Maura E Hagan

List of Publications by Year
in descending order

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120	8,566	34016	45213
papers	citations	52 h-index	90 g-index

123	123	123	1865
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Migrating and nonmigrating diurnal tides in the middle and upper atmosphere excited by tropospheric latent heat release. Journal of Geophysical Research, 2002, 107, ACL 6-1.	3.3	645
2	Control of equatorial ionospheric morphology by atmospheric tides. Geophysical Research Letters, 2006, 33, .	1.5	551
3	Migrating and nonmigrating semidiurnal tides in the upper atmosphere excited by tropospheric latent heat release. Journal of Geophysical Research, 2003, 108, .	3.3	395
4	GSWM-98: Results for migrating solar tides. Journal of Geophysical Research, 1999, 104, 6813-6827.	3.3	307
5	On modeling migrating solar tides. Geophysical Research Letters, 1995, 22, 893-896.	1.5	287
6	Long-term variability in the solar diurnal tide observed by HRDI and simulated by the GSWM. Geophysical Research Letters, 1995, 22, 2641-2644.	1.5	205
7	Connections between deep tropical clouds and the Earth's ionosphere. Geophysical Research Letters, 2007, 34, .	1.5	198
8	Monthly tidal temperatures 20â€“120 km from TIMED/SABER. Journal of Geophysical Research, 2006, 111, .	3.3	186
9	Diurnal nonmigrating tides from TIMED Doppler Interferometer wind data: Monthly climatologies and seasonal variations. Journal of Geophysical Research, 2006, 111, .	3.3	169
10	Troposphere-thermosphere tidal coupling as measured by the SABER instrument on TIMED during Julyâ€“September 2002. Journal of Geophysical Research, 2006, 111, .	3.3	159
11	Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures. Geophysical Research Letters, 2007, 34, .	1.5	158
12	Quasi 16-day oscillation in the mesosphere and lower thermosphere. Journal of Geophysical Research, 1995, 100, 9149.	3.3	153
13	Comparative effects of migrating solar sources on tidal signatures in the middle and upper atmosphere. Journal of Geophysical Research, 1996, 101, 21213-21222.	3.3	152
14	Thermosphere extension of the Whole Atmosphere Community Climate Model. Journal of Geophysical Research, 2010, 115, .	3.3	144
15	Modeling diurnal tidal variability with the National Center for Atmospheric Research thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. Journal of Geophysical Research, 2001, 106, 24869-24882.	3.3	142
16	Numerical investigation of the propagation of the quasiâ€twoâ€day wave into the lower thermosphere. Journal of Geophysical Research, 1993, 98, 23193-23205.	3.3	139
17	Migrating thermospheric tides. Journal of Geophysical Research, 2001, 106, 12739-12752.	3.3	136
18	Diurnal propagating tide in the presence of mean winds and dissipation : a numerical investigation. Planetary and Space Science, 1988, 36, 579-590.	0.9	125

