

# Chantal Claud

## List of Publications by Year in descending order

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95  
papers

2,466  
citations

218677

26  
h-index

243625

44  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2501  
citing authors

#	ARTICLE	IF	CITATIONS
1	An update of observed stratospheric temperature trends. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	260
2	Evaluation of current and projected Antarctic precipitation in CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 225-239.	3.8	125
3	How much snow falls on the Antarctic ice sheet?. <i>Cryosphere</i> , 2014, 8, 1577-1587.	3.9	124
4	Absorbing and reflecting sudden stratospheric warming events and their relationship with tropospheric circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 80-94.	3.3	88
5	Characteristics of the TOVS Pathfinder Path-B Dataset. <i>Bulletin of the American Meteorological Society</i> , 1999, 80, 2679-2701.	3.3	86
6	Comparison of co-located independent ground-based middle atmospheric wind and temperature measurements with numerical weather prediction models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8318-8331.	3.3	85
7	The 11-year solar-cycle effects on the temperature in the upper-stratosphere and mesosphere: Part I – Assessment of observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 940-947.	1.6	72
8	Tropical transition of a Mediterranean storm by jet crossing. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 596-611.	2.7	68
9	Observed Temperature Changes in the Troposphere and Stratosphere from 1979 to 2018. <i>Journal of Climate</i> , 2020, 33, 8165-8194.	3.2	66
10	Mediterranean hurricanes: large-scale environment and convective and precipitating areas from satellite microwave observations. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 2199-2213.	3.6	49
11	Comparison between the Large-Scale Environments of Moderate and Intense Precipitating Systems in the Mediterranean Region. <i>Monthly Weather Review</i> , 2009, 137, 3933-3959.	1.4	47
12	Polar low <I>le Cygne</I>: Satellite observations and numerical simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 1075-1102.	2.7	46
13	Report of a Workshop on Theoretical and Observational Studies of Polar Lows of the European Geophysical Society Polar Lows Working Group. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 2643-2658.	3.3	46
14	Evaluation of a cloud system life-cycle simulated by the Meso-NH model during FASTEX using METEOSAT radiances and TOVS-3i cloud retrievals. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1735-1750.	2.7	46
15	Evaluation of Antarctic snowfall in global meteorological reanalyses. <i>Atmospheric Research</i> , 2017, 190, 104-112.	4.1	42
16	Polar Lows over the Nordic Seas: Improved Representation in ERA-Interim Compared to ERA-40 and the Impact on Downscaled Simulations. <i>Monthly Weather Review</i> , 2014, 142, 2271-2289.	1.4	40
17	Polar low tracks over the Nordic Seas: a 14-winter climatic analysis. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 24660.	1.7	38
18	Potential of Advanced Microwave Sounding Unit to identify precipitating systems and associated upper-level features in the Mediterranean region: Case studies. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	37

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19	Polar lows over the Nordic and Labrador Seas: Synoptic circulation patterns and associations with North Atlantic winter weather regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2455-2472.	3.3	37
20	Satellite observations of a polar low over the Norwegian Sea by special sensor microwave imager, Geosat, and TIROS operational vertical sounder. <i>Journal of Geophysical Research</i> , 1993, 98, 14487-14506.	3.3	35
21	Revisiting the Possible Links between the Quasi-Biennial Oscillation and the Indian Summer Monsoon Using NCEP R-2 and CMAP Fields. <i>Journal of Climate</i> , 2007, 20, 773-787.	3.2	35
22	Associations between large-scale atmospheric circulation and polar low developments over the North Atlantic during winter. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	35
23	An evaluation of uncertainties in monitoring middle atmosphere temperatures with the ground-based lidar network in support of space observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 627-642.	1.6	34
24	Processes leading to heavy precipitation associated with two Mediterranean cyclones observed during the HyMeX SOP1. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 275-286.	2.7	33
25	Evolution and mesoscale structure of a polar low outbreak. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1031-1063.	2.7	31
26	How Does Ground Clutter Affect CloudSat Snowfall Retrievals Over Ice Sheets?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 342-346.	3.1	30
27	Satellite-based climatology of Mediterranean cloud systems and their association with large-scale circulation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
28	Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	29
29	Convective activity in Mato Grosso state (Brazil) from microwave satellite observations: Comparisons between AMSU and TRMM data sets. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
30	Contribution of stratospheric warmings to temperature trends in the middle atmosphere from the lidar series obtained at Haute-Provence Observatory (44°N). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
31	Heavy rainfall in Mediterranean cyclones. Part I: contribution of deep convection and warm conveyor belt. <i>Climate Dynamics</i> , 2018, 50, 2935-2949.	3.8	27
32	Remote sensing of deep convection within a tropical-like cyclone over the Mediterranean Sea. <i>Atmospheric Science Letters</i> , 2018, 19, e823.	1.9	26
33	A high resolution climatology of precipitation and deep convection over the Mediterranean region from operational satellite microwave data: development and application to the evaluation of model uncertainties. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 785-798.	3.6	25
34	Characteristics of stratospheric warming events during Northern winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5368-5380.	3.3	25
35	Satellite-derived atmospheric characteristics of spiral and comma-shaped southern hemisphere mesocyclones. <i>Journal of Geophysical Research</i> , 1997, 102, 13889-13905.	3.3	24
36	Retrieving Surface Snowfall With the GPM Microwave Imager: A New Module for the SLALOM Algorithm. <i>Geophysical Research Letters</i> , 2019, 46, 13593-13601.	4.0	24

