

Frequency of extreme Sahelian storms tripled since 1980

Nature

544, 475-478

DOI: [10.1038/nature22069](https://doi.org/10.1038/nature22069)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Severe weather in a warming climate. <i>Nature</i> , 2017, 544, 422-423.	13.7	4
2	A larger palette for biological imaging. <i>Nature</i> , 2017, 544, 423-424.	13.7	0
3	A short review of numerical cloud-resolving models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1373578.	0.8	34
4	A multi-scale analysis of the extreme rain event of Ouagadougou in 2009. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 3094-3109.	1.0	37
6	Analysis of Suspended Particulate Matter and Its Drivers in Sahelian Ponds and Lakes by Remote Sensing (Landsat and MODIS): Gourma Region, Mali. <i>Remote Sensing</i> , 2017, 9, 1272.	1.8	21
7	The Interaction of Indian Monsoon Depressions with Northwesterly Midlevel Dry Intrusions. <i>Monthly Weather Review</i> , 2018, 146, 679-693.	0.5	10
8	Wavelet Scale Analysis of Mesoscale Convective Systems for Detecting Deep Convection From Infrared Imagery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3035-3050.	1.2	27
9	Model Assessment of Observed Precipitation Trends over Land Regions: Detectable Human Influences and Possible Low Bias in Model Trends. <i>Journal of Climate</i> , 2018, 31, 4617-4637.	1.2	31
10	Trend in the Co-Occurrence of Extreme Daily Rainfall in West Africa Since 1950. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1536-1551.	1.2	10
11	Tropical continental downdraft characteristics: mesoscale systems versus unorganized convection. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1997-2010.	1.9	27
12	The WASCAL Hydrometeorological Observatory in the Sudan Savanna of Burkina Faso and Ghana. <i>Vadose Zone Journal</i> , 2018, 17, 1-20.	1.3	15
13	Assessing the reliability and uncertainties of projected changes in precipitation and temperature in Coupled Model Intercomparison Project phase 5 models over the Lake Chad basin. <i>International Journal of Climatology</i> , 2018, 38, 5136-5152.	1.5	13
14	Earlier Seasonal Onset of Intense Mesoscale Convective Systems in the Congo Basin Since 1999. <i>Geophysical Research Letters</i> , 2018, 45, 13,458.	1.5	33
15	Trends in hydrological extremes in the Senegal and Niger Rivers. <i>Journal of Hydrology</i> , 2018, 566, 531-545.	2.3	61
16	Later Wet Seasons with More Intense Rainfall over Africa under Future Climate Change. <i>Journal of Climate</i> , 2018, 31, 9719-9738.	1.2	141
17	The impact of water crises and climate changes on the transmission of protozoan parasites in Africa. <i>Pathogens and Global Health</i> , 2018, 112, 281-293.	1.0	47
18	Origin and Evolution of Biodiversity. , 2018, , .		10
19	AMMA-CATCH, a Critical Zone Observatory in West Africa Monitoring a Region in Transition. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	1.3	49

#	ARTICLE	IF	CITATIONS
20	Natura Fecit Saltum: Punctuationalism Pervades the Natural Sciences. , 2018, , 341-361.		0
21	Changes in climate extremes over West and Central Africa at 1.5°C and 2°C global warming. Environmental Research Letters, 2018, 13, 065020.	2.2	70
22	Increasing extent and intensity of thunderstorms observed over the Congo Basin from 1982 to 2016. Atmospheric Research, 2018, 213, 17-26.	1.8	34
23	Intensity-duration-frequency (IDF) rainfall curves in Senegal. Natural Hazards and Earth System Sciences, 2018, 18, 1849-1866.	1.5	36
24	Impacts of the seasonal distribution of rainfall on vegetation productivity across the Sahel. Biogeosciences, 2018, 15, 319-330.	1.3	47
25	Mesoscale rainfall patterns observed around wetlands in sub-Saharan Africa. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2118-2132.	1.0	17
26	Evolution of Surface Hydrology in the Sahelo-Sudanian Strip: An Updated Review. Water (Switzerland), 2018, 10, 748.	1.2	70
27	Rainfall types over southern West Africa: Objective identification, climatology and synoptic environment. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1628-1648.	1.0	57
28	Rainfall intensification in tropical semi-arid regions: the Sahelian case. Environmental Research Letters, 2018, 13, 064013.	2.2	104
29	Scales for rating heavy rainfall events in the West African Sahel. Weather and Climate Extremes, 2018, 21, 36-42.	1.6	32
30	Modelling the potential impacts of afforestation on extreme precipitation over West Africa. Climate Dynamics, 2019, 52, 2185-2198.	1.7	12
31	The impact of rain events on CO2 emissions from contrasting land use systems in semi-arid West African savannas. Science of the Total Environment, 2019, 647, 1478-1489.	3.9	13
32	Future changes and uncertainty in decision-relevant measures of East African climate. Climatic Change, 2019, 156, 365-384.	1.7	21
34	What can we know about future precipitation in Africa? Robustness, significance and added value of projections from a large ensemble of regional climate models. Climate Dynamics, 2019, 53, 5833-5858.	1.7	137
35	The possible role of the Sahel Greenbelt on the occurrence of climate extremes over the West African Sahel. Atmospheric Science Letters, 2019, 20, e927.	0.8	17
36	A Spatial-Temporal Extreme Precipitation Database from GPM IMERG. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10344-10363.	1.2	24
37	Adverse wind conditions during northward Sahara crossings increase the in-flight mortality of Black-tailed Godwits. Ecology Letters, 2019, 22, 2060-2066.	3.0	53
39	Drought-induced regime shift and resilience of a Sahelian ecohydrosystem. Environmental Research Letters, 2019, 14, 105005.	2.2	12

