

# Fred Ralph

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145  
papers

8,745  
citations

51  
h-index

92  
g-index

160  
ext. papers

10,006  
ext. citations

4.3  
avg, IF

6.44  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 145 | A Climatology of Narrow Cold-Frontal Rainbands in Southern California. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,   | 4.9 | 1         |
| 144 | Large-Scale Environments of Successive Atmospheric River Events Leading to Compound Precipitation Extremes in California. <i>Journal of Climate</i> , <b>2022</b> , 35, 1515-1536                                      | 4.4 | 0         |
| 143 | Increases in Future AR Count and Size: Overview of the ARTMIP Tier 2 CMIP5/6 Experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,  | 4.4 | 8         |
| 142 | Atmospheric River Reconnaissance Workshop Promotes Research and Operations Partnership. <i>Bulletin of the American Meteorological Society</i> , <b>2022</b> , 103, E810-E816  | 6.1 |           |
| 141 | Increasing Stormwater Capture and Recharge Using Forecast Informed Reservoir Operations, Prado Dam.. <i>Ground Water</i> , <b>2021</b> ,   | 2.4 |           |
| 140 | Influence of Dust on Precipitation During Landfalling Atmospheric Rivers in an Idealized Framework. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034813                           | 4.4 | 0         |
| 139 | Advances in the application and utility of subseasonal-to-seasonal predictions. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-57  | 6.1 | 9         |
| 138 | Evaluating the Meteorological Conditions Associated With Dusty Atmospheric Rivers. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035403  | 4.4 | 2         |
| 137 | Multi-GNSS Airborne Radio Occultation Observations as a Complement to Dropsondes in Atmospheric River Reconnaissance. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034865         | 4.4 | 2         |
| 136 | Improved Forecast Skill Through the Assimilation of Dropsonde Observations From the Atmospheric River Reconnaissance Program. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034967 | 4.4 | 1         |
| 135 | Atmospheric River Sectors: Definition and Characteristics Observed Using Dropsondes from 2014-20 CalWater and AR Recon. <i>Monthly Weather Review</i> , <b>2021</b> , 149, 623-644                                     | 2.4 | 2         |
| 134 | Data Gaps within Atmospheric Rivers over the Northeastern Pacific. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, E492-E524   | 6.1 | 7         |
| 133 | European West Coast atmospheric rivers: A scale to characterize strength and impacts. <i>Weather and Climate Extremes</i> , <b>2021</b> , 31, 100305   | 6   | 5         |
| 132 | The Role of Air-Sea Interactions in Atmospheric Rivers: Case Studies Using the SKRIPS Regional Coupled Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD032885                 | 4.4 | 2         |
| 131 | A Summary of GFS Ensemble Integrated Water Vapor Transport Forecasts and Skill along the U.S. West Coast during Water Years 2017-20. <i>Weather and Forecasting</i> , <b>2021</b> , 36, 361-377                        | 2.1 | 3         |
| 130 | The Influence of Antecedent Atmospheric River Conditions on Extratropical Cyclogenesis. <i>Monthly Weather Review</i> , <b>2021</b> , 149, 1337-1357   | 2.4 | 5         |
| 129 | A soil moisture monitoring network to assess controls on runoff generation during atmospheric river events. <i>Hydrological Processes</i> , <b>2021</b> , 35,  | 3.3 | 3         |

