

The Modern-Era Retrospective Analysis for Research and

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Estimating the global abundance of ground level presence of particulate matter (PM2.5). <i>Geospatial Health</i> , 2014, 8, 611.	0.3	73
4	The Global S ₁ Tide in Earth's Nutation. <i>Surveys in Geophysics</i> , 2016, 37, 643-680.	2.1	13
5	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part I: System Description and Data Assimilation Evaluation. <i>Journal of Climate</i> , 2017, 30, 6823-6850.	1.2	739
6	The 2015/16 El Niño Event in Context of the MERRA-2 Reanalysis: A Comparison of the Tropical Pacific with 1982/83 and 1997/98. <i>Journal of Climate</i> , 2017, 30, 4819-4842.	1.2	47
7	The Influence of Recurrent Modes of Climate Variability on the Occurrence of Monthly Temperature Extremes Over South America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,297.	1.2	12
8	The Response of Local Precipitation and Sea Level Pressure to Hadley Cell Expansion. <i>Geophysical Research Letters</i> , 2017, 44, 10,573.	1.5	32
9	Critical Role of Snow on Sea Ice Growth in the Atlantic Sector of the Arctic Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 10,479.	1.5	56
10	Meteorological Forcing Datasets for Blowing Snow Modeling on the Tibetan Plateau: Evaluation and Intercomparison. <i>Journal of Hydrometeorology</i> , 2017, 18, 2761-2780.	0.7	27
11	Causal Pathways for Temperature Predictability from Snow Depth. <i>Journal of Climate</i> , 2017, 30, 9651-9663.	1.2	10
12	High-altitude wind resources in the Middle East. <i>Scientific Reports</i> , 2017, 7, 9885.	1.6	6
13	Long-Lead Prediction of the 2015 Fire and Haze Episode in Indonesia. <i>Geophysical Research Letters</i> , 2017, 44, 9996.	1.5	16
14	Observed Covariations of Aerosol Optical Depth and Cloud Cover in Extratropical Cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,338.	1.2	8
15	Snow accumulation variability on a West Antarctic ice stream observed with GPS reflectometry, 2007-2017. <i>Geophysical Research Letters</i> , 2017, 44, 7808-7816.	1.5	23
16	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. <i>Journal of Hydrometeorology</i> , 2017, 18, 2621-2645.	0.7	196
17	Evaluating Outer Tropical Cyclone Size in Reanalysis Datasets Using QuikSCAT Data. <i>Journal of Climate</i> , 2017, 30, 8745-8762.	1.2	32
18	An Adjoint-Based Forecast Impact from Assimilating MISR Winds into the GEOS-5 Data Assimilation and Forecasting System. <i>Monthly Weather Review</i> , 2017, 145, 4937-4947.	0.5	5
19	Stratospheric Intrusion-Influenced Ozone Air Quality Exceedances Investigated in the NASA MERRA-2 Reanalysis. <i>Geophysical Research Letters</i> , 2017, 44, 10691-10701.	1.5	54
20	What Controls Springtime Fine Dust Variability in the Western United States? Investigating the 2002-2015 Increase in Fine Dust in the U.S. Southwest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,449.	1.2	34

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22	Impact of Assimilated Precipitation-Sensitive Radiances on the NU-WRF Simulation of the West African Monsoon. <i>Monthly Weather Review</i> , 2017, 145, 3881-3900.	0.5	16
23	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part II: Evaluation and Case Studies. <i>Journal of Climate</i> , 2017, 30, 6851-6872.	1.2	469
24	A Case Study in Low Aerosol Number Concentrations Over the Eastern North Atlantic: Implications for Pristine Conditions in the Remote Marine Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,393.	1.2	10
25	Genesis, Pathways, and Terminations of Intense Global Water Vapor Transport in Association with Large-scale Climate Patterns. <i>Geophysical Research Letters</i> , 2017, 44, 12,465.	1.5	37
26	Developing and diagnosing climate change indicators of regional aerosol optical properties. <i>Scientific Reports</i> , 2017, 7, 18093.	1.6	14
27	Multiyear Composite View of Ozone Enhancements and Stratosphere-to-Troposphere Transport in Dry Intrusions of Northern Hemisphere Extratropical Cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13436-13457.	1.2	22
28	Multi-decadal records of stratospheric composition and their relationship to stratospheric circulation change. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12081-12096.	1.9	9
29	The influence of mid-latitude cyclones on European background surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12421-12447.	1.9	19
30	Reanalysis comparisons of upper tropospheric and lower stratospheric jets and multiple tropopauses. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11541-11566.	1.9	28
31	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12743-12778.	1.9	74
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33	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 3019-3044.	1.3	47
35	Predicting Top-of-Atmosphere Thermal Radiance Using MERRA-2 Atmospheric Data with Deep Learning. <i>Remote Sensing</i> , 2017, 9, 1133.	1.8	18
36	Practice and philosophy of climate model tuning across six US modeling centers. <i>Geoscientific Model Development</i> , 2017, 10, 3207-3223.	1.3	100
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39	Blowing snow sublimation and transport over Antarctica from 11 years of CALIPSO observations. <i>Cryosphere</i> , 2017, 11, 2555-2569.	1.5	46
41	Comparison of land surface humidity between observations and CMIP5 models. <i>Earth System Dynamics</i> , 2017, 8, 719-747.	2.7	33

