L V Alexander

List of Publications by Year in Descending Order

143 papers	24,716 citations	56 h-index	153 g-index
153 ext. papers	29,313 ext. citations	5.3 avg, IF	7.01 L-index

#	Paper	IF	Citations
143	Understanding the Changing Nature of Marine Cold-Spells. *Geophysical Research Letters*, **2022**, 49,	4.9	1
142	Changes in Observed Daily Precipitation over Global Land Areas since 1950. *Journal of Climate*, **2021**, 34, 3-19	4.4	10
141	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032184	4.4	37
140	Rainfall Estimates on a Gridded Network (REGEN) – a global land-based gridded dataset of daily precipitation from 1950 to 2016. *Hydrology and Earth System Sciences*, **2020**, 24, 919-943	5.5	36
139	Development of an Updated Global Land In Situ-Based Data Set of Temperature and Precipitation Extremes: HadEX3. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032263	4.4	54
138	Intercomparison of annual precipitation indices and extremes over global land areas from in situ, space-based and reanalysis products. *Environmental Research Letters*, **2020**, 15, 055002	6.2	35
137	Insights From CMIP6 for Australia's Future Climate. *Earth's Future*, **2020**, 8, e2019EF001469	7.9	57
136	On the Robustness of Annual Daily Precipitation Maxima Estimates Over Monsoon Asia. *Frontiers in Climate*, **2020**, 2,	7.1	2
135	Amplified warming of seasonal cold extremes relative to the mean in the Northern Hemisphere extratropics. *Earth System Dynamics*, **2020**, 11, 97-111	4.8	4
134	Diverse estimates of annual maxima daily precipitation in 22 state-of-the-art quasi-global land observation datasets. *Environmental Research Letters*, **2020**, 15, 035005	6.2	25
133	Drivers and impacts of the most extreme marine heatwaves events. *Scientific Reports*, **2020**, 10, 19359	4.9	34
132	GSDR: A Global Sub-Daily Rainfall Dataset. *Journal of Climate*, **2019**, 32, 4715-4729	4.4	38
131	Recent Changes in Mean and Extreme Temperature and Precipitation in the Western Pacific Islands. *Journal of Climate*, **2019**, 32, 4919-4941	4.4	22
130	A global assessment of marine heatwaves and their drivers. *Nature Communications*, **2019**, 10, 2624	17.4	145
129	Precipitation From Persistent Extremes is Increasing in Most Regions and Globally. *Geophysical Research Letters*, **2019**, 46, 6041-6049	4.9	39
128	Changes in daily temperature extremes relative to the mean in Coupled Model Intercomparison Project Phase 5 models and observations. *International Journal of Climatology*, **2019**, 39, 5273-5291	3.5	7
127	The unprecedented coupled ocean-atmosphere summer heatwave in the New Zealand region 2017/18: drivers, mechanisms and impacts. *Environmental Research Letters*, **2019**, 14, 044023	6.2	64