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| 128 | Representation of Dropsonde-Observed Atmospheric River Conditions in Reanalyses. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093357   | 4.9  | 3  |
| 127 | Modulation of Atmospheric Rivers by Mesoscale Frontal Waves and Latent Heating: Comparison of Two U.S. West Coast Events. <i>Monthly Weather Review</i> , <b>2021</b> , 149, 2755-2776   | 2.4  | 2  |
| 126 | Genesis Locations of the Costliest Atmospheric Rivers Impacting the Western United States. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093947   | 4.9  | 2  |
| 125 | Four Atmospheric Circulation Regimes Over the North Pacific and Their Relationship to California Precipitation on Daily to Seasonal Timescales. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087609                          | 4.9  | 3  |
| 124 | The Hydrometeorological Observation Network in California's Russian River Watershed: Development, Characteristics, and Key Findings from 1997 to 2019. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1781-E1800 | 6.1  | 6  |
| 123 | Responses and impacts of atmospheric rivers to climate change. <i>Nature Reviews Earth &amp; Environment</i> , <b>2020</b> , 1, 143-157  | 30.2 | 82 |
| 122 | Dropsonde Observations of the Ageostrophy within the Pre-Cold-Frontal Low-Level Jet Associated with Atmospheric Rivers. <i>Monthly Weather Review</i> , <b>2020</b> , 148, 1389-1406   | 2.4  | 7  |
| 121 | Extreme Runoff Generation From Atmospheric River Driven Snowmelt During the 2017 Oroville Dam Spillways Incident. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088189  | 4.9  | 15 |
| 120 | GPM Satellite Radar Observations of Precipitation Mechanisms in Atmospheric Rivers. <i>Monthly Weather Review</i> , <b>2020</b> , 148, 1449-1463   | 2.4  | 8  |
| 119 | Training the Next Generation of Researchers in the Science and Application of Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E738-E743  | 6.1  | 1  |
| 118 | Ridging Associated with Drought across the Western and Southwestern United States: Characteristics, Trends, and Predictability Sources. <i>Journal of Climate</i> , <b>2020</b> , 33, 2485-2508  | 4.4  | 20 |
| 117 | A multimodel evaluation of the water vapor budget in atmospheric rivers. <i>Annals of the New York Academy of Sciences</i> , <b>2020</b> , 1472, 139-154   | 6.5  | 5  |
| 116 | West Coast Forecast Challenges and Development of Atmospheric River Reconnaissance. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1357-E1377  | 6.1  | 17 |
| 115 | Characteristics, Origins, and Impacts of Summertime Extreme Precipitation in the Lake Mead Watershed. <i>Journal of Climate</i> , <b>2020</b> , 33, 2663-2680  | 4.4  | 3  |
| 114 | Dusty Atmospheric Rivers: Characteristics and Origins. <i>Journal of Climate</i> , <b>2020</b> , 33, 9749-9762   | 4.4  | 2  |
| 113 | Skill of Rain-Snow Level Forecasts for Landfalling Atmospheric Rivers: A Multimodel Assessment Using California's Network of Vertically Profiling Radars. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 751-771                       | 3.7  | 7  |
| 112 | Recent Changes in United States Extreme 3-Day Precipitation Using the R-CAT Scale. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 1207-1221  | 3.7  | 5  |
| 111 | Floods due to Atmospheric Rivers along the U.S. West Coast: The Role of Antecedent Soil Moisture in a Warming Climate. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 1827-1845  | 3.7  | 10 |

