# Masaki Satoh

List of Publications by Year
in descending order

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| 231 | 9,995 | 41344 | 42399 |
|---|---|---|---|
| papers | citations | 49 h-index | 92 g-index |

| 262 | 262 | 262 | 6633 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | High Resolution Model Intercomparison Project (HighResMIPÂv1.0) for CMIP6. Geoscientific Model Development, 2016, 9, 4185-4208. | 3.6 | 643 |
| 2 | Tropical Cyclones and Climate Change Assessment: Part II: Projected Response to Anthropogenic Warming. Bulletin of the American Meteorological Society, 2020, 101, E303-E322. | 3.3 | 573 |
| 3 | Nonhydrostatic icosahedral atmospheric model (NICAM) for global cloud resolving simulations. Journal of Computational Physics, 2008, 227, 3486-3514. | 3.8 | 548 |
| 4 | The EarthCARE Satellite: The Next Step Forward in Global Measurements of Clouds, Aerosols, Precipitation, and Radiation. Bulletin of the American Meteorological Society, 2015, 96, 1311-1332. | 3.3 | 443 |
| 5 | A new dynamical framework of nonhydrostatic global model using the icosahedral grid. Fluid Dynamics Research, 2004, 34, 357-400. | 1.3 | 351 |
| 6 | Tropical Cyclones and Climate Change Assessment: Part I: Detection and Attribution. Bulletin of the American Meteorological Society, 2019, 100, 1987-2007. | 3.3 | 326 |
| 7 | A Madden-Julian Oscillation Event Realistically Simulated by a Global Cloud-Resolving Model. Science, 2007, 318, 1763-1765. | 12.6 | 315 |
| 8 | The Non-hydrostatic Icosahedral Atmospheric Model: description and development. Progress in Earth and Planetary Science, 2014, 1, . | 3.0 | 274 |
| 9 | DYAMOND: the DYnamics of the Atmospheric general circulation Modeled On Non-hydrostatic Domains. Progress in Earth and Planetary Science, 2019, 6, . | 3.0 | 239 |
| 10 | Diurnal Cycle of Precipitation in the Tropics Simulated in a Global Cloud-Resolving Model. Journal of Climate, 2009, 22, 4809-4826. | 3.2 | 214 |
| 11 | A global cloud-resolving simulation: Preliminary results from an aqua planet experiment. Geophysical Research Letters, 2005, 32, . | 4.0 | 193 |
| 12 | Simulating the diurnal cycle of rainfall in global climate models: resolution versus parameterization. Climate Dynamics, 2012, 39, 399-418. | 3.8 | 190 |
| 13 | Relative humidity changes in a warmer climate. Journal of Geophysical Research, 2010, 115, . | 3.3 | 185 |
| 14 | Shallow Water Model on a Modified Icosahedral Geodesic Grid by Using Spring Dynamics. Journal of Computational Physics, 2001, 174, 579-613. | 3.8 | 171 |
| 15 | Global Cloud-Resolving Models. Current Climate Change Reports, 2019, 5, 172-184. | 8.6 | 164 |
| 16 | TransCom model simulations of hourly atmospheric CO<sub>2</sub>: Experimental overview and diurnal cycle results for 2002. Global Biogeochemical Cycles, 2008, 22, . | 4.9 | 142 |
| 17 | Radiativeâ€“convective equilibrium model intercomparison project. Geoscientific Model Development, 2018, 11, 793-813. | 3.6 | 127 |
| 18 | TransCom model simulations of hourly atmospheric CO<sub>2</sub>: Analysis of synopticâ€scale variations for the period 2002â€“2003. Global Biogeochemical Cycles, 2008, 22, . | 4.9 | 119 |

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| 19 | The Benefits of Global High Resolution for Climate Simulation: Process Understanding and the Enabling of Stakeholder Decisions at the Regional Scale. Bulletin of the American Meteorological Society, 2018, 99, 2341-2359. | 3.3 | 107 |
