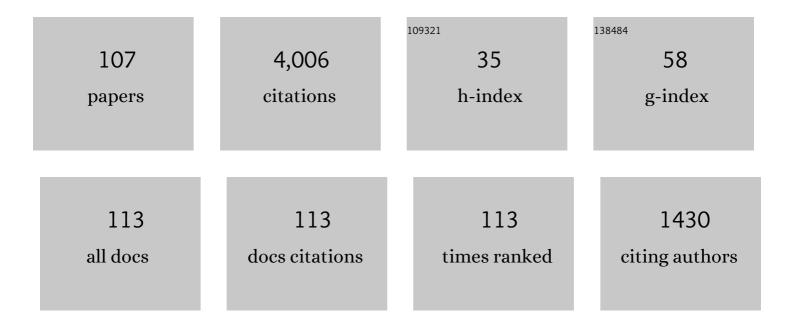
## Michael J Taylor

List of Publications by Year in descending order

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MICHAEL L TAVLOR

#	Article	IF	CITATIONS
1	Two-dimensional spectral analysis of mesospheric airglow image data. Applied Optics, 1997, 36, 7374.	2.1	185
2	The Aeronomy of Ice in the Mesosphere (AIM) mission: Overview and early science results. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 289-299.	1.6	179
3	Identification of a thunderstorm as a source of short period gravity waves in the upper atmospheric nightglow emissions. Planetary and Space Science, 1988, 36, 975-985.	1.7	176
4	All-sky measurements of short period waves imaged in the OI(557.7 nm), Na(589.2 nm) and near infrared OH and O2(0,1) nightglow emissions during the ALOHA-93 Campaign. Geophysical Research Letters, 1995, 22, 2833-2836.	4.0	160
5	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.	3.3	148
6	lmage measurements of short-period gravity waves at equatorial latitudes. Journal of Geophysical Research, 1997, 102, 26283-26299.	3.3	138
7	Spectrometric and imaging measurements of a spectacular gravity wave event observed during the ALOHA-93 Campaign. Geophysical Research Letters, 1995, 22, 2849-2852.	4.0	115
8	Observational evidence of wave ducting and evanescence in the mesosphere. Journal of Geophysical Research, 1997, 102, 26301-26313.	3.3	115
9	Simultaneous observation of ionospheric plasma bubbles and mesospheric gravity waves during the SpreadFEx Campaign. Annales Geophysicae, 2009, 27, 1477-1487.	1.6	115
10	Evidence of preferential directions for gravity wave propagation due to wind filtering in the middle atmosphere. Journal of Geophysical Research, 1993, 98, 6047-6057.	3.3	101
11	A multidiagnostic investigation of the mesospheric bore phenomenon. Journal of Geophysical Research, 2003, 108, .	3.3	83
12	An investigation of gravity wave activity in the low-latitude upper mesosphere: Propagation direction and wind filtering. Journal of Geophysical Research, 2003, 108, .	3.3	77
13	Possible evidence of gravity wave coupling into the mid-latitude F region ionosphere during the SEEK Campaign. Geophysical Research Letters, 1998, 25, 1801-1804.	4.0	62
14	Visual and lidar observations of noctilucent clouds above Logan, Utah, at 41.7°N. Journal of Geophysical Research, 2002, 107, ACL 2-1.	3.3	62
15	Characteristics of mesospheric gravity waves near the magnetic equator, Brazil, during the SpreadFEx campaign. Annales Geophysicae, 2009, 27, 461-472.	1.6	62
16	Advanced mesospheric temperature mapper for high-latitude airglow studies. Applied Optics, 2014, 53, 5934.	1.8	61
17	High resolution OI (630 nm) image measurements of F-region depletion drifts during the GuarÃ <sub>i</sub> Campaign. Geophysical Research Letters, 1997, 24, 1699-1702.	4.0	60
18	Observational limits for lidar, radar, and airglow imager measurements of gravity wave parameters. Journal of Geophysical Research, 1998, 103, 6427-6437.	3.3	59

