## Michael J Taylor

List of Publications by Year in descending order

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| 107      | 4,006          | 35           | 58             |
|----------|----------------|--------------|----------------|
| papers   | citations      | h-index      | g-index        |
| 113      | 113            | 113          | 1430           |
| all docs | docs citations | times ranked | citing authors |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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, .                     | 1,2 | 2         |
| 2  | Cloud Formation From a Localized Water Release in the Upper Mesosphere: Indication of Rapid Cooling. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027285.   | 0.8 | 7         |
| 3  | Mesospheric Mountain Wave Activity in the Lee of the Southern Andes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033268.   | 1.2 | 6         |
| 4  | Evidence for Horizontal Blocking and Reflection of a Smallâ€Scale Gravity Wave in the Mesosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031828.  | 1.2 | 4         |
| 5  | Investigating an Unusually Large 28â€Day Oscillation in Mesospheric Temperature Over Antarctica Using<br>Groundâ€Based and Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124,<br>8576-8593.                      | 1.2 | 7         |
| 6  | 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. | 1,2 | 21        |
| 7  | Regional Distribution of Mesospheric Smallâ€Scale Gravity Waves During DEEPWAVE. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7069-7081.   | 1.2 | 12        |
| 8  | First Groundâ€Based Conjugate Observations of Stable Auroral Red (SAR) Arcs. Journal of Geophysical Research: Space Physics, 2019, 124, 4658-4671.   | 0.8 | 12        |
| 9  | Thermal structure of the mesopause region during the WADIS-2 rocket campaign. Atmospheric Chemistry and Physics, 2019, 19, 77-88.  | 1.9 | 3         |
| 10 | 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.                                  | 1.9 | 11        |
| 11 | Largeâ€Amplitude Mountain Waves in the Mesosphere Observed on 21 June 2014 During DEEPWAVE: 2.<br>Nonlinear Dynamics, Wave Breaking, and Instabilities. Journal of Geophysical Research D: Atmospheres,<br>2019, 124, 10006-10032.               | 1.2 | 15        |
| 12 | Retrieval of intrinsic mesospheric gravity wave parameters using lidar and airglow temperature and meteor radar wind data. Atmospheric Measurement Techniques, 2019, 12, 5997-6015.  | 1.2 | 12        |
| 13 | Investigating Gravity Waves in Polar Mesospheric Clouds Using Tomographic Reconstructions of AIM Satellite Imagery. Journal of Geophysical Research: Space Physics, 2018, 123, 955-973.  | 0.8 | 8         |
| 14 | Unexpected Occurrence of Mesospheric Frontal Gravity Wave Events Over South Pole (90°S). Journal of Geophysical Research D: Atmospheres, 2018, 123, 160-173.   | 1.2 | 13        |
| 15 | 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.   | 1.2 | 19        |
| 16 | First Observed Temporal Development of a Noctilucent Cloud Ice Void. Geophysical Research Letters, 2018, 45, 10,003-10,010.  | 1.5 | 3         |
| 17 | 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.  | 1.2 | 26        |
| 18 | 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.                               | 0.8 | 12        |

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|----|---|-----|-----------|
| 19 | Numerical modeling of a multiscale gravity wave event and its airglow signatures over Mount Cook,<br>New Zealand, during the DEEPWAVE campaign. Journal of Geophysical Research D: Atmospheres, 2017,<br>122, 846-860.  | 1.2 | 33        |
| 20 | Secondary gravity wave generation over New Zealand during the DEEPWAVE campaign. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7834-7850.  | 1.2 | 44        |
| 21 | Does Strong Tropospheric Forcing Cause Largeâ€Amplitude Mesospheric Gravity Waves? A DEEPWAVE<br>Case Study. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,422.   | 1.2 | 33        |
| 22 | New AIM/CIPS global observations of gravity waves near 50–55Âkm. Geophysical Research Letters, 2017, 44, 7044-7052.   | 1.5 | 18        |
| 23 | Twin mesospheric bores observed over Brazilian equatorial region. Annales Geophysicae, 2016, 34, 91-96.   | 0.6 | 8         |
| 24 | 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.                    | 1.2 | 26        |
| 25 | Largeâ€amplitude mesospheric response to an orographic wave generated over the Southern Ocean<br>Auckland Islands (50.7°S) during the DEEPWAVE project. Journal of Geophysical Research D:<br>Atmospheres, 2016, 121, 1431-1441.  | 1.2 | 33        |
| 26 | 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.  | 0.6 | 37        |
| 27 | Stratospheric Gravity Wave Fluxes and Scales during DEEPWAVE. Journals of the Atmospheric Sciences, 2016, 73, 2851-2869.  | 0.6 | 58        |
| 28 | 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.  | 1.7 | 148       |
| 29 | 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.   | 1.2 | 45        |
| 30 | Simultaneous observations of the phase″ocked 2 day wave at Adelaide, Cerro Pachon, and Darwin. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1808-1825.  | 1.2 | 7         |
| 31 | Investigating seasonal gravity wave activity in the summer polar mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 8-20.   | 0.6 | 15        |
| 32 | 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. | 1.2 | 27        |
| 33 | Advanced mesospheric temperature mapper for high-latitude airglow studies. Applied Optics, 2014, 53, 5934.  | 0.9 | 61        |
| 34 | Quantifying gravity wave momentum fluxes with Mesosphere Temperature Mappers and correlative instrumentation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,583.  | 1.2 | 35        |
| 35 | 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.  | 1.2 | 32        |
| 36 | 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.   | 1.2 | 21        |