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| 110 | The Observed Water Vapor Budget in an Atmospheric River over the Northeast Pacific. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 2655-2673   | 3.7 | 3  |
| 109 | Atmospheric River Reconnaissance Observation Impact in the Navy Global Forecast System. <i>Monthly Weather Review</i> , <b>2020</b> , 148, 763-782   | 2.4 | 11 |
| 108 | Observations and Predictability of a High-Impact Narrow Cold-Frontal Rainband over Southern California on 2 February 2019. <i>Weather and Forecasting</i> , <b>2020</b> , 35, 2083-2097                                    | 2.1 | 8  |
| 107 | Forecast Errors and Uncertainties in Atmospheric Rivers. <i>Weather and Forecasting</i> , <b>2020</b> , 35, 1447-1458  | 2.1 | 8  |
| 106 | The Future of Atmospheric River Research and Applications <b>2020</b> , 219-247  |     | 3  |
| 105 | Applications of Knowledge and Predictions of Atmospheric Rivers <b>2020</b> , 201-218  |     | 1  |
| 104 | Observing and Detecting Atmospheric Rivers <b>2020</b> , 45-87   |     |    |
| 103 | Structure, Process, and Mechanism <b>2020</b> , 15-43  |     | 4  |
| 102 | Global and Regional Perspectives <b>2020</b> , 89-140  |     | 2  |
| 101 | A Case Study of the Physical Processes Associated with the Atmospheric River Initial-Condition Sensitivity from an Adjoint Model. <i>Journals of the Atmospheric Sciences</i> , <b>2020</b> , 77, 691-709                  | 2.1 | 8  |
| 100 | Forecast Informed Reservoir Operations Using Ensemble Streamflow Predictions for a Multipurpose Reservoir in Northern California. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026604                        | 5.4 | 21 |
| 99  | Freezing Level Forecast Error Can Consume Reservoir Flood Control Storage: Potentials for Lake Oroville and New Bullards Bar Reservoirs in California. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027072   | 5.4 | 6  |
| 98  | Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2020EA001129  | 3.1 | 11 |
| 97  | Improved forecasts of atmospheric rivers through systematic reconnaissance, better modelling, and insights on conversion of rain to flooding. <i>Communications Earth &amp; Environment</i> , <b>2020</b> , 1,             | 6.1 | 7  |
| 96  | The Role of Hydrological Initial Conditions on Atmospheric River Floods in the Russian River Basin. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 1667-1686   | 3.7 | 11 |
| 95  | Improving Atmospheric River Forecasts With Machine Learning. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10627-10635   | 4.9 | 22 |
| 94  | Atmospheric River Families: Definition and Associated Synoptic Conditions. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 2091-2108  | 3.7 | 14 |
| 93  | Rapid Cyclogenesis from a Mesoscale Frontal Wave on an Atmospheric River: Impacts on Forecast Skill and Predictability during Atmospheric River Landfall. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 1779-1794 | 3.7 | 8  |

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| 92 | Contrasting local and long-range-transported warm ice-nucleating particles during an atmospheric river in coastal California, USA. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 4193-4210                   | 6.8 | 8   |
| 91 | Atmospheric rivers impacting Northern California and their modulation by a variable climate. <i>Climate Dynamics</i> , <b>2019</b> , 52, 6569-6583  | 4.2 | 24  |
| 90 | Adjoint Sensitivity of North Pacific Atmospheric River Forecasts. <i>Monthly Weather Review</i> , <b>2019</b> , 147, 1871-1897  | 2.4 | 16  |
| 89 | Global evaluation of atmospheric river subseasonal prediction skill. <i>Climate Dynamics</i> , <b>2019</b> , 52, 3039-3060  | 4.0 | 39  |
| 88 | Precipitation regime change in Western North America: The role of Atmospheric Rivers. <i>Scientific Reports</i> , <b>2019</b> , 9, 9944   | 4.9 | 82  |
| 87 | 2018 International Atmospheric Rivers Conference: Multi-disciplinary studies and high-impact applications of atmospheric rivers. <i>Atmospheric Science Letters</i> , <b>2019</b> , 20, e935                                | 2.4 | 4   |
| 86 | Experimental Subseasonal-to-Seasonal (S2S) Forecasting of Atmospheric Rivers Over the Western United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 11242-11265                         | 4.4 | 23  |
| 85 | A Scale to Characterize the Strength and Impacts of Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, 269-289   | 6.1 | 148 |
| 84 | The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 13777-13802  | 4.4 | 75  |
| 83 | Atmospheric rivers drive flood damages in the western United States. <i>Science Advances</i> , <b>2019</b> , 5, eaax4631  | 4.3 | 51  |
| 82 | ARTMIP-early start comparison of atmospheric river detection tools: how many atmospheric rivers hit northern California's Russian River watershed?. <i>Climate Dynamics</i> , <b>2019</b> , 52, 4973-4994                   | 4.2 | 54  |
| 81 | The Relationship Between Extratropical Cyclone Strength and Atmospheric River Intensity and Position. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1814-1823   | 4.9 | 62  |
| 80 | Defining Uncertainties through Comparison of Atmospheric River Tracking Methods. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, ES93-ES96  | 6.1 | 11  |
| 79 | Evaluation of Atmospheric River Predictions by the WRF Model Using Aircraft and Regional Mesonet Observations of Orographic Precipitation and Its Forcing. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 1097-1113 | 3.7 | 33  |
| 78 | Global Assessment of Atmospheric River Prediction Skill. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 409-426   | 3.7 | 55  |
| 77 | An Intercomparison between Reanalysis and Dropsonde Observations of the Total Water Vapor Transport in Individual Atmospheric Rivers. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 321-337                        | 3.7 | 54  |
| 76 | The Gauging and Modeling of Rivers in the Sky. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7828-7834  | 4.9 | 19  |
| 75 | Characterizing drought in California: new drought indices and scenario-testing in support of resource management. <i>Ecological Processes</i> , <b>2018</b> , 7,  | 3.6 | 20  |

