

Robert Atlas

List of Publications by Year in descending order

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135
papers

6,324
citations

71102

41
h-index

74163

75
g-index

138
all docs

138
docs citations

138
times ranked

5800
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the Earth Systems Research Laboratory's global Observing System Simulation Experiment system. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 19011.	1.7	9
2	Enhance Low Level Temperature and Moisture Profiles Through Combining NUCAPS, ABI Observations, and RTMA Analysis. <i>Earth and Space Science</i> , 2021, 8, e2020EA001402.	2.6	7
3	OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 467-487.	1.3	11
4	Use of Observing System Simulation Experiments in the United States. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1427-E1438.	3.3	34
5	Impact of Refractivity Profiles from a Proposed GNSS-RO Constellation on Tropical Cyclone Forecasts in a Global Modeling System. <i>Monthly Weather Review</i> , 2020, 148, 3037-3057.	1.4	8
6	The alternative of CubeSat-based advanced infrared and microwave sounders for high impact weather forecasting. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 80-90.	1.3	18
7	A Near-Real-Time Version of the Cross-Calibrated Multiplatform (CCMP) Ocean Surface Wind Velocity Data Set. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6997-7010.	2.6	67
8	Track Uncertainty in High-Resolution HWRF Ensemble Forecasts of Hurricane Joaquin. <i>Weather and Forecasting</i> , 2019, 34, 1889-1908.	1.4	22
9	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6342-6358.	3.3	16
10	Impact of Gulfstream-IV Dropsondes on Tropical Cyclone Prediction in a Regional OSSE System. <i>Monthly Weather Review</i> , 2019, 147, 2961-2977.	1.4	9
11	A Preliminary Impact Study of CYGNSS Ocean Surface Wind Speeds on Numerical Simulations of Hurricanes. <i>Geophysical Research Letters</i> , 2019, 46, 2984-2992.	4.0	28
12	Developing Priority Observational Requirements from Space Using Multi-Attribute Utility Theory. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1753-1774.	3.3	10
13	An overview of the TROPICS NASA Earth Venture Mission. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 16-26.	2.7	101
14	Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. <i>Nature Climate Change</i> , 2018, 8, 414-420.	18.8	52
15	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Perfect Observations Simulation Validation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 207-226.	1.3	12
16	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018, 6, 80-102.	6.3	24
17	Airborne Doppler Wind Lidar Observations of the Tropical Cyclone Boundary Layer. <i>Remote Sensing</i> , 2018, 10, 825.	4.0	20
18	Validation of an Airborne Doppler Wind Lidar in Tropical Cyclones. <i>Sensors</i> , 2018, 18, 4288.	3.8	22

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19	An Observing System Simulation Experiment with a Constellation of Radio Occultation Satellites. <i>Monthly Weather Review</i> , 2018, 146, 4247-4259.	1.4	9
20	Combined Use of Satellite Observations and Global Hawk Unmanned Aircraft Dropwindsondes for Improved Tropical Cyclone Analyses and Forecasts. <i>Weather and Forecasting</i> , 2018, 33, 1021-1031.	1.4	10
21	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Assessment and Validation of the OSSE System Using an OSSE-OSSE Intercomparison of Summary Assessment Metrics. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 2061-2078.	1.3	7
22	Variational Analysis of Simulated Ocean Surface Winds from the Cyclone Global Navigation Satellite System (CYGNSS) and Evaluation Using a Regional OSSE. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 1571-1584.	1.3	23
23	A Study of the HWRF Analysis and Forecast Impact of Realistically Simulated CYGNSS Observations Assimilated as Scalar Wind Speeds and as VAM Wind Vectors. <i>Monthly Weather Review</i> , 2018, 146, 2221-2236.	1.4	21
24	Value-added Impact of Geostationary Hyperspectral Infrared Sounders on Local Severe Storm Forecasts via a Quick Regional OSSE. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 1217-1230.	4.3	32
25	Overview of the NASA TROPICS CubeSat Constellation Mission. , 2018, , .		1
26	Impact of CYGNSS Ocean Surface Wind Speeds on Numerical Simulations of a Hurricane in Observing System Simulation Experiments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 375-383.	1.3	23
27	OSSE quantitative assessment of rapid response prestorm ocean surveys to improve coupled tropical cyclone prediction. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5729-5748.	2.6	15
28	An efficient radiative transfer model for hyperspectral IR radiance simulation and applications under cloudy sky conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7600-7613.	3.3	23
29	The Impact of Doppler Wind Lidar Measurements on High-Impact Weather Forecasting: Regional OSSE and Data Assimilation Studies. , 2017, , 259-283.		4
30	North Atlantic Ocean OSSE system: Evaluation of operational ocean observing system components and supplemental seasonal observations for potentially improving tropical cyclone prediction in coupled systems. <i>Journal of Operational Oceanography</i> , 2017, 10, 154-175.	1.2	24
31	Application of Doppler wind lidar observations to hurricane analysis and prediction. , 2017, , .		1
32	Impact of Assimilating CYGNSS Data on Tropical Cyclone Analyses and Forecasts in a Regional OSSE Framework. <i>Marine Technology Society Journal</i> , 2017, 51, 7-15.	0.4	18
33	Community Global Observing System Simulation Experiment (OSSE) Package (CGOP): Description and Usage. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1759-1777.	1.3	22
34	Future Observing System Simulation Experiments. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1601-1616.	3.3	88
35	S4: An O2R/R2O Infrastructure for Optimizing Satellite Data Utilization in NOAA Numerical Modeling Systems: A Step Toward Bridging the Gap between Research and Operations. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2359-2378.	3.3	18
36	North Atlantic Ocean OSSE system development: Nature Run evaluation and application to hurricane interaction with the Gulf Stream. <i>Progress in Oceanography</i> , 2016, 148, 1-25.	3.2	23

