

# CITATION REPORT

List of articles citing

Marine boundary layer clouds at the heart of tropical cloud feedback uncertainties in climate models

DOI: 10.1029/2005gl023851

Geophysical Research Letters, 2005, 32, .

**Source:** <https://exaly.com/paper-pdf/39439329/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
897	Hydrometeorological hazards under future climate change. 151-189		3
896	Climate sensitivity and cloud response of a GCM with a superparameterization. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	61
895	How Well Do We Understand and Evaluate Climate Change Feedback Processes?. <i>Journal of Climate</i> , <b>2006</b> , 19, 3445-3482	4.4	748
894	On the Relationship between Stratiform Low Cloud Cover and Lower-Tropospheric Stability. <i>Journal of Climate</i> , <b>2006</b> , 19, 6425-6432	4.4	362
893	22 views of the global albedo comparison between 20 GCMs and two satellites. <b>2006</b> , 58, 320-330		54
892	On the contribution of local feedback mechanisms to the range of climate sensitivity in two GCM ensembles. <i>Climate Dynamics</i> , <b>2006</b> , 27, 17-38	4.2	302
891	The LMDZ4 general circulation model: climate performance and sensitivity to parametrized physics with emphasis on tropical convection. <i>Climate Dynamics</i> , <b>2006</b> , 27, 787-813	4.2	709
890	An Assessment of Climate Feedbacks in Coupled Ocean-Atmosphere Models. <i>Journal of Climate</i> , <b>2006</b> , 19, 3354-3360	4.4	751
889	Global Warming and the Weakening of the Tropical Circulation. <i>Journal of Climate</i> , <b>2007</b> , 20, 4316-4340	4.4	905
888	Processes Controlling the Mean Tropical Pacific Precipitation Pattern. Part II: The SPCZ and the Southeast Pacific Dry Zone. <i>Journal of Climate</i> , <b>2007</b> , 20, 5696-5706	4.4	78
887	On the Growth of Layers of Nonprecipitating Cumulus Convection. <i>Journals of the Atmospheric Sciences</i> , <b>2007</b> , 64, 2916-2931	2.1	113
886	Low-Level Cloud Variability over the Equatorial Cold Tongue in Observations and Models. <i>Journal of Climate</i> , <b>2007</b> , 20, 1555-1570	4.4	19
885	The Met Office Hadley Centre climate modelling capability: the competing requirements for improved resolution, complexity and dealing with uncertainty. <b>2007</b> , 365, 2635-57		23
884	Radiation budget estimates over Africa and surrounding oceans: inter-annual comparisons. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 2617-2629	6.8	1
883	A methodology for probabilistic predictions of regional climate change from perturbed physics ensembles. <b>2007</b> , 365, 1993-2028		239
882	Cloud-fraction-dependent bias in satellite liquid water path retrievals of shallow, non-precipitating marine clouds. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	26
881	Climatology of a nonhydrostatic global model with explicit cloud processes. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	25

880	The Three-Dimensional Structure and Kinematics of Drizzling Stratocumulus. <b>2007</b> , 135, 3767-3784		56
879	Cloud top height comparisons from ASTER, MISR, and MODIS for trade wind cumuli. <b>2007</b> , 107, 211-222		36
878	GCM intercomparison of global cloud regimes: present-day evaluation and climate change response. <i>Climate Dynamics</i> , <b>2007</b> , 29, 231-250	4.2	107
877	Coupled model simulations of climate changes in the 20th century and beyond. <b>2008</b> , 25, 641-654		39
876	Towards constraining climate sensitivity by linear analysis of feedback patterns in thousands of perturbed-physics GCM simulations. <i>Climate Dynamics</i> , <b>2008</b> , 30, 175-190	4.2	159
875	The variation of ENSO characteristics associated with atmospheric parameter perturbations in a coupled model. <i>Climate Dynamics</i> , <b>2008</b> , 30, 643-656	4.2	29
874	Cloud radiative forcing of subtropical low level clouds in global models. <i>Climate Dynamics</i> , <b>2008</b> , 30, 779-788		37
873	Comparison of equilibrium and transient responses to CO2 increase in eight state-of-the-art climate models. <b>2008</b> , 60, 946-961		22
872	Evaluating the present-day simulation of clouds, precipitation, and radiation in climate models. <b>2008</b> , 113,		153
871	Uncertainties attached to global or local climate changes. <b>2008</b> , 340, 584-590		7
870	Use of CALIPSO lidar observations to evaluate the cloudiness simulated by a climate model. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	156
869	Dependency of global mean precipitation on surface temperature. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	87
868	Comparison of marine stratocumulus cloud top heights in the southeastern Pacific retrieved from satellites with coincident ship-based observations. <b>2008</b> , 113,		72
867	An Assessment of the Primary Sources of Spread of Global Warming Estimates from Coupled Atmosphere-Ocean Models. <i>Journal of Climate</i> , <b>2008</b> , 21, 5135-5144	4.4	323
866	The Vertical Structure of Cloud Occurrence and Radiative Forcing at the SGP ARM Site as Revealed by 8 Years of Continuous Data. <i>Journal of Climate</i> , <b>2008</b> , 21, 2591-2610	4.4	46
865	Aquaplanets, Climate Sensitivity, and Low Clouds. <i>Journal of Climate</i> , <b>2008</b> , 21, 4974-4991	4.4	147
864	Cloud Liquid Water Path from Satellite-Based Passive Microwave Observations: A New Climatology over the Global Oceans. <i>Journal of Climate</i> , <b>2008</b> , 21, 1721-1739	4.4	178
863	Mechanisms of Low Cloud Climate Feedback in Idealized Single-Column Simulations with the Community Atmospheric Model, Version 3 (CAM3). <i>Journal of Climate</i> , <b>2008</b> , 21, 4859-4878	4.4	51

862	Statistical Analyses of Satellite Cloud Object Data from CERES. Part IV: Boundary Layer Cloud Objects during 1998 El Niño. <i>Journal of Climate</i> , <b>2008</b> , 21, 1500-1521	4.4	21
861	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. <i>Journal of Climate</i> , <b>2008</b> , 21, 4955-4973	4.4	39
860	Erroneous Relationships among Humidity and Cloud Forcing Variables in Three Global Climate Models. <i>Journal of Climate</i> , <b>2008</b> , 21, 4190-4206	4.4	7
859	Statistical Analyses of Satellite Cloud Object Data from CERES. Part V: Relationships between Physical Properties of Marine Boundary Layer Clouds. <i>Journal of Climate</i> , <b>2008</b> , 21, 6668-6688	4.4	20
858	Dependence of cloud properties derived from spectrally resolved visible satellite observations on surface temperature. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2299-2312	6.8	15
857	Simulation of Boundary-Layer Cumulus and Stratocumulus Clouds Using a Cloud-Resolving Model with Low-and Third-order Turbulence Closures. <b>2008</b> , 86A, 67-86		34
856	Large-Eddy Simulations of a Drizzling, Stratocumulus-Topped Marine Boundary Layer. <b>2009</b> , 137, 1083-1110		168
855	The Global Hydrological Cycle and Atmospheric Shortwave Absorption in Climate Models under CO <sub>2</sub> Forcing. <i>Journal of Climate</i> , <b>2009</b> , 22, 5667-5675	4.4	30
854	Atmosphere Feedbacks during ENSO in a Coupled GCM with a Modified Atmospheric Convection Scheme. <i>Journal of Climate</i> , <b>2009</b> , 22, 5698-5718	4.4	105
853	Evaluation of Forecasted Southeast Pacific Stratocumulus in the NCAR, GFDL, and ECMWF Models. <i>Journal of Climate</i> , <b>2009</b> , 22, 2871-2889	4.4	89
852	Statistics on High-Cloud Areas and Their Sensitivities to Cloud Microphysics Using Single-Cloud Experiments. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 2659-2677	2.1	27
851	Evaluation of Hydrometeor Occurrence Profiles in the Multiscale Modeling Framework Climate Model Using Atmospheric Classification. <i>Journal of Climate</i> , <b>2009</b> , 22, 4557-4573	4.4	26
850	Analyzing the Climate Sensitivity of the HadSM3 Climate Model Using Ensembles from Different but Related Experiments. <i>Journal of Climate</i> , <b>2009</b> , 22, 3540-3557	4.4	128
849	A new IR technique for monitoring low cloud properties using geostationary satellite data. <b>2009</b> , 10, 115-121		2
848	The role of atmosphere feedbacks during ENSO in the CMIP3 models. <b>2009</b> , 10, 170-176		92
847	Evaluation of tropical cloud regimes in observations and a general circulation model. <i>Climate Dynamics</i> , <b>2009</b> , 32, 355-369	4.2	62
846	A quantitative performance assessment of cloud regimes in climate models. <i>Climate Dynamics</i> , <b>2009</b> , 33, 141-157	4.2	139
845	A PDF-based hybrid prognostic cloud scheme for general circulation models. <i>Climate Dynamics</i> , <b>2009</b> , 33, 795-816	4.2	54

844	Evaluation and validation of mascon recovery using GRACE KBRR data with independent mass flux estimates in the Mississippi Basin. <b>2009</b> , 83, 817-827		7
843	Factors influencing cloud area at the capping inversion for shallow cumulus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2009</b> , 135, 941-952	6.4	56
842	Untangling aerosol effects on clouds and precipitation in a buffered system. <b>2009</b> , 461, 607-13		818
841	Variations in the characteristics of cyclonic activity and cloudiness in the atmosphere of extratropical latitudes of the Northern Hemisphere based from model calculations compared with the data of the reanalysis and satellite data. <b>2009</b> , 424, 147-150		17
840	Observational and model evidence for positive low-level cloud feedback. <b>2009</b> , 325, 460-4		285
839	Wyoming Cloud Lidar: instrument description and applications. <b>2009</b> , 17, 13576-87		37
838	Global warming due to increasing absorbed solar radiation. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a		95
837	Effective radius and droplet spectral width from in-situ aircraft observations in trade-wind cumuli during RICO. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	30
836	Can aerosol decrease cloud lifetime?. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	126
835	Global warming, convective threshold and false thermostats. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	46
834	Subtropical Low Cloud Response to a Warmer Climate in a Superparameterized Climate Model. Part I: Regime Sorting and Physical Mechanisms. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2009</b> , 1, n/a-n/a	7.1	46
833	Influence of cloud condensation and giant cloud condensation nuclei on the development of precipitating trade wind cumuli in a large eddy simulation. <b>2009</b> , 114,		30
832	Simulation of low clouds from the CAM and the regional WRF with multiple nested resolutions. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	7
831	Tropical Water Vapor and Cloud Feedbacks in Climate Models: A Further Assessment Using Coupled Simulations. <i>Journal of Climate</i> , <b>2009</b> , 22, 1287-1304	4.4	75
830	Seasonal Variation of the Physical Properties of Marine Boundary Layer Clouds off the California Coast. <i>Journal of Climate</i> , <b>2009</b> , 22, 2624-2638	4.4	53
829	Comparison of a global-climate model simulation to a cloud-system resolving model simulation for long-term thin stratocumulus clouds. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 6497-6520	6.8	5
828	Response of a Subtropical Stratocumulus-Capped Mixed Layer to Climate and Aerosol Changes. <i>Journal of Climate</i> , <b>2009</b> , 22, 20-38	4.4	46
827	Cloud-top entrainment instability?. <b>2010</b> , 660, 1-4		15

826	Simulation of low clouds in the Southeast Pacific by the NCEP GFS: sensitivity to vertical mixing. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 12261-12272	6.8	24
825	Evaluation of stratocumulus cloud prediction in the Met Office forecast model during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10541-10559	6.8	56
824	Microphysical variability in southeast Pacific Stratocumulus clouds: synoptic conditions and radiative response. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6255-6269	6.8	43
823	Climate variability in the south-eastern tropical Pacific and its relation with ENSO: a GCM study. <i>Climate Dynamics</i> , <b>2010</b> , 34, 1093-1114	4.2	14
822	Climate feedbacks determined using radiative kernels in a multi-thousand member ensemble of AOGCMs. <i>Climate Dynamics</i> , <b>2010</b> , 35, 1219-1236	4.2	45
821	Upper-ocean heat budget and ocean eddy transport in the south-east Pacific in a high-resolution coupled model. <i>Climate Dynamics</i> , <b>2010</b> , 35, 1309-1329	4.2	25
820	Climate forcings and climate sensitivities diagnosed from atmospheric global circulation models. <i>Climate Dynamics</i> , <b>2010</b> , 35, 1461-1475	4.2	10
819	Parametrization of area cloud fraction. <b>2010</b> , 11, 283-289		18
818	. <b>2010</b> , 62, 220-227		30
817	The impact of global warming on the tropical Pacific Ocean and El Niño. <b>2010</b> , 3, 391-397		828
816	Ten years of MISR observations from Terra: Looking back, ahead, and in between. <b>2010</b> ,		3
815	Using ARM Observations to Evaluate Cloud and Clear-Sky Radiation Processes as Simulated by the Canadian Regional Climate Model GEM. <b>2010</b> , 138, 818-838		23
814	Shallow and Deep Latent Heating Modes over Tropical Oceans Observed with TRMM PR Spectral Latent Heating Data. <i>Journal of Climate</i> , <b>2010</b> , 23, 2030-2046	4.4	81
813	Subtropical Cloud-Regime Transitions: Boundary Layer Depth and Cloud-Top Height Evolution in Models and Observations. <i>Journal of Applied Meteorology and Climatology</i> , <b>2010</b> , 49, 1845-1858	2.7	43
812	Large-Eddy Simulation of Post-Cold-Frontal Continental Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 3835-3853	2.1	10
811	Effect of Aerosol on the Susceptibility and Efficiency of Precipitation in Warm Trade Cumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 3525-3540	2.1	61
810	Vertical Velocity Statistics in Fair-Weather Cumuli at the ARM TWP Nauru Climate Research Facility. <i>Journal of Climate</i> , <b>2010</b> , 23, 6590-6604	4.4	30
809	Large-Eddy Observation of Post-Cold-Frontal Continental Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 3368-3383	2.1	13

808	The Impact of Global Warming on Marine Boundary Layer Clouds over the Eastern Pacific: A Regional Model Study. <i>Journal of Climate</i> , <b>2010</b> , 23, 5844-5863	4.4	41
807	Improved Climate Simulation by MIROC5: Mean States, Variability, and Climate Sensitivity. <i>Journal of Climate</i> , <b>2010</b> , 23, 6312-6335	4.4	895
806	Compensation between Model Feedbacks and Curtailment of Climate Sensitivity. <i>Journal of Climate</i> , <b>2010</b> , 23, 3009-3018	4.4	29
805	Droplet Growth in Warm Water Clouds Observed by the A-Train. Part II: A Multisensor View. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 1897-1907	2.1	84
804	Droplet Growth in Warm Water Clouds Observed by the A-Train. Part I: Sensitivity Analysis of the MODIS-Derived Cloud Droplet Sizes. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 1884-1896	2.1	80
803	Simulation of Present-Day and Twenty-First-Century Energy Budgets of the Southern Oceans. <i>Journal of Climate</i> , <b>2010</b> , 23, 440-454	4.4	323
802	Cloud-Resolving Simulation of Low-Cloud Feedback to an Increase in Sea Surface Temperature. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 730-748	2.1	28
801	Structural Similarities and Differences in Climate Responses to CO2 Increase between Two Perturbed Physics Ensembles. <i>Journal of Climate</i> , <b>2010</b> , 23, 1392-1410	4.4	59
800	Relationships among properties of marine stratocumulus derived from collocated CALIPSO and MODIS observations. <b>2010</b> , 115,		18
799	A global view of horizontally oriented crystals in ice clouds from Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO). <b>2010</b> , 115,		60
798	Comparison of the tropical radiative flux and cloud radiative effect profiles in a climate model with Clouds and the Earth's Radiant Energy System (CERES) data. <b>2010</b> , 115,		26
797	Cloud properties and radiative forcing over the maritime storm tracks of the Southern Ocean and North Atlantic derived from A-Train. <b>2010</b> , 115,		49
796	Global assessment of AMSR-E and MODIS cloud liquid water path retrievals in warm oceanic clouds. <b>2010</b> , 115,		112
795	An analysis of cloud cover in multiscale modeling framework global climate model simulations using 4 and 1 km horizontal grids. <b>2010</b> , 115,		41
794	Revisiting the determination of climate sensitivity from relationships between surface temperature and radiative fluxes. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	21
793	Infrared sounding of the trade-wind boundary layer: AIRS and the RICO experiment. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	17
792	Why is longwave cloud feedback positive?. <b>2010</b> , 115,		172
791	An estimate of aerosol indirect effect from satellite measurements with concurrent meteorological analysis. <b>2010</b> , 115,		33