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| 74 | Hourly Analyses of the Large Storms and Atmospheric Rivers that Provide Most of California's Precipitation in Only 10 to 100 Hours per Year. <i>San Francisco Estuary and Watershed Science</i> , <b>2018</b> , 16,                                       | 1.4 | 13  |
| 73 | Synoptic and Mesoscale Forcing of Southern California Extreme Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,714  | 4.4 | 20  |
| 72 | Brief communication: Meteorological and climatological conditions associated with the 9 January 2018 post-fire debris flows in Montecito and Carpinteria, California, USA. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 3037-3043 | 3.9 | 42  |
| 71 | Empirical Return Periods of the Most Intense Vapor Transports during Historical Atmospheric River Landfalls on the U.S. West Coast. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 1363-1377  | 3.7 | 19  |
| 70 | A 22-Year Climatology of Cool Season Hourly Precipitation Thresholds Conducive to Shallow Landslides in California. <i>Earth Interactions</i> , <b>2018</b> , 22, 1-35  | 1.5 | 24  |
| 69 | Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 2455-2474   | 6.3 | 144 |
| 68 | Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Project Goals and Experimental Design <b>2018</b> ,   |     | 1   |
| 67 | Impacts of Atmospheric Rivers on Precipitation in Southern South America. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 1671-1687  | 3.7 | 76  |
| 66 | Circulation Drivers of Atmospheric Rivers at the North American West Coast. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,576  | 4.9 | 21  |
| 65 | Assessment of Numerical Weather Prediction Model Reforecasts of the Occurrence, Intensity, and Location of Atmospheric Rivers along the West Coast of North America. <i>Monthly Weather Review</i> , <b>2018</b> , 146, 3343-3362                         | 2.4 | 20  |
| 64 | Defining "Atmospheric River"—How the Glossary of Meteorology Helped Resolve a Debate. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 837-839  | 6.1 | 114 |
| 63 | Global Analysis of Climate Change Projection Effects on Atmospheric Rivers. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4299-4308   | 4.9 | 106 |
| 62 | The Role of Atmospheric Rivers in Extratropical and Polar Hydroclimate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 6804-6821  | 4.4 | 45  |
| 61 | Linking Atmospheric River Hydrological Impacts on the U.S. West Coast to Rossby Wave Breaking. <i>Journal of Climate</i> , <b>2017</b> , 30, 3381-3399  | 4.4 | 56  |
| 60 | Hourly storm characteristics along the U.S. West Coast: Role of atmospheric rivers in extreme precipitation. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7020-7028  | 4.9 | 69  |
| 59 | Atmospheric Rivers Emerge as a Global Science and Applications Focus. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 1969-1973  | 6.1 | 78  |
| 58 | Drosonde Observations of Total Integrated Water Vapor Transport within North Pacific Atmospheric Rivers. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 2577-2596   | 3.7 | 65  |
| 57 | The Chiricahua Gap and the Role of Easterly Water Vapor Transport in Southeastern Arizona Monsoon Precipitation. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 2511-2520   | 3.7 | 3   |

