Dave Fritts

List of Publications by Year in Descending Order

158 papers	9,080 citations	49 h-index	91 g-index
170 ext. papers	9,989 ext. citations	3.6 avg, IF	6.16 L-index

#	Paper	IF	Citations
158	Statistical Parameter Estimation for Observation Error Modelling: Application to Meteor Radars **2022**, 185-213		0
157	Mesospheric Mountain Wave Activity in the Lee of the Southern Andes. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033268	4.4	2
156	Modeling Responses of Polar Mesospheric Clouds to Gravity Wave and Instability Dynamics and Induced Large-Scale Motions. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD034643	4.4	3
155	Kelvin-Helmholtz Billow Interactions and Instabilities in the Mesosphere Over the Andes Lidar Observatory: 1. Observations. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033414	4.4	2
154	Seasonal evolution of winds, atmospheric tides, and Reynolds stress components in the Southern Hemisphere mesosphere–lower thermosphere in 2019. *Annales Geophysicae*, **2021**, 39, 1-29	2	6
153	Kelvin-Helmholtz Billow Interactions and Instabilities in the Mesosphere Over the Andes Lidar Observatory: 2. Modeling and Interpretation. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033412	4.4	4
152	Numerical simulation of mountain waves over the southern Andes, Part 2: Momentum fluxes and wave/mean-flow interactions. *Journals of the Atmospheric Sciences*, **2021**,	2.1	1
151	Climatology of quasi-2-day wave structure and variability at middle latitudes in the northern and southern hemispheres. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2021**, 221, 105690	2	0
150	Convectively Generated Gravity Waves During Solstice and Equinox Conditions. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031582	4.4	2
149	Self-Acceleration and Instability of Gravity Wave Packets: 2. Two-Dimensional Packet Propagation, Instability Dynamics, and Transient Flow Responses. *Journal of Geophysical Research D: Atmospheres* , **2020**, 125, e2019JD030691	4.4	11
148	Numerical Simulation of Mountain Waves over the Southern Andes. Part I: Mountain Wave and Secondary Wave Character, Evolutions, and Breaking. *Journals of the Atmospheric Sciences*, **2020**, 77, 4337-4356	2.1	5
147	Gravity Wave Breaking and Vortex Ring Formation Observed by PMC Turbo. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD033038	4.4	1
146	Self-Acceleration and Instability of Gravity Wave Packets: 3. Three-Dimensional Packet Propagation, Secondary Gravity Waves, Momentum Transport, and Transient Mean Forcing in Tidal Winds. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD030692	4.4	10
145	The PMC Turbo Balloon Mission to Measure Gravity Waves and Turbulence in Polar Mesospheric Clouds: Camera, Telemetry, and Software Performance. *Earth and Space Science*, **2020**, 7, e2020EA001238	3.1	3
144	Mesospheric Bore Evolution and Instability Dynamics Observed in PMC Turbo Imaging and Rayleigh Lidar Profiling Over Northeastern Canada on 13 July 2018. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032037	4.4	7
143	PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere Using Polar Mesospheric Cloud Imaging and Profiling From a Stratospheric Balloon. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 6423-6443	4.4	17
142	Structure, Variability, and Mean-Flow Interactions of the January 2015 Quasi-2-Day Wave at Middle and High Southern Latitudes. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 5981-6008	4.4	5

141	Stratospheric Gravity Wave Products from Satellite Infrared Nadir Radiances in the Planning, Execution, and Validation of Aircraft Measurements during DEEPWAVE. *Journal of Applied Meteorology and Climatology*, **2019**, 58, 2049-2075	2.7	5
140	Large-Amplitude Mountain Waves in the Mesosphere Observed on 21 June 2014 During DEEPWAVE: 1. Wave Development, Scales, Momentum Fluxes, and Environmental Sensitivity. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10364-10384	4.4	11