| 20 | A 20-Year Climatology of a NICAM AMIP-Type Simulation. Journal of the Meteorological Society of Japan, 2015, 93, 393-424. | 1.8 | 104 |
| 21 | Importance of the subgrid-scale turbulent moist process: Cloud distribution in global cloud-resolving simulations. Atmospheric Research, 2010, 96, 208-217. | 4.1 | 100 |
| 22 | Maddenâ€“Julian Oscillation prediction skill of a new-generation global model demonstrated using a supercomputer. Nature Communications, 2014, 5, 3769. | 12.8 | 97 |
| 23 | Response of Tropical Cyclone Activity and Structure to Global Warming in a High-Resolution Global Nonhydrostatic Model. Journal of Climate, 2017, 30, 9703-9724. | 3.2 | 92 |
| 24 | Clouds and Convective Selfâ€Aggregation in a Multimodel Ensemble of Radiativeâ€Convective Equilibrium Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002138. | 3.8 | 86 |
| 25 | An Optimization of the Icosahedral Grid Modified by Spring Dynamics. Journal of Computational Physics, 2002, 183, 307-331. | 3.8 | 81 |
| 26 | Evaluating cloud microphysics from NICAM against CloudSat and CALIPSO. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7273-7292. | 3.3 | 79 |
| 27 | Imposing strong constraints on tropical terrestrial CO2fluxes using passenger aircraft based measurements. Journal of Geophysical Research, 2012, 117, n/a-n/a. | 3.3 | 75 |
| 28 | Revolutionizing Climate Modeling with Project Athena: A Multi-Institutional, International Collaboration. Bulletin of the American Meteorological Society, 2013, 94, 231-245. | 3.3 | 75 |
| 29 | A joint satellite and global cloudâ€resolving model analysis of a Maddenâ€Julian Oscillation event: Model diagnosis. Journal of Geophysical Research, 2008, 113, . | 3.3 | 73 |
| 30 | Conservative Scheme for the Compressible Nonhydrostatic Models with the Horizontally Explicit and Vertically Implicit Time Integration Scheme. Monthly Weather Review, 2002, 130, 1227-1245. | 1.4 | 67 |
| 31 | Seasonal and Intraseasonal Modulation of Tropical Cyclogenesis Environment over the Bay of Bengal during the Extended Summer Monsoon. Journal of Climate, 2012, 25, 2914-2930. | 3.2 | 67 |
| 32 | A climate sensitivity test using a global cloud resolving model under an aqua planet condition. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 65 |
| 33 | Hadley Circulations in Radiativeâ€“Convective Equilibrium in an Axially Symmetric Atmosphere. Journals of the Atmospheric Sciences, 1994, 51, 1947-1968. | 1.7 | 64 |
| 34 | The Aqua-Planet Experiment (APE): CONTROL SST Simulation. Journal of the Meteorological Society of Japan, 2013, 91A, 17-56. | 1.8 | 64 |
| 35 | Projection of changes in tropical cyclone activity and cloud height due to greenhouse warming: Global cloudâ€systemâ€resolving approach. Geophysical Research Letters, 2010, 37, . | 4.0 | 63 |
| 36 | Model depiction of the atmospheric flows of radioactive cesium emitted from the Fukushima Daiichi Nuclear Power Station accident. Progress in Earth and Planetary Science, 2017, 4, . | 3.0 | 63 |

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| 37 | Global cloudâ€systemâ€resolving model NICAM successfully simulated the lifecycles of two real tropical cyclones. Geophysical Research Letters, 2008, 35, . | 4.0 | 61 |
| 38 | Evaluations of cloud properties of global and local cloud system resolving models using CALIPSO and CloudSat simulators. Journal of Geophysical Research, 2010, 115, . | 3.3 | 60 |
| 39 | Characteristics of Cloud Size of Deep Convection Simulated by a Global Cloud Resolving Model over the Western Tropical Pacific. Journal of the Meteorological Society of Japan, 2008, 86A, 1-15. | 1.8 | 59 |