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| 56 | Assessing the climate-scale variability of atmospheric rivers affecting western North America. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7900-7908   | 4.9 | 125 |
| 55 | GPM Satellite Radar Measurements of Precipitation and Freezing Level in Atmospheric Rivers: Comparison With Ground-Based Radars and Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 12,747                | 4.4 | 15  |
| 54 | Forecasting Atmospheric Rivers during CalWater 2015. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 449-459  | 6.1 | 29  |
| 53 | Synoptic conditions associated with cool season post-fire debris flows in the Transverse Ranges of southern California. <i>Natural Hazards</i> , <b>2017</b> , 88, 327-354   | 3   | 54  |
| 52 | Genesis, Pathways, and Terminations of Intense Global Water Vapor Transport in Association with Large-Scale Climate Patterns. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 12,465   | 4.9 | 28  |
| 51 | Predictability of horizontal water vapor transport relative to precipitation: Enhancing situational awareness for forecasting western U.S. extreme precipitation and flooding. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2275-2282 | 4.9 | 57  |
| 50 | Landfalling Atmospheric Rivers, the Sierra Barrier Jet, and Extreme Daily Precipitation in Northern California's Upper Sacramento River Watershed. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 1905-1914                              | 3.7 | 30  |
| 49 | An Airborne and Ground-Based Study of a Long-Lived and Intense Atmospheric River with Mesoscale Frontal Waves Impacting California during CalWater-2014. <i>Monthly Weather Review</i> , <b>2016</b> , 144, 1115-1144                            | 2.4 | 20  |
| 48 | CalWater Field Studies Designed to Quantify the Roles of Atmospheric Rivers and Aerosols in Modulating U.S. West Coast Precipitation in a Changing Climate. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, 1209-1228 | 6.1 | 77  |
| 47 | Hydrometeorological characteristics of rain-on-snow events associated with atmospheric rivers. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2964-2973   | 4.9 | 67  |
| 46 | Special Issue on the ARkStorm Scenario: California's Other Big One. <i>Natural Hazards Review</i> , <b>2016</b> , 17,  | 3.5 | 1   |
| 45 | The Impacts of California's San Francisco Bay Area Gap on Precipitation Observed in the Sierra Nevada during HMT and CalWater. <i>Journal of Hydrometeorology</i> , <b>2015</b> , 16, 1048-1069  | 3.7 | 27  |
| 44 | The Inland Penetration of Atmospheric Rivers over Western North America: A Lagrangian Analysis. <i>Monthly Weather Review</i> , <b>2015</b> , 143, 1924-1944   | 2.4 | 75  |
| 43 | Climate change intensification of horizontal water vapor transport in CMIP5. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5617-5625   | 4.9 | 88  |
| 42 | Impact of interannual variations in sources of insoluble aerosol species on orographic precipitation over California's central Sierra Nevada. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6535-6548                             | 6.8 | 31  |
| 41 | Climatological Characteristics of Atmospheric Rivers and Their Inland Penetration over the Western United States. <i>Monthly Weather Review</i> , <b>2014</b> , 142, 905-921   | 2.4 | 316 |
| 40 | Chemical properties of insoluble precipitation residue particles. <i>Journal of Aerosol Science</i> , <b>2014</b> , 76, 13-27  | 4.3 | 28  |
| 39 | Continental heat anomalies and the extreme melting of the Greenland ice surface in 2012 and 1889. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6520-6536   | 4.4 | 87  |