#	ARTICLE	IF	CITATIONS
40	On the driving forces of historical changes in the fatalities of tropical cyclone disasters in China from 1951 to 2014. <i>Natural Hazards</i> , 2019, 98, 507-533.	1.6	3
41	Deep Convection over Africa: Annual Cycle, ENSO, and Trends in the Hotspots. <i>Journal of Climate</i> , 2019, 32, 8791-8811.	1.2	22
42	Greening and Browning in a Climate Change Hotspot: The Mediterranean Basin. <i>BioScience</i> , 2019, 69, 143-151.	2.2	52
43	Sensitivity of GPS tropospheric estimates to mesoscale convective systems in West Africa. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9541-9561.	1.9	5
44	Estimation of extreme daily precipitation thermodynamic scaling using gridded satellite precipitation products over tropical land. <i>Environmental Research Letters</i> , 2019, 14, 095009.	2.2	17
45	Evidence of crop production losses in West Africa due to historical global warming in two crop models. <i>Scientific Reports</i> , 2019, 9, 12834.	1.6	136
46	The human imperative of stabilizing global climate change at 1.5°C. <i>Science</i> , 2019, 365, .	6.0	498
47	Changes in intense rainfall events and dry periods across Africa in the twenty-first century. <i>Climate Dynamics</i> , 2019, 53, 2757-2777.	1.7	27
48	Climatology of coastal wind regimes in Benin. <i>Meteorologische Zeitschrift</i> , 2019, 28, 23-39.	0.5	8
49	Implication of tropical lower stratospheric cooling in recent trends in tropical circulation and deep convective activity. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2655-2669.	1.9	10
50	Rainfall trends in the African Sahel: Characteristics, processes, and causes. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019, 10, e591.	3.6	123
51	Water transit time and active recharge in the Sahel inferred by bomb-produced ³⁶ Cl. <i>Scientific Reports</i> , 2019, 9, 7465.	1.6	16
52	Contemporary Climate Change of the African Monsoon Systems. <i>Current Climate Change Reports</i> , 2019, 5, 145-159.	2.8	23
53	Enhanced future changes in wet and dry extremes over Africa at convection-permitting scale. <i>Nature Communications</i> , 2019, 10, 1794.	5.8	165
54	Local Severe Storm Tracking and Warning in Pre-Convection Stage from the New Generation Geostationary Weather Satellite Measurements. <i>Remote Sensing</i> , 2019, 11, 383.	1.8	20
55	Interannual to Multi-decadal streamflow variability in West and Central Africa: Interactions with catchment properties and large-scale climate variability. <i>Global and Planetary Change</i> , 2019, 177, 141-156.	1.6	24
56	Mesoscale Convective Systems in the Asian Monsoon Region From Advanced Himawari Imager: Algorithms and Preliminary Results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2210-2234.	1.2	57
57	Unstable Little Ice Age climate revealed by high-resolution proxy records from northwestern China. <i>Climate Dynamics</i> , 2019, 53, 1517-1526.	1.7	30