790	On the water and energy cycles in the Tropics. <b>2010</b> , 342, 390-402		25
789	Observation of the Earth's radiation budget from space. <b>2010</b> , 342, 286-300		17
788	Importance of the subgrid-scale turbulent moist process: Cloud distribution in global cloud-resolving simulations. <i>Atmospheric Research</i> , <b>2010</b> , 96, 208-217	5.4	86
787	Properties of cirrus and subvisible cirrus from nighttime Cloud-Aerosol Lidar with Orthogonal Polarization (CALIOP), related to atmospheric dynamics and water vapor. <b>2011</b> , 116,		38
786	Comparison of regime-sorted tropical cloud profiles observed by CloudSat with GEOS5 analyses and two general circulation model simulations. <b>2011</b> , 116,		33
785	Cloud radar Doppler spectra in drizzling stratiform clouds: 1. Forward modeling and remote sensing applications. <b>2011</b> , 116,		68
784	The vertical distribution of cloud feedback in coupled ocean-atmosphere models. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	108
783	Model-simulated humidity bias in the upper troposphere and its relation to the large-scale circulation. <b>2011</b> , 116,		15
782	Impacts of subpixel cloud heterogeneity on infrared thermodynamic phase assessment. <b>2011</b> , 116,		12
781	Examination of turbulent entrainment-mixing mechanisms using a combined approach. <b>2011</b> , 116,		43
780	Controls on precipitation and cloudiness in simulations of trade-wind cumulus as observed during RICO. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2011</b> , 3, n/a-n/a	7.1	189
779	Tropical and Subtropical Cloud Transitions in Weather and Climate Prediction Models: The GCSS/WGNE Pacific Cross-Section Intercomparison (GPCI). <i>Journal of Climate</i> , <b>2011</b> , 24, 5223-5256	4.4	112
778	The observed sensitivity of high clouds to mean surface temperature anomalies in the tropics. <b>2011</b> , 116, n/a-n/a		71
777	Large-scale and synoptic meteorology in the south-east Pacific during the observations campaign VOCALS-REx in austral Spring 2008. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4977-5009	6.8	30
776	South East Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 5237-5262	6.8	105
775	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8777-8790	6.8	130
774	Evaluating the effects of microphysical complexity in idealised simulations of trade wind cumulus using the Factorial Method. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2729-2746	6.8	10
773	A regional real-time forecast of marine boundary layers during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 421-437	6.8	65



772	On the relationship between low cloud variability and lower tropospheric stability in the Southeast Pacific. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9053-9065	6.8	18
771	Relationship between cloud radiative forcing, cloud fraction and cloud albedo, and new surface-based approach for determining cloud albedo. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 7155-7170 <sup>32</sup>	6.8	32
770	Relationship between marine boundary layer clouds and lower tropospheric stability observed by AIRS, CloudSat, and CALIOP. <b>2011</b> , 116,		26
769	Clouds, Storms, and Global Climate. <b>2011</b> , 99, 753-767		2
768	Macroscopic impacts of cloud and precipitation processes in shallow convection. <b>2011</b> , 59, 1184-1204		3
767	Activation of cloud droplets in bin-microphysics simulation of shallow convection. <b>2011</b> , 59, 1168-1183		12
766	The role of low clouds in determining climate sensitivity in response to a doubling of CO <sub>2</sub> as obtained from 16 mixed-layer models. <b>2011</b> , 109, 569-582		1
765	Revealing differences in GCM representations of low clouds. <i>Climate Dynamics</i> , <b>2011</b> , 36, 385-399	4.2	102
764	Analysis of the tropical climate variability in a two-column framework. <i>Climate Dynamics</i> , <b>2011</b> , 37, 73-81	4.2	2
763	The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part II: using AMIP runs to understand the heat flux feedback mechanisms. <i>Climate Dynamics</i> , <b>2011</b> , 37, 1271-1292	4.2	58
762	On tropospheric adjustment to forcing and climate feedbacks. <i>Climate Dynamics</i> , <b>2011</b> , 36, 1649-1658	4.2	65
761	Water vapor and cloud radiative forcings over the Pacific Ocean simulated by the LASG/IAP AGCM: Sensitivity to convection schemes. <b>2011</b> , 28, 80-98		7
760	Unified treatment of dry convective and stratocumulus-topped boundary layers in the ECMWF model. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2011</b> , 137, 43-57	6.4	79
759	The Coastal Boundary Layer at the Eastern Margin of the Southeast Pacific (23.4°S, 70.4°W): Cloudiness-Conditioned Climatology. <i>Journal of Climate</i> , <b>2011</b> , 24, 1013-1033	4.4	24
758	iGen 0.1: the automated generation of a parameterisation of entrainment in marine stratocumulus. <i>Geoscientific Model Development</i> , <b>2011</b> , 4, 797-807	6.3	3
757	iGen: the automated generation of a parameterisation of entrainment in marine stratocumulus. <b>2011</b> ,		2
756	Self-aggregation of clouds in conditionally unstable moist convection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12623-8	11.5	25
755	Aerosol-cloud-precipitation system as a predator-prey problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12227-32	11.5	79

754	Variations in Cloud Cover and Cloud Types over the Ocean from Surface Observations, 1954-2008. <i>Journal of Climate</i> , <b>2011</b> , 24, 5914-5934	4.4	104
753	Detecting the Ratio of Rain and Cloud Water in Low-Latitude Shallow Marine Clouds. <i>Journal of Applied Meteorology and Climatology</i> , <b>2011</b> , 50, 419-432	2.7	56
752	Simulation of Seasonal Variation of Marine Boundary Layer Clouds over the Eastern Pacific with a Regional Climate Model*. <i>Journal of Climate</i> , <b>2011</b> , 24, 3190-3210	4.4	26
751	Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. <i>Journal of Climate</i> , <b>2011</b> , 24, 1034-1052	4.4	37
750	Estimating the Sensitivity of Radiative Impacts of Shallow, Broken Marine Clouds to Boundary Layer Aerosol Size Distribution Parameter Uncertainties for Evaluation of Satellite Retrieval Requirements. <b>2011</b> , 28, 530-538		4
749	Quantification of Monthly Mean Regional-Scale Albedo of Marine Stratiform Clouds in Satellite Observations and GCMs. <i>Journal of Applied Meteorology and Climatology</i> , <b>2011</b> , 50, 2139-2148	2.7	31
748	Climate Sensitivity to Changes in Ocean Heat Transport. <i>Journal of Climate</i> , <b>2011</b> , 24, 5015-5030	4.4	7
747	An Estimate of Low-Cloud Feedbacks from Variations of Cloud Radiative and Physical Properties with Sea Surface Temperature on Interannual Time Scales. <i>Journal of Climate</i> , <b>2011</b> , 24, 1106-1121	4.4	26
746	iGen: a program for the automated generation of models and parameterisations. <b>2011</b> ,		1
745	iGen 0.1: a program for the automated generation of models and parameterisations. <i>Geoscientific Model Development</i> , <b>2011</b> , 4, 785-795	6.3	2
744	Interpolation of LES Cloud Surfaces for Use in Direct Calculations of Entrainment and Detrainment. <b>2011</b> , 139, 444-456		51
743	Temperature and Water Vapor Variance Scaling in Global Models: Comparisons to Satellite and Aircraft Data. <i>Journals of the Atmospheric Sciences</i> , <b>2011</b> , 68, 2156-2168	2.1	51
742	On Constraining Estimates of Climate Sensitivity with Present-Day Observations through Model Weighting. <i>Journal of Climate</i> , <b>2011</b> , 24, 6092-6099	4.4	110
741	Water vapor isotopologues retrievals from high resolution GOSAT short-wave infrared spectra. <b>2012</b> ,		5
740	Radar-radiometer retrievals of cloud number concentration and dispersion parameter in marine stratocumulus. <b>2012</b> ,		
739	On Trade Wind Cumulus Cold Pools. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 258-280	2.1	87
738	Will There Be a Significant Change to El Niño in the Twenty-First Century?. <i>Journal of Climate</i> , <b>2012</b> , 25, 2129-2145	4.4	112
737	Effects of Sea-Salt Aerosols on Precipitation in Simulations of Shallow Cumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 463-483	2.1	21

736	Steady-State Large-Eddy Simulations to Study the Stratocumulus to Shallow Cumulus Cloud Transition. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 3264-3276	2.1	36
735	A Simple Model for Stratocumulus to Shallow Cumulus Cloud Transitions. <i>Journal of Climate</i> , <b>2012</b> , 25, 2547-2554	4.4	13
734	Cloud Simulations in Response to Turbulence Parameterizations in the GISS Model E GCM. <i>Journal of Climate</i> , <b>2012</b> , 25, 4963-4974	4.4	24
733	Marine Boundary Layer Cloud Feedbacks in a Constant Relative Humidity Atmosphere. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 2538-2550	2.1	125
732	Exposing Global Cloud Biases in the Community Atmosphere Model (CAM) Using Satellite Observations and Their Corresponding Instrument Simulators. <i>Journal of Climate</i> , <b>2012</b> , 25, 5190-5207	4.4	215
731	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. <b>2012</b> , 93, 861-878		71
730	Thermodynamic and Aerosol Controls in Southeast Pacific Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 1250-1266	2.1	37
729	Responses of Shallow Cumulus Convection to Large-Scale Temperature and Moisture Perturbations: A Comparison of Large-Eddy Simulations and a Convective Parameterization Based on Stochastically Entraining Parcels. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 1936-1956	2.1	34
728	Response of Upper Clouds in Global Warming Experiments Obtained Using a Global Nonhydrostatic Model with Explicit Cloud Processes. <i>Journal of Climate</i> , <b>2012</b> , 25, 2178-2191	4.4	37
727	The Evolution of Climate Sensitivity and Climate Feedbacks in the Community Atmosphere Model. <i>Journal of Climate</i> , <b>2012</b> , 25, 1453-1469	4.4	131
726	Marine Boundary Layer Cloud Observations in the Azores. <i>Journal of Climate</i> , <b>2012</b> , 25, 7381-7398	4.4	75
725	Droplet Activation and Mixing in Large-Eddy Simulation of a Shallow Cumulus Field. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 444-462	2.1	39
724	Computing and Partitioning Cloud Feedbacks Using Cloud Property Histograms. Part II: Attribution to Changes in Cloud Amount, Altitude, and Optical Depth. <i>Journal of Climate</i> , <b>2012</b> , 25, 3736-3754	4.4	164
723	Using the Sensitivity of Large-Eddy Simulations to Evaluate Atmospheric Boundary Layer Models. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 1582-1601	2.1	26
722	Effect of Aerosol on Cloud Environment Interactions in Trade Cumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 3607-3632	2.1	37
721	Computing and Partitioning Cloud Feedbacks Using Cloud Property Histograms. Part I: Cloud Radiative Kernels. <i>Journal of Climate</i> , <b>2012</b> , 25, 3715-3735	4.4	159
720	The Role of Atmosphere Feedbacks during ENSO in the CMIP3 Models. Part III: The Shortwave Flux Feedback. <i>Journal of Climate</i> , <b>2012</b> , 25, 4275-4293	4.4	100
719	Using a Multiphysics Ensemble for Exploring Diversity in Cloud Shortwave Feedback in GCMs. <i>Journal of Climate</i> , <b>2012</b> , 25, 5416-5431	4.4	32

718	Modeling the Response of Marine Boundary Layer Clouds to Global Warming: The Impact of Subgrid-Scale Precipitation Formation. <i>Journal of Climate</i> , <b>2012</b> , 25, 6610-6626	4.4	4
717	Continuous Single-Column Model Evaluation at a Permanent Meteorological Supersite. <b>2012</b> , 93, 1389-1400		64
716	Advances and limitations of atmospheric boundary layer observations with GPS occultation over southeast Pacific Ocean. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 903-918	6.8	54
715	Unified parameterization of the planetary boundary layer and shallow convection with a higher-order turbulence closure in the community atmosphere model: single column experiments. <b>2012</b> ,		1
714	Unified parameterization of the planetary boundary layer and shallow convection with a higher-order turbulence closure in the Community Atmosphere Model: single-column experiments. <i>Geoscientific Model Development</i> , <b>2012</b> , 5, 1407-1423	6.3	45
713	Marine cloud brightening. <b>2012</b> , 370, 4217-62		97
712	A method for disentangling El Niño mean state interaction. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	21
711	Microphysical controls on the stratocumulus topped boundary-layer structure during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 2849-2863	6.8	34
710	The scale problem in quantifying aerosol indirect effects. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1031-1049	6.8	110
709	Statistical analysis of an LES shallow cumulus cloud ensemble using a cloud tracking algorithm. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1101-1119	6.8	40
708	How well do climate models simulate cloud vertical structure? A comparison between CALIPSO-GOCCP satellite observations and CMIP5 models. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	67
707	How may low-cloud radiative properties simulated in the current climate influence low-cloud feedbacks under global warming?. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	46
706	The too few, too bright tropical low-cloud problem in CMIP5 models. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	225
705	Identification and analysis of atmospheric states and associated cloud properties for Darwin, Australia. <b>2012</b> , 117, n/a-n/a		16
704	Origins of tropical-wide SST biases in CMIP multi-model ensembles. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	118
703	Sources of uncertainty in future changes in local precipitation. <i>Climate Dynamics</i> , <b>2012</b> , 39, 1929-1950	4.2	74
702	Perturbed physics ensemble using the MIROC5 coupled atmosphere-ocean GCM without flux corrections: experimental design and results. <i>Climate Dynamics</i> , <b>2012</b> , 39, 3041-3056	4.2	45
701	A process oriented characterization of tropical oceanic clouds for climate model evaluation, based on a statistical analysis of daytime A-train observations. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2091-2108	4.2	13

700	Anthropogenic radiative forcing of marine stratocumulus clouds under different thermodynamic conditions in an LES model study. <i>Atmospheric Research</i> , <b>2012</b> , 118, 370-389	5.4	6
699	Fast and slow timescales in the tropical low-cloud response to increasing CO2 in two climate models. <i>Climate Dynamics</i> , <b>2012</b> , 39, 1627-1641	4.2	24
698	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. <b>2012</b> , 117, n/a-n/a		81
697	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopic observations: 2. Using isotopic diagnostics to understand the mid and upper tropospheric moist bias in the tropics and subtropics. <b>2012</b> , 117, n/a-n/a		66
696	Reducing the resolution bias in cloud fraction from satellite derived clear-conservative cloud masks. <b>2012</b> , 117, n/a-n/a		11
695	GOES-10 microphysical retrievals in marine warm clouds: Multi-instrument validation and daytime cycle over the southeast Pacific. <b>2012</b> , 117, n/a-n/a		34
694	The CGILS experimental design to investigate low cloud feedbacks in general circulation models by using single-column and large-eddy simulation models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2012</b> , 4, n/a-n/a	7.1	29
693	Regional assessment of the parameter-dependent performance of CAM4 in simulating tropical clouds. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	25
692	Stratocumulus Clouds. <b>2012</b> , 140, 2373-2423		647
691	Representing the Sensitivity of Convective Cloud Systems to Tropospheric Humidity in General Circulation Models. <b>2012</b> , 33, 637-656		63
690	Understanding and Measuring Earth's Energy Budget: From Fourier, Humboldt, and Tyndall to CERES and Beyond. <b>2012</b> , 33, 337-350		6
689	The Role of Clouds: An Introduction and Rapporteur Report. <b>2012</b> , 33, 609-617		5
688	Diagnosing Climate Feedbacks in Coupled Ocean-Atmosphere Models. <b>2012</b> , 33, 733-744		9
687	Multivariate probabilistic projections using imperfect climate models part I: outline of methodology. <i>Climate Dynamics</i> , <b>2012</b> , 38, 2513-2542	4.2	112
686	Changes in atmospheric circulation and the Arctic Oscillation preserved within a millennial length reconstruction of summer cloud cover from northern Fennoscandia. <i>Climate Dynamics</i> , <b>2012</b> , 39, 495-507	4.2	62
685	Study of low-order numerical effects in the two-dimensional cloud-top mixing layer. <b>2013</b> , 27, 239-251		1
684	Analysis and numerical simulation of a laboratory analog of radiatively induced cloud-top entrainment. <b>2013</b> , 27, 377-395		6
683	Diagnosis and testing of low-level cloud parameterizations for the NCEP/GFS model using satellite and ground-based measurements. <i>Climate Dynamics</i> , <b>2013</b> , 41, 1595-1613	4.2	26

