

Jean Pierre Chaboureau

List of Publications by Year in descending order

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114
papers

4,390
citations

94433

37
h-index

128289

60
g-index

143
all docs

143
docs citations

143
times ranked

4125
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Deep Convection as Inferred From the C2OMODO Concept of a Tandem of Microwave Radiometers. <i>Frontiers in Remote Sensing</i> , 2022, 3, . | 3.5 | 1 |
| 3 | Time-Delayed Tandem Microwave Observations of Tropical Deep Convection: Overview of the C2OMODO Mission. <i>Frontiers in Remote Sensing</i> , 2022, 3, . | 3.5 | 2 |
| 4 | Smoke in the river: an Aerosols, Radiation and Clouds in southern Africa (AEROCLO-sA) case study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5701-5724. | 4.9 | 5 |
| 5 | Acceleration of the southern African easterly jet driven by the radiative effect of biomass burning aerosols and its impact on transport during AEROCLO-sA. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8639-8658. | 4.9 | 4 |
| 6 | Summertime dust storms over the Arabian Peninsula and impacts on radiation, circulation, cloud development and rain. <i>Atmospheric Research</i> , 2021, 250, 105364. | 4.1 | 61 |
| 7 | Morning boundary layer conditions for shallow to deep convective cloud evolution during the dry season in the central Amazon. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13207-13225. | 4.9 | 6 |
| 8 | Mid-level convection in a warm conveyor belt accelerates the jet stream. <i>Weather and Climate Dynamics</i> , 2021, 2, 37-53. | 3.5 | 8 |
| 9 | Clouds and Convective Self-Aggregation in a Multimodel Ensemble of Radiative-Convective Equilibrium Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002138. | 3.8 | 86 |
| 10 | Warm Rain in Southern West Africa: A Case Study at Savã. <i>Atmosphere</i> , 2020, 11, 298. | 2.3 | 3 |
| 11 | Organization of convective ascents in a warm conveyor belt. <i>Weather and Climate Dynamics</i> , 2020, 1, 617-634. | 3.5 | 10 |
| 12 | Contrasting stable water isotope signals from convective and large-scale precipitation phases of a heavy precipitation event in southern Italy during HyMeX IOP 13: a modelling perspective. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7487-7506. | 4.9 | 7 |
| 13 | The Role of the Intertropical Discontinuity Region and the Heat Low in Dust Emission and Transport Over the Thar Desert, India: A Premonsoon Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13197-13219. | 3.3 | 49 |
| 14 | Convective hydration in the tropical tropopause layer during the StratoClim aircraft campaign: pathway of an observed hydration patch. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11803-11820. | 4.9 | 17 |
| 15 | The Three Atmospheric Circulations over the Indian Ocean and the Maritime Continent and Their Modulation by the Passage of the MJO. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 517-531. | 1.7 | 2 |
| 16 | The Aerosols, Radiation and Clouds in Southern Africa Field Campaign in Namibia: Overview, Illustrative Observations, and Way Forward. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1277-1298. | 3.3 | 59 |
| 17 | Atmospheric Dynamics from Synoptic to Local Scale During an Intense Frontal Dust Storm over the Sistan Basin in Winter 2019. <i>Geosciences (Switzerland)</i> , 2019, 9, 453. | 2.2 | 28 |
| 18 | Precipitation and Mesoscale Convective Systems: Explicit versus Parameterized Convection over Northern Africa. <i>Monthly Weather Review</i> , 2018, 146, 797-812. | 1.4 | 11 |