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42	Using Sentinel-1 SAR satellites to map wind speed variation across offshore wind farm clusters. <i>Journal of Physics: Conference Series</i> , 2017, 926, 012004.	0.3	3
43	Spatial and temporal variations of satellite-based aerosol optical depth over Iran in Southwest Asia: Identification of a regional aerosol hot spot. <i>Atmospheric Pollution Research</i> , 2018, 9, 849-856.	1.8	29
44	The Arctic System Reanalysis, Version 2. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 805-828.	1.7	88
45	On the frequency of lake-effect snowfall in the Catskill Mountains. <i>Physical Geography</i> , 2018, 39, 389-405.	0.6	3
46	Surface Winds and Dust Biases in Climate Models. <i>Geophysical Research Letters</i> , 2018, 45, 1079-1085.	1.5	23
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51	Representation of solar tides in the stratosphere and lower mesosphere in state-of-the-art reanalyses and in satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1437-1456.	1.9	20
52	Methane Feedback on Atmospheric Chemistry: Methods, Models, and Mechanisms. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1087-1099.	1.3	38
53	Drivers of interannual variability of the <sc>E</sc>ast <sc>A</sc>frican â€œ<sc>L</sc>ong <sc>R</sc>ainsâ€ˆ. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 861-876.	1.0	35
54	Observational Constraint for Precipitation in Extratropical Cyclones: Sensitivity to Data Sources. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 991-1009.	0.6	14
55	Growing Landâ€ˆSea Temperature Contrast and the Intensification of Arctic Cyclones. <i>Geophysical Research Letters</i> , 2018, 45, 3673-3681.	1.5	40
56	Surface Moistening Trends in the Northern North American Great Plains Increase the Likelihood of Convective Initiation. <i>Journal of Hydrometeorology</i> , 2018, 19, 227-244.	0.7	23
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61	Sahel rainfall strength and onset improvements due to more realistic Atlantic cold tongue development in a climate model. <i>Scientific Reports</i> , 2018, 8, 2569.	1.6	22
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63	Greenland Ice Sheet Surface Melt and Its Relation to Daily Atmospheric Conditions. <i>Journal of Climate</i> , 2018, 31, 1897-1919.	1.2	16
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69	Verification of Land-Atmosphere Coupling in Forecast Models, Reanalyses, and Land Surface Models Using Flux Site Observations. <i>Journal of Hydrometeorology</i> , 2018, 19, 375-392.	0.7	66
70	Temperature and Snowfall in Western Queen Maud Land Increasing Faster Than Climate Model Projections. <i>Geophysical Research Letters</i> , 2018, 45, 1472-1480.	1.5	44
71	Decline in Antarctic Ozone Depletion and Lower Stratospheric Chlorine Determined From Aura Microwave Limb Sounder Observations. <i>Geophysical Research Letters</i> , 2018, 45, 382-390.	1.5	79
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73	Reconstruction of Snow on Arctic Sea Ice. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3588-3602.	1.0	33
74	Tropical Cyclone Activity in the High-Resolution Community Earth System Model and the Impact of Ocean Coupling. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 165-186.	1.3	50
75	How well were the early 2017 California Atmospheric River precipitation events captured by satellite products and ground-based radars?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 344-359.	1.0	24
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80	Land Surface Cooling Induced by Sulfate Geoengineering Constrained by Major Volcanic Eruptions. <i>Geophysical Research Letters</i> , 2018, 45, 5663-5671.	1.5	16
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82	Evaluation of Relationships between Subtropical Marine Low Stratiform Cloudiness and Estimated Inversion Strength in CMIP5 Models Using the Satellite Simulator Package COSP. <i>Scientific Online Letters on the Atmosphere</i> , 2018, 14, 25-32.	0.6	6
83	Wind Data Sources. <i>Green Energy and Technology</i> , 2018, , 183-230.	0.4	1
84	Concurrent Changes to Hadley Circulation and the Meridional Distribution of Tropical Cyclones. <i>Journal of Climate</i> , 2018, 31, 4367-4389.	1.2	47
85	ERA5: The new champion of wind power modelling?. <i>Renewable Energy</i> , 2018, 126, 322-331.	4.3	305
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112	MISR-GOES 3D Winds: Implications for Future LEO-GEO and LEO-LEO Winds. <i>Remote Sensing</i> , 2018, 10, 1885.	1.8	11
113	Three years of measurements of light-absorbing aerosols over coastal Namibia: seasonality, origin, and transport. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17003-17016.	1.9	13