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37	A cold air outbreak over the Norwegian Sea observed with the TIROS-N Operational Vertical Sounder (TOVS) and the Special Sensor Microwave/Imager (SSM/I). <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 100-118.	1.7	23
38	Dynamical amplification of the stratospheric solar response simulated with the Chemistry-Climate Model LMDz-Reprobus. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 75-76, 147-160.	1.6	22
39	Insights into the convective evolution of Mediterranean tropical-like cyclones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 4147-4169.	2.7	22
40	Postmillennium changes in stratospheric temperature consistently resolved by GPS radio occultation and AMSU observations. <i>Geophysical Research Letters</i> , 2017, 44, 7510-7518.	4.0	21
41	A 6-year AMSU-based climatology of upper-level troughs and associated precipitation distribution in the Mediterranean region. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
42	Severe convection in the Mediterranean from microwave observations and a convection-permitting model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 43-55.	2.7	19
43	Evaluation of CloudSat snowfall rate profiles by a comparison with in situ micro-rain radar observations in East Antarctica. <i>Cryosphere</i> , 2019, 13, 943-954.	3.9	19
44	The role of convective overshooting clouds in tropical stratosphere-troposphere dynamical coupling. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6767-6774.	4.9	18
45	Regional and seasonal stratospheric temperature trends in the last decade (2002-2014) from AMSU observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8172-8185.	3.3	17
46	In Situ Measurements of Surface Winds, Waves, and Sea State in Polar Lows Over the North Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 700-718.	3.3	17
47	Cross-validation of Advanced Microwave Sounding Unit and lidar for long-term upper-stratospheric temperature monitoring. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
48	Assessing precipitation extremes (1981-2018) and deep convective activity (2002-2018) in the Amazon region with CHIRPS and AMSU data. <i>Climate Dynamics</i> , 2021, 57, 827-849.	3.8	15
49	Assessment of the accuracy of atmospheric temperature profiles retrieved from TOVS observations by the 3I method in the European Arctic; Application for mesoscale weather analysis. <i>Journal of Geophysical Research</i> , 1991, 96, 2875-2887.	3.3	14
50	Patterns of Precipitation and Convection Occurrence over the Mediterranean Basin Derived from a Decade of Microwave Satellite Observations. <i>Atmosphere</i> , 2014, 5, 370-398.	2.3	14
51	Deep convective clouds distribution over the Mediterranean region from AMSU-B/MHS observations. <i>Atmospheric Research</i> , 2018, 207, 122-135.	4.1	14
52	Aspects of stratospheric long-term changes induced by ozone depletion. <i>Climate Dynamics</i> , 2006, 27, 101-111.	3.8	13
53	Southern hemisphere winter cold-air mesocyclones: climatic environments and associations with teleconnections. <i>Climate Dynamics</i> , 2009, 33, 383-408.	3.8	13
54	Tidal effects on stratospheric temperature series derived from successive advanced microwave sounding units. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 477-483.	2.7	13

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55	Arctic Snowfall from CloudSat Observations and Reanalyses. <i>Journal of Climate</i> , 2020, 33, 2093-2109.	3.2	13
56	Use of TOVS observations for the study of polar and arctic lows. <i>International Journal of Remote Sensing</i> , 1992, 13, 129-139.	2.9	12
57	Verification of ensemble forecasts of Mediterranean high-impact weather events against satellite observations. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 2449-2462.	3.6	12
58	Sensitivity studies of TOVS retrievals with 3I and ITPP retrieval algorithms: Application to the resolution of meso-scale phenomena in the Antarctic. <i>Meteorology and Atmospheric Physics</i> , 1995, 55, 87-100.	2.0	11
59	Monitoring Deep Convection and Convective Overshooting From 60° S to 60° N Using MHS: A Cloudsat/CALIPSO-Based Assessment. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 159-163.	3.1	10
60	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.	4.9	10
61	CloudSat-Inferred Vertical Structure of Snowfall Over the Antarctic Continent. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031399.	3.3	10
62	A cold air outbreak over the Norwegian Sea observed with the TIROS-N Operational Vertical Sounder (TOVS) and the Special Sensor Microwave/Imager (SSM/I). <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 100-118.	1.7	9
63	Global scale observation of the earth for climate studies. <i>Advances in Space Research</i> , 1994, 14, 155-159.	2.6	9
64	The effect of the 11-year solar cycle on the temperature in the lower stratosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 2031-2040.	1.6	9
65	On associations between the 11-year solar cycle and the Indian Summer Monsoon system. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
66	Observation of polar lows by the Advanced Microwave Sounding Unit: potential and limitations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 61, 264.	1.7	9
67	Investigations of stratospheric temperature regional variability with lidar and Advanced Microwave Sounding Unit. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	9
68	North Atlantic polar lows and weather regimes: do current links persist in a warmer climate?. <i>Atmospheric Science Letters</i> , 2017, 18, 349-355.	1.9	9
69	Global monitoring of deep convection using passive microwave observations. <i>Atmospheric Research</i> , 2021, 247, 105244.	4.1	9
70	Assessment of the quality of TOVS retrievals obtained with the 3I algorithm for Antarctic conditions. <i>Journal of Geophysical Research</i> , 1995, 100, 5143.	3.3	8
71	The use of tovs observations for the identification of tropopause-level thermal anomalies. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1473-1494.	2.7	8
72	Stratospheric Final Warmings fall into two categories with different evolution over the course of the year. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	8