139	Numerical Simulations of High-Frequency Gravity Wave Propagation Through Fine Structures in the Mesosphere. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 9372-9390	4.4	
138	Large-Amplitude Mountain Waves in the Mesosphere Observed on 21 June 2014 During DEEPWAVE: 2. Nonlinear Dynamics, Wave Breaking, and Instabilities. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10006-10032	4.4	12
137	Fine Structure, Instabilities, and Turbulence in the Lower Atmosphere: High-Resolution In Situ Slant-Path Measurements with the DataHawk UAV and Comparisons with Numerical Modeling. *Journal of Atmospheric and Oceanic Technology*, **2018**, 35, 619-642	2	11
136	Gravity Wave Dynamics in a Mesospheric Inversion Layer: 2. Instabilities, Turbulence, Fluxes, and Mixing. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 649-670	4.4	12
135	Large-Amplitude Mountain Waves in the Mesosphere Accompanying Weak Cross-Mountain Flow During DEEPWAVE Research Flight RF22. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 9992	4.4	21
134	Momentum Flux Spectra of a Mountain Wave Event Over New Zealand. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 9980-9991	4.4	8
133	Observations of the Breakdown of Mountain Waves Over the Andes Lidar Observatory at Cerro Pachon on 8/9 July 2012. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 276-299	4.4	13
132	Gravity Wave Dynamics in a Mesospheric Inversion Layer: 1. Reflection, Trapping, and Instability Dynamics. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 626-648	4.4	17
131	Observations of Reduced Turbulence and Wave Activity in the Arctic Middle Atmosphere Following the January 2015 Sudden Stratospheric Warming. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 13259-13276	4.4	7
130	Major upwelling and overturning in the mid-latitude F region ionosphere. *Nature Communications*, **2018**, 9, 3326	17.4	19
129	Mesospheric front observations by the OH airglow imager carried out at Ferraz Station on King George Island, Antarctic Peninsula, in 2011. *Annales Geophysicae*, **2018**, 36, 253-264	2	6
128	Unexpected climatological behavior of MLT gravity wave momentum flux in the lee of the Southern Andes hot spot. *Geophysical Research Letters*, **2017**, 44, 1182-1191	4.9	20
127	Numerical modeling of a multiscale gravity wave event and its airglow signatures over Mount Cook, New Zealand, during the DEEPWAVE campaign. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 846-860	4.4	29
126	Gravity Wave-Induced Ionospheric Irregularities in the Postsunset Equatorial Valley Region. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,579	2.6	7
125	Secondary gravity wave generation over New Zealand during the DEEPWAVE campaign. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 7834-7850	4.4	35
124	Climatology of semidiurnal lunar and solar tides at middle and high latitudes: Interhemispheric comparison. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 7750-7760	2.6	20

123	Does Strong Tropospheric Forcing Cause Large-Amplitude Mesospheric Gravity Waves? A DEEPWAVE Case Study. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 11,422	4.4	23
122	High-resolution observations and modeling of turbulence sources, structures, and intensities in the upper mesosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2017**, 162, 57-78	2	26
121	Tsunami-driven gravity waves in the presence of vertically varying background and tidal wind structures. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 5076-5096	4.4	7
120	The Deep Propagating Gravity Wave Experiment (DEEPWAVE): An Airborne and Ground-Based Exploration of Gravity Wave Propagation and Effects from Their Sources throughout the Lower and Middle Atmosphere. *Bulletin of the American Meteorological Society*, **2016**, 97, 425-453	6.1	121
119	QBO modulation of the mesopause gravity wave momentum flux over Tierra del Fuego. *Geophysical Research Letters*, **2016**, 43, 4049-4055	4.9	12
118	Stratospheric Gravity Wave Fluxes and Scales during DEEPWAVE. *Journals of the Atmospheric Sciences*, **2016**, 73, 2851-2869	2.1	40