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37	Hurricane interaction with the upper ocean in the Amazon-Orinoco plume region. <i>Ocean Dynamics</i> , 2016, 66, 1559-1588.	2.2	25
38	US regional tornado outbreaks and their links to spring ENSO phases and North Atlantic SST variability. <i>Environmental Research Letters</i> , 2016, 11, 044008.	5.2	56
39	New Ocean Winds Satellite Mission to Probe Hurricanes and Tropical Convection. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 385-395.	3.3	285
40	Observing System Simulation Experiments to Assess the Potential Impact of New Observing Systems on Hurricane Forecasting. <i>Marine Technology Society Journal</i> , 2015, 49, 140-148.	0.4	27
41	Advances in Tropical Cyclone Intensity Forecasts. <i>Marine Technology Society Journal</i> , 2015, 49, 149-160.	0.4	18
42	Observing System Simulation Experiments (OSSEs) to Evaluate the Potential Impact of an Optical Autocovariance Wind Lidar (OAWL) on Numerical Weather Prediction. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1593-1613.	1.3	36
43	Assessing the impact of observations on ocean forecasts and reanalyses: Part 2, Regional applications. <i>Journal of Operational Oceanography</i> , 2015, 8, s63-s79.	1.2	55
44	The 2012 Triply Nested, High-Resolution Operational Version of the Hurricane Weather Research and Forecasting Model (HWRF): Track and Intensity Forecast Verifications. <i>Weather and Forecasting</i> , 2015, 30, 710-729.	1.4	29
45	OSSE impact analysis of airborne ocean surveys for improving upper-ocean dynamical and thermodynamical forecasts in the Gulf of Mexico. <i>Progress in Oceanography</i> , 2015, 130, 32-46.	3.2	28
46	Lidar-Measured Wind Profiles: The Missing Link in the Global Observing System. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 543-564.	3.3	133
47	An Observing System Simulation Experiment for the Unmanned Aircraft System Data Impact on Tropical Cyclone Track Forecasts. <i>Monthly Weather Review</i> , 2014, 142, 4357-4363.	1.4	13
48	Rigorous Evaluation of a Fraternal Twin Ocean OSSE System for the Open Gulf of Mexico. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 105-130.	1.3	89
49	Observing system simulation experiments to assess the potential impact of proposed satellite instruments on hurricane prediction. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
50	Error Estimates for Ocean Surface Winds: Applying Desroziers Diagnostics to the Cross-Calibrated, Multiplatform Analysis of Wind Speed. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2596-2603.	1.3	16
51	The Emergence of Weather-Related Test Beds Linking Research and Forecasting Operations. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1187-1211.	3.3	55
52	Is There an Optimal ENSO Pattern That Enhances Large-Scale Atmospheric Processes Conducive to Tornado Outbreaks in the United States?. <i>Journal of Climate</i> , 2013, 26, 1626-1642.	3.2	66
53	Development and validation of a hurricane nature run using the joint OSSE nature run and the WRF model. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 382-405.	3.8	86
54	Performance of the experimental HWRF in the 2008 Hurricane Season. <i>Natural Hazards</i> , 2012, 63, 1439-1449.	3.4	33