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73	Depiction of Upper-Level Precursors of the December 1999 Storms from TOVS Observations. <i>Weather and Forecasting</i> , 2003, 18, 417-430.	1.4	7
74	Associations between tropical cyclone activity in the Southwest Indian Ocean and El Niño Southern Oscillation. <i>Atmospheric Science Letters</i> , 2015, 16, 506-511.	1.9	7
75	Potential of microwave observations for the evaluation of rainfall and convection in a regional climate model in the frame of HyMeX and MED-CORDEX. <i>Climate Dynamics</i> , 2018, 51, 837-855.	3.8	7
76	New Insights Into the Vertical Structure of Clouds in Polar Lows, Using Radar-Lidar Satellite Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088785.	4.0	7
77	TOVS observations of a stratospheric cooling during the CHEOPS 3 campaign: February 4–6, 1990, over Scandinavia. <i>Journal of Geophysical Research</i> , 1993, 98, 7229-7243.	3.3	6
78	A new Mesospheric data set of temperature profiles from 35 to 85 km using Rayleigh scattering at limb from GOMOS/ENVISAT daytime observations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 749-761.	3.1	6
79	Seasonal, Interannual, and Zonal Temperature Variability of the Tropical Stratosphere Based on TOVS Satellite Data: 1987–91. <i>Journal of Climate</i> , 1999, 12, 540-550.	3.2	5
80	Observed variability of North Atlantic oceanic precipitating systems during winter. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	4
81	Assessment of ERA-5 Temperature Variability in the Middle Atmosphere Using Rayleigh LIDAR Measurements between 2005 and 2020. <i>Atmosphere</i> , 2022, 13, 242.	2.3	4
82	Assessment of TOVS-derived stratospheric temperatures up to 10 hPa for episodes of the European Arctic Stratospheric Ozone Experiment campaign. <i>Journal of Geophysical Research</i> , 1996, 101, 3941-3956.	3.3	3
83	Large-scale cloud, precipitation, and upper level features during Fronts and Atlantic Storm Track Experiment as inferred from TIROS-N Operational Vertical Sounder observations. <i>Journal of Geophysical Research</i> , 2001, 106, 17293-17302.	3.3	3
84	Atmospheric and upper ocean environments of Southern Ocean polar mesocyclones in the transition season months and associations with teleconnections. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	3
85	Temperature Trends Observed in the Middle Atmosphere and Future Directions. , 2019, , 805-823.		3
86	Two case studies of severe storms in the Mediterranean using AMSU. <i>Advances in Geosciences</i> , 0, 12, 19-26.	12.0	3
87	Exploring the signature of polar lows in infrasound: the 19–20 November 2008 cases. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2017, 69, 1338885.	1.7	2
88	Evaluation of coastal Antarctic precipitation in LMDz6 global atmospheric model using ground-based radar observations. <i>Arctic and Antarctic Research</i> , 2021, 67, 147-164.	0.6	2
89	Evolution and mesoscale structure of a polar low outbreak. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1031-1064.	2.7	2
90	Evaluation of TOVS-derived stratospheric temperatures up to 10 hPa for a case of vortex displacement over western Europe. <i>Journal of Geophysical Research</i> , 1998, 103, 13743-13761.	3.3	1

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91	The dynamical influence of the Pinatubo eruption in the subtropical stratosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1600-1608.	1.6	1
92	Observation of the thermal structure and dynamics of the stratosphere and the mesosphere from space. Comptes Rendus - Geoscience, 2010, 342, 323-330.	1.2	1
93	Recent Dynamic Studies on the Middle Atmosphere at Mid- and Low-Latitudes Using Rayleigh Lidar and Other Technologies. , 2019, , 757-776.		1
94	Use of satellite observations for the study of mesoscale systems in polar regions. Advances in Space Research, 1992, 12, 299-302.	2.6	0
95	Temperature Climatology with Rayleigh Lidar Above Observatory of Haute-Provence: Dynamical Feedback. EPJ Web of Conferences, 2016, 119, 13009.	0.3	0