117	Numerical Modeling of Multiscale Dynamics at a High Reynolds Number: Instabilities, Turbulence, and an Assessment of Ozmidov and Thorpe Scales. *Journals of the Atmospheric Sciences*, **2016**, 73, 555-578	2.1	33
116	Large-amplitude mesospheric response to an orographic wave generated over the Southern Ocean Auckland Islands (50.7°S) during the DEEPWAVE project. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1431-1441	4.4	30
115	Dynamics of Orographic Gravity Waves Observed in the Mesosphere over the Auckland Islands during the Deep Propagating Gravity Wave Experiment (DEEPWAVE). *Journals of the Atmospheric Sciences*, **2016**, 73, 3855-3876	2.1	33
114	THE SOUTHERN ARGENTINA AGILE METEOR RADAR ORBITAL SYSTEM (SAAMER-OS): AN INITIAL SPORADIC METEOROID ORBITAL SURVEY IN THE SOUTHERN SKY. *Astrophysical Journal*, **2015**, 809, 36	4.7	33
113	Stratospheric imaging of polar mesospheric clouds: A new window on small-scale atmospheric dynamics. *Geophysical Research Letters*, **2015**, 42, 6058-6065	4.9	14
112	Self-acceleration and instability of gravity wave packets: 1. Effects of temporal localization. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 8783-8803	4.4	31
111	Influences of source conditions on mountain wave penetration into the stratosphere and mesosphere. *Geophysical Research Letters*, **2015**, 42, 9488-9494	4.9	43
110	Momentum flux estimates accompanying multiscale gravity waves over Mount Cook, New Zealand, on 13 July 2014 during the DEEPWAVE campaign. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 9323-9337	4.4	40
109	Interhemispheric structure and variability of the 5-day planetary wave from meteor radar wind measurements. *Annales Geophysicae*, **2015**, 33, 1349-1359	2	10
108	Quantifying gravity wave momentum fluxes with Mesosphere Temperature Mappers and correlative instrumentation. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 13,583-13,603	4.4	33
107	Gravity wave effects on postsunset equatorial F region stability. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5847-5860	2.6	15
106	The life cycle of instability features measured from the Andes Lidar Observatory over Cerro Pachon on 24 March 2012. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 8872-8898	4.4	25

105	Quantifying Kelvin-Helmholtz instability dynamics observed in noctilucent clouds: 1. Methods and observations. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 9324-9337	4.4	41
104	Quantifying Kelvin-Helmholtz instability dynamics observed in noctilucent clouds: 2. Modeling and interpretation of observations. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 9359-9375	4.4	23
103	Investigation of a mesospheric gravity wave ducting event using coordinated sodium lidar and Mesospheric Temperature Mapper measurements at ALOMAR, Norway (69°N). *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 9765-9778	4.4	18
102	Modeling the implications of Kelvin-Helmholtz instability dynamics for airglow observations. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 8858-8871	4.4	15
101	Gravity Wave–Fine Structure Interactions. Part I: Influences of Fine Structure Form and Orientation on Flow Evolution and Instability. *Journals of the Atmospheric Sciences*, **2013**, 70, 3710-3734	2.1	37
100	Gravity Wave–Fine Structure Interactions. Part II: Energy Dissipation Evolutions, Statistics, and Implications. *Journals of the Atmospheric Sciences*, **2013**, 70, 3735-3755	2.1	16
99	Fine-Scale Characteristics of Temperature, Wind, and Turbulence in the Lower Atmosphere (0–1,300 m) Over the South Peruvian Coast. *Boundary-Layer Meteorology*, **2013**, 147, 165-178	3.4	25
98	Improved analysis of all-sky meteor radar measurements of gravity wave variances and momentum fluxes. *Annales Geophysicae*, **2013**, 31, 889-908	2	27
97	Long-term observations of the quasi two-day wave by Hawaii MF radar. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 7886-7894	2.6	22