| 40 | A PDF-based hybrid prognostic cloud scheme for general circulation models. Climate Dynamics, 2009, 33, 795-816. | 3.8 | 59 |
| 41 | Multiscale Organization of Convection Simulated with Explicit Cloud Processes on an Aquaplanet. Journals of the Atmospheric Sciences, 2007, 64, 1902-1921. | 1.7 | 58 |
| 42 | Global cloudâ€systemâ€resolving simulation of aerosol effect on warm clouds. Geophysical Research Letters, 2008, 35, . | 4.0 | 58 |
| 43 | Diurnal Convection Peaks over the Eastern Indian Ocean off Sumatra during Different MJO Phases. Journal of the Meteorological Society of Japan, 2011, 89A, 317-330. | 1.8 | 58 |
| 44 | Evaluation of Precipitating Hydrometeor Parameterizations in a Single-Moment Bulk Microphysics Scheme for Deep Convective Systems over the Tropical Central Pacific. Journals of the Atmospheric Sciences, 2014, 71, 2654-2673. | 1.7 | 57 |
| 45 | Resolution Dependency of the Diurnal Cycle of Convective Clouds over the Tibetan Plateau in a Mesoscale Model. Journal of the Meteorological Society of Japan, 2008, 86A, 17-31. | 1.8 | 57 |
| 46 | A multi-instrument comparison of integrated water vapour measurements at a high latitude site. Atmospheric Chemistry and Physics, 2012, 12, 10925-10943. | 4.9 | 55 |
| 47 | On the Landâ€“Ocean Contrast of Tropical Convection and Microphysics Statistics Derived from TRMM Satellite Signals and Global Storm-Resolving Models. Journal of Hydrometeorology, 2016, 17, 1425-1445. | 1.9 | 54 |
| 48 | An MJO Simulated by the NICAM at 14- and 7-km Resolutions. Monthly Weather Review, 2009, 137, 3254-3268. | 1.4 | 53 |
| 49 | Intraseasonal variability and tropical cyclogenesis in the western North Pacific simulated by a global nonhydrostatic atmospheric model. Geophysical Research Letters, 2015, 42, 565-571. | 4.0 | 53 |
| 50 | A Three-Dimensional Icosahedral Grid Advection Scheme Preserving Monotonicity and Consistency with Continuity for Atmospheric Tracer Transport. Journal of the Meteorological Society of Japan, 2011, 89, 255-268. | 1.8 | 53 |
| 51 | On the Warm Core of a Tropical Cyclone Formed near the Tropopause. Journals of the Atmospheric Sciences, 2015, 72, 551-571. | 1.7 | 51 |
| 52 | The Intra-Seasonal Oscillation and its control of tropical cyclones simulated by high-resolution global atmospheric models. Climate Dynamics, 2012, 39, 2185-2206. | 3.8 | 50 |
| 53 | A short-duration global cloud-resolving simulation with a realistic land and sea distribution. Geophysical Research Letters, 2007, 34, . | 4.0 | 49 |
| 54 | An assessment of the cloud signals simulated by NICAM using ISCCP, CALIPSO, and CloudSat satellite simulators. Journal of Geophysical Research, 2012, 117, . | 3.3 | 49 |

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| 55 | Asian summer monsoon simulated by a global cloudâ€systemâ€resolving model: Diurnal to intraâ€seasonal variability. Geophysical Research Letters, 2009, 36, . | 4.0 | 42 |
| 56 | Convective Momentum Transport by Rainbands within a Maddenâ€“Julian Oscillation in a Global Nonhydrostatic Model with Explicit Deep Convective Processes. Part I: Methodology and General Results. Journals of the Atmospheric Sciences, 2012, 69, 1317-1338. | 1.7 | 42 |
| 57 | Three-dimensional variations of atmospheric CO<sub>2</sub>: aircraft measurements and multi-transport model simulations. Atmospheric Chemistry and Physics, 2011, 11, 13359-13375. | 4.9 | 41 |