682	Assessment of different metrics for physical climate feedbacks. <i>Climate Dynamics</i> , <b>2013</b> , 41, 1173-1185	4.2	20
681	On the interpretation of inter-model spread in CMIP5 climate sensitivity estimates. <i>Climate Dynamics</i> , <b>2013</b> , 41, 3339-3362	4.2	353
680	The respective roles of surface temperature driven feedbacks and tropospheric adjustment to CO <sub>2</sub> in CMIP5 transient climate simulations. <i>Climate Dynamics</i> , <b>2013</b> , 41, 3103-3126	4.2	19
679	Coupling between subtropical cloud feedback and the local hydrological cycle in a climate model. <i>Climate Dynamics</i> , <b>2013</b> , 41, 1923-1939	4.2	35
678	LMDZ5B: the atmospheric component of the IPSL climate model with revisited parameterizations for clouds and convection. <i>Climate Dynamics</i> , <b>2013</b> , 40, 2193-2222	4.2	212
677	Origins of differences in climate sensitivity, forcing and feedback in climate models. <i>Climate Dynamics</i> , <b>2013</b> , 40, 677-707	4.2	143
676	Ship-Based Observations of the Diurnal Cycle of Southeast Pacific Marine Stratocumulus Clouds and Precipitation. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3876-3894	2.1	39
675	Radiative Impacts of Free-Tropospheric Clouds on the Properties of Marine Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3102-3118	2.1	51
674	Shortwave cloud radiative forcing on major stratus cloud regions in AMIP-type simulations of CMIP3 and CMIP5 models. <b>2013</b> , 30, 884-907		27
673	Growth of Cloud Droplets in a Turbulent Environment. <b>2013</b> , 45, 293-324		245
672	Bounding the role of black carbon in the climate system: A scientific assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5380-5552	4.4	3330
671	Interpretation of the positive low-cloud feedback predicted by a climate model under global warming. <i>Climate Dynamics</i> , <b>2013</b> , 40, 2415-2431	4.2	116
670	Changes in the cloud properties in response to El Niño: a bivariate approach. <i>Climate Dynamics</i> , <b>2013</b> , 40, 2973-2991	4.2	7
669	Microphysical implications of cloud-precipitation covariance derived from satellite remote sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6521-6533	4.4	62
668	Simulating Clouds with Global Climate Models: A Comparison of CMIP5 Results with CMIP3 and Satellite Data. <i>Journal of Climate</i> , <b>2013</b> , 26, 3823-3845	4.4	95
667	Projected response of the Indian Ocean Dipole to greenhouse warming. <b>2013</b> , 6, 999-1007		146
666	Scale Dependency of Total Water Variance and Its Implication for Cloud Parameterizations. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3615-3630	2.1	20
665	Longwave Band-By-Band Cloud Radiative Effect and Its Application in GCM Evaluation. <i>Journal of Climate</i> , <b>2013</b> , 26, 450-467	4.4	11

664	Characterization of Model Spread in PMIP2 Mid-Holocene Simulations of the African Monsoon. <i>Journal of Climate</i> , <b>2013</b> , 26, 1192-1210	4.4	17
663	Response of Ice and Liquid Water Paths of Tropical Cyclones to Global Warming Simulated by a Global Nonhydrostatic Model with Explicit Cloud Microphysics. <i>Journal of Climate</i> , <b>2013</b> , 26, 9931-9945	4.4	17
662	Characteristics of cloud liquid water path from SEVIRI on the Meteosat Second Generation 2 satellite for several cloud types. <b>2013</b> ,		2
661	Toward a mode reduction strategy in shallow moist convection. <b>2013</b> , 15, 125025		2
660	Cloud and Water Vapor Feedbacks to the El Niño Warming: Are They Still Biased in CMIP5 Models?. <i>Journal of Climate</i> , <b>2013</b> , 26, 4947-4961	4.4	73
659	Water vapor isotopologue retrievals from high-resolution GOSAT shortwave infrared spectra. <b>2013</b> , 6, 263-274		48
658	Cirrus Cloud Properties and the Large-Scale Meteorological Environment: Relationships Derived from A-Train and NCEP-NCAR Reanalysis Data. <i>Journal of Applied Meteorology and Climatology</i> , <b>2013</b> , 52, 1253-1276	2.7	12
657	On the Usage of Spectral and Broadband Satellite Instrument Measurements to Differentiate Climate Models with Different Cloud Feedback Strengths. <i>Journal of Climate</i> , <b>2013</b> , 26, 6561-6574	4.4	5
656	Dynamic and Thermodynamic Relations of Distinctive Stratus Clouds on the Lee Side of the Tibetan Plateau in the Cold Season. <i>Journal of Climate</i> , <b>2013</b> , 26, 8378-8391	4.4	19
655	Radar-radiometer retrievals of cloud number concentration and dispersion parameter in nondrizzling marine stratocumulus. <b>2013</b> , 6, 1817-1828		11
654	Low cloud precipitation climatology in the southeastern Pacific marine stratocumulus region using CloudSat. <b>2013</b> , 8, 014027		35
653	A new approach for simultaneously retrieving cloud albedo and cloud fraction from surface-based shortwave radiation measurements. <b>2013</b> , 8, 044023		16
652	Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5*. <i>Journal of Climate</i> , <b>2013</b> , 26, 5007-5027	4.4	209
651	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 826-842	7.1	115
650	Tropical precipitation and convection changes in the Max Planck Institute Earth system model (MPI-ESM) in response to CO2 forcing. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 85-97	7.1	4
649	Mechanisms of marine low cloud sensitivity to idealized climate perturbations: A single-LES exploration extending the CGILS cases. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 316-337	7.1	145
648	Marine low cloud sensitivity to an idealized climate change: The CGILS LES intercomparison. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 234-258	7.1	104
647	Climate and climate change in a radiative-convective equilibrium version of ECHAM6. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 1-14	7.1	98

646	Climate change. What are climate models missing?. <b>2013</b> , 340, 1053-4		262
645	A Novel Scheme for Parameterizing Aerosol Processing in Warm Clouds. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3576-3598	2.1	9
644	Impact of Strong Tropical Volcanic Eruptions on ENSO Simulated in a Coupled GCM. <i>Journal of Climate</i> , <b>2013</b> , 26, 5169-5182	4.4	74
643	CMIP5 Simulations of Low-Level Tropospheric Temperature and Moisture over the Tropical Americas. <i>Journal of Climate</i> , <b>2013</b> , 26, 6257-6286	4.4	20
642	Marine boundary layer cloud regimes and POC formation in a CRM coupled to a bulk aerosol scheme. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 12549-12572	6.8	41
641	An empirical model of global climate [Part 1: A critical evaluation of volcanic cooling. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3997-4031	6.8	50
640	Evaluation of clouds in ACCESS using the satellite simulator package COSP: Global, seasonal, and regional cloud properties. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 732-748	4.4	31
639	Transitions of cloud-topped marine boundary layers characterized by AIRS, MODIS, and a large eddy simulation model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 8598-8611	4.4	8
638	Mechanism of tropical low-cloud response to surface warming using weather and climate simulations. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2427-2432	4.9	9
637	On the size distribution of cloud holes in stratocumulus and their relationship to cloud-top entrainment. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2450-2454	4.9	11
636	Geographically versus dynamically defined boundary layer cloud regimes and their use to evaluate general circulation model cloud parameterizations. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4951-4956	4.9	11
635	A novel diagnostic technique to investigate cloud-controlling factors. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5979-5991	4.4	8
634	Seasonal to multidecadal variability of the width of the tropical belt. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7773-7787	4.4	42
633	Are climate model simulations of clouds improving? An evaluation using the ISCCP simulator. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1329-1342	4.4	166
632	Evaluation of clouds in ACCESS using the satellite simulator package COSP: Regime-sorted tropical cloud properties. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6663-6679	4.4	25
631	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using A-Train satellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2762-2780	4.4	78
630	Evaluation of biospheric components in Earth system models using modern and palaeo-observations: the state-of-the-art. <b>2013</b> , 10, 8305-8328		10
629	Characteristics of low clouds over the Arabian Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 13,489-13,503	4.4	15



628	Scale dependence of entrainment-mixing mechanisms in cumulus clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 13,877-13,890	4.4	38
627	Impact of the sea surface temperature rise on storm-track clouds in global nonhydrostatic aqua planet simulations. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 3545-3552	4.9	9
626	G band atmospheric radars: new frontiers in cloud physics. <b>2014</b> , 7, 1527-1546		39
625	A study of macrophysical and microphysical properties of warm clouds over the Northern Hemisphere using CloudSat/CALIPSO data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3268-3280	4.4	18
624	Managing climate change scenarios for societal impact studies. <b>2014</b> , 35, 22-49		4
623	Observational and Model Estimates of Cloud Amount Feedback over the Indian and Pacific Oceans. <i>Journal of Climate</i> , <b>2014</b> , 27, 925-940	4.4	22
622	Evaluation of EarthCARE Cloud Profiling Radar Doppler Velocity Measurements in Particle Sedimentation Regimes. <b>2014</b> , 31, 366-386		39
621	Radiative-Convective Equilibrium over a Land Surface. <i>Journal of Climate</i> , <b>2014</b> , 27, 8611-8629	4.4	9
620	Entering the Era of +30-Year Satellite Cloud Climatologies: A North American Case Study. <i>Journal of Climate</i> , <b>2014</b> , 27, 6687-6697	4.4	8
619	Ocean-Cloud-Atmosphere-Land Interactions in the Southeastern Pacific: The VOCALS Program. <b>2014</b> , 95, 357-375		66
618	Simulations of Stratus Clouds over Eastern China in CAM5: Sensitivity to Horizontal Resolution. <i>Journal of Climate</i> , <b>2014</b> , 27, 7033-7052	4.4	15
617	Southern Hemisphere Cloud Dynamics Biases in CMIP5 Models and Their Implications for Climate Projections. <i>Journal of Climate</i> , <b>2014</b> , 27, 6074-6092	4.4	69
616	Turbulence and Radiation in Stratocumulus-Topped Marine Boundary Layers: A Case Study from VOCALS-REx. <i>Journal of Applied Meteorology and Climatology</i> , <b>2014</b> , 53, 117-135	2.7	26
615	Responses of Tropical and Subtropical High-Cloud Statistics to Global Warming. <i>Journal of Climate</i> , <b>2014</b> , 27, 7753-7768	4.4	17
614	Characteristics of cloud liquid water path from SEVIRI onboard the Meteosat Second Generation 2 satellite for several cloud types. <b>2014</b> , 7, 887-905		9
613	G-band atmospheric radars: new frontiers in cloud physics. <b>2014</b> ,		1
612	Upland Glaciation in Tropical Pangaea: Geologic Evidence and Implications for Late Paleozoic Climate Modeling. <b>2014</b> , 122, 137-163		28
611	Multi-parameter multi-physics ensemble (MPMPE): a new approach exploring the uncertainties of climate sensitivity. <b>2014</b> , 15, 97-102		18

610	Where and when will we observe cloud changes due to climate warming?. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8387-8395	4.9	39
609	An improved diagnostic stratocumulus scheme based on estimated inversion strength and its performance in GAMIL2. <b>2014</b> , 57, 2637-2649		8
608	Observing Interannual Variations in Hadley Circulation Atmospheric Diabatic Heating and Circulation Strength. <i>Journal of Climate</i> , <b>2014</b> , 27, 4139-4158	4.4	15
607	A mixed-layer model study of the stratocumulus response to changes in large-scale conditions. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 1256-1270	7.1	31
606	Low cloud reduction in a greenhouse-warmed climate: Results from Lagrangian LES of a subtropical marine cloudiness transition. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 91-114	7.1	61
605	Evaluation of boundary layer cloud parameterizations in the ECHAM5 general circulation model using CALIPSO and CloudSat satellite data. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 300-314	7.1	14
604	Influence of low-cloud radiative effects on tropical circulation and precipitation. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 513-526	7.1	38
603	A sensitivity analysis of cloud properties to CLUBB parameters in the single-column Community Atmosphere Model (SCAM5). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 829-858	7.1	37
602	Cloud feedbacks on greenhouse warming in the superparameterized climate model SP-CCSM4. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 1185-1204	7.1	19
601	High cloud increase in a perturbed SST experiment with a global nonhydrostatic model including explicit convective processes. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 571-585	7.1	28
600	Decomposing aerosol cloud radiative effects into cloud cover, liquid water path and Twomey components in marine stratocumulus. <i>Atmospheric Research</i> , <b>2014</b> , 138, 378-393	5.4	56
599	Multiscale eddy simulation for moist atmospheric convection: Preliminary investigation. <b>2014</b> , 271, 99-117		6
598	A 19-Month Record of Marine Aerosol Cloud Radiation Properties Derived from DOE ARM Mobile Facility Deployment at the Azores. Part I: Cloud Fraction and Single-Layered MBL Cloud Properties. <i>Journal of Climate</i> , <b>2014</b> , 27, 3665-3682	4.4	40
597	Evaluation of clouds and radiative fluxes in the EC-Earth general circulation model. <i>Climate Dynamics</i> , <b>2014</b> , 43, 2777-2796	4.2	13
596	Stratocumulus Clouds in Southeastern Pacific Simulated by Eight CMIP5/CFMIP Global Climate Models. <i>Journal of Climate</i> , <b>2014</b> , 27, 3000-3022	4.4	35
595	Spread in model climate sensitivity traced to atmospheric convective mixing. <b>2014</b> , 505, 37-42		460
594	Vertical Structures and Physical Properties of the Cold-Season Stratus Clouds Downstream of the Tibetan Plateau: Differences between Daytime and Nighttime. <i>Journal of Climate</i> , <b>2014</b> , 27, 6857-6876	4.4	14
593	Modulation of Marine Low Clouds Associated with the Tropical Intraseasonal Variability over the Eastern Pacific. <i>Journal of Climate</i> , <b>2014</b> , 27, 5560-5574	4.4	4

592	Evaluation of cloud vertical structure simulated by recent BCC_AGCM versions through comparison with CALIPSO-GOCCP data. <b>2014</b> , 31, 721-733		11
591	The Role of Nonconvective Condensation Processes in Response of Surface Shortwave Cloud Radiative Forcing to El Niño Warming. <i>Journal of Climate</i> , <b>2014</b> , 27, 6721-6736	4.4	21
590	Regional variation of the tropical water vapor and lapse rate feedbacks. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 7634-7641	4.9	8
589	A Simple Model of the Northeast Pacific Stratocumulus to Cumulus Transition Based on the Climatological Surface Energy Budget. <i>Journal of Climate</i> , <b>2014</b> , 27, 4111-4121	4.4	2
588	The radiative impact of clouds on the shift of the Intertropical Convergence Zone. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 4308-4315	4.9	47
587	On the spread of changes in marine low cloud cover in climate model simulations of the 21st century. <i>Climate Dynamics</i> , <b>2014</b> , 42, 2603-2626	4.2	135
586	Shallow Cumulus Mixing and Subcloud-Layer Responses to Variations in Aerosol Loading. <i>Journals of the Atmospheric Sciences</i> , <b>2014</b> , 71, 2581-2603	2.1	23
585	Examinations of cloud variability and future change in the coupled model intercomparison project phase 3 simulations. <b>2014</b> , 50, 481-495		1
584	Simulating the Role of Subtropical Stratocumulus Clouds in Driving Pacific Climate Variability. <i>Journal of Climate</i> , <b>2014</b> , 27, 5119-5131	4.4	43
583	Analysis of the Slab Ocean El Niño atmospheric feedbacks in observed and simulated ENSO dynamics. <i>Climate Dynamics</i> , <b>2014</b> , 42, 3187-3205	4.2	27
582	A global survey of the instantaneous linkages between cloud vertical structure and large-scale climate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3770-3792	4.4	33
581	The role of large-scale convective organization for tropical high cloud amount. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 5259-5263	4.9	
580	Weakening and strengthening structures in the Hadley Circulation change under global warming and implications for cloud response and climate sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5787-5805	4.4	79
579	Twomey effect observed from collocated microphysical and remote sensing measurements over shallow cumulus. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 1534-1545	4.4	36
578	The CloudSat radar-lidar geometrical profile product (RL-GeoProf): Updates, improvements, and selected results. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9441-9462	4.4	113
577	Relationships between layer-mean radar reflectivity and columnar effective radius of warm cloud: Numerical study using a cloud microphysical bin model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3281-3294	4.4	3
576	Effect of gradients in biomass burning aerosol on shallow cumulus convective circulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9948-9964	4.4	9
575	Comparison of marine boundary layer cloud properties from CERES-MODIS Edition 4 and DOE ARM AMF measurements at the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9509-9529	4.4	20