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19	Polar mesospheric cloud structures observed from the cloud imaging and particle size experiment on the Aeronomy of Ice in the Mesosphere spacecraft: Atmospheric gravity waves as drivers for longitudinal variability in polar mesospheric cloud occurrence. Journal of Geophysical Research, 2010, 115, .	3.3	58
20	Stratospheric Gravity Wave Fluxes and Scales during DEEPWAVE. Journals of the Atmospheric Sciences, 2016, 73, 2851-2869.	1.7	58
21	Gravity wave observations in the summertime polar mesosphere from the Cloud Imaging and Particle Size (CIPS) experiment on the AIM spacecraft. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 392-400.	1.6	56
22	An investigation of intrinsic gravity wave signatures using coordinated lidar and nightglow image measurements. Geophysical Research Letters, 1995, 22, 2853-2856.	4.0	53
23	Seasonal variations of the gravity wave momentum flux in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .	3.3	52
24	Comparison of simultaneous Na lidar and mesospheric nightglow temperature measurements and the effects of tides on the emission layer heights. Journal of Geophysical Research, 2005, 110, .	3.3	45
25	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.	3.3	45
26	Terdiurnal oscillations in OH Meinel rotational temperatures for fall conditions at northern mid-latitude sites. Geophysical Research Letters, 2000, 27, 1799-1802.	4.0	44
27	Climatology of short-period gravity waves observed over northern Australia during the Darwin Area Wave Experiment (DAWEX) and their dominant source regions. Journal of Geophysical Research, 2005, 110, .	3.3	44
28	Secondary gravity wave generation over New Zealand during the DEEPWAVE campaign. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7834-7850.	3.3	44
29	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.	4.0	43
30	Large amplitude perturbations in mesospheric OH Meinel and 87-Km Na lidar temperatures around the autumnal equinox. Geophysical Research Letters, 2001, 28, 1899-1902.	4.0	42
31	Statistical Characteristics of Sprite Halo Events Using Coincident Photometric and Imaging Data. Geophysical Research Letters, 2002, 29, 29-1.	4.0	42
32	Climatology of short-period mesospheric gravity waves over Halley, Antarctica (76°S, 27°W). Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 991-1000.	1.6	40
33	Comparison of terdiurnal tidal oscillations in mesospheric OH rotational temperature and Na lidar temperature measurements at mid-latitudes for fall/spring conditions. Earth, Planets and Space, 1999, 51, 877-885.	2.5	39
34	A two-dimensional spectral analysis of short period gravity waves imaged in the OI(557.7 nm) and near infra red OH nightglow emissions over Arecibo, Puerto Rico. Geophysical Research Letters, 1995, 22, 2473-2476.	4.0	37
35	An unusual mesospheric bore event observed at high latitudes over Antarctica. Geophysical Research Letters, 2006, 33, .	4.0	37
36	Analysis of gravity waves structures visible in noctilucent cloud images. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2082-2090.	1.6	37

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37	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.	1.7	37
38	Long-period wave signatures in mesospheric OH Meinel (6,2) band intensity and rotational temperature at mid-latitudes. Advances in Space Research, 2001, 27, 1171-1179.	2.6	36
39	Analysis and modeling of ducted and evanescent gravity waves observed in the Hawaiian airglow. Annales Geophysicae, 2009, 27, 3213-3224.	1.6	36
40	Quantifying gravity wave momentum fluxes with Mesosphere Temperature Mappers and correlative instrumentation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,583.	3.3	35
41	First observation of an undular mesospheric bore in a Doppler duct. Annales Geophysicae, 2009, 27, 1399-1406.	1.6	33
42	Largeâ€∎mplitude 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.	3.3	33
43	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.	3.3	33
44	Does Strong Tropospheric Forcing Cause Largeâ€Amplitude Mesospheric Gravity Waves? A DEEPWAVE Case Study. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,422.	3.3	33
45	OH and OI airglow layer modulation by ducted shortâ€period gravity waves: Effects of trapping altitude. Journal of Geophysical Research, 2010, 115, .	3.3	32
46	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.	3.3	32
47	An unusual airglow wave event observed at Cachoeira Paulista 23° S. Advances in Space Research, 2001, 27, 1749-1754.	2.6	30
48	Mesospheric planetary waves at northern hemisphere fall equinox. Geophysical Research Letters, 2001, 28, 1903-1906.	4.0	29
49	Terdiurnal wave signatures in the upper mesospheric temperature and their association with the wind fields at low latitudes (20°N). Journal of Geophysical Research, 2005, 110, .	3.3	29
50	Doppler ducting of short-period gravity waves by midlatitude tidal wind structure. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	29
51	Assessment of gravity wave momentum flux measurement capabilities by meteor radars having different transmitter power and antenna configurations. Journal of Geophysical Research, 2012, 117, .	3.3	27
52	Coordinated investigation of midlatitude upper mesospheric temperature inversion layers and the associated gravity wave forcing by Na lidar and Advanced Mesospheric Temperature Mapper in Logan, Utah. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3756-3769.	3.3	27
53	Evidence of dispersion and refraction of a spectrally broad gravity wave packet in the mesopause region observed by the Na lidar and Mesospheric Temperature Mapper above Logan, Utah. Journal of Geophysical Research D: Atmospheres, 2016, 121, 579-594.	3.3	26
54	Largeâ€Amplitude Mountain Waves in the Mesosphere Accompanying Weak Crossâ€Mountain Flow During DEEPWAVE Research Flight RF22. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9992.	3.3	26

