Michael D Dettinger

List of Publications by Year in descending order

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MICHAEL D DETTINCER

#	Article	IF	CITATIONS
1	Advanced spectral methods for climatic time series. Reviews of Geophysics, 2002, 40, 3-1.	23.0	1,695
2	Changes toward Earlier Streamflow Timing across Western North America. Journal of Climate, 2005, 18, 1136-1155.	3.2	1,057
3	Atmospheric Rivers, Floods and the Water Resources of California. Water (Switzerland), 2011, 3, 445-478.	2.7	683
4	Meteorological Characteristics and Overland Precipitation Impacts of Atmospheric Rivers Affecting the West Coast of North America Based on Eight Years of SSM/I Satellite Observations. Journal of Hydrometeorology, 2008, 9, 22-47.	1.9	555
5	Flooding on California's Russian River: Role of atmospheric rivers. Geophysical Research Letters, 2006, 33, .	4.0	547
6	Climate change scenarios for the California region. Climatic Change, 2008, 87, 21-42.	3.6	483
7	Climate and Wildfire in the Western United States. Bulletin of the American Meteorological Society, 2003, 84, 595-604.	3.3	410
8	North–South Precipitation Patterns in Western North America on Interannual-to-Decadal Timescales. Journal of Climate, 1998, 11, 3095-3111.	3.2	371
9	Decadal variations in the strength of ENSO teleconnections with precipitation in the western United States. International Journal of Climatology, 1999, 19, 1399-1410.	3.5	369
10	Simulated Hydrologic Responses to Climate Variations and Change in the Merced, Carson, and American River Basins, Sierra Nevada, California, 1900–2099. Climatic Change, 2004, 62, 283-317.	3.6	308
11	Atmospheric Rivers as Drought Busters on the U.S. West Coast. Journal of Hydrometeorology, 2013, 14, 1721-1732.	1.9	277
12	The key role of dry days in changing regional climate and precipitation regimes. Scientific Reports, 2014, 4, 4364.	3.3	255
13	Precipitation in a warming world: Assessing projected hydro-climate changes in California and other Mediterranean climate regions. Scientific Reports, 2017, 7, 10783.	3.3	238
14	Observed Impacts of Duration and Seasonality of Atmospheric-River Landfalls on Soil Moisture and Runoff in Coastal Northern California. Journal of Hydrometeorology, 2013, 14, 443-459.	1.9	218
15	Strong influence of El Niño Southern Oscillation on flood risk around the world. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15659-15664.	7.1	210
16	Diagnosis of an Intense Atmospheric River Impacting the Pacific Northwest: Storm Summary and Offshore Vertical Structure Observed with COSMIC Satellite Retrievals. Monthly Weather Review, 2008, 136, 4398-4420.	1.4	191
17	Historical and National Perspectives on Extreme West Coast Precipitation Associated with Atmospheric Rivers during December 2010. Bulletin of the American Meteorological Society, 2012, 93, 783-790.	3.3	175
18	Precipitation regime change in Western North America: The role of Atmospheric Rivers. Scientific Reports, 2019, 9, 9944.	3.3	153