574	The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 12573-12592	6.8	39
573	The Atmospheric Infrared Sounder version 6 cloud products. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 399-426	6.8	74
572	Impact of the representation of marine stratocumulus clouds on the anthropogenic aerosol effect. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 11997-12022	6.8	40
571	Atmospheric parameters in a subtropical cloud regime transition derived by AIRS and MODIS: observed statistical variability compared to ERA-Interim. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3573-3587	6.8	10
570	The interdependence of continental warm cloud properties derived from unexploited solar background signals in ground-based lidar measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 8389-8401	6.8	6
569	A mixed-layer model perspective on stratocumulus steady states in a perturbed climate. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 2119-2131	6.4	19
568	The distribution and variability of low-level cloud in the North Atlantic trades. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2014</b> , 140, 2364-2374	6.4	62
567	A multiscale modeling framework model (superparameterized CAM5) with a higher-order turbulence closure: Model description and low-cloud simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 484-509	7.1	31
566	The impact of parametrized convection on cloud feedback. <b>2015</b> , 373,		54
565	The relationship between interannual and long-term cloud feedbacks. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 10,463	4.9	54
564	Variability of monsoon intracloud and intercloud microphysics over the Indian subcontinent. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 12,112	4.4	3
563	The behavior of trade-wind cloudiness in observations and models: The major cloud components and their variability. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 600-616	7.1	45
562	Climate radiative feedbacks and adjustments at the Earth's surface. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 3173-3182	4.4	23
561	Parametric behaviors of CLUBB in simulations of low clouds in the Community Atmosphere Model (CAM). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 1005-1025	7.1	24
560	Underestimation of oceanic warm cloud occurrences by the Cloud Profiling Radar aboard CloudSat. <b>2015</b> , 29, 576-593		8
559	Emergent Constraints for Cloud Feedbacks. <b>2015</b> , 1, 276-287		108
558	Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. <i>Journal of Climate</i> , <b>2015</b> , 28, 9298-9312	4.4	23
557	Evaluation of low-cloud climate feedback through single-column model equilibrium states. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 819-832	6.4	11

556	Observed and modeled patterns of covariability between low-level cloudiness and the structure of the trade-wind layer. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 1741-1764	7.1	36
555	Positive tropical marine low-cloud cover feedback inferred from cloud-controlling factors. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 7767-7775	4.9	95
554	Low-cloud characteristics over the tropical western Pacific from ARM observations and CAM5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 8953-8970	4.4	6
553	Physical mechanisms controlling the initiation of convective self-aggregation in a General Circulation Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 2060-2078	7.1	83
552	An LES model study of the influence of the free tropospheric thermodynamic conditions on the stratocumulus response to a climate perturbation. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 670-691	7.1	45
551	Cold and Warm Rain Simulated Using a Global Nonhydrostatic Model without Cumulus Parameterization, and their Responses to Global Warming. <b>2015</b> , 93, 181-197		11
550	Prognostic precipitation with three liquid water classes in the ECHAM5-BAM GCM. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 8717-8738	6.8	20
549	On the influence of poleward jet shift on shortwave cloud feedback in global climate models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 2044-2059	7.1	20
548	Ice water content vertical profiles of high-level clouds: classification and impact on radiative fluxes. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 12327-12344	6.8	18
547	The nonlinear relationship between albedo and cloud fraction on near-global, monthly mean scale in observations and in the CMIP5 model ensemble. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9571-9578	4.9	23
546	Long-term cloud change imprinted in seasonal cloud variation: More evidence of high climate sensitivity. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8729-8737	4.9	45
545	Insights from modeling and observational evaluation of a precipitating continental cumulus event observed during the MC3E field campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 1980-1995	4.4	5
544	A single-column model intercomparison on the stratocumulus representation in present-day and future climate. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 617-647	7.1	27
543	Large-eddy simulation in an anelastic framework with closed water and entropy balances. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 1425-1456	7.1	24
542	Attributing the behavior of low-level clouds in large-scale models to subgrid-scale parameterizations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 2029-2043	7.1	17
541	Evaluation of boundary-layer type in a weather forecast model utilizing long-term Doppler lidar observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 1345-1353	6.4	8
540	Cloud responses in the AMIP simulations of CMIP5 models in the southeastern Pacific marine subsidence region. <i>International Journal of Climatology</i> , <b>2015</b> , 35, 2908-2921	3.5	7
539	Cloud Regime Variability over the Azores and Its Application to Climate Model Evaluation. <i>Journal of Climate</i> , <b>2015</b> , 28, 9707-9720	4.4	30

538	Effects of Aerosol on Cloud Liquid Water Path: Statistical Method a Potential Source for Divergence in Past Observation Based Correlative Studies. <i>Atmosphere</i> , <b>2015</b> , 6, 273-298	2.7	11
537	Effects of the Hawaiian Islands on the vertical structure of low-level clouds from CALIPSO lidar. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 215-228	4.4	2
536	A Hybrid Cloud Regime Methodology Used to Evaluate Southern Ocean Cloud and Shortwave Radiation Errors in ACCESS. <i>Journal of Climate</i> , <b>2015</b> , 28, 6001-6018	4.4	34
535	An Assessment of Direct Radiative Forcing, Radiative Adjustments, and Radiative Feedbacks in Coupled Ocean-Atmosphere Models*. <i>Journal of Climate</i> , <b>2015</b> , 28, 4152-4170	4.4	43
534	CLIMATE AND CLIMATE CHANGE   Climate Feedbacks. <b>2015</b> , 18-25		3
533	Numerical Experiments to Analyze Cloud Microphysical Processes Depicted in Vertical Profiles of Radar Reflectivity of Warm Clouds. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 4509-4528	2.1	3
532	Advanced intensity-modulation continuous-wave lidar techniques for ASCENDS CO <sub>2</sub> column measurements. <b>2015</b> ,		
531	Separation of a Cirrus Layer and Broken Cumulus Clouds in Multispectral Images. <b>2015</b> , 53, 2275-2285		4
530	Circulation response to warming shaped by radiative changes of clouds and water vapour. <b>2015</b> , 8, 102-106		122
529	The albedo of Earth. <b>2015</b> , 53, 141-163		138
528	The remote impacts of climate feedbacks on regional climate predictability. <b>2015</b> , 8, 135-139		60
527	Thermodynamic and Radiative Structure of Stratocumulus-Topped Boundary Layers*. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 430-451	2.1	18
526	Understanding the synoptic variability of stratocumulus cloud liquid water path over the Southeastern Pacific. <i>Meteorology and Atmospheric Physics</i> , <b>2015</b> , 127, 625-634	2	1
525	Future climate change under RCP emission scenarios with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 244-267	7.1	88
524	The importance of including variability in climate change projections used for adaptation. <b>2015</b> , 5, 931-936		17
523	Aerosol specification in single-column Community Atmosphere Model version 5. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 817-828	6.3	8
522	On the Relationships between Subtropical Clouds and Meteorology in Observations and CMIP3 and CMIP5 Models*. <i>Journal of Climate</i> , <b>2015</b> , 28, 2945-2967	4.4	63
521	Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part II: TOA Radiation Budget and CREs. <i>Journal of Climate</i> , <b>2015</b> , 28, 1842-1864	4.4	15

520	On the Seasonal and Synoptic Time-Scale Variability of the North Atlantic Trade Wind Region and Its Low-Level Clouds. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 1428-1446	2.1	36
519	Regional Assessments of Low Clouds against Large-Scale Stability in CAM5 and CAM-CLUBB Using MODIS and ERA-Interim Reanalysis Data. <i>Journal of Climate</i> , <b>2015</b> , 28, 1685-1706	4.4	12
518	RACORO continental boundary layer cloud investigations: 1. Case study development and ensemble large-scale forcings. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 5962-5992	4.4	18
517	A review on regional convection-permitting climate modeling: Demonstrations, prospects, and challenges. <b>2015</b> , 53, 323-361		614
516	Chemistry and the Linkages between Air Quality and Climate Change. <b>2015</b> , 115, 3856-97		205
515	The strength of the tropical inversion and its response to climate change in 18 CMIP5 models. <i>Climate Dynamics</i> , <b>2015</b> , 45, 375-396	4.2	51
514	Insights into low-latitude cloud feedbacks from high-resolution models. <b>2015</b> , 373,		132
513	Feedbacks, climate sensitivity and the limits of linear models. <b>2015</b> , 373,		82
512	How Has Subtropical Stratocumulus and Associated Meteorology Changed since the 1980s?*. <i>Journal of Climate</i> , <b>2015</b> , 28, 8396-8410	4.4	35
511	ENSO and greenhouse warming. <b>2015</b> , 5, 849-859		441
510	Observed and Modeled Warm Rainfall Occurrence and Its Relationships with Cloud Macrophysical Properties. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 4075-4090	2.1	8
509	On the connection between tropical circulation, convective mixing, and climate sensitivity. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 1404-1416	6.4	30
508	Using aquaplanets to understand the robust responses of comprehensive climate models to forcing. <i>Climate Dynamics</i> , <b>2015</b> , 44, 1957-1977	4.2	71
507	Planning the Next Decade of Coordinated Research to Better Understand and Simulate Marine Low Clouds. <b>2016</b> , 97, 1699-1702		12
506	Radiative convective equilibrium as a framework for studying the interaction between convection and its large-scale environment. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1330-1344	7.1	24
505	The Impact of ARM on Climate Modeling. <b>2016</b> , 57, 26.1-26.16		5
504	The Programmatic Maturation of the ARM Program. <b>2016</b> , 57, 3.1-3.19		15
503	Comment on "Long-term climate forcing by atmospheric oxygen concentrations". <b>2016</b> , 353, 132		7

502	Evaluation of Warm-Rain Microphysical Parameterizations in Mesoscale Simulations of the Cloudy Marine Boundary Layer. <b>2016</b> , 144, 2137-2154		2
501	Large-Eddy Simulations of EUCLIPSECLASS Lagrangian Stratocumulus-to-Cumulus Transitions: Mean State, Turbulence, and Decoupling. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 2485-2508	2.1	51
500	Cloud Object Analysis of CERES Aqua Observations of Tropical and Subtropical Cloud Regimes: Four-Year Climatology. <i>Journal of Climate</i> , <b>2016</b> , 29, 1617-1638	4.4	8
499	Cumulus over the Tibetan Plateau in the Summer Based on CloudSatCALIPSO Data. <i>Journal of Climate</i> , <b>2016</b> , 29, 1219-1230	4.4	25
498	How finely do we need to represent the stratocumulus radiative effect?. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2016</b> , 142, 2347-2358	6.4	2
497	Characterizing the Hadley Circulation Response through Regional Climate Feedbacks. <i>Journal of Climate</i> , <b>2016</b> , 29, 613-622	4.4	32
496	Effects of all-sky assimilation of GCOM-W/AMSR2 radiances in the ECMWF numerical weather prediction system. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2016</b> , 142, 721-737	6.4	28
495	Clouds at Barbados are representative of clouds across the trade wind regions in observations and climate models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3062-70	11.5	26
494	Coupling between lower-tropospheric convective mixing and low-level clouds: Physical mechanisms and dependence on convection scheme. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1892-1911	7.1	46
493	Observational evidence for aerosol invigoration in shallow cumulus downstream of Mount Kilauea. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2981-2988	4.9	11
492	Properties of marine stratocumulus obtained with partly cloudy pixel retrievals and found in the MODIS MOD06 cloud product. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 6404-6424	4.4	5
491	Aerosol effect on the evolution of the thermodynamic properties of warm convective cloud fields. <b>2016</b> , 6, 38769		22
490	Retrieving co-occurring cloud and precipitation properties of warm marine boundary layer clouds with A-Train data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4008-4033	4.4	23
489	Idealized climate change simulations with a high-resolution physical model: HadGEM3-GC2. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 813-830	7.1	26
488	Monotonic decrease of the zonal SST gradient of the equatorial Pacific as a function of CO2 concentration in CCSM3 and CCSM4. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 10,637-10,653	4.4	7
487	Responses of Tropical Ocean Clouds and Precipitation to the Large-Scale Circulation: Atmospheric-Water-Budget-Related Phase Space and Dynamical Regimes. <i>Journal of Climate</i> , <b>2016</b> , 29, 7127-7143	4.4	8
486	Uncertainty in Tropical Rainfall Projections: Atmospheric Circulation Effect and the Ocean Coupling. <i>Journal of Climate</i> , <b>2016</b> , 29, 2671-2687	4.4	41
485	Large-eddy simulation of subtropical cloud-topped boundary layers: 1. A forcing framework with closed surface energy balance. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1565-1585	7.1	15



484	Reducing the uncertainty in subtropical cloud feedback. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2144-2148	4.9	63
483	ARM-B Aerosol-Cloud-Precipitation Research (Aerosol Indirect Effects). <b>2016</b> , 57, 22.1-22.15		9
482	Climate Feedback Variance and the Interaction of Aerosol Forcing and Feedbacks. <i>Journal of Climate</i> , <b>2016</b> , 29, 6659-6675	4.4	16
481	Observational evidence linking precipitation and mesoscale cloud fraction in the southeast Pacific. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7267-7273	4.9	5
480	Modelling the effectiveness of grass buffer strips in managing muddy floods under a changing climate. <b>2016</b> , 270, 102-120		9
479	Stable isotopes in atmospheric water vapor and applications to the hydrologic cycle. <b>2016</b> , 54, 809-865		163
478	Response of Marine Boundary Layer Cloud Properties to Aerosol Perturbations Associated with Meteorological Conditions from the 19-Month AMF-Azores Campaign. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 4253-4268	2.1	10
477	Recent progress toward reducing the uncertainty in tropical low cloud feedback and climate sensitivity: a review. <b>2016</b> , 3,		5
476	Characterization of cumulus cloud fields using trajectories in the center of gravity versus water mass phase space: 1. Cloud tracking and phase space description. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 6336-6355	4.4	20
475	Cloud regimes as phase transitions. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6579-6587	4.9	6
474	Lower-Tropospheric Mixing as a Constraint on Cloud Feedback in a Multiparameter Multiphysics Ensemble. <i>Journal of Climate</i> , <b>2016</b> , 29, 6259-6275	4.4	21
473	On the limited ice intrusion in Alaska at the LGM. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,030	4.9	20
472	The effect of subtropical aerosol loading on equatorial precipitation. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,048-11,056	4.9	10
471	The Time Scales of Variability of Marine Low Clouds. <i>Journal of Climate</i> , <b>2016</b> , 29, 6463-6481	4.4	22
470	Uncertainty Characteristics of Total Water Path Retrievals in Shallow Cumulus Derived from Spaceborne Radar/Radiometer Integral Constraints. <b>2016</b> , 33, 1597-1609		6
469	Slow Preconditioning for the Abrupt Convective Jump over the Northwest Pacific during Summer. <i>Journal of Climate</i> , <b>2016</b> , 29, 8103-8113	4.4	7
468	Impact of decadal cloud variations on the Earth's energy budget. <b>2016</b> , 9, 871-874		134
467	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2765-2783	6.8	52