#	ARTICLE	IF	CITATIONS
58	Remote-sensing disturbance detection index to identify spatio-temporal varying flood impact on crop production. <i>Agricultural and Forest Meteorology</i> , 2019, 269-270, 180-191.	1.9	36
59	Solving the storm split-merge problemâ€”A combined storm identification, tracking algorithm. <i>Atmospheric Research</i> , 2019, 218, 335-346.	1.8	16
60	Recent Trends in the Daily Rainfall Regime in Southern West Africa. <i>Atmosphere</i> , 2019, 10, 741.	1.0	28
61	Seasonal Forecasting of the Onset of the Rainy Season in West Africa. <i>Atmosphere</i> , 2019, 10, 528.	1.0	14
62	Larger Future Intensification of Rainfall in the West African Sahel in a Convectionâ€”Permitting Model. <i>Geophysical Research Letters</i> , 2019, 46, 13299-13307.	1.5	26
63	Regional Differences in the Response of Rainfall to Convectively Coupled Kelvin Waves over Tropical Africa. <i>Journal of Climate</i> , 2019, 32, 8143-8165.	1.2	10
64	Comparison of hydrological models for use in climate change studies: A test on 241 catchments in West and Central Africa. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 477-486.	0.4	8
65	Convective Initiation Nowcasting Over China From Fengyun-4A Measurements Based on TV-L ₁ Optical Flow and BP_Adaboost Neural Network Algorithms. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 4284-4296.	2.3	7
66	Characteristics of high-intensity groundwater abstractions from weathered crystalline bedrock aquifers in East Africa. <i>Hydrogeology Journal</i> , 2019, 27, 459-474.	0.9	34
67	Modeling dynamics and adaptation at operational and structural scales for the ex-ante economic evaluation of large dams in an African context. <i>Water Resources and Economics</i> , 2019, 26, 100125.	0.9	7
68	Oceanic Forcing on Interannual Variability of Sahel Heavy and Moderate Daily Rainfall. <i>Journal of Hydrometeorology</i> , 2019, 20, 397-410.	0.7	32
69	Evaluating Large-Scale Variability and Change in Tropical Rainfall and Its Extremes. , 2019, , 139-163.		1
70	Simulation and analysis of the moist vortex associated with the extreme rain event of Ouagadougou in 2009. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 86-104.	1.0	5
71	Role of the West African westerly jet in the seasonal and diurnal cycles of precipitation over West Africa. <i>Climate Dynamics</i> , 2020, 54, 843-861.	1.7	12
72	Spatial Variation and Trend of Extreme Precipitation in West Africa and Teleconnections with Remote Indices. <i>Atmosphere</i> , 2020, 11, 999.	1.0	25
73	Rainwater Harvesting Techniques to Face Water Scarcity in African Drylands: Hydrological Efficiency Assessment. <i>Water (Switzerland)</i> , 2020, 12, 2646.	1.2	10
74	Floodplain Settlement Dynamics in the Maouri Dallol at GuÃ©chÃ©mÃ©, Niger: A Multidisciplinary Approach. <i>Sustainability</i> , 2020, 12, 5632.	1.6	4
75	African heritage in a changing climate. <i>Azania</i> , 2020, 55, 297-328.	0.4	29

#	ARTICLE	IF	CITATIONS
76	How a typical West African day in the future-climate compares with current-climate conditions in a convection-permitting and parameterised convection climate model. <i>Climatic Change</i> , 2020, 163, 267-296.	1.7	11
77	Pearl millet genomic vulnerability to climate change in West Africa highlights the need for regional collaboration. <i>Nature Communications</i> , 2020, 11, 5274.	5.8	45
78	Extreme precipitation in the tropics is closely associated with long-lived convective systems. <i>Communications Earth & Environment</i> , 2020, 1, .	2.6	36
79	Recent (1980 to 2015) Trends and Variability in Daily Interannual Soluble Iron Deposition from Dust, Fire, and Anthropogenic Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089688.	1.5	31
80	Inter-Comparison of AIRS Temperature and Relative Humidity Profiles with AMMA and DACCWA Radiosonde Observations over West Africa. <i>Remote Sensing</i> , 2020, 12, 2631.	1.8	4
81	Numerical Study of the Impact of Complex Terrain and Soil Moisture on Convective Initiation. <i>Atmosphere</i> , 2020, 11, 871.	1.0	5
82	Farmers' Perceptions of Climate Change and Agricultural Adaptation in Burkina Faso. <i>Atmosphere</i> , 2020, 11, 827.	1.0	21
83	Urban Flood Modeling Using 2D Shallow-Water Equations in Ouagadougou, Burkina Faso. <i>Water (Switzerland)</i> , 2020, 12, 2120.	1.2	10
84	Assessing uncertainties in the regional projections of precipitation in CORDEX-AFRICA. <i>Climatic Change</i> , 2020, 162, 583-601.	1.7	25
85	Dry soils can intensify mesoscale convective systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21132-21137.	3.3	40
86	Circulation Patterns Associated with Current and Future Rainfall over Ethiopia and South Sudan from a Convection-Permitting Model. <i>Atmosphere</i> , 2020, 11, 1352.	1.0	10
87	Robust assessment of the time of emergence of precipitation change in West Africa. <i>Scientific Reports</i> , 2020, 10, 7670.	1.6	32
88	The formation, character and changing nature of mesoscale convective systems. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 300-314.	12.2	86
89	Rainfall Variability and Trend Analysis of Rainfall in West Africa (Senegal, Mauritania, Burkina Faso). <i>Water (Switzerland)</i> , 2020, 12, 1754.	1.2	25
90	What Drives the Intensification of Mesoscale Convective Systems over the West African Sahel under Climate Change?. <i>Journal of Climate</i> , 2020, 33, 3151-3172.	1.2	42
91	Anthropogenic Climate Change in Deserts. , 2020, , 343-370.		1
92	The Greening of the Sahara: Past Changes and Future Implications. <i>One Earth</i> , 2020, 2, 235-250.	3.6	91
93	A Boundary Forcing Sensitivity Analysis of the West African Monsoon Simulated by the ModÃ©le AtmosphÃ©rique RÃ©gional. <i>Atmosphere</i> , 2020, 11, 191.	1.0	0

