilibrium temperature and water-vapour profiles. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1219-1238.	2.7	11
89	Sensitivity of Tropical Convection to Sea Surface Temperature in the Absence of Large-Scale Flow. Journal of Climate, 1999, 12, 462-476.	3.2	83
90	Radiative-convective equilibrium in a three-dimensional cloud-ensemble model. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2073-2097.	2.7	136

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91	Time-scales of adjustment to radiative-convective equilibrium in the tropical atmosphere. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2693-2713.	2.7	30
92	Time-scales of adjustments to radiative-convective equilibrium in the tropical atmosphere. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2693-2713.	2.7	15
93	Radiative-convective equilibrium in a three-dimensional cloud-ensemble model. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2073-2097.	2.7	57