466	Large-scale ocean circulation-cloud interactions reduce the pace of transient climate change. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3935-3943	4.9	42
465	Assessment of marine boundary layer cloud simulations in the CAM with CLUBB and updated microphysics scheme based on ARM observations from the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 8472-8492	4.4	14
464	Properties of cloud condensation nuclei (CCN) in the trade wind marine boundary layer of the western North Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2675-2688	6.8	26
463	Wind speed response of marine non-precipitating stratocumulus clouds over a diurnal cycle in cloud-system resolving simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5811-5839	6.8	11
462	Marine boundary layer structure as observed by A-train satellites. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5891-5903	6.8	13
461	Aerosols, clouds, and precipitation in the North Atlantic trades observed during the Barbados aerosol cloud experiment [Part 1: Distributions and variability. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 8643-8666	6.8	14
460	The role of precipitation and spatial organization in the response of trade-wind clouds to warming. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 843-862	7.1	42
459	Radiative driving of shallow return flows from the ITCZ. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 831-842	7.1	11
458	Understanding the tropical cloud feedback from an analysis of the circulation and stability regimes simulated from an upgraded multiscale modeling framework. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1825-1846	7.1	6
457	CGILS Phase 2 LES intercomparison of response of subtropical marine low cloud regimes to CO <sub>2</sub> quadrupling and a CMIP3 composite forcing change. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2016</b> , 8, 1714-1726	7.1	13
456	Understanding Climate Feedbacks and Sensitivity Using Observations of Earth's Energy Budget. <b>2016</b> , 2, 170-178		11
455	Factors Controlling Cloud Albedo in Marine Subtropical Stratocumulus Regions in Climate Models and Satellite Observations. <i>Journal of Climate</i> , <b>2016</b> , 29, 3559-3587	4.4	25
454	A Climatology of Clouds in Marine Cold Air Outbreaks in Both Hemispheres. <i>Journal of Climate</i> , <b>2016</b> , 29, 6677-6692	4.4	21
453	Constraints on Climate Sensitivity from Space-Based Measurements of Low-Cloud Reflection. <i>Journal of Climate</i> , <b>2016</b> , 29, 5821-5835	4.4	71
452	Exploring Stratocumulus Cloud-Top Entrainment Processes and Parameterizations by Using Doppler Cloud Radar Observations. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 729-742	2.1	16
451	Factors Controlling Stratocumulus Cloud Lifetime over Coastal Land. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 2961-2983	2.1	12
450	Aerosol indirect effects on glaciated clouds. Part 2: Sensitivity tests using solute aerosols. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2016</b> , 142, 1970-1981	6.4	4
449	The Barbados Cloud Observatory: Anchoring Investigations of Clouds and Circulation on the Edge of the ITCZ. <b>2016</b> , 97, 787-801		105

448	Robust cloud feedback over tropical land in a warming climate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 2593-2609	4.4	13
447	Stratocumulus Cloud Clearings and Notable Thermodynamic and Aerosol Contrasts across the Clear-CLOUDY Interface. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 1083-1099	2.1	20
446	Use of A-train satellite observations (CALIPSO/PARASOL) to evaluate tropical cloud properties in the LMDZ5 GCM. <i>Climate Dynamics</i> , <b>2016</b> , 47, 1263-1284	4.2	14
445	Uncertainty in Model Climate Sensitivity Traced to Representations of Cumulus Precipitation Microphysics. <i>Journal of Climate</i> , <b>2016</b> , 29, 543-560	4.4	89
444	Reproducibility of Summer Precipitation over Northern Eurasia in CMIP5 Multiclimatic Models. <i>Journal of Climate</i> , <b>2016</b> , 29, 3317-3337	4.4	10
443	Clouds and the Atmospheric Circulation Response to Warming. <i>Journal of Climate</i> , <b>2016</b> , 29, 783-799	4.4	75
442	Quantifying Marine Boundary Layer Water Vapor beneath Low Clouds with Near-Infrared and Microwave Imagery. <i>Journal of Applied Meteorology and Climatology</i> , <b>2016</b> , 55, 213-225	2.7	4
441	Understanding the Intermodel Spread in Global-Mean Hydrological Sensitivity*. <i>Journal of Climate</i> , <b>2016</b> , 29, 801-817	4.4	57
440	Impacts of cloud overlap assumptions on radiative budgets and heating fields in convective regions. <i>Atmospheric Research</i> , <b>2016</b> , 167, 89-99	5.4	10
439	Shallowness of tropical low clouds as a predictor of climate models' response to warming. <i>Climate Dynamics</i> , <b>2016</b> , 47, 433-449	4.2	71
438	Evaluation and intercomparison of clouds, precipitation, and radiation budgets in recent reanalyses using satellite-surface observations. <i>Climate Dynamics</i> , <b>2016</b> , 46, 2123-2144	4.2	39
437	Cloud-Top Entrainment in Stratocumulus Clouds. <b>2017</b> , 49, 145-169		89
436	Observational evidence against strongly stabilizing tropical cloud feedbacks. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1503-1510	4.9	10
435	A Global Multilayer Cloud Identification with POLDER/PARASOL. <i>Journal of Applied Meteorology and Climatology</i> , <b>2017</b> , 56, 1121-1139	2.7	11
434	Impact of explosive volcanic eruptions on the main climate variability modes. <b>2017</b> , 150, 24-45		59
433	Cloud feedback mechanisms and their representation in global climate models. <b>2017</b> , 8, e465		89
432	Large-eddy simulation of subtropical cloud-topped boundary layers: 2. Cloud response to climate change. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 19-38	7.1	16
431	Effects of cloud condensate vertical alignment on radiative transfer calculations in deep convective regions. <i>Atmospheric Research</i> , <b>2017</b> , 186, 107-115	5.4	6

430	Numerics and subgrid-scale modeling in large eddy simulations of stratocumulus clouds. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 1342-1365	7.1	28
429	CMIP5 models' shortwave cloud radiative response and climate sensitivity linked to the climatological Hadley cell extent. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5739-5748	4.9	24
428	Closed-Form Analytic Solution of Cloud Dissipation for a Mixed-Layer Model. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 2525-2556	2.1	2
427	Using Active Remote Sensing to Evaluate Cloud-Climate Feedbacks: a Review and a Look to the Future. <b>2017</b> , 3, 185-192		7
426	A probabilistic description of entrainment instability for cloud-topped boundary-layer models. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 650-660	6.4	2
425	The importance of ENSO nonlinearities in tropical pacific response to external forcing. <i>Climate Dynamics</i> , <b>2017</b> , 49, 2695-2704	4.2	36
424	Climate goals and computing the future of clouds. <b>2017</b> , 7, 3-5		115
423	The Multi-Sensor Advanced Climatology of Liquid Water Path (MAC-LWP). <i>Journal of Climate</i> , <b>2017</b> , 30, 10193-10210	4.4	58
422	On the Influence of Air Mass Origin on Low-Cloud Properties in the Southeast Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 11,076-11,091	4.4	12
421	Network approach to patterns in stratocumulus clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10578-10583	11.5	20
420	Cellular Statistical Models of Broken Cloud Fields. Part III: Markovian Properties. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 2921-2935	2.1	1
419	Seasonal Synchronization of a Simple Stochastic Dynamical Model Capturing El Niño Diversity. <i>Journal of Climate</i> , <b>2017</b> , 30, 10047-10066	4.4	5
418	Coherent Structures in Large-Eddy Simulations of a Nonprecipitating Stratocumulus-Topped Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 4117-4137	2.1	9
417	Beyond equilibrium climate sensitivity. <b>2017</b> , 10, 727-736		155
416	Influences of drizzle on stratocumulus cloudiness and organization. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6989-7003	4.4	13
415	Inter-Model Warming Projection Spread: Inherited Traits from Control Climate Diversity. <b>2017</b> , 7, 4300		10
414	The Role of Shallow Convection over the Tibetan Plateau. <i>Journal of Climate</i> , <b>2017</b> , 30, 5791-5803	4.4	13
413	Mechanisms and Model Diversity of Trade-Wind Shallow Cumulus Cloud Feedbacks: A Review. <b>2017</b> , 38, 1331-1353		37

412	Cloud radiative effects and changes simulated by the Coupled Model Intercomparison Project Phase 5 models. <b>2017</b> , 34, 859-876		1
411	Toward low-cloud-permitting cloud superparameterization with explicit boundary layer turbulence. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 1542-1571	7.1	29
410	Model evidence for low-level cloud feedback driving persistent changes in atmospheric circulation and regional hydroclimate. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 428-437	4.9	20
409	Assessing the accuracy of MISR and MISR-simulated cloud top heights using CloudSat- and CALIPSO-retrieved hydrometeor profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 2878-2897	4.4	4
408	Diagnosing Cloud Biases in the GFDL AM3 Model With Atmospheric Classification. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 12,827	4.4	1
407	The OCO-2 oxygen A-band response to liquid marine cloud properties from CALIPSO and MODIS. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8255-8275	4.4	8
406	Low-Cloud Feedbacks from Cloud-Controlling Factors: A Review. <b>2017</b> , 38, 1307-1329		71
405	Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors. <b>2017</b> , 38, 1483-1508		15
404	Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles. <b>2017</b> , 38, 1445-1482		15
403	Cloud albedo changes in response to anthropogenic sulfate and non-sulfate aerosol forcings in CMIP5 models. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9145-9162	6.8	9
402	An A-train and MERRA view of cloud, thermodynamic, and dynamic variability within the subtropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9451-9468	6.8	4
401	The relative importance of macrophysical and cloud albedo changes for aerosol-induced radiative effects in closed-cell stratocumulus: insight from the modelling of a case study. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5155-5183	6.8	33
400	Global and regional estimates of warm cloud droplet number concentration based on 13 years of AQUA-MODIS observations. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9815-9836	6.8	59
399	Framework for improvement by vertical enhancement: A simple approach to improve representation of low and high-level clouds in large-scale models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 627-646	7.1	8
398	The Diurnal Cycle of Clouds and Precipitation at the ARM SGP Site: An Atmospheric State-Based Analysis and Error Decomposition of a Multiscale Modeling Framework Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 13,387-13,403	4.4	1
397	Multiobjective constraints for climate model parameter choices: Pragmatic Pareto fronts in CESM1. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 2008-2026	7.1	7
396	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 359-384	6.3	125
395	A multi-diagnostic approach to cloud evaluation. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 2547-2566	6.3	12

394	Impact of detrained cumulus on climate simulated by the Community Atmosphere Model Version 5 with a unified convection scheme. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 1399-1411	7.1	23
393	Effects of environment forcing on marine boundary layer cloud-drizzle processes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 4463-4478	4.4	12
392	A Framework to Study Mixing Processes in the Marine Boundary Layer Using Water Vapor Isotope Measurements. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 2524-2532	4.9	10
391	What can decadal variability tell us about climate feedbacks and sensitivity?. <i>Climate Dynamics</i> , <b>2018</b> , 51, 3815-3828	4.2	12
390	Using the Atmospheric Radiation Measurement (ARM) Datasets to Evaluate Climate Models in Simulating Diurnal and Seasonal Variations of Tropical Clouds. <i>Journal of Climate</i> , <b>2018</b> , 31, 3301-3325	4.4	8
389	The Cloud Top Distribution and Diurnal Variation of Clouds Over East Asia: Preliminary Results From Advanced Himawari Imager. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3724-3739	4.4	26
388	An Extended Eddy-Diffusivity Mass-Flux Scheme for Unified Representation of Subgrid-Scale Turbulence and Convection. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 770-800	7.1	33
387	Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 1921-1941	4.4	24
386	Atmospheric Dynamics Feedback: Concept, Simulations, and Climate Implications. <i>Journal of Climate</i> , <b>2018</b> , 31, 3249-3264	4.4	14
385	Using Stable Isotopes in Water Vapor to Diagnose Relationships Between Lower-Tropospheric Stability, Mixing, and Low-Cloud Cover Near the Island of Hawaii. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 297-305	4.9	7
384	Simulation of mesoscale cellular convection in marine stratocumulus.: Part I: Drizzling conditions. <i>Journals of the Atmospheric Sciences</i> , <b>2018</b> , 75, 257-274	2.1	8
383	Evaluation of Relationships between Subtropical Marine Low Stratiform Cloudiness and Estimated Inversion Strength in CMIP5 Models Using the Satellite Simulator Package COSP. <b>2018</b> , 14, 25-32		6
382	Variability in modeled cloud feedback tied to differences in the climatological spatial pattern of clouds. <i>Climate Dynamics</i> , <b>2018</b> , 50, 1209-1220	4.2	12
381	Coupling between marine boundary layer clouds and summer-to-summer sea surface temperature variability over the North Atlantic and Pacific. <i>Climate Dynamics</i> , <b>2018</b> , 50, 955-969	4.2	20
380	On the compensation between cloud feedback and cloud adjustment in climate models. <i>Climate Dynamics</i> , <b>2018</b> , 50, 1267-1276	4.2	6
379	Dynamical and thermodynamical coupling between the North Atlantic subtropical high and the marine boundary layer clouds in boreal summer. <i>Climate Dynamics</i> , <b>2018</b> , 50, 2457-2469	4.2	6
378	Importance of positive cloud feedback for tropical Atlantic interhemispheric climate variability. <i>Climate Dynamics</i> , <b>2018</b> , 51, 1707-1717	4.2	17
377	The Diversity of Cloud Responses to Twentieth Century Sea Surface Temperatures. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 391-400	4.9	18

376	On the Emergent Constraints of Climate Sensitivity. <i>Journal of Climate</i> , <b>2018</b> , 31, 863-875	4.4	8
375	The influence of extratropical cloud phase and amount feedbacks on climate sensitivity. <i>Climate Dynamics</i> , <b>2018</b> , 50, 3097-3116	4.2	44
374	Cloud, precipitation and radiation responses to large perturbations in global dimethyl sulfide. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10177-10198	6.8	16
373	Building a cloud in the southeast Atlantic: understanding low-cloud controls based on satellite observations with machine learning. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16537-16552	6.8	17
372	Evaluation of autoconversion and accretion enhancement factors in general circulation model warm-rain parameterizations using ground-based measurements over the Azores. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17405-17420	6.8	15
371	Marine boundary layer aerosol in the eastern North Atlantic: seasonal variations and key controlling processes. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17615-17635	6.8	30
370	The importance of considering sub-grid cloud variability when using satellite observations to evaluate the cloud and precipitation simulations in climate models. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 3147-3158	6.3	13
369	Low-Cloud Feedback in CAM5-CLUBB: Physical Mechanisms and Parameter Sensitivity Analysis. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2844-2864	7.1	10
368	Evaluating and Improving a PDF Cloud Scheme Using High-Resolution Super Large Domain Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2245-2268	7.1	1
367	Turbulence Structure in a Stratocumulus Cloud. <i>Atmosphere</i> , <b>2018</b> , 9, 392	2.7	10
366	Insensitivity of the Cloud Response to Surface Warming Under Radical Changes to Boundary Layer Turbulence and Cloud Microphysics: Results From the Ultraparameterized CAM. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 3139-3158	7.1	13
365	Organization and Oscillations in Simulated Shallow Convective Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2287-2299	7.1	5
364	Feedback mechanisms of shallow convective clouds in a warmer climate as demonstrated by changes in buoyancy. <b>2018</b> , 13, 054033		5
363	Observing Clouds in 4D with Multiview Stereophotogrammetry. <b>2018</b> , 99, 2575-2586		9
362	Effect of coupled global climate models sea surface temperature biases on simulated climate of the western United States. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 5386-5404	3.5	7
361	The Challenge of Identifying Controls on Cloud Properties and Precipitation Onset for Cumulus Congestus Sampled During MC3E. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3126-3144	4.4	1
360	A Diagnostic PDF Cloud Scheme to Improve Subtropical Low Clouds in NCAR Community Atmosphere Model (CAM5). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 320-341	7.1	19
359	Roles of Cloud Microphysics on Cloud Responses to Sea Surface Temperatures in Radiative-Convective Equilibrium Experiments Using a High-Resolution Global Nonhydrostatic Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 1970-1989	7.1	18