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| 38 | The Use of Snow-Level Observations Derived from Vertically Profiling Radars to Assess Hydrometeorological Characteristics and Forecasts over Washington's Green River Basin. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 2522-2541      | 3.7  | 6   |
| 37 | An Airborne Study of an Atmospheric River over the Subtropical Pacific during WISPAR: Dropsonde Budget-Box Diagnostics and Precipitation Impacts in Hawaii. <i>Monthly Weather Review</i> , <b>2014</b> , 142, 3199-3223                           | 2.4  | 17  |
| 36 | The Regional Influence of an Intense Sierra Barrier Jet and Landfalling Atmospheric River on Orographic Precipitation in Northern California: A Case Study. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1419-1439                       | 3.7  | 19  |
| 35 | Sierra Barrier Jets, Atmospheric Rivers, and Precipitation Characteristics in Northern California: A Composite Perspective Based on a Network of Wind Profilers. <i>Monthly Weather Review</i> , <b>2013</b> , 141, 4211-4233                      | 2.4  | 45  |
| 34 | . <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 2166-2176  | 8.1  | 67  |
| 33 | Dust and biological aerosols from the Sahara and Asia influence precipitation in the western U.S. <i>Science</i> , <b>2013</b> , 339, 1572-8   | 33.3 | 393 |
| 32 | The Landfall and Inland Penetration of a Flood-Producing Atmospheric River in Arizona. Part I: Observed Synoptic-Scale, Orographic, and Hydrometeorological Characteristics. <i>Journal of Hydrometeorology</i> , <b>2013</b> , 14, 460-484        | 3.7  | 96  |
| 31 | Observed Impacts of Duration and Seasonality of Atmospheric-River Landfalls on Soil Moisture and Runoff in Coastal Northern California. <i>Journal of Hydrometeorology</i> , <b>2013</b> , 14, 443-459   | 3.7  | 185 |
| 30 | The Emergence of Weather-Related Test Beds Linking Research and Forecasting Operations. <i>Bulletin of the American Meteorological Society</i> , <b>2013</b> , 94, 1187-1211   | 6.1  | 48  |
| 29 | Evaluation of Forecasts of the Water Vapor Signature of Atmospheric Rivers in Operational Numerical Weather Prediction Models. <i>Weather and Forecasting</i> , <b>2013</b> , 28, 1337-1352  | 2.1  | 81  |
| 28 | A Twenty-First-Century California Observing Network for Monitoring Extreme Weather Events. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2013</b> , 30, 1585-1603  | 2    | 55  |
| 27 | The Development and Evolution of Two Atmospheric Rivers in Proximity to Western North Pacific Tropical Cyclones in October 2010. <i>Monthly Weather Review</i> , <b>2013</b> , 141, 4234-4255  | 2.4  | 98  |
| 26 | NOAA's Rapid Response to the Howard A. Hanson Dam Flood Risk Management Crisis. <i>Bulletin of the American Meteorological Society</i> , <b>2012</b> , 93, 189-207   | 6.1  | 25  |
| 25 | Physical Processes Associated with Heavy Flooding Rainfall in Nashville, Tennessee, and Vicinity during 12 May 2010: The Role of an Atmospheric River and Mesoscale Convective Systems. <i>Monthly Weather Review</i> , <b>2012</b> , 140, 358-378 | 2.4  | 150 |
| 24 | Relative Contributions of Synoptic and Low-Frequency Eddies to Time-Mean Atmospheric Moisture Transport, Including the Role of Atmospheric Rivers. <i>Journal of Climate</i> , <b>2012</b> , 25, 7341-7361   | 4.4  | 91  |
| 23 | Historical and National Perspectives on Extreme West Coast Precipitation Associated with Atmospheric Rivers during December 2010. <i>Bulletin of the American Meteorological Society</i> , <b>2012</b> , 93, 783-790                               | 6.1  | 156 |
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| 14 | Developing a Performance Measure for Snow-Level Forecasts. <i>Journal of Hydrometeorology</i> , <b>2010</b> , 11, 739-753   | 3.7 | 50  |
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