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19	Tropospheric tidal effects on the middle and upper atmosphere. Journal of Geophysical Research, 2009, 114, .	3.3	114
20	Modeling of multiple effects of atmospheric tides on the ionosphere: An examination of possible coupling mechanisms responsible for the longitudinal structure of the equatorial ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	108
21	Effect of atmospheric tides on the morphology of the quiet time, postsunset equatorial ionospheric anomaly. Journal of Geophysical Research, 2006, 111, .	3.3	102
22	Tidal perturbations and variability in the mesopause region over Fort Collins, CO (41N, 105W): Continuous multi-day temperature and wind lidar observations. Geophysical Research Letters, 2004, 31, .	1.5	100
23	Seasonal variations of the semi-diurnal and diurnal tides in the MLT: multi-year MF radar observations from 2 to 70Â°N, and the GSWM tidal model. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 809-828.	0.6	99
24	Middle atmosphere effects of the quasi-two-day wave determined from a General Circulation Model. Earth, Planets and Space, 1999, 51, 629-647.	0.9	98
25	Mean winds and tides in the Arctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2002, 107, SIA 2-1.	3.3	93
26	Nonmigrating tides in the thermosphere of Mars. Journal of Geophysical Research, 2002, 107, 23-1-23-12.	3.3	88
27	Local heating/cooling of the mesosphere due to gravity wave and tidal coupling. Geophysical Research Letters, 1998, 25, 2941-2944.	1.5	85
28	Sources of nonmigrating tides in the tropical middle atmosphere. Journal of Geophysical Research, 2002, 107, ACL 6-1-ACL 6-14.	3.3	85
29	Diurnal Kelvin wave in the atmosphere of Mars: Towards an understanding of â€™stationaryâ€™ density structures observed by the MGS accelerometer. Geophysical Research Letters, 2000, 27, 3563-3566.	1.5	84
30	Experiments with a lunar atmospheric tidal model. Journal of Geophysical Research, 1997, 102, 13465-13471.	3.3	79
31	Global study of northern hemisphere quasi-2-day wave events in recent summers near 90 km altitude. Journal of Atmospheric and Solar-Terrestrial Physics, 1996, 58, 1401-1411.	0.9	78
32	Local mean state changes due to gravity wave breaking modulated by the diurnal tide. Journal of Geophysical Research, 2000, 105, 12381-12396.	3.3	77
33	Longitudinal variation of tides in the MLT region: 1. Tides driven by tropospheric net radiative heating. Journal of Geophysical Research, 2010, 115, .	3.3	77
34	Variability of diurnal tides and planetary waves during November 1978â€“May 1979. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 517-528.	0.6	74
35	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 1. Migrating tide. Journal of Geophysical Research, 2008, 113, .	3.3	74
36	Longitudinal variation of tides in the MLT region: 2. Relative effects of solar radiative and latent heating. Journal of Geophysical Research, 2010, 115, .	3.3	74

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37	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. Annales Geophysicae, 1997, 15, 1165-1175.	0.6	73
38	A climatology of tides in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2006, 111, .	3.3	72
39	Observed coupling of the mesosphere inversion layer to the thermal tidal structure. Geophysical Research Letters, 1998, 25, 1479-1482.	1.5	68
40	Global-scale wave model estimates of nonmigrating tidal effects. Journal of Geophysical Research, 1997, 102, 16439-16452.	3.3	64
41	Impacts of vertically propagating tides on the mean state of the ionosphereâ€thermosphere system. Journal of Geophysical Research: Space Physics, 2014, 119, 2197-2213.	0.8	63
42	Global-scale tidal structure in the mesosphere and lower thermosphere during the PSMOS campaign of Juneâ€“August 1999 and comparisons with the global-scale wave model. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1011-1035.	0.6	62
43	Nonâ€migrating tides in the ionosphereâ€thermosphere: In situ versus tropospheric sources. Journal of Geophysical Research: Space Physics, 2013, 118, 2438-2451.	0.8	61
44	Thermospheric extensions of the classical expansion functions for semidiurnal tides. Journal of Geophysical Research, 1982, 87, 5253-5259.	3.3	60
45	Quiet time upper thermospheric winds over Millstone Hill between 1984 and 1990. Journal of Geophysical Research, 1993, 98, 3731-3739.	3.3	60
46	Diurnal tidal variability in the upper mesosphere and lower thermosphere. Annales Geophysicae, 1997, 15, 1176-1186.	0.6	57
47	A climatology of nonmigrating semidiurnal tides from TIMED Doppler Interferometer (TIDI) wind data. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2203-2218.	0.6	57
48	Seasonal variations of the semi-diurnal and diurnal tides in the MLT: multi-year MF radar observations from 2â€“70Â° N, modelled tides (GSWM, CMAM). Annales Geophysicae, 2002, 20, 661-677.	0.6	56
49	QBO effects on the diurnal tide in the upper atmosphere. Earth, Planets and Space, 1999, 51, 571-578.	0.9	55
50	Relative intensities of middle atmosphere waves. Journal of Geophysical Research, 2009, 114, .	3.3	55
51	Diurnal tides from the troposphere to the lower mesosphere as deduced from TIMED/SABER satellite data and six global reanalysis data sets. Journal of Geophysical Research, 2012, 117, .	3.3	55
52	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 2. Nonmigrating tide. Journal of Geophysical Research, 2008, 113, .	3.3	53
53	Comparison of CHAMP and TIMEâ€GCM nonmigrating tidal signals in the thermospheric zonal wind. Journal of Geophysical Research, 2010, 115, .	3.3	53
54	Tidalâ€induced net transport effects on the oxygen distribution in the thermosphere. Geophysical Research Letters, 2014, 41, 5272-5279.	1.5	53