126	The effects of climate extremes on global agricultural yields. *Environmental Research Letters*, **2019**, 14, 054010	6.2	154
125	Marine heatwaves threaten global biodiversity and the provision of ecosystem services. *Nature Climate Change*, **2019**, 9, 306-312	21.4	425
124	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. *Climate Dynamics*, **2019**, 53, 3711-3729	4.2	4
123	Exploring trends in wet-season precipitation and drought indices in wet, humid and dry regions. *Environmental Research Letters*, **2019**, 14, 115002	6.2	7
122	On the use of indices to study extreme precipitation on sub-daily and daily timescales. *Environmental Research Letters*, **2019**, 14, 125008	6.2	34
121	FROGS: a daily 1° × 1° gridded precipitation database of rain gauge, satellite and reanalysis products. *Earth System Science Data*, **2019**, 11, 1017-1035	10.5	40
120	A Framework to Determine the Limits of Achievable Skill for Interannual to Decadal Climate Predictions. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 2882-2896	4.4	2
119	Projected Marine Heatwaves in the 21st Century and the Potential for Ecological Impact. *Frontiers in Marine Science*, **2019**, 6,	4.5	131
118	Longer and more frequent marine heatwaves over the past century. *Nature Communications*, **2018**, 9, 1324	17.4	544
117	On the nonlinearity of spatial scales in extreme weather attribution statements. *Climate Dynamics*, **2018**, 50, 2739-2752	4.2	13
116	Changes in relative fit of human heat stress indices to cardiovascular, respiratory, and renal hospitalizations across five Australian urban populations. *International Journal of Biometeorology*, **2018**, 62, 423-432	3.7	10
115	Intensification of the Daily Wet Day Rainfall Distribution Across Australia. *Geophysical Research Letters*, **2018**, 45, 8568-8576	4.9	16
114	Comments on "Temperature-extreme precipitation scaling: A two-way causality?" *International Journal of Climatology*, **2018**, 38, 4661-4663	3.5	6
113	Assessing the Robustness of Future Extreme Precipitation Intensification in the CMIP5 Ensemble. *Journal of Climate*, **2018**, 31, 6505-6525	4.4	24
112	A New Daily Observational Record from Grytviken, South Georgia: Exploring Twentieth-Century Extremes in the South Atlantic. *Journal of Climate*, **2018**, 31, 1743-1755	4.4	9
111	The Sensitivity of Daily Temperature Variability and Extremes to Dataset Choice. *Journal of Climate*, **2018**, 31, 1337-1359	4.4	18
110	Understanding the role of sea surface temperature-forcing for variability in global temperature and precipitation extremes. *Weather and Climate Extremes*, **2018**, 21, 1-9	6	22
109	The representation of health-relevant heatwave characteristics in a Regional Climate Model ensemble for New South Wales and the Australian Capital Territory, Australia. *International Journal of Climatology*, **2017**, 37, 1195-1210	3.5	9

108	Future increases in extreme precipitation exceed observed scaling rates. *Nature Climate Change*, **2017**, 7, 128-132	21.4	157
107	Historical and projected trends in temperature and precipitation extremes in Australia in observations and CMIP5. *Weather and Climate Extremes*, **2017**, 15, 34-56	6	85
106	Large uncertainties in observed daily precipitation extremes over land. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 668-681	4.4	69
105	No significant difference between Australian heat wave impacts of Modoki and eastern Pacific El Niño. *Geophysical Research Letters*, **2017**, 44, 5150-5157	4.9	3
104	On the use of self-organizing maps for studying climate extremes. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3891-3903	4.4	56
103	Comparing Australian heat waves in the CMIP5 models through cluster analysis. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3266-3281	4.4	16
102	Understanding the spatio-temporal influence of climate variability on Australian heatwaves. *International Journal of Climatology*, **2017**, 37, 3963-3975	3.5	15
101	The influence of topography on midlatitude cyclones on Australia's east coast. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 9173-9184	4.4	5
100	Comparative evaluation of human heat stress indices on selected hospital admissions in Sydney, Australia. *Australian and New Zealand Journal of Public Health*, **2017**, 41, 381-387	2.3	9
99	Understanding, modeling and predicting weather and climate extremes: Challenges and opportunities. *Weather and Climate Extremes*, **2017**, 18, 65-74	6	106
98	Australian east coast mid-latitude cyclones in the 20th Century Reanalysis ensemble. *International Journal of Climatology*, **2017**, 37, 2187-2192	3.5	12
97	Greater increases in temperature extremes in low versus high income countries. *Environmental Research Letters*, **2017**, 12, 034007	6.2	27
96	Zonal winds and southeast Australian rainfall in global and regional climate models. *Climate Dynamics*, **2016**, 46, 123-133	4.2	10
95	Extraordinary heat during the 1930s US Dust Bowl and associated large-scale conditions. *Climate Dynamics*, **2016**, 46, 413-426	4.2	32
94	Multi-model ensemble projections of future extreme temperature change using a statistical downscaling method in south eastern Australia. *Climatic Change*, **2016**, 138, 85-98	4.5	37
93	A Multiregion Model Evaluation and Attribution Study of Historical Changes in the Area Affected by Temperature and Precipitation Extremes. *Journal of Climate*, **2016**, 29, 8285-8299	4.4	13
92	Comparing regional precipitation and temperature extremes in climate model and reanalysis products. *Weather and Climate Extremes*, **2016**, 13, 35-43	6	41
91	The influence of local sea surface temperatures on Australian east coast cyclones. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 13,352	4.4	12