| 58 | Predictability Aspects of Global Aqua-planet Simulations with Explicit Convection. Journal of the Meteorological Society of Japan, 2008, 86A, 175-185. | 1.8 | 40 |
| 59 | Response of Upper Clouds in Global Warming Experiments Obtained Using a Global Nonhydrostatic Model with Explicit Cloud Processes. Journal of Climate, 2012, 25, 2178-2191. | 3.2 | 40 |
| 60 | Conservative Scheme for a Compressible Nonhydrostatic Model with Moist Processes. Monthly Weather Review, 2003, 131, 1033-1050. | 1.4 | 38 |
| 61 | A Simulated Preconditioning of Typhoon Genesis Controlled by a Boreal Summer Madden-Julian Oscillation Event in a Global Cloud-system-resolving Model. Scientific Online Letters on the Atmosphere, 2009, 5, 65-68. | 1.4 | 38 |
| 62 | Constraint on Future Change in Global Frequency of Tropical Cyclones due to Global Warming. Journal of the Meteorological Society of Japan, 2015, 93, 489-500. | 1.8 | 37 |
| 63 | Improvement in Global Cloud-System-Resolving Simulations by Using a Double-Moment Bulk Cloud Microphysics Scheme. Journal of Climate, 2015, 28, 2405-2419. | 3.2 | 37 |
| 64 | Improvement of a Cloud Microphysics Scheme for a Global Nonhydrostatic Model Using TRMM and a Satellite Simulator. Journals of the Atmospheric Sciences, 2017, 74, 167-184. | 1.7 | 37 |
| 65 | High cloud increase in a perturbed SST experiment with a global nonhydrostatic model including explicit convective processes. Journal of Advances in Modeling Earth Systems, 2014, 6, 571-585. | 3.8 | 35 |
| 66 | Impact of different definitions of clear-sky flux on the determination of longwave cloud radiative forcing: NICAM simulation results. Atmospheric Chemistry and Physics, 2010, 10, 11641-11646. | 4.9 | 34 |
| 67 | The Aqua-Planet Experiment (APE): Response to Changed Meridional SST Profile. Journal of the Meteorological Society of Japan, 2013, 91A, 57-89. | 1.8 | 34 |
| 68 | Comparison of highâ€level clouds represented in a global cloud systemâ€“resolving model with CALIPSO/CloudSat and geostationary satellite observations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 33 |
| 69 | Quantitative Assessment of Diurnal Variation of Tropical Convection Simulated by a Global Nonhydrostatic Model without Cumulus Parameterization. Journal of Climate, 2012, 25, 5119-5134. | 3.2 | 33 |
| 70 | Application of a global nonhydrostatic model with a stretched-grid system to regional aerosol simulations around Japan. Geoscientific Model Development, 2015, 8, 235-259. | 3.6 | 33 |
| 71 | Multi-scale Organization of Convection in a Global Numerical Simulation of the December 2006 MJO Event Using Explicit Moist Processes. Journal of the Meteorological Society of Japan, 2009, 87, 335-345. | 1.8 | 33 |
| 72 | Future Changes in the Global Frequency of Tropical Cyclone Seeds. Scientific Online Letters on the Atmosphere, 2020, 16, 70-74. | 1.4 | 33 |

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| 73 | Evaluation of the contribution of tropical cyclone seeds to changes in tropical cyclone frequency due to global warming in high-resolution multi-model ensemble simulations. Progress in Earth and Planetary Science, 2021, 8, . | 3.0 | 30 |
| 74 | Climatology of a nonhydrostatic global model with explicit cloud processes. Geophysical Research Letters, 2007, 34, . | 4.0 | 29 |
| 75 | Convectively Coupled Equatorial Waves Simulated on an Aquaplanet in a Global Nonhydrostatic Experiment. Journals of the Atmospheric Sciences, 2008, 65, 1246-1265. | 1.7 | 29 |
| 76 | Statistics on High-Cloud Areas and Their Sensitivities to Cloud Microphysics Using Single-Cloud Experiments. Journals of the Atmospheric Sciences, 2009, 66, 2659-2677. | 1.7 | 28 |