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| 19 | 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 |
| 20 | Impact of upstream moisture structure on a back-building convective precipitation system in south-eastern France during HyMeX IOP13. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16845-16862. | 4.9 | 13 |
| 21 | The Mechanisms Leading to a Stratospheric Hydration by Overshooting Convection. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 4383-4398. | 1.7 | 26 |
| 22 | Polar Jet Associated Circulation Triggered a Saharan Cyclone and Derived the Poleward Transport of the African Dust Generated by the Cyclone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,899. | 3.3 | 33 |
| 23 | Overview of the Meso-NH model version 5.4 and its applications. <i>Geoscientific Model Development</i> , 2018, 11, 1929-1969. | 3.6 | 194 |
| 24 | Precipitation and Mesoscale Convective Systems: Radiative Impact of Dust over Northern Africa. <i>Monthly Weather Review</i> , 2018, 146, 3011-3029. | 1.4 | 8 |
| 25 | Deep convective clouds distribution over the Mediterranean region from AMSU-B/MHS observations. <i>Atmospheric Research</i> , 2018, 207, 122-135. | 4.1 | 14 |
| 26 | Dust emission and transport over Iraq associated with the summer Shamal winds. <i>Aeolian Research</i> , 2017, 24, 15-31. | 2.7 | 66 |
| 27 | The Atmospheric Overturning Induced by Hector the Convective. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3271-3284. | 1.7 | 9 |
| 28 | Vortex-vortex interaction between Hurricane Nadine (2012) and an Atlantic cutoff dropping the predictability over the Mediterranean. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 419-432. | 2.7 | 14 |
| 29 | Giga-LES of Hector the Convective and Its Two Tallest Updrafts up to the Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 5041-5060. | 1.7 | 25 |
| 30 | Fennec dust forecast intercomparison over the Sahara in June 2011. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6977-6995. | 4.9 | 21 |
| 31 | 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 |
| 32 | Extensive Comparison Between a Set of European Dust Regional Models and Observations in the Western Mediterranean for the Summer 2012 Pre-ChArMEx/TRAQA Campaign. <i>Springer Proceedings in Complexity</i> , 2016, , 79-83. | 0.3 | 4 |
| 33 | The radiative impact of desert dust on orographic rain in the CÃ©vennes-Vivarais area: a case study from HyMeX. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12231-12249. | 4.9 | 7 |
| 34 | Remote impact of North Atlantic hurricanes on the Mediterranean during episodes of intense rainfall in autumn 2012. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 967-978. | 2.7 | 23 |
| 35 | Large-eddy simulations of Hector the convective making the stratosphere wetter. <i>Atmospheric Science Letters</i> , 2015, 16, 135-140. | 1.9 | 39 |
| 36 | Effect of Turbulence Parameterization on Assessment of Cloud Organization. <i>Monthly Weather Review</i> , 2015, 143, 3246-3262. | 1.4 | 27 |

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| 37 | Meso-scale modelling and radiative transfer simulations of a snowfall event over France at microwaves for passive and active modes and evaluation with satellite observations. Atmospheric Measurement Techniques, 2015, 8, 1605-1616. | 3.1 | 11 |
| 38 | Patterns of Precipitation and Convection Occurrence over the Mediterranean Basin Derived from a Decade of Microwave Satellite Observations. Atmosphere, 2014, 5, 370-398. | 2.3 | 14 |
| 39 | Towards IASI-New Generation (IASI-NG): impact of improved spectral resolution and radiometric noise on the retrieval of thermodynamic, chemistry and climate variables. Atmospheric Measurement Techniques, 2014, 7, 4367-4385. | 3.1 | 110 |
| 40 | Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 1. Deep convective updraft properties. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,891. | 3.3 | 100 |
| 41 | Representing Equilibrium and Nonequilibrium Convection in Large-Scale Models. Journals of the Atmospheric Sciences, 2014, 71, 734-753. | 1.7 | 305 |
| 42 | The Chuva Project: How Does Convection Vary across Brazil?. Bulletin of the American Meteorological Society, 2014, 95, 1365-1380. | 3.3 | 100 |
| 43 | Polar Lows over the Nordic Seas: Improved Representation in ERA-Interim Compared to ERA-40 and the Impact on Downscaled Simulations. Monthly Weather Review, 2014, 142, 2271-2289. | 1.4 | 40 |
| 44 | Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 2. Precipitation microphysics. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,919. | 3.3 | 47 |
| 45 | On the role of a Rossby wave train during the extratropical transition of hurricane Helene (2006). Quarterly Journal of the Royal Meteorological Society, 2013, 139, 370-386. | 2.7 | 36 |
| 46 | Predictability of a Mediterranean Tropical-Like Storm Downstream of the Extratropical Transition of Hurricane Helene (2006). Monthly Weather Review, 2013, 141, 1943-1962. | 1.4 | 17 |
| 47 | Characterization of dust emission from alluvial sources using aircraft observations and high-resolution modeling. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7237-7259. | 3.3 | 24 |
| 48 | A comparison of TWP-ICE observational data with cloud-resolving model results. Journal of Geophysical Research, 2012, 117, . | 3.3 | 108 |
| 49 | Long-range transport of Saharan dust over northwestern Europe during EUCAARI 2008 campaign: Evolution of dust optical properties by scavenging. Journal of Geophysical Research, 2012, 117, . | 3.3 | 28 |
| 50 | Correction to "Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure". Journal of Geophysical Research, 2012, 117, n/a-n/a. | 3.3 | 0 |
| 51 | Verification of ensemble forecasts of Mediterranean high-impact weather events against satellite observations. Natural Hazards and Earth System Sciences, 2012, 12, 2449-2462. | 3.6 | 12 |
| 52 | 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. Natural Hazards and Earth System Sciences, 2012, 12, 785-798. | 3.6 | 25 |
| 53 | Tropical transition of a Mediterranean storm by jet crossing. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 596-611. | 2.7 | 68 |
| 54 | Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure. Journal of Geophysical Research, 2011, 116, . | 3.3 | 90 |