358	Energy Minimization for Cirrus and Cumulus Cloud Separation in Atmospheric Images. <b>2018</b> ,		
357	Large simulated radiative effects of smoke in the south-east Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 15261-15289	6.8	42
356	Shallow Convective Cloud Field Lifetime as a Key Factor for Evaluating Aerosol Effects. <b>2018</b> , 10, 192-202		9
355	Accounting for Vertical Subgrid-Scale Heterogeneity in Low-Level Cloud Fraction Parameterizations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2686-2705	7.1	6
354	The Implications for Radiative Cloud Forcing via the Link Between Shallow Convection and Planetary Boundary Layer Mixing. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,203	4.4	3
353	The Relationship Between Cloud Radiative Effect and Surface Temperature Variability at El Niño-Southern Oscillation Frequencies in CMIP5 Models. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10,599	4.9	4
352	Can We Use Single-Column Models for Understanding the Boundary Layer Cloud-Climate Feedback?. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 245-261	7.1	7
351	Influence of the Subtropical High and Storm Track on Low-Cloud Fraction and Its Seasonality over the South Indian Ocean. <i>Journal of Climate</i> , <b>2018</b> , 31, 4017-4039	4.4	21
350	Assessing the Coupled Influences of Clouds on the Atmospheric Energy and Water Cycles in Reanalyses with A-Train Observations. <i>Journal of Climate</i> , <b>2018</b> , 31, 8241-8264	4.4	4
349	Influences of Subsidence and Free-Tropospheric Conditions on the Nocturnal Growth of Nonclassical Marine Stratocumulus. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2706-2730	7.1	3
348	Relationships Between Inversion Strength, Lower-Tropospheric Moistening, and Low-Cloud Fraction in the Subtropical Southeast Pacific Derived From Stable Isotopologues of Water Vapor. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7701-7710	4.9	3
347	Evaluating the diurnal cycle of South Atlantic stratocumulus clouds as observed by MSG SEVIRI. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13283-13304	6.8	7
346	Low clouds link equilibrium climate sensitivity to hydrological sensitivity. <b>2018</b> , 8, 901-906		21
345	Top-of-Atmosphere Shortwave Anisotropy over Liquid Clouds: Sensitivity to Clouds Microphysical Structure and Cloud-Topped Moisture. <i>Atmosphere</i> , <b>2018</b> , 9, 256	2.7	1
344	The Signature of Shallow Circulations, Not Cloud Radiative Effects, in the Spatial Distribution of Tropical Precipitation. <i>Journal of Climate</i> , <b>2018</b> , 31, 9489-9505	4.4	11
343	Deep learning to represent subgrid processes in climate models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9684-9689	11.5	227
342	Characteristics of Optically Thin Coastal Florida Cumuli Derived From Surface-Based Lidar Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 10,591	4.4	11
341	Information content of OCO-2 oxygen A-band channels for retrieving marine liquid cloud properties. <b>2018</b> , 11, 1515-1528		7



340	Physical model for multiple scattered space-borne lidar returns from clouds. <b>2018</b> , 26, A301-A319		14
339	Cloud-Precipitation Parameters and Radiative Forcing of Warm Precipitating Cloud over the Tropical Pacific Ocean Based on TRMM Datasets and Radiative Transfer Model. <i>Atmosphere</i> , <b>2018</b> , 9, 206	2.7	
338	Macro- and Microphysical Characteristics of Precipitating and Non-Precipitating Stratocumulus Clouds over Eastern China. <i>Atmosphere</i> , <b>2018</b> , 9, 237	2.7	4
337	Control of ITCZ Width by Low-Level Radiative Heating From Upper-Level Clouds in Aquaplanet Simulations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5788-5797	4.9	12
336	Understanding Global Model Systematic Shortwave Radiation Errors in Subtropical Marine Boundary Layer Cloud Regimes. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2042-2060	7.1	5
335	Coordination to Understand and Reduce Global Model Biases by U.S. and Chinese Institutions. <b>2018</b> , 99, ES109-ES113		4
334	Global Character of Latent Heat Release in Oceanic Warm Rain Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4797-4817	4.4	8
333	Understanding Negative Subtropical Shallow Cumulus Cloud Feedbacks in a Near-Global Aquaplanet Model Using Limited Area Cloud-Resolving Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 1600-1626	7.1	3
332	Distinct Patterns of Cloud Changes Associated with Decadal Variability and Their Contribution to Observed Cloud Cover Trends. <i>Journal of Climate</i> , <b>2019</b> , 32, 7281-7301	4.4	3
331	Regional Superparameterization in a Global Circulation Model Using Large Eddy Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2958-2979	7.1	10
330	Linear theory of shallow convection in deep, vertically sheared atmospheres. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2019</b> , 145, 3129-3147	6.4	3
329	Surface winds across eastern and midcontinental North America during the Last Glacial Maximum: A new data-model assessment. <b>2019</b> , 220, 14-29		5
328	Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 2727-2765	6.3	174
327	Variability of bulk water vapor content in the marine cloudy boundary layers from microwave and near-infrared imagery. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 8491-8502	6.8	1
326	Unified Parameterization of Convective Boundary Layer Transport and Clouds With the Thermal Plume Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2910-2933	7.1	15
325	Investigating the Diurnal Evolution of the Cloud Size Distribution of Continental Cumulus Convection Using Multiday LES. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 729-747	2.1	14
324	Responses of Clouds and Large-Scale Circulation to Global Warming Evaluated From Multidecadal Simulations Using a Global Nonhydrostatic Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2980-2995	7.1	11
323	Evaluation of Surface Radiative Fluxes over the Tropical Oceans in AMIP Simulations. <i>Atmosphere</i> , <b>2019</b> , 10, 606	2.7	3

322	A Path-Tracing Monte Carlo Library for 3-D Radiative Transfer in Highly Resolved Cloudy Atmospheres. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2449-2473	7.1	12
321	Observational Evidence for Two Modes of Coupling Between Sea Surface Temperatures, Tropospheric Temperature Profile, and Shortwave Cloud Radiative Effect in the Tropics. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 9890-9898	4.9	22
320	Climate Change Feedbacks in Aquaplanet Experiments With Explicit and Parametrized Convection for Horizontal Resolutions of 2,525 Up to 5km. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2070-2088	7.1	7
319	Cellular Statistical Models of Broken Cloud Fields. Part IV: Effects of Pixel Size on Idealized Satellite Observations. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 1329-1348	2.1	0
318	A Unified Eddy-Diffusivity/Mass-Flux Approach for Modeling Atmospheric Convection. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 2505-2537	2.1	15
317	A Method for Assessing Relative Skill in Retrieving Cloud and Precipitation Properties in Next-Generation Cloud Radar and Radiometer Orbiting Observatories. <b>2019</b> , 36, 2283-2306		2
316	Using A-Train Observations to Evaluate Cloud Occurrence and Radiative Effects in the Community Atmosphere Model during the Southeast Asia Summer Monsoon. <i>Journal of Climate</i> , <b>2019</b> , 32, 4145-4165	4.4	7
315	Aerosol properties and their influences on low warm clouds during the Two-Column Aerosol Project. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 9515-9529	6.8	10
314	Cloud Radiative Feedbacks during the ENSO Cycle Simulated by CAMS-CSM. <b>2019</b> , 33, 666-677		3
313	Performance of CAMS-CSM in Simulating the Shortwave Cloud Radiative Effect over Global Stratus Cloud Regions: Baseline Evaluation and Sensitivity Test. <b>2019</b> , 33, 651-665		1
312	Propagation of Error and the Reliability of Global Air Temperature Projections. <b>2019</b> , 7,		3
311	Comparisons of AGRI/FY-4A Cloud Fraction and Cloud Top Pressure with MODIS/Terra Measurements over East Asia. <b>2019</b> , 33, 705-719		7
310	A New Perspective on Coastally Trapped Disturbances Using Data from the Satellite Era. <b>2019</b> , 100, 631-651		4
309	Boundary Layer Clouds and Convection over Subtropical Oceans in our Current and in a Warmer Climate. <b>2019</b> , 5, 80-94		19
308	Using Radar Data to Calibrate a Stochastic Parametrization of Organized Convection. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 1655-1684	7.1	4
307	Merged Cloud and Precipitation Dataset from the HIAPER GV for the Cloud System Evolution in the Trades (CSET) Campaign. <b>2019</b> , 36, 921-940		6
306	Subgrid variations of the cloud water and droplet number concentration over the tropical ocean: satellite observations and implications for warm rain simulations in climate models. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 1077-1096	6.8	18
305	Quantifying variations in shortwave aerosol-cloud-radiation interactions using local meteorology and cloud state constraints. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6251-6268	6.8	14

304	Marine liquid cloud geometric thickness retrieved from OCO-2's oxygen A-band spectrometer. <b>2019</b> , 12, 1717-1737		9
303	FRESCO-B: a fast cloud retrieval algorithm using oxygen B-band measurements from GOME-2. <b>2019</b> , 12, 2485-2498		5
302	A refined model for the Earth's global energy balance. <i>Climate Dynamics</i> , <b>2019</b> , 53, 4781-4797	4.2	20
301	Cloud System Evolution in the Trades-CSET: Following the Evolution of Boundary Layer Cloud Systems with the NSF/NCAR GV. <b>2019</b> , 100, 93-121		28
300	Improvement of airborne retrievals of cloud droplet number concentration of trade wind cumulus using a synergetic approach. <b>2019</b> , 12, 1635-1658		5
299	Ongoing Breakthroughs in Convective Parameterization. <b>2019</b> , 5, 95-111		24
298	Fine Vertical Resolution Radiative-Convective Equilibrium Experiments: Roles of Turbulent Mixing on the High-Cloud Response to Sea Surface Temperatures. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 1637-1654	7.1	13
297	Seasonal and Interannual Variation Characteristics of Low-Cloud Fraction in Different North Pacific Regions. <i>Atmosphere</i> , <b>2019</b> , 10, 126	2.7	2
296	Evaluating Cloud Feedbacks and Rapid Responses in the ACCESS Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 350-366	4.4	0
295	Evaluating Marine Stratocumulus Clouds in the CNRM-CM6-1 Model Using Short-Term Hindcasts. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 127-148	7.1	14
294	Influence of Atmosphere Near-Surface Layer Properties on Development of Cloud Convection. <i>Atmosphere</i> , <b>2019</b> , 10, 131	2.7	4
293	Fifteen-year statistical analysis of cloud characteristics over China using Terra and Aqua Moderate Resolution Imaging Spectroradiometer observations. <i>International Journal of Climatology</i> , <b>2019</b> , 39, 2612-2629 <sup>35</sup>	2.5	35
292	A New Stochastic Model for the Boundary Layer Clouds and Stratocumulus Phase Transition Regimes: Open Cells, Closed Cells, and Convective Rolls. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 367-386	4.4	4
291	Multi-model evaluation of the sensitivity of the global energy budget and hydrological cycle to resolution. <i>Climate Dynamics</i> , <b>2019</b> , 52, 6817-6846	4.2	40
290	Evaluating models' response of tropical low clouds to SST forcings using CALIPSO observations. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 2813-2832	6.8	17
289	Midlatitude Oceanic Cloud and Precipitation Properties as Sampled by the ARM Eastern North Atlantic Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4741-4760	4.4	13
288	A Cloud Top Radiative Cooling Model Coupled With CLUBB in the Community Atmosphere Model: Description and Simulation of Low Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 979-997	4.7	5
287	Sensitivity to Physical and Numerical Aspects of Large-Eddy Simulation of Stratocumulus. <b>2019</b> , 147, 2621-2639		6

286	Can We Constrain Uncertainty in Hydrologic Cycle Projections?. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 3911-3916	4.9	17
285	Parameterization of Vertical Profiles of Governing Microphysical Parameters of Shallow Cumulus Cloud Ensembles Using LES with Bin Microphysics. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 533-560 <sup>2,1</sup>	7.1	12
284	The Strength of Low-Cloud Feedbacks and Tropical Climate: A CESM Sensitivity Study. <i>Journal of Climate</i> , <b>2019</b> , 32, 2497-2516	4.4	12
283	A New Look at the Daily Cycle of Trade Wind Cumuli. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 3148-3166	7.1	25
282	Effects of aerosol in simulations of realistic shallow cumulus cloud fields in a large domain. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 13507-13517	6.8	4
281	The Dependence of Shallow Cumulus Macrophysical Properties on Large-Scale Meteorology as Observed in ASTER Imagery. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 11477-11505	4.4	13
280	Subtropical Marine Low Stratiform Cloud Deck Spatial Errors in the E3SMv1 Atmosphere Model. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12598-12607	4.9	7
279	The Impact of a Stochastic Parameterization Scheme on Climate Sensitivity in EC-Earth. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 12726-12740	4.4	3
278	The Application of the SVD Method to Reduce Coupled Model Biases in Seasonal Predictions of Rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 11837-11849	4.4	5
277	Geoengineering. <b>2019</b> , 15-44		
276	A Further Study on the Simulation of Cloud-Radiative Feedbacks in the ENSO Cycle in the Tropical Pacific with a Focus on the Asymmetry. <b>2019</b> , 55, 303-316		8
275	Optimization of the Eddy-Diffusivity/Mass-Flux Shallow Cumulus and Boundary-Layer Parameterization Using Surrogate Models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 402-416 <sup>7,1</sup>	7.1	4
274	Long-term cloud fraction biases in CMIP5 GCMs over India during monsoon season. <i>Theoretical and Applied Climatology</i> , <b>2019</b> , 137, 2559-2571	3	1
273	Extreme El Niño Events. <b>2019</b> , 165-201		1
272	ENSO feedbacks and their relationships with the mean state in a flux adjusted ensemble. <i>Climate Dynamics</i> , <b>2019</b> , 52, 7189-7208	4.2	10
271	Impact of Global Warming on the Western North Pacific Circulation Anomaly during Developing El Niño. <i>Journal of Climate</i> , <b>2020</b> , 33, 2333-2349	4.4	2
270	Influence of deepening and mesoscale organization of shallow convection on stratiform cloudiness in the downstream trades. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> , 146, 174-185	6.4	5
269	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085601 <sup>8,5</sup>	6.5	17

268	An Assessment of PBL Heights and Low Cloud Profiles in CAM5 and CAM5-CLUBB Over the Southeast Pacific Using Satellite Observations. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL084498	4.9	2
267	Radiative effects of daily cycle of cloud frequency in past and future climates. <i>Climate Dynamics</i> , <b>2020</b> , 54, 1625-1637	4.2	4
266	Discovering the Importance of Mesoscale Cloud Organization Through Unsupervised Classification. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085190	4.9	14
265	Causes of Higher Climate Sensitivity in CMIP6 Models. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085782	4.9	378
264	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. <b>2020</b> , 58, e2019RG000678		209
263	The Reduction in Near-Global Cloud Cover After Correcting for Biases Caused by Finite Resolution Measurements. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090313	4.9	1
262	Two-Point Mixing, Buoyancy Sorting, and Updraft Dilution in the RACORO Campaign. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090674	4.9	
261	Unified Entrainment and Detrainment Closures for Extended Eddy-Diffusivity Mass-Flux Schemes. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002162	7.1	3
260	Linking large-scale circulation patterns to low-cloud properties. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7125-7138	6.8	2
259	Uncertainty quantification based cloud parameterization sensitivity analysis in the NCAR community atmosphere model. <b>2020</b> , 10, 17499		2
258	On the Increase of Climate Sensitivity and Cloud Feedback With Warming in the Community Atmosphere Models. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089143	4.9	5
257	Understanding the Extreme Spread in Climate Sensitivity within the Radiative-Convective Equilibrium Model Intercomparison Project. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002165	7.1	12
256	Profiles of MBL Cloud and Drizzle Microphysical Properties Retrieved From Ground-Based Observations and Validated by Aircraft In Situ Measurements Over the Azores. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032205	4.4	9
255	Diagnostics-Driven Nonstationary Emulators Using Kernel Mixtures. <b>2020</b> , 8, 1-26		6
254	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS002010	7.1	188
253	Diurnal cycle of the semi-direct effect from a persistent absorbing aerosol layer over marine stratocumulus in large-eddy simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 1317-1340	6.8	17
252	The relationship between low-level cloud amount and its proxies over the globe by cloud type. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3041-3060	6.8	
251	On the Parameterization of Convective Downdrafts for Marine Stratocumulus Clouds. <b>2020</b> , 148, 1931-1950		8