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|----|---|-----|-----------|
| 37 | Investigation of a mesospheric gravity wave ducting event using coordinated sodium lidar and<br>Mesospheric Temperature Mapper measurements at ALOMAR, Norway (69°N). Journal of Geophysical<br>Research D: Atmospheres, 2014, 119, 9765-9778.  | 1.2 | 19        |
| 38 | Morphology of polar mesospheric clouds as seen from space. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 234-243.  | 0.6 | 21        |
| 39 | Case study of an ice void structure in polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 224-233.  | 0.6 | 13        |
| 40 | Numerical and statistical evidence for longâ€range ducted gravity wave propagation over Halley, Antarctica. Geophysical Research Letters, 2013, 40, 4813-4817.  | 1.5 | 14        |
| 41 | Three-dimensional tomographic reconstruction of mesospheric airglow structures using two-station ground-based image measurements. Applied Optics, 2012, 51, 963.  | 0.9 | 2         |
| 42 | On the nature of shortâ€period mesospheric gravity wave propagation over Halley, Antarctica. Journal of Geophysical Research, 2012, 117, .  | 3.3 | 22        |
| 43 | 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        |
| 44 | The evolution of a breaking mesospheric bore wave packet. Journal of Geophysical Research, 2011, 116, .   | 3.3 | 12        |
| 45 | Analysis of gravity waves structures visible in noctilucent cloud images. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2082-2090.  | 0.6 | 37        |
| 46 | High-Latitude Gravity Wave Measurements in Noctilucent Clouds and Polar Mesospheric Clouds. , 2011, , 93-105.   |     | 23        |
| 47 | 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        |
| 48 | Mesospheric wave signatures and equatorial plasma bubbles: A case study. Journal of Geophysical Research, 2010, 115, .  | 3.3 | 22        |
| 49 | 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        |
| 50 | 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        |
| 51 | 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.   | 0.6 | 5         |
| 52 | Analysis and modeling of ducted and evanescent gravity waves observed in the Hawaiian airglow. Annales Geophysicae, 2009, 27, 3213-3224.  | 0.6 | 36        |
| 53 | Characteristics of mesospheric gravity waves near the magnetic equator, Brazil, during the SpreadFEx campaign. Annales Geophysicae, 2009, 27, 461-472.  | 0.6 | 62        |
| 54 | Simultaneous observation of ionospheric plasma bubbles and mesospheric gravity waves during the SpreadFEx Campaign. Annales Geophysicae, 2009, 27, 1477-1487.   | 0.6 | 115       |

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|----|---|-----|-----------|
| 55 | 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.                                      | 0.6 | 18        |
| 56 | 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.   | 0.6 | 179       |
| 57 | 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. | 0.6 | 56        |
| 58 | 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.   | 0.6 | 40        |
| 59 | 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         |
| 60 | First observation of an undular mesospheric bore in a Doppler duct. Annales Geophysicae, 2009, 27, 1399-1406.   | 0.6 | 33        |
| 61 | 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        |
| 62 | A Very Active Sprite-Producing Storm Observed Over Argentina. Eos, 2007, 88, 117.   | 0.1 | 17        |
| 63 | Seasonal oscillations in mesospheric temperatures at low-latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2367-2378.  | 0.6 | 10        |
| 64 | Characteristics of wave induced oscillations in mesospheric O2emission intensity and temperatures. Geophysical Research Letters, 2006, 33, n/a-n/a.   | 1.5 | 20        |
| 65 | An unusual mesospheric bore event observed at high latitudes over Antarctica. Geophysical Research Letters, 2006, 33, .   | 1.5 | 37        |
| 66 | A novel joint space-wavenumber analysis of an unusual Antarctic gravity wave event. Geophysical Research Letters, 2006, 33, .   | 1.5 | 15        |
| 67 | Strong electric fields from positive lightning strokes in the stratosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.  | 1.5 | 13        |
| 68 | High frequency atmospheric gravity-wave properties using Fe-lidar and OH-imager observations. Geophysical Research Letters, 2005, 32, .   | 1.5 | 6         |
| 69 | Terdiurnal wave signatures in the upper mesospheric temperature and their association with the wind fields at low latitudes ( $20 \hat{A}^\circ N$ ). Journal of Geophysical Research, 2005, $110$ , .                  | 3.3 | 29        |
| 70 | 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        |
| 71 | 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        |
| 72 | Seasonal variations of the gravity wave momentum flux in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .   | 3.3 | 52        |