90	Temperature and precipitation extremes in century-long gridded observations, reanalyses, and atmospheric model simulations. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 11,174	4.4	73
89	The influence of soil moisture deficits on Australian heatwaves. *Environmental Research Letters*, **2016**, 11, 064003	6.2	45
88	A hierarchical approach to defining marine heatwaves. *Progress in Oceanography*, **2016**, 141, 227-238	3.8	495
87	Evaluating synoptic systems in the CMIP5 climate models over the Australian region. *Climate Dynamics*, **2016**, 47, 2235-2251	4.2	26
86	More extreme precipitation in the world dry and wet regions. *Nature Climate Change*, **2016**, 6, 508-513	21.4	652
85	Attribution of extreme temperature changes during 1951 2010. *Climate Dynamics*, **2016**, 46, 1769-1782	4.2	55
84	Global observed long-term changes in temperature and precipitation extremes: A review of progress and limitations in IPCC assessments and beyond. *Weather and Climate Extremes*, **2016**, 11, 4-16	6	191
83	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. *Australian Meteorological Magazine*, **2016**, 66, 108-124		14
82	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. *Journal of Southern Hemisphere Earth Systems Science*, **2016**, 66, 108-124	2.1	3
81	How much does it rain over land?. *Geophysical Research Letters*, **2016**, 43, 341-348	4.9	85
80	Reassessing changes in diurnal temperature range: Intercomparison and evaluation of existing global data set estimates. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 5138-5158	4.4	44
79	Natural hazards in Australia: heatwaves. *Climatic Change*, **2016**, 139, 101-114	4.5	55
78	Projected changes in east Australian midlatitude cyclones during the 21st century. *Geophysical Research Letters*, **2016**, 43, 334-340	4.9	25
77	Impact of Identification Method on the Inferred Characteristics and Variability of Australian East Coast Lows. *Monthly Weather Review*, **2015**, 143, 864-877	2.4	29
76	The ENSO-Australian rainfall teleconnection in reanalysis and CMIP5. *Climate Dynamics*, **2015**, 44, 2623-2635	4.2	28
75	Temperature and Humidity Effects on Hospital Morbidity in Darwin, Australia. *Annals of Global Health*, **2015**, 81, 333-41	3.3	18
74	Multi-dataset comparison of gridded observed temperature and precipitation extremes over China. *International Journal of Climatology*, **2015**, 35, 2809-2827	3.5	67
73	Systematic investigation of gridding-related scaling effects on annual statistics of daily temperature and precipitation maxima: A case study for south-east Australia. *Weather and Climate Extremes*, **2015**, 9, 6-16	6	38

72	The timing of anthropogenic emergence in simulated climate extremes. *Environmental Research Letters*, **2015**, 10, 094015	6.2	81
71	Differential Effects of Temperature Extremes on Hospital Admission Rates for Respiratory Disease between Indigenous and Non-Indigenous Australians in the Northern Territory. *International Journal of Environmental Research and Public Health*, **2015**, 12, 15352-65	4.6	9
70	How Well Do Gridded Datasets of Observed Daily Precipitation Compare over Australia?. *Advances in Meteorology*, **2015**, 2015, 1-15	1.7	39
69	Resolution Sensitivity of Cyclone Climatology over Eastern Australia Using Six Reanalysis Products*. *Journal of Climate*, **2015**, 28, 9530-9549	4.4	25
68	A Multiregion Assessment of Observed Changes in the Areal Extent of Temperature and Precipitation Extremes. *Journal of Climate*, **2015**, 28, 9206-9220	4.4	27
67	Consistency of Temperature and Precipitation Extremes across Various Global Gridded In Situ and Reanalysis Datasets. *Journal of Climate*, **2014**, 27, 5019-5035	4.4	118
66	Effect of ambient temperature on Australian northern territory public hospital admissions for cardiovascular disease among indigenous and non-indigenous populations. *International Journal of Environmental Research and Public Health*, **2014**, 11, 1942-59	4.6	26
65	Investigating uncertainties in global gridded datasets of climate extremes. *Climate of the Past*, **2014**, 10, 2171-2199	3.9	27
64	Extreme Rainfall Variability in Australia: Patterns, Drivers, and Predictability*. *Journal of Climate*, **2014**, 27, 6035-6050	4.4	71
63	Future changes to the intensity and frequency of short-duration extreme rainfall. *Reviews of Geophysics*, **2014**, 52, 522-555	23.1	599
62	Trends and variability of temperature extremes in the tropical Western Pacific. *International Journal of Climatology*, **2014**, 34, 2585-2603	3.5	23
61	An updated assessment of trends and variability in total and extreme rainfall in the western Pacific. *International Journal of Climatology*, **2014**, 34, 2775-2791	3.5	33
60	An investigation of some unexpected frost day increases in southern Australia. *Australian Meteorological Magazine*, **2014**, 64, 261-271		8
59	A framework for benchmarking of homogenisation algorithm performance on the global scale. *Geoscientific Instrumentation, Methods and Data Systems*, **2014**, 3, 187-200	1.5	25
58	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 2098-2118	4.4	791
57	On the Measurement of Heat Waves. *Journal of Climate*, **2013**, 26, 4500-4517	4.4	476
56	Global Land-Based Datasets for Monitoring Climatic Extremes. *Bulletin of the American Meteorological Society*, **2013**, 94, 997-1006	6.1	242
55	Warming and wetting signals emerging from analysis of changes in climate extreme indices over South America. *Global and Planetary Change*, **2013**, 100, 295-307	4.2	170