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55	Thunderstorm and lightning characteristics associated with sprites in Brazil. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	25
56	High-Latitude Gravity Wave Measurements in Noctilucent Clouds and Polar Mesospheric Clouds. , 2011, , 93-105.		23
57	Mesospheric wave signatures and equatorial plasma bubbles: A case study. Journal of Geophysical Research, 2010, 115, .	3.3	22
58	On the nature of shortâ€period mesospheric gravity wave propagation over Halley, Antarctica. Journal of Geophysical Research, 2012, 117, .	3.3	22
59	Comparison of 1998 and 1999 Leonid Light Curve Morphology and Meteoroid Structure. Earth, Moon and Planets, 1998, 82/83, 351-367.	0.6	21
60	Long base-line measurements of short-period mesospheric gravity waves during the SEEK Campaign. Geophysical Research Letters, 1998, 25, 1797-1800.	4.0	21
61	Morphology of polar mesospheric clouds as seen from space. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 234-243.	1.6	21
62	Concentric gravity waves in polar mesospheric clouds from the Cloud Imaging and Particle Size experiment. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5115-5127.	3.3	21
63	Largeâ€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.	3.3	21
64	Characteristics of wave induced oscillations in mesospheric O2emission intensity and temperatures. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	20
65	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.	3.3	19
66	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.	3.3	19
67	Noctilucent cloud in the western Arctic in 2005: Simultaneous lidar and camera observations and analysis. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 446-452.	1.6	18
68	Radar, lidar, and optical observations in the polar summer mesosphere shortly after a space shuttle launch. Journal of Geophysical Research, 2010, 115, .	3.3	18
69	New AIM/CIPS global observations of gravity waves near 50–55Âkm. Geophysical Research Letters, 2017, 44, 7044-7052.	4.0	18
70	A Very Active Sprite-Producing Storm Observed Over Argentina. Eos, 2007, 88, 117.	0.1	17
71	A novel joint space-wavenumber analysis of an unusual Antarctic gravity wave event. Geophysical Research Letters, 2006, 33, .	4.0	15
72	Investigating seasonal gravity wave activity in the summer polar mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 8-20.	1.6	15