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|----|--|-----|-----------|
| 73 | Thunderstorm and lightning characteristics associated with sprites in Brazil. Geophysical Research Letters, 2004, 31, n/a-n/a.   | 1.5 | 25        |
| 74 | A multidiagnostic investigation of the mesospheric bore phenomenon. Journal of Geophysical Research, 2003, 108, .  | 3.3 | 83        |
| 75 | 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        |
| 76 | 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        |
| 77 | Statistical Characteristics of Sprite Halo Events Using Coincident Photometric and Imaging Data.<br>Geophysical Research Letters, 2002, 29, 29-1.  | 1.5 | 42        |
| 78 | Multiple wavelength optical observations of a long-lived meteor trail. Geophysical Research Letters, 2001, 28, 2779-2782.  | 1.5 | 13        |
| 79 | Large amplitude perturbations in mesospheric OH Meinel and 87-Km Na lidar temperatures around the autumnal equinox. Geophysical Research Letters, 2001, 28, 1899-1902.   | 1.5 | 42        |
| 80 | Mesospheric planetary waves at northern hemisphere fall equinox. Geophysical Research Letters, 2001, 28, 1903-1906.  | 1.5 | 29        |
| 81 | 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.  | 1.2 | 36        |
| 82 | An unusual airglow wave event observed at Cachoeira Paulista $23 \hat{A}^\circ$ S. Advances in Space Research, 2001, 27, 1749-1754.  | 1.2 | 30        |
| 83 | Observing gravity wave activity in the mesopause region by means of airglow tomography. Advances in Space Research, 2000, 26, 903-906.   | 1.2 | 8         |
| 84 | Terdiurnal oscillations in OH Meinel rotational temperatures for fall conditions at northern mid-latitude sites. Geophysical Research Letters, 2000, 27, 1799-1802.  | 1.5 | 44        |
| 85 | 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. | 0.9 | 39        |
| 86 | Comparison of 1998 and 1999 Leonid Light Curve Morphology and Meteoroid Structure. Earth, Moon and Planets, 1998, 82/83, 351-367.  | 0.3 | 21        |
| 87 | Preliminary Data on Variations of OH Airglow during the Leonid 1999 Meteor Storm. Earth, Moon and Planets, 1998, 82/83, 525-534.   | 0.3 | 1         |
| 88 | 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.  | 0.3 | 8         |
| 89 | Possible evidence of gravity wave coupling into the mid-latitude F region ionosphere during the SEEK Campaign. Geophysical Research Letters, 1998, 25, 1801-1804.  | 1.5 | 62        |
| 90 | 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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| 91  | Long base-line measurements of short-period mesospheric gravity waves during the SEEK Campaign. Geophysical Research Letters, 1998, 25, 1797-1800.  | 1.5 | 21        |
| 92  | Observational evidence of wave ducting and evanescence in the mesosphere. Journal of Geophysical Research, 1997, 102, 26301-26313.  | 3.3 | 115       |
| 93  | High resolution OI (630 nm) image measurements of F-region depletion drifts during the GuarÃ; Campaign. Geophysical Research Letters, 1997, 24, 1699-1702.  | 1.5 | 60        |
| 94  | Two-dimensional spectral analysis of mesospheric airglow image data. Applied Optics, 1997, 36, 7374.  | 2.1 | 185       |
| 95  | Image measurements of short-period gravity waves at equatorial latitudes. Journal of Geophysical Research, 1997, 102, 26283-26299.  | 3.3 | 138       |
| 96  | 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.      | 1.5 | 37        |
| 97  | 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.   | 1.5 | 43        |
| 98  | 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. | 1.5 | 160       |
| 99  | Height measurements of OI(557.7 nm) gravity wave structure over the Hawaiian Islands during ALOHA-93. Geophysical Research Letters, 1995, 22, 2881-2884.  | 1.5 | 9         |
| 100 | An investigation of intrinsic gravity wave signatures using coordinated lidar and nightglow image measurements. Geophysical Research Letters, 1995, 22, 2853-2856.  | 1.5 | 53        |
| 101 | Spectrometric and imaging measurements of a spectacular gravity wave event observed during the ALOHA-93 Campaign. Geophysical Research Letters, 1995, 22, 2849-2852.  | 1.5 | 115       |
| 102 | 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        |
| 103 | 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       |
| 104 | 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.  | 0.9 | 176       |
| 105 | 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        |
| 106 | An Investigation of Thunderstorms as a Source of Short Period Mesospheric Gravity Waves. Geophysical Monograph Series, 0, , 177-184.  | 0.1 | 11        |
| 107 | Recent progress in mesospheric gravity wave studies using nigthglow imaging system. Revista<br>Brasileira De Geofisica, 0, 25, 49-58.   | 0.2 | 12        |