96	Drake Antarctic Agile Meteor Radar first results: Configuration and comparison of mean and tidal wind and gravity wave momentum flux measurements with Southern Argentina Agile Meteor Radar. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		28
95	Computation of clear-air radar backscatter from numerical simulations of turbulence: 3. Off-zenith measurements and biases throughout the lifecycle of a Kelvin-Helmholtz instability. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		22
94	Numerical simulation of gravity wave breaking in the lower thermosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		29
93	A conjugate study of mean winds and planetary waves employing enhanced meteor radars at Rio Grande, Argentina (53.8°S) and Juliusruh, Germany (54.6°N). *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		11
92	Assessment of gravity wave momentum flux measurement capabilities by meteor radars having different transmitter power and antenna configurations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		24
91	Computation of clear-air radar backscatter from numerical simulations of turbulence: 2. Backscatter moments throughout the lifecycle of a Kelvin-Helmholtz instability. *Journal of Geophysical Research*, **2011**, 116,		21
90	Computation of clear-air radar backscatter from numerical simulations of turbulence: 1. Numerical methods and evaluation of biases. *Journal of Geophysical Research*, **2011**, 116,		9
89	Long-term observations of the wind field in the Antarctic and Arctic mesosphere and lower-thermosphere at conjugate latitudes. *Journal of Geophysical Research*, **2011**, 116,		12
88	Comparisons of predicted bore evolutions by the Benjamin-Davis-Ono and Navier-Stokes equations for idealized mesopause thermal ducts. *Journal of Geophysical Research*, **2011**, 116,		4

87	Observation of a mesospheric front in a thermal-doppler duct over King George Island, Antarctica. *Atmospheric Chemistry and Physics*, **2011**, 11, 12137-12147	6.8	21
86	Gravity Wave Influences in the Thermosphere and Ionosphere: Observations and Recent Modeling **2011**, 109-130		39
85	Southern Argentina Agile Meteor Radar: System design and initial measurements of large-scale winds and tides. *Journal of Geophysical Research*, **2010**, 115,		42
84	Southern Argentina Agile Meteor Radar: Initial assessment of gravity wave momentum fluxes. *Journal of Geophysical Research*, **2010**, 115,		48
83	Numerical simulation of bore generation and morphology in thermal and Doppler ducts. *Annales Geophysicae*, **2009**, 27, 511-523	2	21
82	Characteristics of mesospheric gravity waves near the magnetic equator, Brazil, during the SpreadFEx campaign. *Annales Geophysicae*, **2009**, 27, 461-472	2	51
81	Convection: the likely source of the medium-scale gravity waves observed in the OH airglow layer near Brasilia, Brazil, during the SpreadFEx campaign. *Annales Geophysicae*, **2009**, 27, 231-259	2	69
80	Gravity Wave Instability Dynamics at High Reynolds Numbers. Part I: Wave Field Evolution at Large Amplitudes and High Frequencies. *Journals of the Atmospheric Sciences*, **2009**, 66, 1126-1148	2.1	87
79	Gravity Wave Instability Dynamics at High Reynolds Numbers. Part II: Turbulence Evolution, Structure, and Anisotropy. *Journals of the Atmospheric Sciences*, **2009**, 66, 1149-1171	2.1	75
78	Gravity wave–fine structure interactions: A reservoir of small-scale and large-scale turbulence energy. *Geophysical Research Letters*, **2009**, 36,	4.9	30
77	Gravity wave initiation of equatorial spread F/plasma bubble irregularities based on observational data from the SpreadFEx campaign. *Annales Geophysicae*, **2009**, 27, 2607-2622	2	147
76	Gravity wave penetration into the thermosphere: sensitivity to solar cycle variations and mean winds. *Annales Geophysicae*, **2008**, 26, 3841-3861	2	85
75	Gravity wave and tidal influences on equatorial spread F based on observations during the Spread F Experiment (SpreadFEx). *Annales Geophysicae*, **2008**, 26, 3235-3252	2	72
74	Gravity wave momentum flux in the upper mesosphere derived from OH airglow imaging measurements. *Earth, Planets and Space*, **2007**, 59, 421-428	2.9	24