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55	Comparative study of shortâ€term diurnal tidal variability. Journal of Geophysical Research, 2007, 112, .	3.3	49
56	Causes of the longitudinal differences in the equatorial vertical E Ã— B drift during the 2013 SSW period as simulated by the TIMEâ€GCM. Journal of Geophysical Research: Space Physics, 2015, 120, 5117-5136.	0.8	49
57	Combined optical and radar wind measurements in the F region over Millstone Hill. Journal of Geophysical Research, 1991, 96, 21255-21262.	3.3	48
58	The vertical and horizontal distribution of CO2densities in the upper mesosphere and lower thermosphere as measured by CRISTA. Journal of Geophysical Research, 2002, 107, CRI 10-1-CRI 10-19.	3.3	48
59	Tides in the mesopause region over Fort Collins, Colorado (41Â°N, 105Â°W) based on lidar temperature observations covering full diurnal cycles. Journal of Geophysical Research, 2002, 107, ACL 4-1.	3.3	48
60	Global distributions of diurnal and semidiurnal tides: observations from HRDI-UARS of the MLT region and comparisons with GSWM-02 (migrating, nonmigrating components). Annales Geophysicae, 2004, 22, 1529-1548.	0.6	47
61	The comparative importance of DE3, SE2, and SPW4 on the generation of wavenumberâ€4 longitude structures in the lowâ€latitude ionosphere during September equinox. Geophysical Research Letters, 2012, 39, .	1.5	47
62	Structure of the migrating diurnal tide in the Whole Atmosphere Community Climate Model (WACCM). Advances in Space Research, 2008, 41, 1398-1407.	1.2	46
63	Global ionospheric and thermospheric response to the 5 April 2010 geomagnetic storm: An integrated dataâ€model investigation. Journal of Geophysical Research: Space Physics, 2014, 119, 10,358.	0.8	46
64	Solar activity variations in midlatitude thermospheric meridional winds. Journal of Geophysical Research, 1994, 99, 17601.	3.3	45
65	Tidal signatures and aliasing in temperature data from slowly precessing satellites. Journal of Geophysical Research, 2003, 108, .	3.3	43
66	Dayâ€toâ€day migrating and nonmigrating tidal variability due to the sixâ€day planetary wave. Journal of Geophysical Research, 2012, 117, .	3.3	43
67	Detection of migrating diurnal tide in the tropical upper troposphere and lower stratosphere using the Challenging Minisatellite Payload radio occultation data. Journal of Geophysical Research, 2008, 113, .	3.3	42
68	An intercomparison between the GSWM, UARS, and ground based radar observations: a case-study in January 1993. Annales Geophysicae, 1997, 15, 1123-1141.	0.6	41
69	Observations of a nonmigrating component of the semidiurnal tide over Antarctica. Journal of Geophysical Research, 2003, 108, .	3.3	40
70	Diurnal nonmigrating tides in the tropical lower thermosphere. Earth, Planets and Space, 2003, 55, 419-426.	0.9	39
71	Variability in the upward propagating semidiurnal tide due to effects of QBO in the lower atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 1992, 54, 1465-1474.	0.9	37
72	Solar cycle and seasonal variations in F region electrodynamics at Millstone Hill. Journal of Geophysical Research, 1993, 98, 15677-15683.	3.3	37