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| 55 | Initiation of deep convection at marginal instability in an ensemble of mesoscale models: a case study from COPS. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 118-136. | 2.7 | 49 |
| 56 | Forecasting summer convection over the Black Forest: a case study from the Convective and Orographically induced Precipitation Study (COPS) experiment. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 101-117. | 2.7 | 19 |
| 57 | Long-range transport of Saharan dust and its radiative impact on precipitation forecast: a case study during the Convective and Orographically induced Precipitation Study (COPS). Quarterly Journal of the Royal Meteorological Society, 2011, 137, 236-251. | 2.7 | 48 |
| 58 | Dust impact on the West African heat low in summertime. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1227-1240. | 2.7 | 44 |
| 59 | Seamless MESO-NH modeling over very large grids. Comptes Rendus - Mecanique, 2011, 339, 136-140. | 2.1 | 13 |
| 60 | Numerical study of tracers transport by a mesoscale convective system over West Africa. Annales Geophysicae, 2011, 29, 731-747. | 1.6 | 5 |
| 61 | Modelling convective processes during the suppressed phase of a Madden-Julian oscillation: Comparing single-column models with cloud-resolving models. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 333-353. | 2.7 | 20 |
| 62 | Mediterranean hurricanes: large-scale environment and convective and precipitating areas from satellite microwave observations. Natural Hazards and Earth System Sciences, 2010, 10, 2199-2213. | 3.6 | 49 |
| 63 | HAMSTRAD-Tropo, A 183-GHz Radiometer Dedicated to Sound Tropospheric Water Vapor Over Concordia Station, Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1365-1380. | 6.3 | 22 |
| 64 | Uncertainties in short-term forecasts of a Mediterranean heavy precipitation event: Assessment with satellite observations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 8 |
| 65 | Comparison between the Large-Scale Environments of Moderate and Intense Precipitating Systems in the Mediterranean Region. Monthly Weather Review, 2009, 137, 3933-3959. | 1.4 | 47 |
| 66 | The impact of a mesoscale convective system cold pool on the northward propagation of the intertropical discontinuity over West Africa. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 139-159. | 2.7 | 54 |
| 67 | Multiplatform observations of a springtime case of BodÃ© and Sudan dust emission, transport and scavenging over West Africa. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 413-430. | 2.7 | 30 |
| 68 | Improving the numerical prediction of a cyclone in the Mediterranean by local potential vorticity modifications. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 865-879. | 2.7 | 17 |
| 69 | Estimate of Sahelian dust emissions in the intertropical discontinuity region of the West African Monsoon. Journal of Geophysical Research, 2009, 114, . | 3.3 | 41 |
| 70 | Injection in the lower stratosphere of biomass fire emissions followed by long-range transport: a MOZIC case study. Atmospheric Chemistry and Physics, 2009, 9, 5829-5846. | 4.9 | 41 |
| 71 | La campagne Cops : genÃ©se et cycle de vie de la convection en rÃ©gion montagneuse. La MÃ©tÃ©orologie, 2009, 8, 32. | 0.5 | 6 |
| 72 | Projet Cyprim, partie I : CyclogenÃ©ses et prÃ©cipitations intenses en rÃ©gion mÃ©diterranÃ©enne : origines et caractÃ©ristiques. La MÃ©tÃ©orologie, 2009, 8, 18. | 0.5 | 19 |