73	Intense turbulence observed above a mesospheric temperature inversion at equatorial latitude. *Geophysical Research Letters*, **2006**, 33,	4.9	20
72	Influence of solar variability on gravity wave structure and dissipation in the thermosphere from tropospheric convection. *Journal of Geophysical Research*, **2006**, 111,		80
71	Two-day wave coupling of the low-latitude atmosphere-ionosphere system. *Journal of Geophysical Research*, **2006**, 111,		77
70	A climatology of tides in the Antarctic mesosphere and lower thermosphere. *Journal of Geophysical Research*, **2006**, 111,		57

69	Regional variations of mesospheric gravity-wave momentum flux over Antarctica. *Annales Geophysicae*, **2006**, 24, 81-88	2	33
68	Gravity wave propagation through a large semidiurnal tide and instabilities in the mesosphere and lower thermosphere during the winter 2003 MaCWAVE rocket campaign. *Annales Geophysicae*, **2006**, 24, 1199-1208	2	29
67	Gravity waves in the middle atmosphere during the MaCWAVE winter campaign: evidence of mountain wave critical level encounters. *Annales Geophysicae*, **2006**, 24, 1209-1226	2	21
66	Mean and variable forcing of the middle atmosphere by gravity waves. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2006**, 68, 247-265	2	118
65	The MaCWAVE program to study gravity wave influences on the polar mesosphere. *Annales Geophysicae*, **2006**, 24, 1159-1173	2	20
64	Enhanced gravity-wave activity and interhemispheric coupling during the MaCWAVE/MIDAS northern summer program 2002. *Annales Geophysicae*, **2006**, 24, 1175-1188	2	66
63	Thermospheric responses to gravity waves: Influences of increasing viscosity and thermal diffusivity. *Journal of Geophysical Research*, **2005**, 110,		185
62	Thermospheric responses to gravity waves arising from mesoscale convective complexes. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2004**, 66, 781-804	2	87
61	Turbulence measurements and implications for gravity wave dissipation during the MaCWAVE/MIDAS rocket program. *Geophysical Research Letters*, **2004**, 31,	4.9	48
60	Observations of extreme temperature and wind gradients near the summer mesopause during the MaCWAVE/MIDAS rocket campaign. *Geophysical Research Letters*, **2004**, 31,	4.9	47
59	The MaCWAVE/MIDAS rocket and ground-based measurements of polar summer dynamics: Overview and mean state structure. *Geophysical Research Letters*, **2004**, 31,	4.9	41
58	Mechanism for the Generation of Secondary Waves in Wave Breaking Regions. *Journals of the Atmospheric Sciences*, **2003**, 60, 194-214	2.1	131
57	Gravity wave dynamics and effects in the middle atmosphere. *Reviews of Geophysics*, **2003**, 41,	23.1	1562
56	Layering accompanying turbulence generation due to shear instability and gravity-wave breaking. *Journal of Geophysical Research*, **2003**, 108,		76
55	The importance of spatial variability in the generation of secondary gravity waves from local body forces. *Geophysical Research Letters*, **2002**, 29, 45-1-45-4	4.9	43
54	An estimate of strong local body forcing and gravity wave radiation based on OH airglow and meteor radar observations. *Geophysical Research Letters*, **2002**, 29, 71-1-71-4	4.9	59
53	Gravity Wave Radiation and Mean Responses to Local Body Forces in the Atmosphere. *Journals of the Atmospheric Sciences*, **2001**, 58, 2249-2279	2.1	84
52	Turbulence statistics of a Kelvin–Helmholtz billow event observed in the night-time boundary layer during the Cooperative Atmosphere–Surface Exchange Study field program. *Dynamics of Atmospheres and Oceans*, **2001**, 34, 189-204	1.9	89

51	Two-day wave structure and mean flow interactions observed by radar and High Resolution Doppler Imager. *Journal of Geophysical Research*, **1999**, 104, 3953-3969		42
50	Stratified shear turbulence: Evolution and statistics. *Geophysical Research Letters*, **1999**, 26, 439-442	4.9	102
49	The vorticity dynamics of instability and turbulence in a breaking internal gravity wave. *Earth, Planets and Space*, **1999**, 51, 457-473	2.9	6