#	ARTICLE	IF	CITATIONS
94	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. <i>Global Change Biology</i> , 2020, 26, 5942-5964.	4.2	60
95	Using the CHIRPS Dataset to Investigate Historical Changes in Precipitation Extremes in West Africa. <i>Climate</i> , 2020, 8, 84.	1.2	25
96	Thunderstorm Trends over Africa. <i>Journal of Climate</i> , 2020, 33, 2741-2755.	1.2	19
97	Uncertainties in the Annual Cycle of Rainfall Characteristics over West Africa in CMIP5 Models. <i>Atmosphere</i> , 2020, 11, 216.	1.0	10
98	A study of the monsoonal hydrology contribution using a 8-yr record (2010–2018) from superconducting gravimeter OSG-060 at Djougou (Benin, West Africa). <i>Geophysical Journal International</i> , 2020, 221, 431-439.	1.0	11
99	The MJO's impact on rainfall trends over the Congo rainforest. <i>Climate Dynamics</i> , 2020, 54, 2683-2695.	1.7	12
100	The Lake Chad hydrology under current climate change. <i>Scientific Reports</i> , 2020, 10, 5498.	1.6	84
101	Advances in understanding large-scale responses of the water cycle to climate change. <i>Annals of the New York Academy of Sciences</i> , 2020, 1472, 49-75.	1.8	226
102	Water Conservation Methods and Cropping Systems for Increased Productivity and Economic Resilience in Burkina Faso. <i>Water (Switzerland)</i> , 2020, 12, 976.	1.2	8
103	Tracking mesoscale convective systems in central equatorial Africa. <i>International Journal of Climatology</i> , 2021, 41, 469-482.	1.5	13
104	Monsoons Climate Change Assessment. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1-E19.	1.7	133
105	Speedup of the Madeira tip jets in the ERA5 climate highlights the decadal variability of the Atlantic subtropics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 679-690.	1.0	7
106	On the analysis of a summertime convective event in a hyperarid environment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 501-525.	1.0	21
107	Contrasting responses of woody and herbaceous vegetation to altered rainfall characteristics in the Sahel. <i>Biogeosciences</i> , 2021, 18, 77-93.	1.3	11
108	Conversations About Climate Risk, Adaptation and Resilience in Africa. , 2021, , 147-162.		1
109	The Impact of Tropical Tropopause Cooling on Sahelian Extreme Deep Convection. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 1127-1139.	0.7	1
110	Changing patterns in aerosol vertical distribution over South and East Asia. <i>Scientific Reports</i> , 2021, 11, 308.	1.6	26
111	Understanding mechanisms for trends in Sahelian squall lines: Roles of thermodynamics and shear. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 983-1006.	1.0	5

#	ARTICLE	IF	CITATIONS
112	Satellite-Based Precipitation Datasets Evaluation Using Gauge Observation and Hydrological Modeling in a Typical Arid Land Watershed of Central Asia. <i>Remote Sensing</i> , 2021, 13, 221.	1.8	21
113	Seasonality and Trends of Drivers of Mesoscale Convective Systems in Southern West Africa. <i>Journal of Climate</i> , 2021, 34, 71-87.	1.2	19
114	Dynamic and thermodynamic impacts of climate change on organized convection in Alaska. <i>Climate Dynamics</i> , 2021, 56, 2569-2593.	1.7	8
115	Is wetter better? Exploring agriculturally-relevant rainfall characteristics over four decades in the Sahel. <i>Environmental Research Letters</i> , 2021, 16, 035002.	2.2	12
116	Stochastorm: A Stochastic Rainfall Simulator for Convective Storms. <i>Journal of Hydrometeorology</i> , 2021, 22, 387-404.	0.7	8
117	Reductions in NO ₂ burden over north equatorial Africa from decline in biomass burning in spite of growing fossil fuel use, 2005 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
118	Wet and dry spells in Senegal: comparison of detection based on satellite products, reanalysis, and in situ estimates. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1051-1069.	1.5	10
119	Potential impacts of 1.5 Å°C, 2 Å°C global warming levels on temperature and rainfall over Madagascar. <i>Environmental Research Letters</i> , 2021, 16, 044019.	2.2	8
120	The fast response of Sahel precipitation to climate change allows effective mitigation action. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	11
121	Assessment of Future Flood Hazards for Southeastern Texas: Synthesizing Subsidence, Sea-Level Rise, and Storm Surge Scenarios. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092544.	1.5	14
122	Multi-Actors' Co-Implementation of Climate-Smart Village Approach in West Africa: Achievements and Lessons Learnt. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	5
123	Understanding climate services for enhancing resilient agricultural systems in Anglophone West Africa: The case of Ghana. <i>Climate Services</i> , 2021, 22, 100218.	1.0	14
124	Mitigating the impact of bad rainy seasons in poor agricultural regions to tackle deforestation. <i>Environmental Research Letters</i> , 2021, 16, 054003.	2.2	2
125	Embedding stakeholders'™ priorities into the low-emission development of the East African dairy sector. <i>Environmental Research Letters</i> , 2021, 16, 064032.	2.2	3
126	Groundwater recharge from heavy rainfall in the southwestern Lake Chad Basin: evidence from isotopic observations. <i>Hydrological Sciences Journal</i> , 2021, 66, 1359-1371.	1.2	17
127	Convection-Permitting Regional Climate Change Simulations for Understanding Future Climate and Informing Decision-Making in Africa. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1206-E1223.	1.7	26
128	Spatial correlations of daily precipitation over mainland China. <i>International Journal of Climatology</i> , 2021, 41, 6350-6365.	1.5	8
129	How can we stop the slow-burning systemic fuse of loss and damage due to land degradation and drought in Africa?. <i>Current Opinion in Environmental Sustainability</i> , 2021, 50, 289-302.	3.1	4

