Catherine M Naud

List of Publications by Citations

53 papers	1,150 citations	19 h-index	33 g-index
58 ext. papers	1,297 ext. citations	4.3 avg, IF	4.37 L-index

#	Paper	IF	Citations
53	SIRTA, a ground-based atmospheric observatory for cloud and aerosol research. *Annales Geophysicae*, **2005**, 23, 253-275	2	184
52	Evaluation of ERA-Interim and MERRA Cloudiness in the Southern Ocean. *Journal of Climate*, **2014**, 27, 2109-2124	4.4	88
51	The Atmospheric Infrared Sounder version 6 cloud products. *Atmospheric Chemistry and Physics*, **2014**, 14, 399-426	6.8	74
50	Cloud Vertical Distribution across Warm and Cold Fronts in CloudSat–CALIPSO Data and a General Circulation Model. *Journal of Climate*, **2010**, 23, 3397-3415	4.4	61
49	Comparison of cloud top heights derived from MISR stereo and MODIS CO2-slicing. *Geophysical Research Letters*, **2002**, 29, 42-1-42-4	4.9	44
48	Intercomparison of multiple years of MODIS, MISR and radar cloud-top heights. *Annales Geophysicae*, **2005**, 23, 2415-2424	2	40
47	Observational Analysis of Cloud and Precipitation in Midlatitude Cyclones: Northern versus Southern Hemisphere Warm Fronts. *Journal of Climate*, **2012**, 25, 5135-5151	4.4	39
46	Impact of Dynamics and Atmospheric State on Cloud Vertical Overlap. *Journal of Climate*, **2008**, 21, 1758-1770	4.4	39
45	Observational Constraints on the Cloud Thermodynamic Phase in Midlatitude Storms. *Journal of Climate*, **2006**, 19, 5273-5288	4.4	39
44	Sensitivity of Warm-Frontal Processes to Cloud-Nucleating Aerosol Concentrations. *Journals of the Atmospheric Sciences*, **2013**, 70, 1768-1783	2.1	38
43	Comparison between active sensor and radiosonde cloud boundaries over the ARM Southern Great Plains site. *Journal of Geophysical Research*, **2003**, 108,		37
42	Assessment of MISR and MODIS cloud top heights through inter-comparison with a back-scattering lidar at SIRTA. *Geophysical Research Letters*, **2004**, 31,	4.9	36
41	The relationship between boundary layer stability and cloud cover in the post-cold frontal region. *Journal of Climate*, **2016**, 29, 8129-8149	4.4	34
40	Stereo cloud-top heights and cloud fraction retrieval from ATSR-2. *International Journal of Remote Sensing*, **2007**, 28, 1921-1938	3.1	34
39	A CloudSat–CALIPSO View of Cloud and Precipitation Properties across Cold Fronts over the Global Oceans. *Journal of Climate*, **2015**, 28, 6743-6762	4.4	30
38	Process-Oriented Evaluation of Climate and Weather Forecasting Models. *Bulletin of the American Meteorological Society*, **2019**, 100, 1665-1686	6.1	28
37	Evaluation of Extratropical Cyclone Precipitation in the North Atlantic Basin: An analysis of ERA-Interim, WRF, and two CMIP5 models. *Journal of Climate*, **2018**, 31, 2345-2360	4.4	22