| 77 | Toward reduction of the uncertainties in climate sensitivity due to cloud processes using a global non-hydrostatic atmospheric model. Progress in Earth and Planetary Science, 2018, 5, . | 3.0 | 28 |
| 78 | The Nonhydrostatic ICosahedral Atmospheric Model for CMIP6 HighResMIP simulations (NICAM16-S): experimental design, model description, and impacts of model updates. Geoscientific Model Development, 2021, 14, 795-820. | 3.6 | 28 |
| 79 | Tropical Cyclones in Global Storm-Resolving Models. Journal of the Meteorological Society of Japan, 2021, 99, 579-602. | 1.8 | 28 |
| 80 | Vertical grid spacing necessary for simulating tropical cirrus clouds with a highâ€resolution atmospheric general circulation model. Geophysical Research Letters, 2015, 42, 4150-4157. | 4.0 | 27 |
| 81 | A 4D-Var inversion system based on the icosahedral grid model (NICAM-TM 4D-Var v1.0) â€“ PartÂ2: Optimization scheme and identical twin experiment of atmospheric CO<sub>2</sub> inversion. Geoscientific Model Development, 2017, 10, 2201-2219. | 3.6 | 27 |
| 82 | A 4D-Var inversion system based on the icosahedral grid model (NICAM-TM 4D-Var v1.0) â€“ Part 1: Offline forward and adjoint transport models. Geoscientific Model Development, 2017, 10, 1157-1174. | 3.6 | 27 |
| 83 | Roles of Cloud Microphysics on Cloud Responses to Sea Surface Temperatures in Radiativeâ€Convective Equilibrium Experiments Using a Highâ€Resolution Global Nonhydrostatic Model. Journal of Advances in Modeling Earth Systems, 2018, 10, 1970-1989. | 3.8 | 27 |
| 84 | Evaluating Arctic cloud radiative effects simulated by NICAM with Aâ€train. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7041-7063. | 3.3 | 26 |
| 85 | Predictability of Record-Breaking Rainfall in Japan in July 2018: Ensemble Forecast Experiments with the Near-Real-Time Global Atmospheric Data Assimilation System NEXRA. Scientific Online Letters on the Atmosphere, 2019, 15A, 1-7. | 1.4 | 26 |
| 86 | Simple Cumulus Models in One-Dimensional Radiative Convective Equilibrium Problems. Journals of the Atmospheric Sciences, 1992, 49, 1202-1220. | 1.7 | 25 |
| 87 | The Genesis of Tropical Cyclone Nargis (2008): Environmental Modulation and Numerical Predictability. Journal of the Meteorological Society of Japan, 2010, 88, 497-519. | 1.8 | 25 |
| 88 | Comparison of Explicitly Simulated and Downscaled Tropical Cyclone Activity in a Highâ€Resolution Global Climate Model. Journal of Advances in Modeling Earth Systems, 2010, 2, . | 3.8 | 25 |
| 89 | Characteristics of the Kinetic Energy Spectrum of NICAM Model Atmosphere. Scientific Online Letters on the Atmosphere, 2009, 5, 180-183. | 1.4 | 24 |
| 90 | Spontaneous onset of a Maddenâ€Julian oscillation event in a cloudâ€systemâ€resolving simulation. Geophysical Research Letters, 2009, 36, . | 4.0 | 23 |

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| 91 | Outcomes and challenges of global high-resolution non-hydrostatic atmospheric simulations using the K computer. Progress in Earth and Planetary Science, 2017, 4, . | 3.0 | 23 |
| 92 | Fine Vertical Resolution Radiativeâ€Convective Equilibrium Experiments: Roles of Turbulent Mixing on the Highâ€Cloud Response to Sea Surface Temperatures. Journal of Advances in Modeling Earth Systems, 2019, 11, 1637-1654. | 3.8 | 23 |
| 93 | Ensemble Simulation of Cyclone Nargis by a Global Cloud-System-Resolving Model-Modulation of Cyclogenesis by the Madden-Julian Oscillation. Journal of the Meteorological Society of Japan, 2010, 88, 571-591. | 1.8 | 23 |