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55	Toward Improving High-Resolution Numerical Hurricane Forecasting: Influence of Model Horizontal Grid Resolution, Initialization, and Physics. <i>Weather and Forecasting</i> , 2012, 27, 647-666.	1.4	126
56	Impact of the Atlantic warm pool on United States landfalling hurricanes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	67
57	A Cross-calibrated, Multiplatform Ocean Surface Wind Velocity Product for Meteorological and Oceanographic Applications. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 157-174.	3.3	801
58	On the Rapid Intensification of Hurricane Wilma (2005). Part I: Model Prediction and Structural Changes. <i>Weather and Forecasting</i> , 2011, 26, 885-901.	1.4	81
59	The Experimental HWRF System: A Study on the Influence of Horizontal Resolution on the Structure and Intensity Changes in Tropical Cyclones Using an Idealized Framework. <i>Monthly Weather Review</i> , 2011, 139, 1762-1784.	1.4	147
60	Impact of satellite surface wind observations on ocean surface wind analyses and numerical weather prediction. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
61	Report of the COSPAR mars special regions colloquium. <i>Advances in Space Research</i> , 2010, 46, 811-829.	2.6	53
62	Environmental chemistry through intelligent atmospheric data analysis. <i>Environmental Modelling and Software</i> , 2010, 25, 760-769.	4.5	48
63	Application of remotely sensed wind measurements to ocean surface wind analyses. , 2010, , .		0
64	Review of Observing System Simulation Experiments to evaluate the potential impact of lidar winds on weather prediction. , 2010, , .		1
65	Predicting tropical cyclogenesis with a global mesoscale model: Hierarchical multiscale interactions during the formation of tropical cyclone Nargis (2008). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
66	A Multiscale Modeling System: Developments, Applications, and Critical Issues. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 515-534.	3.3	128
67	New Multiplatform Ocean Surface Wind Product Available. <i>Eos</i> , 2009, 90, 231-231.	0.1	16
68	A cross-calibrated multiple platform ocean surface wind data set. , 2009, , .		7
69	<title>Application of OSSEs to observing system design</title>. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
70	<title>Application of satellite surface wind data to ocean wind analysis</title>. <i>Proceedings of SPIE</i> , 2008, , .	0.8	43
71	A New Cross-Calibrated, Multi-Satellite Ocean Surface Wind Product. , 2008, , .		20
72	Effects of data selection and error specification on the assimilation of AIRS data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 181-196.	2.7	10

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73	Improving Hurricane Prediction Through Innovative Global Modeling. Operations Research/ Computer Science Interfaces Series, 2007, , 1-14.	0.3	2
74	The 0.125 degree finite-volume general circulation model on the NASA Columbia supercomputer: Preliminary simulations of mesoscale vortices. Geophysical Research Letters, 2006, 33, .	4.0	29
75	Hurricane forecasts with a global mesoscale-resolving model: Preliminary results with Hurricane Katrina (2005). Geophysical Research Letters, 2006, 33, .	4.0	61
76	AIRS. Bulletin of the American Meteorological Society, 2006, 87, 911-926.	3.3	595
77	Application of SeaWinds scatterometer and TMI-SSM/I rain rates to hurricane analysis and forecasting. ISPRS Journal of Photogrammetry and Remote Sensing, 2005, 59, 233-243.	11.1	9
78	Hurricane forecasting with the high-resolution NASA finite volume general circulation model. Geophysical Research Letters, 2005, 32, .	4.0	50
79	Comparisons of EOS MLS cloud ice measurements with ECMWF analyses and GCM simulations: Initial results. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	54
80	Global weather prediction and high-end computing at nasa. Computing in Science and Engineering, 2004, 6, 29-35.	1.2	17
81	A Comparison of Latent Heat Fluxes over Global Oceans for Four Flux Products. Journal of Climate, 2004, 17, 3973-3989.	3.2	50
82	The Impact of Doppler Lidar Wind Observations on a Single-Level Meteorological Analysis. Journal of Applied Meteorology and Climatology, 2004, 43, 810-820.	1.7	20
83	A comparison of a two-dimensional variational analysis method and a median filter for NSCAT ambiguity removal. Journal of Geophysical Research, 2003, 108, .	3.3	6
84	Impact on regional winter climate by CO2increases vs. by maritime-air advection. Geophysical Research Letters, 2003, 30, .	4.0	0
85	AIRS/AMSU/HSB validation. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 418-431.	6.3	108
86	Surface Turbulent Heat and Momentum Fluxes over Global Oceans Based on the Goddard Satellite Retrievals, Version 2 (GSSTF2). Journal of Climate, 2003, 16, 3256-3273.	3.2	132
87	Potential impact of space-based lidar wind profiles on weather prediction. , 2003, , .		2
88	Simulating the Midwestern U.S. Drought of 1988 with a GCM. Journal of Climate, 2003, 16, 3946-3965.	3.2	31
89	OSSEs to determine the requirements for space-based lidar winds for weather prediction. , 2003, , .		1
90	A Two-Dimensional Variational Analysis Method for NSCAT Ambiguity Removal: Methodology, Sensitivity, and Tuning. Journal of Atmospheric and Oceanic Technology, 2003, 20, 585-605.	1.3	55