54	Global Increasing Trends in Annual Maximum Daily Precipitation. *Journal of Climate*, **2013**, 26, 3904-3918	4.4	665
53	Explaining Extreme Events of 2012 from a Climate Perspective. *Bulletin of the American Meteorological Society*, **2013**, 94, S1-S74	6.1	198
52	The efficacy of using gridded data to examine extreme rainfall characteristics: a case study for Australia. *International Journal of Climatology*, **2013**, 33, 2376-2387	3.5	106
51	Debate heating up over changes in climate variability. *Environmental Research Letters*, **2013**, 8, 041001	6.2	42
50	Asymmetry in the response of eastern Australia extreme rainfall to low-frequency Pacific variability. *Geophysical Research Letters*, **2013**, 40, 2271-2277	4.9	65
49	Climate Extremes: Challenges in Estimating and Understanding Recent Changes in the Frequency and Intensity of Extreme Climate and Weather Events **2013**, 339-389		62
48	Climate and Weather Extremes **2012**, 253-288		7
47	Effects of land cover change on temperature and rainfall extremes in multi-model ensemble simulations **2012**,		3
46	Effects of land cover change on temperature and rainfall extremes in multi-model ensemble simulations. *Earth System Dynamics*, **2012**, 3, 213-231	4.8	69
45	The shifting probability distribution of global daytime and night-time temperatures. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	208
44	Climate model simulated changes in temperature extremes due to land cover change. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		76
43	The impact of the El Niño-Southern Oscillation on maximum temperature extremes. *Geophysical Research Letters*, **2012**, 39,	4.9	58
42	Increasing frequency, intensity and duration of observed global heatwaves and warm spells. *Geophysical Research Letters*, **2012**, 39,	4.9	456
41	Reanalysis suggests long-term upward trends in European storminess since 1871. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	73
40	Indices for monitoring changes in extremes based on daily temperature and precipitation data. *Wiley Interdisciplinary Reviews: Climate Change*, **2011**, 2, 851-870	8.4	933
39	Changes in temperature and precipitation extremes over the Indo-Pacific region from 1971 to 2005. *International Journal of Climatology*, **2011**, 31, 791-801	3.5	134
38	Significant decline in storminess over southeast Australia since the late 19th century. *Australian Meteorological Magazine*, **2011**, 61, 23-30		12
37	A New Daily Pressure Dataset for Australia and Its Application to the Assessment of Changes in Synoptic Patterns during the Last Century. *Journal of Climate*, **2010**, 23, 1111-1126	4.4	33

