

Maura E Hagan

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119
papers

7,372
citations

47
h-index

83
g-index

123
ext. papers

7,784
ext. citations

3.5
avg, IF

5.69
L-index

#	Paper	IF	Citations
119	Migrating and nonmigrating diurnal tides in the middle and upper atmosphere excited by tropospheric latent heat release. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 6-1		550
118	Control of equatorial ionospheric morphology by atmospheric tides. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	460
117	Migrating and nonmigrating semidiurnal tides in the upper atmosphere excited by tropospheric latent heat release. <i>Journal of Geophysical Research</i> , 2003 , 108,		354
116	GSWM-98: Results for migrating solar tides. <i>Journal of Geophysical Research</i> , 1999 , 104, 6813-6827		272
115	On modeling migrating solar tides. <i>Geophysical Research Letters</i> , 1995 , 22, 893-896	4.9	244
114	Connections between deep tropical clouds and the Earth's ionosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	177
113	Monthly tidal temperatures 20-120 km from TIMED/SABER. <i>Journal of Geophysical Research</i> , 2006 , 111,		171
112	Long-term variability in the solar diurnal tide observed by HRDI and simulated by the GSWM. <i>Geophysical Research Letters</i> , 1995 , 22, 2641-2644	4.9	171
111	Diurnal nonmigrating tides from TIMED Doppler Interferometer wind data: Monthly climatologies and seasonal variations. <i>Journal of Geophysical Research</i> , 2006 , 111,		157
110	Troposphere-thermosphere tidal coupling as measured by the SABER instrument on TIMED during July-September 2002. <i>Journal of Geophysical Research</i> , 2006 , 111,		141
109	Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	140
108	Comparative effects of migrating solar sources on tidal signatures in the middle and upper atmosphere. <i>Journal of Geophysical Research</i> , 1996 , 101, 21213-21222		135
107	Modeling diurnal tidal variability with the National Center for Atmospheric Research thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. <i>Journal of Geophysical Research</i> , 2001 , 106, 24869-24882		127
106	Quasi 16-day oscillation in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 1995 , 100, 9149		122
105	Migrating thermospheric tides. <i>Journal of Geophysical Research</i> , 2001 , 106, 12739-12752		117
104	Numerical investigation of the propagation of the quasi-two-day wave into the lower thermosphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 23193		115
103	Diurnal propagating tide in the presence of mean winds and dissipation : a numerical investigation. <i>Planetary and Space Science</i> , 1988 , 36, 579-590	2	114

102	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		113
101	Tropospheric tidal effects on the middle and upper atmosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		103
100	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. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		95
99	Effect of atmospheric tides on the morphology of the quiet time, postsunset equatorial ionospheric anomaly. <i>Journal of Geophysical Research</i> , 2006 , 111,		91
98	Tidal perturbations and variability in the mesopause region over Fort Collins, CO (41N, 105W): Continuous multi-day temperature and wind lidar observations. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	90
97	Middle atmosphere effects of the quasi-two-day wave determined from a General Circulation Model. <i>Earth, Planets and Space</i> , 1999 , 51, 629-647	2.9	83
96	Nonmigrating tides in the thermosphere of Mars. <i>Journal of Geophysical Research</i> , 2002 , 107, 23-1-23-12		80
95	Diurnal Kelvin wave in the atmosphere of Mars: Towards an understanding of stationary density structures observed by the MGS accelerometer. <i>Geophysical Research Letters</i> , 2000 , 27, 3563-3566	4.9	78
94	Mean winds and tides in the Arctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 2-1		77
93	Local heating/cooling of the mesosphere due to gravity wave and tidal coupling. <i>Geophysical Research Letters</i> , 1998 , 25, 2941-2944	4.9	76
92	Sources of nonmigrating tides in the tropical middle atmosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 6-1-ACL 6-14		75
91	Experiments with a lunar atmospheric tidal model. <i>Journal of Geophysical Research</i> , 1997 , 102, 13465-13471		73
90	Seasonal variations of the semi-diurnal and diurnal tides in the MLT: multi-year MF radar observations from 2 to 70°N, and the GSWM tidal model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999 , 61, 809-828	2	71
89	Variability of diurnal tides and planetary waves during November 1978–May 1979. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004 , 66, 517-528	2	67
88	Local mean state changes due to gravity wave breaking modulated by the diurnal tide. <i>Journal of Geophysical Research</i> , 2000 , 105, 12381-12396		66
87	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. <i>Annales Geophysicae</i> , 1997 , 15, 1165-1175	2	65
86	Global study of northern hemisphere quasi-2-day wave events in recent summers near 90 km altitude. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996 , 58, 1401-1411		63
85	Longitudinal variation of tides in the MLT region: 2. Relative effects of solar radiative and latent heating. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		59