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91	North-Atlantic surface winds examined as the source of winter warming in Europe. <i>Geophysical Research Letters</i> , 2002, 29, 18-1-18-4.	4.0	7
92	Advection from the North Atlantic as the forcing of winter greenhouse effect over Europe. <i>Geophysical Research Letters</i> , 2002, 29, 133-1-133-4.	4.0	3
93	Are stronger North-Atlantic southwesterlies the forcing to the late-winter warming in Europe?. <i>International Journal of Climatology</i> , 2002, 22, 743-750.	3.5	8
94	The Effects of Marine Winds from Scatterometer Data on Weather Analysis and Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 1965-1990.	3.3	107
95	Tropical Cycloneâ€œLike Vortices in the Extratropics: Observational Evidence and Synoptic Analysis. <i>Weather and Forecasting</i> , 2001, 16, 7-34.	1.4	87
96	The Structure and Evolution of Extratropical Cyclones, Fronts, Jet Streams, and the Tropopause in the GEOS General Circulation Model. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 1853-1867.	3.3	13
97	Assimilation of SSM/I-Derived Surface Rainfall and Total Precipitable Water for Improving the GEOS Analysis for Climate Studies. <i>Monthly Weather Review</i> , 2000, 128, 509-537.	1.4	64
98	Chapter 4 The use of satellite surface wind data to improve weather analysis and forecasting at the NASA Data Assimilation Office. <i>Elsevier Oceanography Series</i> , 2000, , 57-78.	0.1	9
99	Winter-to-spring transition in Europe 48-54Â°N: From temperature control by advection to control by insolation. <i>Geophysical Research Letters</i> , 2000, 27, 561-564.	4.0	2
100	Relationship of Late-Winter Temperatures in Europe to North Atlantic Surface Winds: A Correlation Analysis. <i>Theoretical and Applied Climatology</i> , 1999, 64, 201-211.	2.8	6
101	Geophysical validation of NSCAT winds using atmospheric data and analyses. <i>Journal of Geophysical Research</i> , 1999, 104, 11405-11424.	3.3	43
102	Space observations of ocean surface winds aid monitoring of Northeast Pacific climate shifts. <i>Eos</i> , 1998, 79, 575-581.	0.1	3
103	Processes controlling dimethylsulfide over the ocean: Case studies using a 3-D model driven by assimilated meteorological fields. <i>Journal of Geophysical Research</i> , 1998, 103, 8341-8353.	3.3	21
104	Diagnostic Evaluation of Vertical Motion Forcing Mechanisms by Using Q-Vector Partitioning. <i>Monthly Weather Review</i> , 1998, 126, 2166-2184.	1.4	20
105	Atmospheric Observations and Experiments to Assess Their Usefulness in Data Assimilation (gtSpecial) Tj ETQq1 1 0.784314 rgBT /Over <i>Meteorological Society of Japan</i> , 1997, 75, 111-130.	1.8	142
106	Air-sea fluxes retrieved from special sensor microwave imager data. <i>Journal of Geophysical Research</i> , 1997, 102, 12706-12726.	3.3	56
107	A comparison of surface wind products over the North Pacific Ocean. <i>Journal of Geophysical Research</i> , 1996, 101, 1011-1023.	3.3	25
108	Responses of the tropical Pacific to wind forcing as observed by spaceborne sensors and simulated by an ocean general circulation model. <i>Journal of Geophysical Research</i> , 1996, 101, 16345-16359.	3.3	19