| 94 | A New Approach to Atmospheric General Circulation Model: Global Cloud Resolving Model NICAM and its Computational Performance. SIAM Journal of Scientific Computing, 2008, 30, 2755-2776. | 2.8 | 22 |
| 95 | Precipitation Efficiency and its Role in Cloud-Radiative Feedbacks to Climate Variability. Journal of the Meteorological Society of Japan, 2020, 98, 261-282. | 1.8 | 22 |
| 96 | Current Understanding and Quantification of Clouds in the Changing Climate System and Strategies for Reducing Critical Uncertainties. , 2009, , 557-574. | | 22 |
| 97 | Multiscale Interactions in the Life Cycle of a Tropical Cyclone Simulated in a Global Cloud-System-Resolving Model. Part II: System-Scale and Mesoscale Processes*. Monthly Weather Review, 2010, 138, 4305-4327. | 1.4 | 21 |
| 98 | Response of Ice and Liquid Water Paths of Tropical Cyclones to Global Warming Simulated by a Global Nonhydrostatic Model with Explicit Cloud Microphysics. Journal of Climate, 2013, 26, 9931-9945. | 3.2 | 21 |
| 99 | Simultaneous evaluation of ice cloud microphysics and nonsphericity of the cloud optical properties using hydrometeor video sonde and radiometer sonde in situ observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6681-6701. | 3.3 | 21 |
| 100 | High Cloud Responses to Global Warming Simulated by Two Different Cloud Microphysics Schemes Implemented in the Nonhydrostatic Icosahedral Atmospheric Model (NICAM). Journal of Climate, 2016, 29, 5949-5964. | 3.2 | 21 |
| 101 | Spring diurnal cycle of clouds over Tibetan Plateau: Global cloudâ€resolving simulations and satellite observations. Geophysical Research Letters, 2007, 34, . | 4.0 | 20 |
| 102 | Multiscale Interactions in the Life Cycle of a Tropical Cyclone Simulated in a Global Cloud-System-Resolving Model. Part I: Large-Scale and Storm-Scale Evolutions*. Monthly Weather Review, 2010, 138, 4285-4304. | 1.4 | 20 |
| 103 | Gradient Wind Balance in Tropical Cyclones in High-Resolution Global Experiments. Monthly Weather Review, 2014, 142, 1908-1926. | 1.4 | 20 |
| 104 | Evaluation of summertime surface ozone in Kanto area of Japan using a semi-regional model and observation. Atmospheric Environment, 2017, 153, 163-181. | 4.1 | 20 |
| 105 | Online Model Parameter Estimation With Ensemble Data Assimilation in the Real Global Atmosphere: A Case With the Nonhydrostatic Icosahedral Atmospheric Model (NICAM) and the Global Satellite Mapping of Precipitation Data. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7375-7392. | 3.3 | 20 |
| 106 | Responses of Tropical and Subtropical High-Cloud Statistics to Global Warming. Journal of Climate, 2014, 27, 7753-7768. | 3.2 | 19 |
| 107 | Tropical intraseasonal oscillation simulated in an AMIP-type experiment by NICAM. Climate Dynamics, 2017, 48, 2507-2528. | 3.8 | 19 |
| 108 | A Maddenâ€Julian Oscillation event remotely accelerates ocean upwelling to abruptly terminate the 1997/1998 super El NiÃ±o. Geophysical Research Letters, 2017, 44, 9489-9495. | 4.0 | 19 |

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| 109 | A New Perspective for Future Precipitation Change from Intense Extratropical Cyclones. Geophysical Research Letters, 2019, 46, 12435-12444. | 4.0 | 19 |
| 110 | Evaluation of the Tourism Climate Index over Japan in a Future Climate Using a Statistical Downscaling Method. Journal of the Meteorological Society of Japan, 2014, 92, 37-54. | 1.8 | 18 |