84	Observed coupling of the mesosphere inversion layer to the thermal tidal structure. <i>Geophysical Research Letters</i> , 1998 , 25, 1479-1482	4.9	59
83	Global-scale wave model estimates of nonmigrating tidal effects. <i>Journal of Geophysical Research</i> , 1997 , 102, 16439-16452		58
82	Longitudinal variation of tides in the MLT region: 1. Tides driven by tropospheric net radiative heating. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		57
81	A climatology of tides in the Antarctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		57
80	Thermospheric extensions of the classical expansion functions for semidiurnal tides. <i>Journal of Geophysical Research</i> , 1982 , 87, 5253-5259		56
79	Quiet time upper thermospheric winds over Millstone Hill between 1984 and 1990. <i>Journal of Geophysical Research</i> , 1993 , 98, 3731-3739		52
78	Impacts of vertically propagating tides on the mean state of the ionosphere-thermosphere system. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2197-2213	2.6	51
77	Diurnal tidal variability in the upper mesosphere and lower thermosphere. <i>Annales Geophysicae</i> , 1997 , 15, 1176-1186	2	51
76	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 1. Migrating tide. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		51
75	A climatology of nonmigrating semidiurnal tides from TIMED Doppler Interferometer (TIDI) wind data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 2203-2218	2	50
74	Global-scale tidal structure in the mesosphere and lower thermosphere during the PSMOS campaign of June-August 1999 and comparisons with the global-scale wave model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1011-1035	2	50
73	Relative intensities of middle atmosphere waves. <i>Journal of Geophysical Research</i> , 2009 , 114,		48
72	Seasonal variations of the semi-diurnal and diurnal tides in the MLT: multi-year MF radar observations from 2000-2011, modelled tides (GSWM, CMAM). <i>Annales Geophysicae</i> , 2002 , 20, 661-677	2	47
71	Diurnal tides from the troposphere to the lower mesosphere as deduced from TIMED/SABER satellite data and six global reanalysis data sets. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		46
70	Non-migrating tides in the ionosphere-thermosphere: In situ versus tropospheric sources. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2438-2451	2.6	46
69	Comparative study of short-term diurnal tidal variability. <i>Journal of Geophysical Research</i> , 2007 , 112,		45
68	QBO effects on the diurnal tide in the upper atmosphere. <i>Earth, Planets and Space</i> , 1999 , 51, 571-578	2.9	45
67	Combined optical and radar wind measurements in the F region over Millstone Hill. <i>Journal of Geophysical Research</i> , 1991 , 96, 21255		45