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73	Largeâ€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.	3.3	15
74	Numerical and statistical evidence for longâ€range ducted gravity wave propagation over Halley, Antarctica. Geophysical Research Letters, 2013, 40, 4813-4817.	4.0	14
75	Multiple wavelength optical observations of a long-lived meteor trail. Geophysical Research Letters, 2001, 28, 2779-2782.	4.0	13
76	Strong electric fields from positive lightning strokes in the stratosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	13
77	Case study of an ice void structure in polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 224-233.	1.6	13
78	Unexpected Occurrence of Mesospheric Frontal Gravity Wave Events Over South Pole (90°S). Journal of Geophysical Research D: Atmospheres, 2018, 123, 160-173.	3.3	13
79	The evolution of a breaking mesospheric bore wave packet. Journal of Geophysical Research, 2011, 116, .	3.3	12
80	Seasonal Propagation Characteristics of MSTIDs Observed at High Latitudes Over Central Alaska Using the Poker Flat Incoherent Scatter Radar. Journal of Geophysical Research: Space Physics, 2018, 123, 5717-5737.	2.4	12
81	Regional Distribution of Mesospheric Small cale Gravity Waves During DEEPWAVE. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7069-7081.	3.3	12
82	First Groundâ€Based Conjugate Observations of Stable Auroral Red (SAR) Arcs. Journal of Geophysical Research: Space Physics, 2019, 124, 4658-4671.	2.4	12
83	Recent progress in mesospheric gravity wave studies using nigthglow imaging system. Revista Brasileira De Geofisica, 0, 25, 49-58.	0.2	12
84	Retrieval of intrinsic mesospheric gravity wave parameters using lidar and airglow temperature and meteor radar wind data. Atmospheric Measurement Techniques, 2019, 12, 5997-6015.	3.1	12
85	The effect of atmospheric screening on the visible border of noctilucent clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 1984, 46, 363-372.	0.9	11
86	An Investigation of Thunderstorms as a Source of Short Period Mesospheric Gravity Waves. Geophysical Monograph Series, 0, , 177-184.	0.1	11
87	Simultaneous in situ measurements of small-scale structures in neutral, plasma, and atomic oxygen densities during the WADIS sounding rocket project. Atmospheric Chemistry and Physics, 2019, 19, 11443-11460.	4.9	11
88	Measurements of noctilucent cloud heights: a bench mark for changes in the mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 461-466.	0.9	10
89	Seasonal oscillations in mesospheric temperatures at low-latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2367-2378.	1.6	10
90	Height measurements of OI(557.7 nm) gravity wave structure over the Hawaiian Islands during ALOHA-93. Geophysical Research Letters, 1995, 22, 2881-2884.	4.0	9

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91	Critical level interaction of a gravity wave with background winds driven by a largeâ€scale wave perturbation. Journal of Geophysical Research, 2009, 114, .	3.3	9
92	Jet-Like Structures and Wake in Mg I (518 nm) Images of 1999 Leonid Storm Meteors. Earth, Moon and Planets, 1998, 82/83, 379-389.	0.6	8
93	Observing gravity wave activity in the mesopause region by means of airglow tomography. Advances in Space Research, 2000, 26, 903-906.	2.6	8
94	Twin mesospheric bores observed over Brazilian equatorial region. Annales Geophysicae, 2016, 34, 91-96.	1.6	8
95	Investigating Gravity Waves in Polar Mesospheric Clouds Using Tomographic Reconstructions of AIM Satellite Imagery. Journal of Geophysical Research: Space Physics, 2018, 123, 955-973.	2.4	8
96	Simultaneous observations of the phaseâ€locked 2 day wave at Adelaide, Cerro Pachon, and Darwin. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1808-1825.	3.3	7
97	Investigating an Unusually Large 28â€Day Oscillation in Mesospheric Temperature Over Antarctica Using Groundâ€Based and Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8576-8593.	3.3	7
98	Cloud Formation From a Localized Water Release in the Upper Mesosphere: Indication of Rapid Cooling. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027285.	2.4	7
99	High frequency atmospheric gravity-wave properties using Fe-lidar and OH-imager observations. Geophysical Research Letters, 2005, 32, .	4.0	6
100	Mesospheric Mountain Wave Activity in the Lee of the Southern Andes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033268.	3.3	6
101	Dominant winter-time mesospheric wave signatures over a low latitude station, Hawaii (20.8°N): An investigation. Journal of Earth System Science, 2010, 119, 259-264.	1.3	5
102	Evidence for Horizontal Blocking and Reflection of a Small cale Gravity Wave in the Mesosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031828.	3.3	4
103	First Observed Temporal Development of a Noctilucent Cloud Ice Void. Geophysical Research Letters, 2018, 45, 10,003-10,010.	4.0	3
104	Thermal structure of the mesopause region during the WADIS-2 rocket campaign. Atmospheric Chemistry and Physics, 2019, 19, 77-88.	4.9	3
105	Three-dimensional tomographic reconstruction of mesospheric airglow structures using two-station ground-based image measurements. Applied Optics, 2012, 51, 963.	1.8	2
106	Mesosphere and Lower Thermosphere Changes Associated With the 2 July 2019 Total Eclipse in South America Over the Andes Lidar Observatory, Cerro Pachon, Chile. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	2
107	Preliminary Data on Variations of OH Airglow during the Leonid 1999 Meteor Storm. Earth, Moon and Planets, 1998, 82/83, 525-534.	0.6	1