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109	A Multiyear Global Surface Wind Velocity Dataset Using SSM/I Wind Observations. Bulletin of the American Meteorological Society, 1996, 77, 869-882.	3.3	205
110	Lidar-Measured Winds from Space: A Key Component for Weather and Climate Prediction. Bulletin of the American Meteorological Society, 1995, 76, 869-888.	3.3	132
111	Estimates of Surface Humidity and Latent Heat Fluxes over Oceans from SSM/I Data. Monthly Weather Review, 1995, 123, 2405-2425.	1.4	63
112	Comparison of special sensor microwave imager vector wind stress with model-derived and subjective products for the tropical Pacific. Journal of Geophysical Research, 1993, 98, 6961-6977.	3.3	23
113	Analysis of the Impact of Seasat Scatterometer Data and Horizontal Resolution on GLA Model Simulations of the QE II Storm. Monthly Weather Review, 1993, 121, 499-521.	1.4	7
114	The Effect of SST and Soil Moisture Anomalies on GLA Model Simulations of the 1988 U.S. Summer Drought. Journal of Climate, 1993, 6, 2034-2048.	3.2	157
115	Space-based surface wind vectors to aid understanding of air-sea interactions. Eos, 1991, 72, 201-201.	0.1	38
116	Diagnostic Evaluation of Numerical Model Simulations Using the Tendency Equation. Monthly Weather Review, 1991, 119, 2936-2955.	1.4	11
117	Numerical Experiments Related to the Summer 1980 U.S. Heat Wave. Monthly Weather Review, 1987, 115, 1345-1357.	1.4	27
118	Global surface wind and flux fields from model assimilation of Seasat data. Journal of Geophysical Research, 1987, 92, 6477-6487.	3.3	28
119	The role of oceanic fluxes and initial data in the numerical prediction of an intense coastal storm. Dynamics of Atmospheres and Oceans, 1987, 10, 359-388.	1.8	26
120	A simple diagnostic tool for the investigation of persistent phenomena with application to the summer 1980 U.S. heat wave. Atmosphere - Ocean, 1986, 24, 111-127.	1.6	1
121	Global analysis of ocean surface wind and wind stress using a general circulation model and Seasat scatterometer winds. Journal of Geophysical Research, 1986, 91, 2233-2240.	3.3	3
122	The impact of Seasat's scatterometer data on the numerical prediction of the Queen Elizabeth II storm. Journal of Geophysical Research, 1986, 91, 2241-2248.	3.3	30
123	Impact Of Satellite Temperature Sounding And Wind Data On Numerical Weather Prediction. Optical Engineering, 1985, 24, 2423-2431.	1.0	28
124	GLAS Global Analysis of Ocean Surface Wind and Wind Stress Using SEASAT Scatterometer Winds. , 1984, , .		0
125	Large-scale analysis and forecast experiments with wind data from the Seasat A scatterometer. Journal of Geophysical Research, 1984, 89, 4927-4936.	3.3	31
126	The impact of Seasat scatterometer winds on the Navy's Operational Model. Journal of Geophysical Research, 1984, 89, 7238-7244.	3.3	15

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127	Review Of Experiments On The Impact Of Satellite Data On Numerical Weather Prediction. , 1984, 0481, 108.		1
128	A Case Study of Forecast Sensitivity to Data and Data Analysis Techniques. Monthly Weather Review, 1984, 112, 1544-1561.	1.4	24
129	The Growth of Prognostic Differences Between GLAS Model Forecasts from SAT and NOSAT Initial Conditions. Monthly Weather Review, 1982, 110, 877-882.	1.4	3
130	The Effect of Model Resolution and Satellite Sounding Data on GLAS Model Forecasts. Monthly Weather Review, 1982, 110, 662-682.	1.4	17
131	Analysis of satellite scatterometer data and its impact on weather forecasting. , 1982, , .		2
132	An Assessment of the FGGE Satellite Observing System during SOP-1. Bulletin of the American Meteorological Society, 1982, 63, 407-426.	3.3	59
133	Time-Continuous Assimilation of Remote-Sounding Data and Its Effect an Weather Forecasting. Monthly Weather Review, 1979, 107, 140-171.	1.4	45
134	Monthly Mean Forecast Experiments with the GISS Model. Monthly Weather Review, 1976, 104, 1215-1241.	1.4	11
135	Atmospheric Response to Variations in Sea-Surface Temperature. Journal of Applied Meteorology, 1975, 14, 1235-1245.	1.1	7