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127	Comparison of gravity wave propagation directions observed by mesospheric airglow imaging at three different latitudes using the M-transform. <i>Annales Geophysicae</i> , 2018, 36, 1597-1605.	0.6	8
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160	Space-Based Constraints on Terrestrial Glyoxal Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,583.	1.2	8

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1908	Recent evidence for warmer and drier growing seasons in climate sensitive regions of Central America from multiple global datasets. <i>International Journal of Climatology</i> , 2022, 42, 1399-1417.	1.5	11
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1918	Tracking NO2 emission from thermal power plants in North India using TROPOMI data. Atmospheric Environment, 2021, 259, 118514.	1.9	23
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1921	The long-term transport and radiative impacts of the 2017 British Columbia pyrocumulonimbus smoke aerosols in the stratosphere. Atmospheric Chemistry and Physics, 2021, 21, 12069-12090.	1.9	31
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1932	Moisture budget analysis of extreme precipitation associated with different types of atmospheric rivers over western North America. <i>Climate Dynamics</i> , 2022, 58, 793-809.	1.7	10
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1939	On the role of aerosol radiative effect in the wet season onset timing over the Congo rainforest during boreal autumn. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12855-12866.	1.9	3
1940	Measuring Atmospheric CO ₂ Enhancements From the 2017 British Columbia Wildfires Using a Lidar. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093805.	1.5	6
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1959	The Three-Cornered Hat Method for Estimating Error Variances of Three or More Atmospheric Data Sets – Part II: Evaluating Radio Occultation and Radiosonde Observations, Global Model Forecasts, and Reanalyses. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, , .	0.5	4
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1962	Adaptable Deployable Entry and Placement Technology Sounding Rocket One Modeling and Reconstruction. <i>Journal of Spacecraft and Rockets</i> , 2022, 59, 236-259.	1.3	12
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1968	The Grell-Freitas (GF) convection parameterization: recent developments, extensions, and applications. <i>Geoscientific Model Development</i> , 2021, 14, 5393-5411.	1.3	10
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1972	Evaluation of fractional clear sky over potential astronomical sites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3745-3760.	1.6	9
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1975	Stratospheric fluorine as a tracer of circulation changes: comparison between infrared remote sensing observations and simulations with five modern reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034995.	1.2	8
1976	Improved daily SMAP satellite soil moisture prediction over China using deep learning model with transfer learning. <i>Journal of Hydrology</i> , 2021, 600, 126698.	2.3	75
1977	Evaluating Observational Constraints on Intermodel Spread in Cloud, Temperature, and Humidity Feedbacks. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092309.	1.5	3
1978	Large-scale Atmospheric Drivers of Snowfall Over Thwaites Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093644.	1.5	14
1979	Assessing the Reliability of Satellite and Reanalysis Estimates of Rainfall in Equatorial Africa. <i>Remote Sensing</i> , 2021, 13, 3609.	1.8	13
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1997	Modeling Asian Dust Storms Using WRF-Chem During the DRAGON-Asia Field Campaign in April 2012. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034793.	1.2	13
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