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|----|---|-----|-----------|
| 73 | Observation of polar lows by the Advanced Microwave Sounding Unit: potential and limitations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2009, , . | 1.7 | 0 |
| 74 | Impact of initial condition uncertainties on the predictability of heavy rainfall in the Mediterranean: a case study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1775-1788. | 2.7 | 44 |
| 75 | Development of precipitation retrievals at millimeter and sub-millimeter wavelengths for geostationary satellites. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 26 |
| 76 | 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 |
| 77 | Verification of Cloud Cover Forecast with Satellite Observation over West Africa. <i>Monthly Weather Review</i> , 2008, 136, 4421-4434. | 1.4 | 42 |
| 78 | A Midlatitude Precipitating Cloud Database Validated with Satellite Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 1337-1353. | 1.5 | 38 |
| 79 | Biogenic nitrogen oxide emissions from soils – impact on NO _x and ozone over West Africa during AMMA (African Monsoon Multidisciplinary Experiment): modelling study. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2351-2363. | 4.9 | 55 |
| 80 | Radiative Transfer Simulations Using Mesoscale Cloud Model Outputs: Comparisons with Passive Microwave and Infrared Satellite Observations for Midlatitudes. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 1550-1568. | 1.7 | 42 |
| 81 | Diurnal cycle of dust and cirrus over West Africa as seen from Meteosat Second Generation satellite and a regional forecast model. <i>Geophysical Research Letters</i> , 2007, 34, . | 4.0 | 65 |
| 82 | A numerical study of tropical cross-tropopause transport by convective overshoots. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1731-1740. | 4.9 | 101 |
| 83 | Information Content of Millimeter-Wave Observations for Hydrometeor Properties in Mid-Latitudes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 2287-2299. | 6.3 | 9 |
| 84 | 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 |
| 85 | Airborne observations of the impact of a convective system on the planetary boundary layer thermodynamics and aerosol distribution in the inter-tropical discontinuity region of the West African Monsoon. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1175-1189. | 2.7 | 143 |
| 86 | Validation of a cirrus parameterization with Meteosat Second Generation observations. <i>Geophysical Research Letters</i> , 2006, 33, . | 4.0 | 41 |
| 87 | 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 |
| 88 | Model predicted low-level cloud parameters. <i>Atmospheric Research</i> , 2006, 82, 83-101. | 4.1 | 9 |
| 89 | Model predicted low-level cloud parameters. <i>Atmospheric Research</i> , 2006, 82, 55-82. | 4.1 | 9 |
| 90 | Regional lightning NO _x sources during the TROCCINOX experiment. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5559-5572. | 4.9 | 18 |