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73	Oscillation of the Ionosphere at Planetaryâ€Wave Periods. Journal of Geophysical Research: Space Physics, 2018, 123, 7634-7649.	0.8	37
74	Seasonal variation of diurnal perturbations in mesopause region temperature, zonal, and meridional winds above Fort Collins, Colorado (40.6Â°N, 105Â°W). Journal of Geophysical Research, 2006, 111, .	3.3	35
75	Modeling the diurnal tide for the Cryogenic Infrared Spectrometers and Telescopes for the Atmosphere (CRISTA) 1 time period. Journal of Geophysical Research, 2000, 105, 24917-24929.	3.3	34
76	Modulation of gravity waves by tides as seen in CRISTA temperatures. Advances in Space Research, 2001, 27, 1773-1778.	1.2	33
77	Simulation of tides with a spectral mesosphere/lower thermosphere model. Geophysical Research Letters, 1996, 23, 2173-2176.	1.5	32
78	Modeling the diurnal tide with dissipation derived from UARS/HRDI measurements. Annales Geophysicae, 1997, 15, 1198-1204.	0.6	32
79	Simulations of diurnal tides due to tropospheric heating from the NCEP/NCAR Reanalysis Project. Geophysical Research Letters, 2001, 28, 3851-3854.	1.5	32
80	Zonally Symmetric Oscillations of the Thermosphere at Planetary Wave Periods. Journal of Geophysical Research: Space Physics, 2018, 123, 4110-4128.	0.8	31
81	TIMEâ€GCM study of the ionospheric equatorial vertical drift changes during the 2006 stratospheric sudden warming. Journal of Geophysical Research: Space Physics, 2014, 119, 1287-1305.	0.8	30
82	Tides in the joint presence of friction and rotation: An f plane approximation. Journal of Geophysical Research, 1979, 84, 803-810.	3.3	29
83	Non-migrating diurnal tides as measured by the TIMED Doppler interferometer: Preliminary results. Advances in Space Research, 2005, 35, 1911-1917.	1.2	28
84	Variations of the nighttime thermospheric mass density at low and middle latitudes. Journal of Geophysical Research, 2010, 115, .	3.3	28
85	Solar cycle variability of exospheric temperature at Millstone Hill between 1970 and 1980. Journal of Geophysical Research, 1985, 90, 12265-12270.	3.3	27
86	Intraannual variability of tides in the thermosphere from model simulations and in situ satellite observations. Journal of Geophysical Research: Space Physics, 2015, 120, 751-765.	0.8	25
87	Observations of tidal temperature and wind perturbations in the mesopause region above Urbana, IL (40Â°N, 88Â°W). Geophysical Research Letters, 1997, 24, 1207-1210.	1.5	24
88	TIME-GCM results for the quasi-two-day wave. Geophysical Research Letters, 1998, 25, 3783-3786.	1.5	24
89	Improved shortâ€term variability in the thermosphereâ€ionosphereâ€mesosphereâ€electrodynamics general circulation model. Journal of Geophysical Research: Space Physics, 2014, 119, 6623-6630.	0.8	23
90	Upper thermospheric responses to forcing from above and below during 1-10 April 2010: Results from an ensemble of numerical simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 3160-3174.	0.8	21