250	Internal Model Variability of the Regional Coupled System Model GCOAST-AHOI. <i>Atmosphere</i> , <b>2020</b> , 11, 227	2.7	8
249	Representation of Boundary-Layer Processes in Numerical Weather Prediction and Climate Models. <b>2020</b> , 177, 511-539		16
248	A Long-Term Cloud Albedo Data Record Since 1980 from UV Satellite Sensors. <b>2020</b> , 12, 1982		2
247	Quantifying cloud adjustments and the radiative forcing due to aerosol-cloud interactions in satellite observations of warm marine clouds. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 6225-6241	6.8	6
246	Is the Faint Young Sun Problem for Earth Solved?. <b>2020</b> , 216, 1		14
245	Observed Evolution of the Tropical Atmospheric Water Cycle with Sea Surface Temperature. <i>Journal of Climate</i> , <b>2020</b> , 33, 3449-3470	4.4	1
244	Sugar, Gravel, Fish, and Flowers: Dependence of Mesoscale Patterns of Trade-Wind Clouds on Environmental Conditions. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085988	4.9	30
243	Global variability in radiative-convective equilibrium with a slab ocean under a wide range of CO2 concentrations. <b>2020</b> , 72, 1-19		5
242	Evaluation of Rain Microphysics Using a Radar Simulator and Numerical Models: Comparison of Two-Moment Bulk and Spectral Bin Cloud Microphysics Schemes. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001891	7.1	3
241	Contrasting Scale Dependence of Entrainment-Mixing Mechanisms in Stratocumulus Clouds. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL086970	4.9	11
240	Statistically Steady State Large-Eddy Simulations Forced by an Idealized GCM: 1. Forcing Framework and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001814	7.1	14
239	Configuring LES Based on Dropsonde Data in Sparsely Sampled Areas in the Subtropical Atlantic. <i>Journal of Applied Meteorology and Climatology</i> , <b>2020</b> , 59, 297-315	2.7	1
238	Cloud Impacts on Korea Shortwave Radiation Budget: Estimation from a Deterministic Model with Surface Measurements. <b>2021</b> , 57, 321-330		0
237	Galilean invariance of shallow cumulus convection large-eddy simulations. <b>2021</b> , 427, 110012		0
236	Quantifying the energetic feedbacks in ENSO. <i>Climate Dynamics</i> , <b>2021</b> , 56, 139-153	4.2	1
235	Role of the Atlantic multidecadal variability in modulating East Asian climate. <i>Climate Dynamics</i> , <b>2021</b> , 56, 381-398	4.2	5
234	On the Abundance and Common Properties of Continental, Organized Shallow (Green) Clouds. <b>2021</b> , 59, 4570-4578		2
233	Processes controlling the vertical aerosol distribution in marine stratocumulus regions: a sensitivity study using the climate model NorESM1-M. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 577-595	6.8	1

232	Inter-model Variability in Convection-Resolving Simulations of Subtropical Marine Low Clouds. <b>2021</b> , 99,		2
231	Characterizing Convection Schemes Using Their Responses to Imposed Tendency Perturbations.		
230	Observational constraint on cloud feedbacks suggests moderate climate sensitivity. <b>2021</b> , 11, 213-218		16
229	An overview of the ORACLES (ObseRvations of Aerosols above Clouds and their intEractionS) project: aerosol-cloud-radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1507-1563	6.8	37
228	The Peculiar Trajectory of Global Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033629	4.4	3
227	Cloud Patterns in the Trades Have Four Interpretable Dimensions. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091001	4.9	6
226	Confronting Grand Challenges in environmental fluid mechanics. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	8
225	A stochastic closure for two-moment bulk microphysics of warm clouds: part II, parameter constraint and validation. <b>2021</b> , 8, 1		
224	Evaluating the Lagrangian Evolution of Subtropical Low Clouds in GCMs Using Observations: Mean Evolution, Time Scales, and Responses to Predictors. <i>Journals of the Atmospheric Sciences</i> , <b>2021</b> , 78, 353-372	3.7	12
223	Atmospheric radiative profiles during EUREC4A. <i>Earth System Science Data</i> , <b>2021</b> , 13, 617-630	10.5	2
222	A-Train estimates of the sensitivity of the cloud-to-rainwater ratio to cloud size, relative humidity, and aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 2765-2779	6.8	2
221	The importance of uncertainty quantification in model reproducibility. <b>2021</b> , 379, 20200071		4
220	Vertical dependence of horizontal variation of cloud microphysics: observations from the ACE-ENA field campaign and implications for warm-rain simulation in climate models. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3103-3121	6.8	3
219	Use of Neural Networks for Stable, Accurate and Physically Consistent Parameterization of Subgrid Atmospheric Processes With Good Performance at Reduced Precision. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091363	4.9	18
218	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast Part 2: Circulation, Boundary Layer, and Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033423	4.4	8
217	Assessing uncertainties from physical parameters and modelling choices in an atmospheric large eddy simulation model. <b>2021</b> , 379, 20200073		2
216	Shallow cumulus cloud feedback in large eddy simulations bridging the gap to storm-resolving models. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3275-3288	6.8	3
215	Dispersion of Droplet Size Distributions in Supercooled Non-precipitating Stratocumulus from Aircraft Observations Obtained during the Southern Ocean Cloud Radiation Aerosol Transport Experimental Study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033720	4.4	8

214	New Observational Constraints on Warm Rain Processes and Their Climate Implications. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091836	4.9	3
213	Ocean surface energy balance allows a constraint on the sensitivity of precipitation to global warming. <b>2021</b> , 12, 2115		1
212	Impact of middle atmospheric humidity on boundary layer turbulence and clouds. <b>2021</b> , 215, 105553		1
211	A fast cloud geometrical thickness retrieval algorithm for single-layer marine liquid clouds using OCO-2 oxygen A-band measurements. <b>2021</b> , 256, 112305		0
210	Vertical Variation of Turbulent Entrainment Mixing Processes in Marine Stratocumulus Clouds Using High-Resolution Digital Holography. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033527	4.4	6
209	Contrasting Observed Atmospheric Responses to Tropical Sea Surface Temperature Warming Patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033564	4.4	1
208	Dry Deposition of Atmospheric Aerosols: Approaches, Observations, and Mechanisms. <b>2021</b> , 72, 375-397		8
207	Maritime Cloud and Drizzle Microphysical Properties Retrieved From Ship-Based Observations During MAGIC. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001588	3.1	0
206	SimCloud version 1.0: a simple diagnostic cloud scheme for idealized climate models. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 2801-2826	6.3	1
205	Aircraft measurements of aerosol and trace gas chemistry in the eastern North Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 7983-8002	6.8	10
204	The Dominant Contribution of Southern Ocean Heat Uptake to Time-Evolving Radiative Feedback in CESM. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093302	4.9	3
203	Emergent Constraints on Regional Cloud Feedbacks. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092934	4.9	3
202	Observational constraints on low cloud feedback reduce uncertainty of climate sensitivity. <b>2021</b> , 11, 501-507		23
201	Characterizing Convection Schemes Using Their Responses to Imposed Tendency Perturbations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002461	7.1	1
200	Tracking Changes in Climate Sensitivity in CNRM Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002190	7.1	1
199	Underestimated marine stratocumulus cloud feedback associated with overly active deep convection in models. <b>2021</b> , 16, 074015		0
198	The Energy Exascale Earth System Model Simulations With High Vertical Resolution in the Lower Troposphere. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002239	7.1	6
197	The Implementation of Framework for Improvement by Vertical Enhancement Into Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002240	7.1	6



196	Diurnal variation of deep convective clouds over Indian monsoon region and its association with rainfall. <i>Atmospheric Research</i> , <b>2021</b> , 255, 105540	5.4	1
195	Uncertainty Quantification and Bayesian Inference of Cloud Parameterization in the NCAR Single Column Community Atmosphere Model (SCAM6). <b>2021</b> , 3,		0
194	Spatial heterogeneity of aerosol induced rapid adjustments on precipitation response over India: a general circulation model study with ECHAM6-HAM2. <i>Climate Dynamics</i> , 1	4.2	
193	Observational evidence that cloud feedback amplifies global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10
192	Toward Parametrization of Precipitating Shallow Cumulus Cloud Organization via Moisture Variance. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034939	4.4	1
191	Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11079-11098	6.8	3
190	On the contribution of fast and slow responses to precipitation changes caused by aerosol perturbations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 10179-10197	6.8	1
189	Contrasting Responses of Idealised and Realistic Simulations of Shallow Cumuli to Aerosol Perturbations. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094137	4.9	1
188	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <b>2021</b> , 1-51		10
187	Comprehensive quantification of height dependence of entrainment mixing between stratiform cloud top and environment. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11225-11241	6.8	2
186	Performance optimization and load-balancing modeling for superparametrization by 3D LES. <b>2021</b> ,		
185	Cloud Radar Observations of Diurnal and Seasonal Cloudiness over Reunion Island. <i>Atmosphere</i> , <b>2021</b> , 12, 868	2.7	
184	Evaluation of Mean State in NCEP Climate Forecast System (Version 2) Simulation Using a Stochastic Multicloud Model Calibrated With DYNAMO RADAR Data. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001455	3.1	
183	CloudCT 3D volumetric tomography: considerations for imager preference, comparing visible light, short-wave infrared, and polarized imagers. <b>2021</b> ,		0
182	Changing El Niño Southern Oscillation in a warming climate. <b>2021</b> , 2, 628-644		26
181	Characterization and Evolution of Organized Shallow Convection in the Downstream North Atlantic Trades. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034575	4.4	9
180	Deciphering organization of GOES-16 green cumulus through the empirical orthogonal function (EOF) lens. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 12261-12272	6.8	1
179	A New Approach for Simultaneous Estimation of Entrainment and Detrainment Rates in Non-Precipitating Shallow Cumulus. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093817	4.9	3

178	Droplet characteristics in monsoon clouds before rain as observed over a high altitude site in Western Ghats, India. <b>2021</b> , 221, 105709		1
177	A Regime-Based Investigation Into the Errors of CMIP6 Simulated Cloud Radiative Effects Using Satellite Observations. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095399	4.9	2
176	Changes of South-Central Pacific Large-Scale Environment Associated With Hydrometeors-Radiation-Circulation Interactions in a Coupled GCM. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034973	4.4	0
175	Calibration and Uncertainty Quantification of Convective Parameters in an Idealized GCM. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002454	7.1	4
174	Climatology of Cloud-Top Radiative Cooling in Marine Shallow Clouds. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094676	4.9	1
173	Link Between Opaque Cloud Properties and Atmospheric Dynamics in Observations and Simulations of Current Climate in the Tropics, and Impact on Future Predictions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033899	4.4	0
172	Shutdown of Southern Ocean convection controls long-term greenhouse gas-induced warming.		4
171	From Sugar to Flowers: A Transition of Shallow Cumulus Organization During ATOMIC. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002619	7.1	3
170	Contrasting characteristics of open- and closed-cellular stratocumulus cloud in the eastern North Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14557-14571	6.8	3
169	Integrated cloud macro- and micro-physics schemes with kinetic treatment of condensation processes for global models. <i>Atmospheric Research</i> , <b>2021</b> , 261, 105745	5.4	1
168	Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles. <b>2017</b> , 273-310		4
167	Low-Cloud Feedbacks from Cloud-Controlling Factors: A Review. <b>2017</b> , 135-157		7
166	Mechanisms and Model Diversity of Trade-Wind Shallow Cumulus Cloud Feedbacks: A Review. <b>2017</b> , 159-181		8
165	Representing the Sensitivity of Convective Cloud Systems to Tropospheric Humidity in General Circulation Models. <b>2011</b> , 305-324		1
164	Diagnosing Climate Feedbacks in Coupled Ocean-Atmosphere Models. <b>2012</b> , 401-412		1
163	On the spread of changes in marine low cloud cover in climate model simulations of the 21st century. <b>2014</b> , 42, 2603		1
162	Interacting Climates of Ocean Basins: Observations, Mechanisms, Predictability, and Impacts. <b>2020</b> ,		1
161	Indian Ocean Variability and Interactions. <b>2020</b> , 153-185		1

160	How Wind Shear Affects Trade-wind Cumulus Convection. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002183	7.1	5
159	High sensitivity of tropical precipitation to local sea surface temperature. <b>2021</b> , 589, 408-414		6
158	Statistical-mechanical approach to study the hydrodynamic stability of the stably stratified atmospheric boundary layer. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	6
157	Kilometer-Scale Climate Models: Prospects and Challenges. <b>2020</b> , 101, E567-E587		40
156	Estimating the Shallow Convective Mass Flux from the Subcloud-Layer Mass Budget. <i>Journals of the Atmospheric Sciences</i> , <b>2020</b> , 77, 1559-1574	2.1	7
155	AirSea Interactions among Oceanic Low-Level Cloud, Sea Surface Temperature, and Atmospheric Circulation on an Intraseasonal Time Scale in the Summertime North Pacific Based on Satellite Data Analysis. <i>Journal of Climate</i> , <b>2020</b> , 33, 9195-9212	4.4	3
154	Intermodel Spread in the Pattern Effect and Its Contribution to Climate Sensitivity in CMIP5 and CMIP6 Models. <i>Journal of Climate</i> , <b>2020</b> , 33, 7755-7775	4.4	23
153	A Method for a Direct Measure of Entrainment and Detrainment. <b>2020</b> , 148, 3329-3340		3
152	Modeling the depolarization of space-borne lidar signals. <b>2019</b> , 27, A117-A132		15
151	The Aqua-Planet Experiment (APE): CONTROL SST Simulation. <b>2013</b> , 91A, 17-56		53
150	Impacts of Sub-grid Ice Cloud Physics in a Turbulence Scheme on High Clouds and their Response to Global Warming. <b>2020</b> , 98, 1069-1081		4
149	Marine Low Clouds and their Parameterization in Climate Models. <b>2020</b> , 98, 1097-1127		4
148	Towards Understanding Cloud Response in Atmospheric GCMs: The Use of Tendency Diagnostics. <b>2008</b> , 86, 69-79		21
147	Comparison of Cloud Response to CO2 Doubling in Two GCMs. <b>2008</b> , 4, 29-32		4
146	Responses of Subtropical Marine Stratocumulus Cloud to Perturbed Lower Atmospheres. <b>2014</b> , 10, 34-38		8
145	Radiative heating rate profiles over the southeast Atlantic Ocean during the 2016 and 2017 biomass burning seasons. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10073-10090	6.8	3
144	Evaluation of stratocumulus cloud prediction in the Met Office forecast model during VOCALS-REx.		5
143	A regional real-time forecast of marine boundary layers during VOCALS-Rex.		2

142	Simulation of low clouds in the Southeast Pacific by the NCEP GFS: sensitivity to vertical mixing.	2
141	Evaluating the effects of microphysical complexity in idealised simulations of trade wind cumulus using the Factorial Method.	1
140	Wind speed dependent size-resolved parameterization for the organic enrichment of sea spray.	2
139	Large-scale and synoptic meteorology in the South-East Pacific during the observations campaign VOCALS-REX in Spring 2008.	4
138	Statistical analysis of a LES shallow cumulus cloud ensemble using a cloud tracking algorithm.	1
137	The scale problem in quantifying aerosol indirect effects.	1
136	Relationship between cloud radiative forcing, cloud fraction and cloud albedo, and new surface-based approach for determining cloud albedo.	1
135	Southeast Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REX.	5
134	An empirical model of global climate IPart 1: Reduced impact of volcanoes upon consideration of ocean circulation.	2
133	The Atmospheric Infrared Sounder Version 6 cloud products.	1
132	Marine boundary layer cloud regimes and POC formation in an LES coupled to a bulk aerosol scheme.	1
131	The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface.	5
130	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models.	3
129	Wind speed response of marine non-precipitating stratocumulus clouds over a diurnal cycle in cloud-system resolving simulations.	3
128	Marine boundary layer structure as observed by space-based Lidar.	1
127	Comparison of a global-climate model simulation to a cloud-system resolving model simulation for long-term thin stratocumulus clouds.	4
126	Synoptically-induced variability in the microphysical properties of the South East Pacific stratocumulus deck.	2
125	A new Orbiting Carbon Observatory-2 cloud flagging method and rapid retrieval of marine boundary layer cloud properties. <b>2020</b> , 13, 4947-4961	0

- 124 Does Antarctic glaciation cool the world? 1
- 123 Trade-wind clouds and aerosols characterized by airborne horizontal lidar measurements during the EUREC4A field campaign. *Earth System Science Data*, **2020**, 12, 2919-2936 10.5 8
- 122 Global evidence of aerosol-induced invigoration in marine cumulus clouds. *Atmospheric Chemistry and Physics*, **2021**, 21, 15103-15114 6.8 0
- 121 Biases Beyond the Mean in CMIP6 Extreme Precipitation: A Global Investigation. **2021**, 9, e2021EF002196 5
- 120 The relationship between precipitation and its spatial organisation in the trades observed during EUREC4A.
- 119 Radiation budget estimates over Africa and surrounding oceans: inter-annual comparisons.
- 118 Dependence of cloud fraction and cloud top height on surface temperature derived from spectrally resolved UV/vis satellite observations.
- 117 Marine boundary layer over the subtropical southeast Pacific during VOCALS-REx [Part 1: Mean structure and diurnal cycle. 1
- 116 Explicit cloud-top entrainment parameterization in the global climate model ECHAM5-HAM.
- 115 Wind speed dependent size-resolved parameterization for the organic enrichment of sea spray.
- 114 On the relationship between low cloud variability and lower tropospheric stability in the Southeast Pacific.
- 113 Advances and limitations of atmospheric boundary layer observations with GPS occultation over Southeast Pacific Ocean.
- 112 Microphysical controls on the stratocumulus topped boundary-layer structure during VOCALS-REx.
- 111 Understanding and Measuring Earth's Energy Budget: From Fourier, Humboldt, and Tyndall to CERES and Beyond. **2012**, 5-18 1
- 110 The Role of Clouds: An Introduction and Rapporteur Report. **2012**, 277-285
- 109 Evaluation of biospheric components in Earth system models using modern and palaeo observations: the state-of-the-art. 1
- 108 Atmospheric parameters in a subtropical cloud regime transition derived by AIRS+MODIS [ observed statistical variability compared to ERA-Interim.
- 107 The interdependence of continental warm cloud properties derived from unexploited solar background signal in ground-based lidar measurements.