36	Diagnosing Warm Frontal Cloud Formation in a GCM: A Novel Approach Using Conditional Subsetting. *Journal of Climate*, **2013**, 26, 5827-5845	4.4	20
35	Comparison of MISR and MODIS cloud-top heights in the presence of cloud overlap. *Remote Sensing of Environment*, **2007**, 107, 200-210	13.2	19
34	Using satellites to investigate the sensitivity of longwave downward radiation to water vapor at high elevations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		18
33	Sensitivity of downward longwave surface radiation to moisture and cloud changes in a high-elevation region. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 10,072-10,081	4.4	17
32	Assessment of ISCCP cloudiness over the Tibetan Plateau using CloudSat-CALIPSO. *Journal of Geophysical Research*, **2010**, 115,		17
31	Multiple satellite observations of cloud cover in extratropical cyclones. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 9982-9996	4.4	15
30	Thermodynamic phase profiles of optically thin midlatitude clouds and their relation to temperature. *Journal of Geophysical Research*, **2010**, 115,		15
29	Observational Constraint for Precipitation in Extratropical Cyclones: Sensitivity to Data Sources. *Journal of Applied Meteorology and Climatology*, **2018**, 57, 991-1009	2.7	12
28	Extratropical Cyclone Precipitation Life Cycles: A Satellite-Based Analysis. *Geophysical Research Letters*, **2018**, 45, 8647-8654	4.9	12
27	On the use of ICESAT-GLAS measurements for MODIS and SEVIRI cloud-top height accuracy assessment. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	12
26	Post Cold Frontal Clouds at the ARM Eastern North Atlantic Site: An Examination of the Relationship Between Large-Scale Environment and Low-Level Cloud Properties. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,117	4.4	12
25	Assessing CYGNSS Potential to Observe Extratropical Fronts and Cyclones. *Journal of Applied Meteorology and Climatology*, **2017**, 56, 2027-2034	2.7	10
24	Thermodynamic Phase and Ice Cloud Properties in Northern Hemisphere Winter Extratropical Cyclones Observed by Aqua AIRS. *Journal of Applied Meteorology and Climatology*, **2015**, 54, 2283-2303	2.7	10
23	A Satellite View of the Radiative Impact of Clouds on Surface Downward Fluxes in the Tibetan Plateau. *Journal of Applied Meteorology and Climatology*, **2015**, 54, 479-493	2.7	9
22	Aerosol optical depth distribution in extratropical cyclones over the Northern Hemisphere oceans. *Geophysical Research Letters*, **2016**, 43, 10,504-10,511	4.9	7
21	The Interaction Between Boundary Layer and Convection Schemes in a WRF Simulation of Post Cold Frontal Clouds Over the ARM East North Atlantic Site. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 4699-4721	4.4	6
20	Assessment of multispectral ATSR2 stereo cloud-top height retrievals. *Remote Sensing of Environment*, **2006**, 104, 337-345	13.2	6
19	Assessment of the Performance of the Chilbolton 3-GHz Advanced Meteorological Radar for Cloud-Top-Height Retrieval. *Journal of Applied Meteorology and Climatology*, **2005**, 44, 876-887		6

18	Extratropical Cyclone Clouds in the GFDL Climate Model: Diagnosing Biases and the Associated Causes. *Journal of Climate*, **2019**, 32, 6685-6701	4.4	5
17	Relationships Between Precipitation Properties and Large-Scale Conditions During Subsidence at the Eastern North Atlantic Observatory. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031848	4.4	5
16	Upright Convection in Extratropical Cyclones: A Survey Using Ground-Based Radar Data Over the United States. *Geophysical Research Letters*, **2020**, 47, e2019GL086620	4.9	5
15	Observed Covariations of Aerosol Optical Depth and Cloud Cover in Extratropical Cyclones. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 10,338-10,356	4.4	5
14	Comparison between ATSR-2 stereo, MOS O2-A band and ground-based cloud top heights. *International Journal of Remote Sensing*, **2007**, 28, 1969-1987	3.1	5
13	Experimental observations of cavitation in superfluid helium-4. *Physica B: Condensed Matter*, **1994**, 194-196, 575-576	2.8	5
12	WRF hindcasts of cold front passages over the ARM Eastern North Atlantic Site: a sensitivity study. *Monthly Weather Review*, **2018**, 146, 2417-2432	2.4	4
11	Intercomparison of Ground-Based Radar and Satellite Cloud-Top Height Retrievals for Overcast Single-Layered Cloud Fields. *IEEE Transactions on Geoscience and Remote Sensing*, **2009**, 47, 1901-1908	8.1	4
10	Evaluation of Modeled Precipitation in Oceanic Extratropical Cyclones Using IMERG. *Journal of Climate*, **2020**, 33, 95-113	4.4	4
9	On the Relationship Between the Marine Cold Air Outbreak M Parameter and Low-Level Cloud Heights in the Midlatitudes. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032465	4.4	3
8	CYGNSS Observations and Analysis of Low-Latitude Extratropical Cyclones. *Journal of Applied Meteorology and Climatology*, **2021**, 60, 527-541	2.7	3
7	Coupling of Precipitation and Cloud Structures in Oceanic Extratropical Cyclones to Large-Scale Moisture Flux Convergence. *Journal of Climate*, **2018**, 31, 9565-9584	4.4	3
6	Reply to Comments on A CloudSat CALIPSO View of Cloud and Precipitation Properties across Cold Fronts over the Global Oceans *Journal of Climate*, **2018**, 31, 2969-2975	4.4	2
5	Comparison of the sensitivity of surface downward longwave radiation to changes in water vapor at two high elevation sites. *Environmental Research Letters*, **2014**, 9, 114015	6.2	2
4	Radiative Transfer in Multifractal Atmospheres: Fractional Integration, Multifractal Phase Transitions and Inversion Problems. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 239-267	0.5	2
3	Remote sensing of cirrus cloud properties in the far infrared **2001**,		1
2	Effect of cirrus clouds in the infrared (4 to 100 m): high-spectral-resolution simulations **1998**,		1
1	High-spectral-resolution simulation of the impact on heating rates of cirrus clouds in the far infrared **1998**, 3495, 92		1