48	Kelvin twist waves in the transition to turbulence. *European Journal of Mechanics, B/Fluids*, **1998**, 17, 595-604	2.4	10
47	The instability of a vortex tube in a weak external shear and strain. *Physics of Fluids*, **1998**, 10, 530-532	4.4	3
46	Vorticity dynamics in a breaking internal gravity wave. Part 2. Vortex interactions and transition to turbulence. *Journal of Fluid Mechanics*, **1998**, 367, 47-65	3.7	71
45	Vorticity dynamics in a breaking internal gravity wave. Part 1. Initial instability evolution. *Journal of Fluid Mechanics*, **1998**, 367, 27-46	3.7	98
44	The initial value problem for Kelvin vortex waves. *Journal of Fluid Mechanics*, **1997**, 344, 181-212	3.7	33
43	Observational evidence of wave ducting and evanescence in the mesosphere. *Journal of Geophysical Research*, **1997**, 102, 26301-26313		95
42	Wave breaking signatures in sodium densities and OH nightglow: 2. Simulation of wave and instability structures. *Journal of Geophysical Research*, **1997**, 102, 6669-6684		54
41	Wave breaking signatures in OH airglow and sodium densities and temperatures: 1. Airglow imaging, Na lidar, and MF radar observations. *Journal of Geophysical Research*, **1997**, 102, 6655-6668		104
40	Equatorial dynamics observed by rocket, radar, and satellite during the CADRE/MALTED campaign: 1. Programmatics and small-scale fluctuations. *Journal of Geophysical Research*, **1997**, 102, 26179-26190		15
39	Wave Breaking and Transition to Turbulence in Stratified Shear Flows. *Journals of the Atmospheric Sciences*, **1996**, 53, 1057-1085	2.1	75
38	Evolution and Breakdown of Kelvin–Helmholtz Billows in Stratified Compressible Flows. Part I: Comparison of Two- and Three-Dimensional Flows. *Journals of the Atmospheric Sciences*, **1996**, 53, 3173-3191	2.1	78
37	Evolution and Breakdown of Kelvin–Helmholtz Billows in Stratified Compressible Flows. Part II: Instability Structure, Evolution, and Energetics. *Journals of the Atmospheric Sciences*, **1996**, 53, 3192-3212	2.1	45
36	Dynamical and radiative forcing of the summer mesopause circulation and thermal structure: 2. Seasonal variations. *Journal of Geophysical Research*, **1995**, 100, 3129		17
35	On the downward bias in vertical velocity measurements by VHF radars. *Geophysical Research Letters*, **1995**, 22, 619-622	4.9	15
34	Mean winds and tidal and planetary wave motions over Hawaii during airborne lidar and observations of Hawaiian Airglow ALOHA-93. *Geophysical Research Letters*, **1995**, 22, 2821-2824	4.9	9

33	Determination of horizontal and vertical structure of an unusual pattern of short period gravity waves imaged during ALOHA-93. *Geophysical Research Letters*, **1995**, 22, 2837-2840	4.9	39
32	Observations of inertia-gravity wave motions in the stratosphere over Jicamarca, Peru. *Geophysical Research Letters*, **1995**, 22, 3239-3242	4.9	12
31	Mean Motions and Tidal and Two-Day Structure and Variability in the Mesosphere and Lower Thermosphere over Hawaii. *Journals of the Atmospheric Sciences*, **1994**, 51, 2145-2164	2.1	82
30	Gravity wave breaking in two and three dimensions: 1. Model description and comparison of two-dimensional evolutions. *Journal of Geophysical Research*, **1994**, 99, 8095		84
29	Gravity wave breaking in two and three dimensions: 2. Three-dimensional evolution and instability structure. *Journal of Geophysical Research*, **1994**, 99, 8109		109
28	Three-dimensional evolution of Kelvin-Helmholtz billows in stratified compressible flow. *Geophysical Research Letters*, **1994**, 21, 2287-2290	4.9	23
27	Wave breaking signatures in noctilucent clouds. *Geophysical Research Letters*, **1993**, 20, 2039-2042	4.9	86
26	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part II: Parameterization of Wave Forcing and Variability. *Journals of the Atmospheric Sciences*, **1993**, 50, 3695-3713	2.1	118
25	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part I: Energy Dissipation, Acceleration, and Constraints. *Journals of the Atmospheric Sciences*, **1993**, 50, 3685-3694	2.1	157