#	ARTICLE	IF	CITATIONS
130	Probability of dry and wet spells over West Africa during the summer monsoon season. <i>Scientific Research and Essays</i> , 2021, 16, 20-35.	0.1	1
131	Future Changes in Precipitation Extremes over East Africa Based on CMIP6 Models. <i>Water (Switzerland)</i> , 2021, 13, 2358.	1.2	37
133	Water security in <scp>subâ€Saharan</scp> Africa: Understanding the status of sustainable development goal 6. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1552.	2.8	18
134	Soil capacity of intercepting different rainfalls across subtropical plantation: Distinct effects of plant and soil properties. <i>Science of the Total Environment</i> , 2021, 784, 147120.	3.9	11
135	The African SWIFT Project: Growing Science Capability to Bring about a Revolution in Weather Prediction. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E349-E369.	1.7	16
136	Debilitating floods in the Sahel are becoming frequent. <i>Journal of Hydrology</i> , 2021, 599, 126362.	2.3	30
137	Seasonal forecasts of the Saharan heat low characteristics: a multi-model assessment. <i>Weather and Climate Dynamics</i> , 2021, 2, 893-912.	1.2	3
138	Identifying drivers of streamflow extremes in West Africa to inform a nonstationary prediction model. <i>Weather and Climate Extremes</i> , 2021, 33, 100346.	1.6	3
140	Implications of the Pacific meridional mode for summer precipitation extremes over China. <i>Weather and Climate Extremes</i> , 2021, 33, 100359.	1.6	10
141	The Impact of Rainfall Variability on Diets and Undernutrition of Young Children in Rural Burkina Faso. <i>Frontiers in Public Health</i> , 2021, 9, 693281.	1.3	11
142	â€Towards West African coastal social-ecosystems sustainability: Interdisciplinary approachesâ€. <i>Ocean and Coastal Management</i> , 2021, 211, 105746.	2.0	22
143	A shift in the diurnal timing and intensity of deep convection over the Congo Basin during the past 40Âyears. <i>Atmospheric Research</i> , 2021, 264, 105869.	1.8	4
145	Understanding Intermodel Variability in Future Projections of a Sahelian Storm Proxy and Southern Saharan Warming. <i>Journal of Climate</i> , 2021, 34, 509-525.	1.2	4
146	Scientists struggle to access Africa's historical climate data. <i>Nature</i> , 2019, 574, 605-606.	13.7	8
147	A tale of two futures: contrasting scenarios of future precipitation for West Africa from an ensemble of regional climate models. <i>Environmental Research Letters</i> , 2020, 15, 064007.	2.2	44
148	Observed changes in flood hazard in Africa. <i>Environmental Research Letters</i> , 2020, 15, 1040b5.	2.2	43
149	The Effect of Explicit Convection on Couplings between Rainfall, Humidity, and Ascent over Africa under Climate Change. <i>Journal of Climate</i> , 2020, 33, 8315-8337.	1.2	14
150	Effects of Explicit Convection on Future Projections of Mesoscale Circulations, Rainfall, and Rainfall Extremes over Eastern Africa. <i>Journal of Climate</i> , 2020, 33, 2701-2718.	1.2	36