| 111 | Intermodel variances of subtropical stratocumulus environments simulated in CMIP5 models. Geophysical Research Letters, 2014, 41, 7754-7761. | 4.0 | 18 |
| 112 | Topographical Effects on Internally Produced MJO-Like Disturbances in an Aqua-Planet Version of NICAM. Scientific Online Letters on the Atmosphere, 2015, 11, 170-176. | 1.4 | 18 |
| 113 | Warm Cores, Eyewall Slopes, and Intensities of Tropical Cyclones Simulated by a 7-km-Mesh Global Nonhydrostatic Model. Journals of the Atmospheric Sciences, 2016, 73, 4289-4309. | 1.7 | 18 |
| 114 | Role of the Vertical Structure of a Simulated Tropical Cyclone in Its Motion: A Case Study of Typhoon Fengshen (2008). Scientific Online Letters on the Atmosphere, 2016, 12, 203-208. | 1.4 | 18 |
| 115 | A 1024-Member Ensemble Data Assimilation with 3.5-Km Mesh Global Weather Simulations. , 2020, , . | | 18 |
| 116 | Sensitivity of Hadley Circulation to Physical Parameters and Resolution through Changing Upper-Tropospheric Ice Clouds Using a Global Cloud-System Resolving Model. Journal of Climate, 2011, 24, 2666-2679. | 3.2 | 17 |
| 117 | Error and Energy Budget Analysis of a Nonhydrostatic Stretched-Grid Global Atmospheric Model. Monthly Weather Review, 2016, 144, 1423-1447. | 1.4 | 17 |
| 118 | Tropical synoptic-scale wave disturbances over the western Pacific simulated by a global cloud-system resolving model. Theoretical and Applied Climatology, 2016, 124, 737-755. | 2.8 | 17 |
| 119 | Feasibility Study for Future Space-Borne Coherent Doppler Wind Lidar, Part 1: Instrumental Overview for Global Wind Profile Observation. Journal of the Meteorological Society of Japan, 2017, 95, 301-317. | 1.8 | 17 |
| 120 | Initiation Processes of the Tropical Intraseasonal Variability Simulated in an Aquaâ€Planet Experiment: What is the Intrinsic Mechanism for MJO Onset?. Journal of Advances in Modeling Earth Systems, 2018, 10, 1047-1073. | 3.8 | 17 |
| 121 | Mountain-Wave-Like Spurious Waves Associated with Simulated Cold Fronts due to Inconsistencies between Horizontal and Vertical Resolutions. Monthly Weather Review, 2007, 135, 2629-2641. | 1.4 | 15 |
| 122 | Observational Evidence of Mixed Rossbyâ€Gravity Waves as a Driving Force for the MJO Convective Initiation and Propagation. Geophysical Research Letters, 2019, 46, 5546-5555. | 4.0 | 15 |
| 123 | Vertical structure of ice cloud layers from CloudSat and CALIPSO measurements and comparison to NICAM simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9930-9947. | 3.3 | 14 |
| 124 | Numerical Examination of the Diurnal Variation of Summer Precipitation over Southern China. Scientific Online Letters on the Atmosphere, 2013, 9, 129-133. | 1.4 | 14 |
| 125 | Rapid development of arctic cyclone in June 2008 simulated by the cloud resolving global model NICAM. Meteorology and Atmospheric Physics, 2014, 126, 105-117. | 2.0 | 14 |
| 126 | Impact of Precipitating Ice Hydrometeors on Longwave Radiative Effect Estimated by a Global Cloudâ€System Resolving Model. Journal of Advances in Modeling Earth Systems, 2018, 10, 284-296. | 3.8 | 14 |

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| 127 | Responses of Clouds and Largeâ€Scale Circulation to Global Warming Evaluated From Multidecadal Simulations Using a Global Nonhydrostatic Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2980-2995. | 3.8 | 14 |
| 128 | Precipitation Statistics Comparison Between Global Cloud Resolving Simulation with NICAM and TRMM PR Data. , 2008, , 99-112. | | 14 |