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19	Assessing reservoir operations risk under climate change. Water Resources Research, 2009, 45, .	4.2	149
20	Climate change intensification of horizontal water vapor transport in CMIP5. Geophysical Research Letters, 2015, 42, 5617-5625.	4.0	127
21	The Landfall and Inland Penetration of a Flood-Producing Atmospheric River in Arizona. Part I: Observed Synoptic-Scale, Orographic, and Hydrometeorological Characteristics. Journal of Hydrometeorology, 2013, 14, 460-484.	1.9	119
22	Hourly storm characteristics along the U.S. West Coast: Role of atmospheric rivers in extreme precipitation. Geophysical Research Letters, 2017, 44, 7020-7028.	4.0	108
23	Potential increase in floods in California's Sierra Nevada under future climate projections. Climatic Change, 2011, 109, 71-94.	3.6	98
24	Increases in flood magnitudes in California under warming climates. Journal of Hydrology, 2013, 501, 101-110.	5.4	98
25	A method for physically based model analysis of conjunctive use in response to potential climate changes. Water Resources Research, 2012, 48, .	4.2	78
26	Flood Runoff in Relation to Water Vapor Transport by Atmospheric Rivers Over the Western United States, 1949–2015. Geophysical Research Letters, 2017, 44, 11,456.	4.0	78
27	Predictability of horizontal water vapor transport relative to precipitation: Enhancing situational awareness for forecasting western U.S. extreme precipitation and flooding. Geophysical Research Letters, 2016, 43, 2275-2282.	4.0	75
28	Extreme changes in stable hydrogen isotopes and precipitation characteristics in a landfalling Pacific storm. Geophysical Research Letters, 2008, 35, .	4.0	71
29	California's Drought of the Future: A Midcentury Recreation of the Exceptional Conditions of 2012–2017. Earth's Future, 2018, 6, 1568-1587.	6.3	64
30	A Twenty-First-Century California Observing Network for Monitoring Extreme Weather Events. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1585-1603.	1.3	61
31	Snow-fed streamflow timing at different basin scales: Case study of the Tuolumne River above Hetch Hetchy, Yosemite, California. Water Resources Research, 2005, 41, .	4.2	56
32	How snowpack heterogeneity affects diurnal streamflow timing. Water Resources Research, 2005, 41, .	4.2	51
33	Design and quantification of an extreme winter storm scenario for emergency preparedness and planning exercises in California. Natural Hazards, 2012, 60, 1085-1111.	3.4	43
34	The Ancient Blue Oak Woodlands of California: Longevity and Hydroclimatic History. Earth Interactions, 2013, 17, 1-23.	1.5	42
35	Sensitivity of Intermittent Streams to Climate Variations in the USA. River Research and Applications, 2016, 32, 885-895.	1.7	38
36	The Coming Megafloods. Scientific American, 2012, 308, 64-71.	1.0	33

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37	Climate and floods still govern California levee breaks. Geophysical Research Letters, 2007, 34, .	4.0	28
38	A 142-Year Climatology of Northern California Landslides and Atmospheric Rivers. Bulletin of the American Meteorological Society, 2019, 100, 1499-1509.	3.3	26
39	Projections and downscaling of 21st century temperatures, precipitation, radiative fluxes and winds for the Southwestern US, with focus on Lake Tahoe. Climatic Change, 2013, 116, 17-33.	3.6	25
40	Empirical Return Periods of the Most Intense Vapor Transports during Historical Atmospheric River Landfalls on the U.S. West Coast. Journal of Hydrometeorology, 2018, 19, 1363-1377.	1.9	25
41	Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network. Earth and Space Science, 2020, 7, e2020EA001129.	2.6	23
42	Yosemite <scp>H</scp> ydroclimate <scp>N</scp> etwork: Distributed stream and atmospheric data for the <scp>T</scp> uolumne <scp>R</scp> iver watershed and surroundings. Water Resources Research, 2016, 52, 7478-7489.	4.2	22
43	Storage in California's Reservois and Snowpack in this Time of Drought. San Francisco Estuary and Watershed Science, 2015, 13, .	0.4	21
44	Interseasonal covariability of Sierra Nevada streamflow and San Francisco Bay salinity. Journal of Hydrology, 2003, 277, 164-181.	5.4	19
45	Influence of atmospheric rivers on vegetation productivity and fire patterns in the southwestern U.S Journal of Geophysical Research G: Biogeosciences, 2017, 122, 308-323.	3.0	17
46	Patterns and Drivers of Atmospheric River Precipitation and Hydrologic Impacts across the Western United States. Journal of Hydrometeorology, 2020, 21, 143-159.	1.9	16
47	Promoting Atmospheric-River and Snowmelt-Fueled Biogeomorphic Processes by Restoring River-Floodplain Connectivity in California's Central Valley. , 2015, , 119-141.		13
48	A Multidataset Assessment of Climatic Drivers and Uncertainties of Recent Trends in Evaporative Demand across the Continental United States. Journal of Hydrometeorology, 2022, 23, 505-519.	1.9	12
49	Techniques for constructing climate scenarios for stress test applications. Climatic Change, 2021, 164, 1.	3.6	10
50	Application of an extreme winter storm scenario to identify vulnerabilities, mitigation options, and science needs in the Sierra Nevada mountains, USA. Natural Hazards, 2016, 80, 879-900.	3.4	9
51	Recent Changes in United States Extreme 3-Day Precipitation Using the R-CAT Scale. Journal of Hydrometeorology, 2020, 21, 1207-1221.	1.9	9
52	The Future of Atmospheric River Research and Applications. , 2020, , 219-247.		3
53	Effects of Atmospheric Rivers. , 2020, , 141-177.		2
54	Introduction to Atmospheric Rivers. , 2020, , 1-13.		1

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#	Article	IF	CITATIONS
55	Applications of Knowledge and Predictions of Atmospheric Rivers. , 2020, , 201-218.		1