#	ARTICLE	IF	CITATIONS
151	Mesoscale Convective System Precipitation Characteristics over East Asia. Part I: Regional Differences and Seasonal Variations. <i>Journal of Climate</i> , 2020, 33, 9271-9286.	1.2	26
152	Investigating the Drivers of Total Suspended Sediment Regime in the Senegal River Basin Using Landsat 8 Satellite Images. <i>Journal of Environmental Geography</i> , 2020, 13, 31-42.	1.2	4
153	West African Sahel has become wetter during the last 30 years, but dry spells are shorter and more frequent. <i>Climate Research</i> , 2018, 75, 155-162.	0.4	62
154	Less frequent and more intense rainfall along the coast of the Gulf of Guinea in West and Central Africa (1981-2014). <i>Climate Research</i> , 2018, 76, 191-201.	0.4	35
155	La reprise des pluies et la recrudescence des inondations en Afrique de l'Ouest sahélo-saharienne. <i>Physio-Géo</i> , 2020, , 89-109.	0.5	18
156	Intensification of the hydrological cycle expected in West Africa over the 21st century. <i>Earth System Dynamics</i> , 2020, 11, 319-328.	2.7	21
157	Suitability of 17 gridded rainfall and temperature datasets for large-scale hydrological modelling in West Africa. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5379-5406.	1.9	48
158	Farmers' Perception and Adaptation Strategies to Climate Change in Central Mali. <i>Weather, Climate, and Society</i> , 2022, 14, 95-112.	0.5	2
159	Persistent impact of spring floods on crop loss in U.S. Midwest. <i>Weather and Climate Extremes</i> , 2021, 34, 100392.	1.6	7
160	Adaptation to Climate Change: Opportunities and Challenges from Zambia. , 2020, , 1-20.		2
161	Fingerprints of external forcings on Sahel rainfall: aerosols, greenhouse gases, and model-observation discrepancies. <i>Environmental Research Letters</i> , 2020, 15, 084023.	2.2	20
163	Future intensification of precipitation and wind gust associated thunderstorms over Lake Victoria. <i>Weather and Climate Extremes</i> , 2021, 34, 100391.	1.6	8
164	Image Segmentation for Dust Detection Using Semi-supervised Machine Learning. , 2020, , .		2
165	Chapitre 1. Vérification de la qualité d'un service climatique pour l'agriculture. , 2020, , 19-30.		1
166	Satellite Precipitation Measurement and Extreme Rainfall. <i>Advances in Global Change Research</i> , 2020, , 761-790.	1.6	1
167	A 3-D Storm Motion Estimation Method Based on Point Cloud Learning and Doppler Weather Radar Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	0
168	Exploring the agricultural landscape diversity-food security nexus: an analysis in two contrasted parklands of Central Senegal. <i>Agricultural Systems</i> , 2022, 196, 103312.	3.2	17
169	<sc>Country-wide flood exposure analysis using Sentinel-1 synthetic aperture radar data: Case study of 2019 Iran flood. <i>Journal of Flood Risk Management</i> , 2022, 15, .	1.6	7

#	ARTICLE	IF	CITATIONS
170	A global analysis of the break-even prices to reduce atmospheric carbon dioxide via forest plantation and avoided deforestation. <i>Forest Policy and Economics</i> , 2022, 135, 102666.	1.5	7
171	Spatial variation of catchment-oriented extreme rainfall in England and Wales. <i>Atmospheric Research</i> , 2022, 266, 105968.	1.8	4
172	Understanding the Politics of Climate Security Policy Discourse: The Case of the Lake Chad Basin. <i>Geopolitics</i> , 2023, 28, 1285-1322.	2.1	16
173	“Late-stage” deforestation enhances storm trends in coastal West Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	10
174	Increased interannual precipitation variability enhances the carbon sink in a semi-arid grassland. <i>Functional Ecology</i> , 2022, 36, 987-997.	1.7	10
175	A synthetic view of rainfall intensification in the West African Sahel. <i>Environmental Research Letters</i> , 2022, 17, 044005.	2.2	6
176	Extreme Precipitating Events in Satellite and Rain Gauge Products over the Sahel. <i>Journal of Climate</i> , 2022, 35, 1915-1938.	1.2	3
177	Assessment of Intra-Seasonal Variability and Trends of Precipitations in a Climate Change Framework in West Africa. <i>Atmospheric and Climate Sciences</i> , 2022, 12, 150-171.	0.1	2
178	The Effects of Plant and Soil Characteristics on Partitioning Different Rainfalls to Soil in a Subtropical Chinese Fir Forest Ecosystem. <i>Forests</i> , 2022, 13, 123.	0.9	8
179	Rain, Wind, and Dust Connections in the Sahel. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	8
180	Distribution of extreme rainfall events and their environmental controls in the West African Sahel and Soudan. <i>Climate Dynamics</i> , 2022, 59, 997-1026.	1.7	6
181	Nowcasting tracks of severe convective storms in West Africa from observations of land surface state. <i>Environmental Research Letters</i> , 2022, 17, 034016.	2.2	3
182	Convection-based assessment of pre-monsoon season instability indices over Chandigarh and Ladakh regions, India. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	1
183	Potential impacts of climate, land use and land cover changes on hydropower generation in West Africa: a review. <i>Environmental Research Letters</i> , 2022, 17, 043005.	2.2	14
184	The Effect of Explicit Convection on Climate Change in the West African Monsoon and Central West African Sahel Rainfall. <i>Journal of Climate</i> , 2022, 35, 1537-1557.	1.2	3
185	Spatial and temporal analysis of observed trends in extreme precipitation events in different climatic zones of Nigeria. <i>Theoretical and Applied Climatology</i> , 0, , 1.	1.3	3
186	Atmospheric circulation patterns that trigger heavy rainfall in West Africa. <i>International Journal of Climatology</i> , 0, , .	1.5	2
187	Mesoscale Convective Systems Simulated by a High-Resolution Global Nonhydrostatic Model Over the United States and China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6