| 129 | Evaluations of the Thermodynamic Phases of Clouds in a Cloud-System-Resolving Model Using CALIPSO and a Satellite Simulator over the Southern Ocean. Journals of the Atmospheric Sciences, 2020, 77, 3781-3801. | 1.7 | 14 |
| 130 | Eastward-Propagating Property of Large-Scale Precipitation Systems Simulated in the Coarse-Resolution NICAM and an Explanation of its Appearance. Scientific Online Letters on the Atmosphere, 2012, 8, 21-24. | 1.4 | 13 |
| 131 | Impact of the sea surface temperature rise on stormâ€track clouds in global nonhydrostatic aqua planet simulations. Geophysical Research Letters, 2014, 41, 3545-3552. | 4.0 | 13 |
| 132 | Highâ€Resolution Ensemble Simulations of Intense Tropical Cyclones and Their Internal Variability During the El NiÃ±os of 1997 and 2015. Geophysical Research Letters, 2019, 46, 7592-7601. | 4.0 | 13 |
| 133 | Assessments of Doppler Velocity Errors of EarthCARE Cloud Profiling Radar Using Global Cloud System Resolving Simulations: Effects of Doppler Broadening and Folding. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9. | 6.3 | 13 |
| 134 | Cloud Assumption of Precipitation Retrieval Algorithms for the Dual-Frequency Precipitation Radar. Journal of Atmospheric and Oceanic Technology, 2020, 37, 2015-2031. | 1.3 | 13 |
| 135 | Properties of Precipitation and In-Cloud Vertical Motion in a Global Nonhydrostatic Aquaplanet Experiment. Journal of the Meteorological Society of Japan, 2011, 89, 413-439. | 1.8 | 13 |
| 136 | Cold and Warm Rain Simulated Using a Global Nonhydrostatic Model without Cumulus Parameterization, and their Responses to Global Warming. Journal of the Meteorological Society of Japan, 2015, 93, 181-197. | 1.8 | 12 |
| 137 | High cloud size dependency in the applicability of the fixed anvil temperature hypothesis using global nonhydrostatic simulations. Geophysical Research Letters, 2016, 43, 2307-2314. | 4.0 | 12 |
| 138 | Intercomparison of Cloud Properties in DYAMOND Simulations over the Atlantic Ocean. Journal of the Meteorological Society of Japan, 2021, 99, 1439-1451. | 1.8 | 12 |
| 139 | Impact of Lateral Boundary Errors on the Simulation of Clouds with a Nonhydrostatic Regional Climate Model. Monthly Weather Review, 2017, 145, 5059-5082. | 1.4 | 11 |
| 140 | Extension of a Multisensor Satellite Radiance-Based Evaluation for Cloud System Resolving Models. Journal of the Meteorological Society of Japan, 2018, 96, 55-63. | 1.8 | 10 |
| 141 | An Accurate Semi-Lagrangian Scheme for Raindrop Sedimentation. Monthly Weather Review, 2003, 131, 974-983. | 1.4 | 9 |
| 142 | Coarse-Resolution Models Only Partly Cloudy. Science, 2008, 320, 612-613. | 12.6 | 9 |
| 143 | Genesis of Super Cyclone Pam (2015): Modulation of Low-Frequency Large-Scale Circulations and the Maddenâ€“Julian Oscillation by Sea Surface Temperature Anomalies. Monthly Weather Review, 2017, 145, 3143-3159. | 1.4 | 9 |
| 144 | Feasibility Study for Future Spaceborne Coherent Doppler Wind Lidar, Part 2: Measurement Simulation Algorithms and Retrieval Error Characterization. Journal of the Meteorological Society of Japan, 2017, 95, 319-342. | 1.8 | 9 |

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| 146 | Continual influences of tropical waves on the genesis and rapid intensification of Typhoon Durian (2006). Geophysical Research Letters, 2010, 37, . | 4.0 | 8 |
| 147 | Measurement Performance Assessment of Future Space-Borne Doppler Wind Lidar for Numerical Weather Prediction. Scientific Online Letters on the Atmosphere, 2016, 12, 55-59. | 1.4 | 8 |
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