36	Forest plantations, water availability, and regional climate change: controversies surrounding Acacia mearnsii plantations in the upper Palnis Hills, southern India. *Regional Environmental Change*, **2010**, 10, 103-117	4.3	15
35	An assessment of climate change impacts and adaptation for the Torres Strait Islands, Australia. *Climatic Change*, **2010**, 102, 405-433	4.5	38
34	Assessing trends in observed and modelled climate extremes over Australia in relation to future projections. *International Journal of Climatology*, **2009**, 29, 417-435	3.5	279
33	Fluctuations in autumn–winter severe storms over the British Isles: 1920 to present. *International Journal of Climatology*, **2009**, 29, 357-371	3.5	58
32	Synoptic influences on seasonal, interannual and decadal temperature variations in Melbourne, Australia. *International Journal of Climatology*, **2009**, 30, n/a-n/a	3.5	7
31	Temperature and precipitation extremes in the second half of the twentieth century from numerical modeling results and observational data. *Izvestiya - Atmospheric and Oceanic Physics*, **2009**, 45, 284-293	1	10
30	Influence of sea surface temperature variability on global temperature and precipitation extremes. *Journal of Geophysical Research*, **2009**, 114,		64
29	Severe storms inferred from 150 years of sub-daily pressure observations along Victoria's "Shipwreck Coast". *Australian Meteorological Magazine*, **2009**, 58, 129-133		8
28	European Climate Extremes and the North Atlantic Oscillation. *Journal of Climate*, **2008**, 21, 72-83	4.4	212
27	Comparison of observed and multimodeled trends in annual extremes of temperature and precipitation. *Geophysical Research Letters*, **2007**, 34,	4.9	41
26	Enhancing Middle East Climate Change Monitoring and Indexes. *Bulletin of the American Meteorological Society*, **2007**, 88, 1249-1254	6.1	10
25	Has the climate become more variable or extreme? Progress 1992-2006. *Progress in Physical Geography*, **2007**, 31, 77-87	3.5	51
24	Large-scale changes in observed daily maximum and minimum temperatures: Creation and analysis of a new gridded data set. *Journal of Geophysical Research*, **2006**, 111,		261
23	Global observed changes in daily climate extremes of temperature and precipitation. *Journal of Geophysical Research*, **2006**, 111,		2250
22	Variations in severe storms over China. *Geophysical Research Letters*, **2006**, 33,	4.9	10
21	Indices for daily temperature and precipitation extremes in Europe analyzed for the period 1901–2000. *Journal of Geophysical Research*, **2006**, 111,		293
20	Recent observed changes in severe storms over the United Kingdom and Iceland. *Geophysical Research Letters*, **2005**, 32,	4.9	76
19	Trends in Middle East climate extreme indices from 1950 to 2003. *Journal of Geophysical Research*, **2005**, 110,		339

18	Global and regional climate in 2003. *Weather*, **2004**, 59, 145-152	0.9	19
17	Data Rescue in the Southeast Asia and South Pacific Region: Challenges and Opportunities. *Bulletin of the American Meteorological Society*, **2004**, 85, 1483-1490	6.1	31
16	Global and regional climate in 2002. *Weather*, **2003**, 58, 324-336	0.9	1
15	Comparison of Modeled and Observed Trends in Indices of Daily Climate Extremes. *Journal of Climate*, **2003**, 16, 3560-3571	4.4	277
14	Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. *Journal of Geophysical Research*, **2003**, 108,		6770
13	Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. *International Journal of Climatology*, **2002**, 22, 1441-1453	3.5	1078
12	Global and regional climate in 2001. *Weather*, **2002**, 57, 328-340	0.9	5
11	Recent changes in climate extremes in the Caribbean region. *Journal of Geophysical Research*, **2002**, 107, ACL 16-1-ACL 16-9		188
10	Climate Assessment for 2001. *Bulletin of the American Meteorological Society*, **2002**, 83, 938-938	6.1	24
9	Climate Assessment for 2000. *Bulletin of the American Meteorological Society*, **2001**, 82, 1304-1304	6.1	17
8	Global and regional climate in 2000. *Weather*, **2001**, 56, 255-267	0.9	5
7	Adjusting for sampling density in grid box land and ocean surface temperature time series. *Journal of Geophysical Research*, **2001**, 106, 3371-3380		212
6	Simulations of time-coincident, co-located measurements from ENVISAT-1 instruments for the characterization of tropospheric aerosols: a sensitivity study including cloud contamination effects. *Atmospheric Science Letters*, **2000**, 1, 142-150	2.4	143
5	Changes in Climate Extremes and their Impacts on the Natural Physical Environment109-230		709
4	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. *Advances in Science and Research*,15, 117-126		44
3	Investigating uncertainties in global gridded datasets of climate extremes		2
2	Rainfall Estimates on a Gridded Network (REGEN) – A global land-based gridded dataset of daily precipitation from 1950–2013		13
1	The drivers of extreme rainfall event timing in Australia. *International Journal of Climatology*,	3.5	1