#	ARTICLE	IF	CITATIONS
188	Maize response to temporary floods under ambient on-farm conditions of the West African Sahel. Environmental Research Communications, 2022, 4, 045004.	0.9	0
189	How is science making its way into national climate change adaptation policy? Insights from Burkina Faso. Climate and Development, 2022, 14, 857-865.	2.2	4
190	How might climate change affect river flows across West Africa?. Climatic Change, 2021, 169, 1.	1.7	13
196	Variability of the Minor Season Rainfall over Southern Ghana (1981â€“2018). Advances in Meteorology, 2022, 2022, 1-14.	0.6	4
197	Effects of vertical wind shear on intensities of mesoscale convective systems over West and Central Africa. Atmospheric Science Letters, 2022, 23, .	0.8	6
198	Uncertainty in the projected changes of Sahel summer rainfall under global warming in CMIP5 and CMIP6 multi-model ensembles. Climate Dynamics, 2022, 59, 3579-3597.	1.7	2
199	High-impact weather and urban flooding in the West African Sahel â€“ A multidisciplinary case study of the 2009 event in Ouagadougou. Weather and Climate Extremes, 2022, 36, 100462.	1.6	3
200	Projected increases in potential groundwater recharge and reduced evapotranspiration under future climate conditions in West Africa. Journal of Hydrology: Regional Studies, 2022, 41, 101076.	1.0	3
201	The Influence of the Diurnal Cycle in Wind Shear and Thermodynamics on Squall Lines in the West African Monsoon. Journals of the Atmospheric Sciences, 2022, 79, 2125-2143.	0.6	2
202	A pragmatic approach to assess the climate resilience of hydro projects. E3S Web of Conferences, 2022, 346, 04004.	0.2	0
203	Spatio-temporal dynamics of suspended particulate matter in the middle Niger River using in-situ and satellite radiometric measurements. Journal of Hydrology: Regional Studies, 2022, 41, 101106.	1.0	1
204	Global exacerbation of episodic local vegetation greenness decline since the 21st century. Science of the Total Environment, 2022, 840, 156411.	3.9	2
205	Construction de la topologie de drainage Ã fine rÃ©solution spatiale en milieu urbain : exemple de lâ€™agglomÃ©ration de Dakar (SÃ©nÃ©gal). LHB Hydrosience Journal, 2022, 108, .	0.2	0
207	Timing is critical: consequences of asynchronous migration for the performance and destination of a long-distance migrant. Movement Ecology, 2022, 10, .	1.3	8
208	Ã©rosion hydrique au sud-ouest du NigerÂ: impacts des facteurs naturels et anthropiques sur les pertes en sols. Geomorphologie Relief, Processus, Environnement, 2022, 28, 77-92.	0.7	4
210	A modelling-chain linking climate science and decision-makers for future urban flood management in West Africa. Regional Environmental Change, 2022, 22, .	1.4	2
211	Changes in extreme daily precipitation over Africa: Insights from a non-asymptotic statistical approach. Journal of Hydrology X, 2022, 16, 100130.	0.8	7
212	Decadal Variability of Rainfall in Senegal: Beyond the Total Seasonal Amount. Journal of Climate, 2022, 35, 5339-5358.	1.2	2

#	ARTICLE	IF	CITATIONS
213	Climatologies of Mesoscale Convective Systems over China Observed by Spaceborne Radars. <i>Monthly Weather Review</i> , 2022, 150, 2697-2717.	0.5	2
214	Effects of restoration of degraded lands on soils physicochemical properties and adaptability of planted woody species in southwestern Niger. <i>Land Degradation and Development</i> , 2022, 33, 3938-3953.	1.8	1
215	Malaria Transmission in Sahelian African Regions, a Witness of Climate Changes. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 10105.	1.2	0
216	Land use/cover spatiotemporal dynamics, and implications on environmental and bioclimatic factors in Chingola district, Zambia. <i>Geomatics, Natural Hazards and Risk</i> , 2022, 13, 1898-1942.	2.0	4
217	Climate Variability in the Sudanian Zone of CÔte d'Ivoire: Weather Observations, Perceptions, and Adaptation Strategies of Farmers. <i>Sustainability</i> , 2022, 14, 10410.	1.6	3
218	Predictability of Intra-Seasonal Descriptors of Rainy Season over Senegal Using Global SST Patterns. <i>Atmosphere</i> , 2022, 13, 1437.	1.0	2
219	Characterizing ecosystem change in wetlands using dense earth observation time series. <i>Remote Sensing of Environment</i> , 2022, 281, 113267.	4.6	11
220	Drought. , 2022, , 69-102.		0
221	Seasonal Water Uptake Patterns of Different Plant Functional Types in the Monsoon Evergreen Broad-Leaved Forest of Southern China. <i>Forests</i> , 2022, 13, 1527.	0.9	0
222	Persistence and success of the Sahel desertification narrative. <i>Regional Environmental Change</i> , 2022, 22, .	1.4	0
223	Contrasting water-use patterns of Chinese fir among different plantation types in a subtropical region of China. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	1
224	Spatiotemporal Variability, Trends, and Potential Impacts of Extreme Rainfall Events in the Sudano-Sahelian Region of Cameroon. <i>Atmosphere</i> , 2022, 13, 1599.	1.0	4
225	Sensitivity of simulated mesoscale convective systems over East Asia to the treatment of convection in a high-resolution GCM. <i>Climate Dynamics</i> , 2023, 60, 2783-2801.	1.7	1
226	Low-cost adaptation options to support green growth in agriculture, water resources, and coastal zones. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
227	Changes in compound extremes of rainfall and temperature over West Africa using CMIP5 simulations. <i>Environmental Research Communications</i> , 2022, 4, 105003.	0.9	2
228	Full-Tracking Algorithm for Convective Thunderstorm System From Initiation to Complete Dissipation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	3
229	Assimilation of global positioning system radio occultation refractivity for the enhanced prediction of extreme rainfall events in southern India. <i>Meteorological Applications</i> , 2022, 29, .	0.9	2
230	Participatory risk assessment of pluvial floods in four towns of Niger. <i>International Journal of Disaster Risk Reduction</i> , 2023, 84, 103454.	1.8	1