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91	On the Specification of Upward-Propagating Tides for ICON Science Investigations. Space Science Reviews, 2017, 212, 697-713.	3.7	21
92	Wave coupling from the lower to the middle thermosphere: Effects of mean winds and dissipation. Journal of Geophysical Research: Space Physics, 2017, 122, 7781-7797.	0.8	21
93	Effects of geomagnetic activity in the winter thermosphere: 2. Magnetically disturbed conditions. Journal of Geophysical Research, 1988, 93, 9937-9944.	3.3	20
94	Comparison of diurnal tide in models and ground-based observations during the 2005 equinox CAWSES tidal campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 78-79, 19-30.	0.6	20
95	Seasonal-latitudinal variation of the eastward-propagating diurnal tide with zonal wavenumber 3 in the MLT: Influences of heating and background wind distribution. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 78-79, 37-43.	0.6	18
96	A new algorithm for improved ionospheric electron density modeling. Geophysical Research Letters, 1995, 22, 1385-1388.	1.5	17
97	Solar cycle variability in mean thermospheric composition and temperature induced by atmospheric tides. Journal of Geophysical Research: Space Physics, 2016, 121, 5837-5855.	0.8	17
98	Exploring Waveâ€Wave Interactions in a General Circulation Model. Journal of Geophysical Research: Space Physics, 2018, 123, 827-847.	0.8	17
99	Modeling atmospheric tidal propagation across the stratopause. Geophysical Monograph Series, 2000, , 177-190.	0.1	15
100	Evidence of Tropospheric 90ÂDay Oscillations in the Thermosphere. Geophysical Research Letters, 2017, 44, 10,125.	1.5	15
101	On the coupling between the lower and the upper thermosphere during the First Lower Thermosphere Coupling Study. Journal of Geophysical Research, 1993, 98, 1545-1558.	3.3	14
102	Solar energy deposition rates in the mesosphere derived from airglow measurements: Implications for the ozone model deficit problem. Journal of Geophysical Research, 2000, 105, 17527-17538.	3.3	13
103	Kelvin wave propagation in the upper atmospheres of Mars and Earth. Advances in Space Research, 2001, 27, 1791-1800.	1.2	12
104	Seasonal cycle of nonmigrating diurnal tides in the MLT region due to tropospheric heating rates from the NCEP/NCAR Reanalysis Project. Advances in Space Research, 2007, 39, 1347-1350.	1.2	12
105	Simulation of a gravity wave over the middle and upper atmosphere radar. Journal of Geophysical Research, 1991, 96, 9793-9800.	3.3	11
106	Effects of geomagnetic activity in the winter thermosphere: 1. Magnetically undisturbed conditions. Journal of Geophysical Research, 1988, 93, 9927-9935.	3.3	10
107	Combined incoherent scatter radar and Fabryâ€Perot interferometer measurements of frictional heating effects over Millstone Hill during March 7â€“10, 1989. Journal of Geophysical Research, 1991, 96, 289-296.	3.3	10
108	Tidal dynamics and composition variations in the thermosphere. Journal of Geophysical Research, 1980, 85, 3401-3406.	3.3	8

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109	Scientific challenges in thermosphere-ionosphere forecasting â€“ conclusions from the October 2014 NASA JPL community workshop. Journal of Space Weather and Space Climate, 2016, 6, E01.	1.1	8
110	Observations of upper atmospheric weather during solar minimum winter. Journal of Geophysical Research, 1992, 97, 4163-4176.	3.3	6
111	Dynamics of the middle atmosphere during CRISTA-2 as simulated by the National Center for Atmospheric Research thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. Journal of Geophysical Research, 2002, 107, CRI 9-1-CRI 9-10.	3.3	6
112	Simultaneous mesosphere-lower thermosphere and thermosphericFregion observations using middle and upper atmosphere radar. Journal of Geophysical Research, 2006, 111, .	3.3	6
113	Upper atmosphere tidal variability due to latent heat release in the tropical troposphere. Advances in Space Research, 1999, 24, 1515-1521.	1.2	5
114	Seminal Evidence of a 2.5â€Sol Ultraâ€Fast Kelvin Wave in Mars' Middle and Upper Atmosphere. Geophysical Research Letters, 2018, 45, 6324-6333.	1.5	5
115	A numerical investigation of thermosphere-ionosphere interaction over Millstone Hill. Planetary and Space Science, 1990, 38, 1541-1549.	0.9	3
116	Upper thermospheric variability over Millstone Hill during the LTCS-2 and LTCS-6 Campaigns. Journal of Geophysical Research, 1995, 100, 23769.	3.3	3
117	A global view of tidal temperature perturbations above the mesopause: Preliminary model/observation intercomparison. Advances in Space Research, 2003, 32, 857-862.	1.2	1
118	Correction to â€œTidal signatures and aliasing in temperature data from slowly precessing satellitesâ€•by J. Oberheide, M. E. Hagan, and R. G. Roble. Journal of Geophysical Research, 2003, 108, .	3.3	1
119	Thermospheric connections. Reviews of Geophysics, 1995, 33, 729.	9.0	0
120	Correction to â€œObserved coupling of the mesosphere inversion layer to the thermal tidal structureâ€• Geophysical Research Letters, 1998, 25, 2127-2127.	1.5	0