24	Gravity-Wave Excitation by Geostrophic Adjustment of the Jet Stream. Part II: Three-Dimensional Forcing. *Journals of the Atmospheric Sciences*, **1993**, 50, 104-115	2.1	46
23	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part III: Gravity Wave-Tidal Interactions. *Journals of the Atmospheric Sciences*, **1993**, 50, 3714-3727	2.1	32
22	Dynamics of the Equatorial Mesosphere Observed Using the Jicamarca MST Radar during June and August 1987. *Journals of the Atmospheric Sciences*, **1992**, 49, 2353-2371	2.1	32
21	Sources of Mesoscale Variability of Gravity Waves. Part I: Topographic Excitation. *Journals of the Atmospheric Sciences*, **1992**, 49, 101-110	2.1	156
20	Mean Winds and Momentum Fluxes over Jicamarca, Peru, during June and August 1987. *Journals of the Atmospheric Sciences*, **1992**, 49, 2372-2383	2.1	33
19	Sources of Mesoscale Variability of Gravity Waves. Part II: Frontal, Convective, and Jet Stream Excitation. *Journals of the Atmospheric Sciences*, **1992**, 49, 111-127	2.1	198
18	Evidence of Gravity Wave–Tidal Interaction Observed near the Summer Mesopause at Poker Flat, Alaska. *Journals of the Atmospheric Sciences*, **1991**, 48, 572-583	2.1	43
17	Mesospheric Momentum Fluxes Observed by the MST Radar at Poker Flat, Alaska. *Journals of the Atmospheric Sciences*, **1990**, 47, 1512-1521	2.1	54
16	A theory of enhanced saturation of the gravity wave spectrum due to increases in atmospheric stability. *Pure and Applied Geophysics*, **1989**, 130, 399-420	2.2	144

15	An analysis of gravity wave ducting in the atmosphere: Eckart's resonances in thermal and Doppler ducts. *Journal of Geophysical Research*, **1989**, 94, 18455		53
14	Gravity Wave Structure between 60 and 90 km Inferred from Space Shuttle Reentry Data. *Journals of the Atmospheric Sciences*, **1989**, 46, 423-434	2.1	47
13	Measurement of Momentum Fluxes near the Summer Mesopause at Poker Flat, Alaska. *Journals of the Atmospheric Sciences*, **1989**, 46, 2569-2579	2.1	62
12	Evidence of gravity wave saturation and local turbulence production in the summer mesosphere and lower thermosphere during the STATE experiment. *Journal of Geophysical Research*, **1988**, 93, 7015-7025		84
11	Gravity Wave 1-leat Fluxes: A Lagrangian Approach. *Journals of the Atmospheric Sciences*, **1988**, 45, 1770-1780	2.1	47
10	Mesospheric Momentum Flux Studies at Adelaide, Australia: Observations and a Gravity Wave–tidal Interaction Model. *Journals of the Atmospheric Sciences*, **1987**, 44, 605-619	2.1	326
9	An Investigation of the Vertical Wavenumber and Frequency Spectra of Gravity Wave Motions in the Lower Stratosphere. *Journals of the Atmospheric Sciences*, **1987**, 44, 3610-3624	2.1	72
8	Fluxes of Heat and Constituents Due to Convectively Unstable Gravity Waves. *Journals of the Atmospheric Sciences*, **1985**, 42, 549-556	2.1	107
7	Convective and dynamical instabilities due to gravity wave motions in the lower and middle atmosphere: Theory and observations. *Radio Science*, **1985**, 20, 1247-1277	1.4	245
6	Shear Excitation of Atmospheric Gravity Waves. Part II: Nonlinear Radiation from a Free Shear Layer. *Journals of the Atmospheric Sciences*, **1984**, 41, 524-537	2.1	64
5	Gravity wave saturation in the middle atmosphere: A review of theory and observations. *Reviews of Geophysics*, **1984**, 22, 275	23.1	465
4	Transient Gravity Wave-Critical Layer Interaction. Part I: Convective Adjustment and the Mean Zonal Acceleration. *Journals of the Atmospheric Sciences*, **1984**, 41, 992-1007	2.1	29
3	A Quasi-Linear Study of Gravity-Wave Saturation and Self-Acceleration. *Journals of the Atmospheric Sciences*, **1984**, 41, 3272-3289	2.1	50
2	The Excitation of Radiating Waves and Kelvin-Helmholtz Instabilities by the Gravity Wave-Critical Level Interaction. *Journals of the Atmospheric Sciences*, **1979**, 36, 12-23	2.1	35
1	Using lidar and rockets to explore turbulence in the atmosphere. *SPIE Newsroom*,		3