#	ARTICLE	IF	CITATIONS
231	Traditional agroecological knowledge and practices: The drivers and opportunities for adaptation actions in the northern region of Ghana. <i>Regional Sustainability</i> , 2022, 3, 294-308.	1.1	2
232	Capturing and Attributing the Rainfall Regime Intensification in the West African Sahel with CMIP6 Models. <i>Journal of Climate</i> , 2023, 36, 1823-1843.	1.2	1
233	Future climate or land use? Attribution of changes in surface runoff in a typical Sahelian landscape. <i>Comptes Rendus - Geoscience</i> , 2023, 355, 411-438.	0.4	9
234	Environment of severe storm formations over West Africa on the 26â€28 June 2018. <i>Meteorological Applications</i> , 2023, 30, .	0.9	0
235	Hydrometeorological Extreme Events in Africa: The Role of Satellite Observations for Monitoring Pluvial and Fluvial Flood Risk. <i>Surveys in Geophysics</i> , 2023, 44, 197-223.	2.1	9
236	Mesoscale convective systems over the Amazon basin in a changing climate under global warming. <i>Climate Dynamics</i> , 2023, 61, 1815-1827.	1.7	1
237	Drivers of past and future changes in weather, climate and ocean extremes. , 2023, , 195-268.		0
238	Atmospheric extremes. , 2023, , 327-365.		0
239	Have atmospheric extremes changed in the past?. , 2023, , 81-126.		0
240	Uncertainty in Simulating Twentieth Century West African Precipitation Trends: The Role of Anthropogenic Aerosol Emissions. <i>Earth's Future</i> , 2023, 11, .	2.4	3
241	Long-term variations of cloud top patterns associated with heavy rainfall over the Korean peninsula. <i>Journal of Hydrology: Regional Studies</i> , 2023, 46, 101337.	1.0	1
243	Tropical mesoscale convective system formation environments. <i>Atmospheric Science Letters</i> , 0, , .	0.8	1
244	Mechanisms and Impacts of Earth System Tipping Elements. <i>Reviews of Geophysics</i> , 2023, 61, .	9.0	10
245	Extreme rainfall events in the West African Sahel: Understanding storm development over the Damergou gap using convectionâ€permitting simulations in the Weather Research and Forecasting model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 0, , .	1.0	1
246	Daytime-only mean data enhance understanding of landâ€atmosphere coupling. <i>Hydrology and Earth System Sciences</i> , 2023, 27, 861-872.	1.9	3
248	Synoptic and Mesoscale Analysis of a Severe Weather Event in Southern Brazil at the End of June 2020. <i>Atmosphere</i> , 2023, 14, 486.	1.0	1
249	Mainstreaming Indigenous Knowledge Systems and Practices in Climate-Sensitive Policies for Resilient Agricultural Systems in Ghana. <i>Society and Natural Resources</i> , 2023, 36, 639-659.	0.9	4
250	Evaluation of an early flood warning system in Bamako (Mali): Lessons learned from the flood of May 2019. <i>Journal of Flood Risk Management</i> , 2023, 16, .	1.6	2

#	ARTICLE	IF	CITATIONS
251	Regionally high risk increase for precipitation extreme events under global warming. Scientific Reports, 2023, 13, .	1.6	5
252	Great Green Walls: Hype, Myth, and Science. Annual Review of Environment and Resources, 2023, 48, 263-287.	5.6	7
253	Evolution, destination and characteristics of three westward propagating storms with associated impacts over Nigeria during August 2017 Atlantic hurricane season. Natural Hazards, 0, , .	1.6	0
254	Paleochannel groundwater discharge to the River Niger in the Iullemmeden Basin estimated by near-surface geophysics and piezometry. Environmental Earth Sciences, 2023, 82, .	1.3	2
255	Assessment of Rainfall (R), Evapotranspiration (ET), and Crop Coefficient (Kc) Using Satellite Data. Springer Hydrogeology, 2023, , 365-380.	0.1	0
269	Evolution of Agroclimatic Indicators in Senegal Using CMIP6 Simulations. , 0, , .		0
284	Dust from the Central Sahara: Environmental and Cultural Impacts. World Geomorphological Landscapes, 2023, , 131-141.	0.1	0