106	Impact of the representation of marine stratocumulus clouds on the anthropogenic aerosol effect.		
105	Aerosol specification in single-column CAM5.		
104	Prognostic precipitation with three liquid water classes in the ECHAM5-HAM GCM.		
103	Ice water content vertical profiles of high-level clouds: classification and impact on radiative fluxes.		
102	Properties of cloud condensation nuclei (CCN) in the trade wind marine boundary layer of the Eastern Caribbean Sea.		
101	Studies on the Model Dynamics and Physical Parameterizations of the High-Resolution Version of the Global Climate System Model BCC_CSM. <b>2016</b> , 105-161		
100	Metrics for Gauging Model Performance Over the East Asian/Western Pacific Domain. <b>2016</b> , 209-256		
99	Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors. <b>2017</b> , 311-336		
98	The Influence of Sea Surface Temperature Reemergence on Marine Stratiform Cloud. <i>Geophysical Research Letters</i> , <b>2020</b> , 47,	4.9	0
97	Realism of Lagrangian large eddy simulations driven by reanalysis meteorology: Tracking a pocket of open cells under a biomass burning aerosol layer. <i>Journal of Advances in Modeling Earth Systems</i> , e2021MS002664	7.1	0
96	A Climatology of Marine Boundary Layer Cloud and Drizzle Properties Derived from Ground-Based Observations over the Azores. <i>Journal of Climate</i> , <b>2020</b> , 33, 10133-10148	4.4	5
95	Shallow-cloud impact on climate and uncertainty: A simple stochastic model. <i>Mathematics of Climate and Weather Forecasting</i> , <b>2020</b> , 6, 16-37	0.5	0
94	Disentangling different moisture transport pathways over the eastern subtropical North Atlantic using multi-platform isotope observations and high-resolution numerical modelling. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 16319-16347	6.8	1
93	Evaluation of CloudSat Radiative Kernels Using ARM and CERES Observations and ERA5 Reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034510	4.4	
92	Using A-Train Observations to Evaluate East Pacific Cloud Occurrence and Radiative Effects in the Community Atmosphere Model. <i>Journal of Climate</i> , <b>2020</b> , 33, 6187-6203	4.4	2
91	Multilayer cloud conditions in trade wind shallow cumulus [Confronting two ICON model derivatives with airborne observations. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 5757-5777	6.3	1
90	Preface. <b>2020</b> , xv-xvi		
89	Variability of the Oceans. <b>2020</b> , 1-53		0

88	Teleconnections in the Atmosphere. <b>2020</b> , 54-88		1
87	Atmosphere-Ocean Interactions. <b>2020</b> , 89-119		0
86	Interacting Interannual Variability of the Pacific and Atlantic Oceans. <b>2020</b> , 120-152		1
85	The Arctic Mediterranean. <b>2020</b> , 186-215		0
84	Combined Oceanic Influences on Continental Climates. <b>2020</b> , 216-257		1
83	Basin Interactions and Predictability. <b>2020</b> , 258-292		3
82	Climate Change and Impacts on Variability and Interactions. <b>2020</b> , 293-337		
81	Index. <b>2020</b> , 338-342		
80	A climatology of trade-wind cumulus cold pools and their link to mesoscale cloud organization. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 16609-16630	6.8	2
79	On the Importance of Sea Surface Temperature for Aerosol-Induced Brightening of Marine Clouds and Implications for Cloud Feedback in a Future Warmer Climate. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095896	4.9	2
78	Evaluating climate models' cloud feedbacks against expert judgement. <i>Journal of Geophysical Research D: Atmospheres</i> , e2021JD035198	4.4	1
77	EUREC4A's Maria S. Merian ship-based cloud and micro rain radar observations of clouds and precipitation. <i>Earth System Science Data</i> , <b>2022</b> , 14, 33-55	10.5	1
76	Framework for idealized climate simulations with spatiotemporal stochastic clouds and planetary-scale circulations. <i>Physical Review Fluids</i> , <b>2022</b> , 7,	2.8	0
75	Attribution of Observed Recent Decrease in Low Clouds Over the Northeastern Pacific to Cloud-controlling Factors. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
74	On the Correspondence Between Atmosphere-Only and Coupled Simulations for Radiative Feedbacks and Forcing From CO <sub>2</sub> . <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,	4.4	2
73	Evaluating the Nature and Extent of Changes to Climate Sensitivity Between FGOALS-g2 and FGOALS-g3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,	4.4	0
72	Parameter uncertainty quantification in an idealized GCM with a seasonal cycle. <i>Journal of Advances in Modeling Earth Systems</i> ,	7.1	1
71	Large infrequent rain events dominate the hydroclimate of Rapa Nui (Easter Island). <i>Climate Dynamics</i> , 1	4.2	2

70	Measurements from the University of Colorado RAAVEN Uncrewed Aircraft System during ATOMIC. <i>Earth System Science Data</i> , <b>2022</b> , 14, 19-31	10.5	2
69	A Physical Basis for the Overstatement of Low Clouds at Night by Conventional Satellite Infrared-Based Imaging Radiometer Bi-Spectral Techniques. <i>Earth and Space Science</i> , <b>2022</b> , 9,	3.1	
68	The relationship between precipitation and its spatial pattern in the trades observed during EUREC4A.		
67	Satellite Observed Sensitivity of Tropical Clouds and Moisture to Sea Surface Temperature on Various Time and Space Scales: 2. Focus on Marine Low Level Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,	4.4	
66	Environmental Response in Coupled Energy and Water Cloud Impact Parameters Derived from A-Train Satellites, ERA-Interim, and MERRA-2. <i>Journal of Applied Meteorology and Climatology</i> , <b>2022</b> , 61, 261-276	2.7	
65	A Library of Large-Eddy Simulations Forced by Global Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2022</b> , 14,	7.1	1
64	Summertime Marine Boundary Layer Cloud, Thermodynamic, and Drizzle Morphology over the Eastern North Atlantic: A Four-Year Study. <i>Journal of Climate</i> , <b>2022</b> , 1-60	4.4	
63	Factors affecting precipitation formation and precipitation susceptibility of marine stratocumulus with variable above- and below-cloud aerosol concentrations over the Southeast Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 2769-2793	6.8	1
62	Extratropical shortwave cloud feedbacks in the context of the global circulation and hydrological cycle. <i>Geophysical Research Letters</i> ,	4.9	2
61	The relationship between precipitation and its spatial pattern in the trades observed during EUREC 4 A . <i>Quarterly Journal of the Royal Meteorological Society</i> ,	6.4	
60	Influence of aerosol physico-chemical properties on cloud microphysical parameters perceived using in-situ high altitude observations. <i>Atmospheric Research</i> , <b>2022</b> , 271, 106111	5.4	0
59	Impact of dry intrusion events on the composition and mixing state of particles during the winter Aerosol and Cloud Experiment in the Eastern North Atlantic (ACE-ENA). <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 18123-18146	6.8	1
58	Uncovering the Large-scale Meteorology that Drives Continental, Shallow, Green Cumulus through Supervised Classification. <i>Geophysical Research Letters</i> ,	4.9	1
57	Aircraft measurements of water vapor heavy isotope ratios in the marine boundary layer and lower troposphere during ORACLES. <i>Earth System Science Data</i> , <b>2022</b> , 14, 1811-1829	10.5	0
56	Data_Sheet_1.pdf. <b>2019</b> ,		
55	Empirical values and assumptions in the convection schemes of numerical models. <i>Geoscientific Model Development</i> , <b>2022</b> , 15, 3447-3518	6.3	1
54	Cloud Microphysics in Global Cloud Resolving Models. <i>Atmosphere - Ocean</i> , 1-29	1.5	0
53	Optically thin clouds in the trades. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 6879-6898	6.8	0



52	Low-Level Marine Tropical Clouds in Six CMIP6 Models Are Too Few, Too Bright but Also Too Compact and Too Homogeneous. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
51	Sensitivity to PBL parameterizations on the marine layer cloud simulations in the southern Indian Ocean. <i>Meteorology and Atmospheric Physics</i> , <b>2022</b> , 134,	2	
50	Observed subcloud layer moisture and heat budgets in the trades. <i>Journals of the Atmospheric Sciences</i> , <b>2022</b> ,	2.1	1
49	Re-evaluation of Low Cloud Amount Relationships with Lower-Tropospheric Stability and Estimated Inversion Strength. <i>Geophysical Research Letters</i> ,	4.9	0
48	GNSS-RO Deep Refraction Signals from Moist Marine Atmospheric Boundary Layer (MABL). <i>Atmosphere</i> , <b>2022</b> , 13, 953	2.7	
47	Cloud macrophysical characteristics in China mainland and east coast from 2006 to 2017 using satellite active remote sensing observations. <i>International Journal of Climatology</i> ,	3.5	
46	Atmospheric Convection. <i>Atmosphere - Ocean</i> , 1-55	1.5	0
45	Estimated cloud-top entrainment index explains positive low-cloud-cover feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	1
44	Representing Cloud Mesoscale Variability in Superparameterized Climate models. <i>Journal of Advances in Modeling Earth Systems</i> ,	7.1	0
43	Earth's Climate History from 4.5 Billion Years to One Minute. <i>Atmosphere - Ocean</i> , 1-45	1.5	1
42	Evaluation of events of extreme temperature change between neighboring days in CMIP6 models over China. <i>Theoretical and Applied Climatology</i> ,	3	0
41	More intense, organized deep convection with shrinking tropical ascent regions. <i>Geophysical Research Letters</i> ,	4.9	1
40	Subtropical clouds key to Southern Ocean teleconnections to the tropical Pacific. <b>2022</b> , 119,		4
39	Peak Rain Rate Sensitivity to Observed Cloud Condensation Nuclei and Turbulence in Continental Warm Shallow Clouds During CACTI. <b>2022</b> , 127,		
38	Aircraft observations of turbulence in cloudy and cloud-free boundary layers over the Western North Atlantic Ocean from ACTIVATE and implications for Earth system model evaluation and development.		0
37	A Positive Low Cloud-Sea Surface Temperature Feedback in the East Asian Marginal Seas during El Niño Mature Winters and their Following Spring. <b>2022</b> , 1-54		0
36	The times they are a changing: How boundary layer processes cause feedbacks and rectifiers that affect climate change and earth system modeling. <b>2023</b> , 271-295		0
35	Detailing cloud property feedbacks with a regime-based decomposition.		1

34	Aerosol-Cloud-Precipitation Interactions in a Closed-cell and Non-homogenous MBL Stratocumulus Cloud.	0
33	Distinct Dynamical and Structural Properties of Marine Stratocumulus and Shallow Cumulus Clouds in the Eastern North Atlantic. <b>2022</b> , 127,	0
32	Ensemble-Based Experimental Design for Targeting Data Acquisition to Inform Climate Models. <b>2022</b> , 14,	0
31	Southern Ocean control of near-term global warming rates in climate models.	0
30	Cloud Climatologies from Global Climate Models I A Comparison of CMIP5 and CMIP6 Models with Satellite Data. <b>2022</b> , 1-53	0
29	The use of satellite data-based critical relative humidity in cloud parameterization and its role in modulating cloud feedback.	0
28	Simulating Aerosol Lifecycle Impacts on the Subtropical Stratocumulus-to-Cumulus Transition Using Large-Eddy Simulations. <b>2022</b> , 127,	0
27	Importance of Minor-Looking Treatments in Global Climate Models. <b>2022</b> , 14,	0
26	Fast Atmospheric Response to a Cold Oceanic Mesoscale Patch in the North-Western Tropical Atlantic. <b>2022</b> , 127,	1
25	Vertical structure of turbulence and fluxes across cloud mesoscale organizations from the WP-3D Orion aircraft during ATOMIC.	0
24	Systematic Calibration of a Convection-Resolving Model: Application over Tropical Atlantic.	1
23	Quantifying long-term cloud feedback over East Asia combining with radiative kernels and CMIP6 data.	0
22	Model spread in tropical low cloud feedback tied to overturning circulation response to warming. <b>2022</b> , 13,	1
21	Southern Ocean cloud and shortwave radiation biases in a nudged climate model simulation: does the model ever get it right?. <b>2022</b> , 22, 14603-14630	0
20	Strong cloud-circulation coupling explains weak trade cumulus feedback. <b>2022</b> , 612, 696-700	0
19	The Sugar-to-Flower Shallow Cumulus Transition Under the Influences of Diel Cycle and Free-Tropospheric Mineral Dust.	1
18	An Updated CLUBB PDF Closure Scheme to Improve Low Cloud Simulation in CAM6. <b>2022</b> , 14,	0
17	Flower trade-wind clouds are shallow mesoscale convective systems.	0

- 16 Southern Ocean control of 2°C global warming in climate models. ○
- 15 Increasingly Sophisticated Climate Models Need the Out-Of-Sample Tests Paleoclimates Provide. **2022**, 14, ○
- 14 Combining regional mesh refinement with vertically enhanced physics to target marine stratocumulus biases as demonstrated in the Energy Exascale Earth System Model version 1. **2023**, 16, 335-352 ○
- 13 An Observation-Based Method to Assess Tropical Stratocumulus and Shallow Cumulus Clouds and Feedbacks in Two CMIP Generations. ○
- 12 High-spatial-resolution retrieval of cloud droplet size distribution from polarized observations of the cloudbow. **2023**, 16, 645-667 ○
- 11 Long-range transported continental aerosol in the eastern North Atlantic: three multiday event regimes influence cloud condensation nuclei. **2023**, 23, 4221-4246 ○
- 10 Quantifying the mixing of trade-wind cumulus during the NEPHELAE-EUREC4A field campaign with remotely piloted aircraft. ○
- 9 Polar and Topographic Amplifications of Intermodel Spread of Surface Temperature in Climate Models. **2023**, 128, ○
- 8 Application of the Pseudo-Global Warming Approach in a Kilometer-Resolution Climate Simulation of the Tropics. **2023**, 128, ○
- 7 Kilometer-Scale Simulations of Trade-Wind Cumulus Capture Processes of Mesoscale Organization. **2023**, 15, ○
- 6 Climatology of estimated liquid water content and scaling factor for warm clouds using radar-microwave radiometer synergy. **2023**, 16, 1211-1237 ○
- 5 An observation-based method to assess tropical stratocumulus and shallow cumulus clouds and feedbacks in CMIP6 and CMIP5 models. **2023**, 5, 045001 ○
- 4 Quantifying Parametric Uncertainty Effects on Tropical Cloud Fraction in an AGCM. **2023**, 15, ○
- 3 Characteristics of cloud properties over South America and over Andes observed using CloudSat and reanalysis data. **2023**, 44, 1976-2004 ○
- 2 Use of lidar aerosol extinction and backscatter coefficients to estimate cloud condensation nuclei (CCN) concentrations in the southeast Atlantic. **2023**, 16, 2037-2054 ○
- 1 Effects of Circulation on Tropical Cloud Feedbacks in High-Resolution Simulations. **2023**, 15, ○