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| 91 | A generalization of CAPE into potential-energy convertibility. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 861-875. | 2.7 | 27 |
| 92 | Statistical representation of clouds in a regional model and the impact on the diurnal cycle of convection during Tropical Convection, Cirrus and Nitrogen Oxides (TROCCINOX). Journal of Geophysical Research, 2005, 110, . | 3.3 | 58 |
| 93 | The simulation of the diurnal cycle of convective precipitation over land in a global model. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3119-3137. | 2.7 | 242 |
| 94 | The role of stability and moisture in the diurnal cycle of convection over land. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3105-3117. | 2.7 | 79 |
| 95 | Modelling the diurnal cycle of deep precipitating convection over land with cloud-resolving models and single-column models. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3139-3172. | 2.7 | 212 |
| 96 | Modeling of passive microwave responses in convective situations using output from mesoscale models: Comparison with TRMM/TMI satellite observations. Journal of Geophysical Research, 2004, 109, n/a-n/a. | 3.3 | 36 |
| 97 | Gravity waves over the eastern Alps: A synopsis of the 25 October 1999 event (IOP 10) combining <i>in situ</i> and remote-sensing measurements with a high-resolution simulation. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 777-797. | 2.7 | 10 |
| 98 | Observed variability of North Atlantic oceanic precipitating systems during winter. Journal of Geophysical Research, 2003, 108, . | 3.3 | 4 |
| 99 | Mesoscale model cloud scheme assessment using satellite observations. Journal of Geophysical Research, 2002, 107, AAC 8-1. | 3.3 | 42 |
| 100 | A Simple Cloud Parameterization Derived from Cloud Resolving Model Data: Diagnostic and Prognostic Applications. Journals of the Atmospheric Sciences, 2002, 59, 2362-2372. | 1.7 | 59 |
| 101 | Large-scale cloud, precipitation, and upper level features during Fronts and Atlantic Storm Track Experiment as inferred from TIROS-N Operational Vertical Sounder observations. Journal of Geophysical Research, 2001, 106, 17293-17302. | 3.3 | 3 |
| 102 | CCN sensitivity of a warm precipitation event over fine scale orography with an advanced microphysical scheme. Atmospheric Research, 2001, 59-60, 419-446. | 4.1 | 5 |
| 103 | Evaluation of a cloud system life-cycle simulated by the Meso-NH model during FASTEX using METEOSAT radiances and TOVS cloud retrievals. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1735-1750. | 2.7 | 13 |
| 104 | Evaluation of a cloud system life-cycle simulated by the Meso-NH model during FASTEX using METEOSAT radiances and TOVS cloud retrievals. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1735-1750. | 2.7 | 46 |
| 105 | Frontogenesis and the development of secondary wave cyclones in FASTEX. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 925-940. | 2.7 | 24 |
| 106 | Characteristics of the TOVS Pathfinder Path-B Dataset. Bulletin of the American Meteorological Society, 1999, 80, 2679-2701. | 3.3 | 86 |
| 107 | Frontogenesis and the development of secondary wave cyclones in FASTEX. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 925-940. | 2.7 | 0 |
| 108 | Remote sensing of the vertical distribution of atmospheric water vapor from the TOVS observations: Method and validation. Journal of Geophysical Research, 1998, 103, 8743-8752. | 3.3 | 53 |

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| 109 | Relationship between sea surface temperature, vertical dynamics, and the vertical distribution of atmospheric water vapor inferred from TOVS observations. <i>Journal of Geophysical Research</i> , 1998, 103, 23173-23180. | 3.3 | 12 |
| 110 | Two case studies of severe storms in the Mediterranean using AMSU. <i>Advances in Geosciences</i> , 0, 12, 19-26. | 12.0 | 3 |
| 111 | Objective evaluation of mesoscale simulations of the Algiers 2001 flash flood by the model-to-satellite approach. <i>Advances in Geosciences</i> , 0, 7, 247-250. | 12.0 | 10 |
| 112 | High resolution numerical study of the Algiers 2001 flash flood: sensitivity to the upper-level potential vorticity anomaly. <i>Advances in Geosciences</i> , 0, 7, 251-257. | 12.0 | 21 |
| 113 | A meandering polar jet caused the development of a Saharan cyclone and the transport of dust toward Greenland. <i>Advances in Science and Research</i> , 0, 16, 49-56. | 1.0 | 16 |
| 114 | Mediterranean cloud system variability inferred from satellite observations. <i>Advances in Geosciences</i> , 0, 7, 243-246. | 12.0 | 1 |