66	Comparison of CHAMP and TIME-GCM nonmigrating tidal signals in the thermospheric zonal wind. <i>Journal of Geophysical Research</i> , 2010 , 115,		44
65	Tides in the mesopause region over Fort Collins, Colorado (41°N, 105°W) based on lidar temperature observations covering full diurnal cycles. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 4-1		41
64	Structure of the migrating diurnal tide in the Whole Atmosphere Community Climate Model (WACCM). <i>Advances in Space Research</i> , 2008 , 41, 1398-1407	2.4	40
63	The vertical and horizontal distribution of CO ₂ densities in the upper mesosphere and lower thermosphere as measured by CRISTA. <i>Journal of Geophysical Research</i> , 2002 , 107, CRI 10-1-CRI 10-19		40
62	Tidal-induced net transport effects on the oxygen distribution in the thermosphere. <i>Geophysical Research Letters</i> , 2014 , 41, 5272-5279	4.9	39
61	The comparative importance of DE3, SE2, and SPW4 on the generation of wavenumber-4 longitude structures in the low-latitude ionosphere during September equinox. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	39
60	An intercomparison between the GSWM, UARS, and ground based radar observations: a case-study in January 1993. <i>Annales Geophysicae</i> , 1997 , 15, 1123-1141	2	39
59	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 2. Nonmigrating tide. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		39
58	Global ionospheric and thermospheric response to the 5 April 2010 geomagnetic storm: An integrated data-model investigation. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 10,358	2.6	38
57	Day-to-day migrating and nonmigrating tidal variability due to the six-day planetary wave. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38
56	Observations of a nonmigrating component of the semidiurnal tide over Antarctica. <i>Journal of Geophysical Research</i> , 2003 , 108,		38
55	Detection of migrating diurnal tide in the tropical upper troposphere and lower stratosphere using the Challenging Minisatellite Payload radio occultation data. <i>Journal of Geophysical Research</i> , 2008 , 113,		37
54	Global distributions of diurnal and semidiurnal tides: observations from HRDI-UARS of the MLT region and comparisons with GSWM-02 (migrating, nonmigrating components). <i>Annales Geophysicae</i> , 2004 , 22, 1529-1548	2	37
53	Tidal signatures and aliasing in temperature data from slowly precessing satellites. <i>Journal of Geophysical Research</i> , 2003 , 108,		37
52	Solar activity variations in midlatitude thermospheric meridional winds. <i>Journal of Geophysical Research</i> , 1994 , 99, 17601		36
51	Causes of the longitudinal differences in the equatorial vertical E _z drift during the 2013 SSW period as simulated by the TIME-GCM. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5117-5136	2.6	35
50	Diurnal nonmigrating tides in the tropical lower thermosphere. <i>Earth, Planets and Space</i> , 2003 , 55, 419-426	2.6	35
49	Variability in the upward propagating semidiurnal tide due to effects of QBO in the lower atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1992 , 54, 1465-1474		35

48	Solar cycle and seasonal variations in F region electrodynamics at Millstone Hill. <i>Journal of Geophysical Research</i> , 1993 , 98, 15677		34
47	Simulations of diurnal tides due to tropospheric heating from the NCEP/NCAR Reanalysis Project. <i>Geophysical Research Letters</i> , 2001 , 28, 3851-3854	4.9	32
46	Seasonal variation of diurnal perturbations in mesopause region temperature, zonal, and meridional winds above Fort Collins, Colorado (40.6°N, 105°W). <i>Journal of Geophysical Research</i> , 2006 , 111,		30
45	Modulation of gravity waves by tides as seen in CRISTA temperatures. <i>Advances in Space Research</i> , 2001 , 27, 1773-1778	2.4	30
44	Modeling the diurnal tide for the Cryogenic Infrared Spectrometers and Telescopes for the Atmosphere (CRISTA) 1 time period. <i>Journal of Geophysical Research</i> , 2000 , 105, 24917-24929		30
43	Simulation of tides with a spectral mesosphere/lower thermosphere model. <i>Geophysical Research Letters</i> , 1996 , 23, 2173-2176	4.9	29
42	Oscillation of the Ionosphere at Planetary-Wave Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7634-7649	2.6	28
41	TIME-GCM study of the ionospheric equatorial vertical drift changes during the 2006 stratospheric sudden warming. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1287-1305	2.6	27
40	Tides in the joint presence of friction and rotation: An f plane approximation. <i>Journal of Geophysical Research</i> , 1979 , 84, 803		27
39	Non-migrating diurnal tides as measured by the TIMED Doppler interferometer: Preliminary results. <i>Advances in Space Research</i> , 2005 , 35, 1911-1917	2.4	26
38	Zonally Symmetric Oscillations of the Thermosphere at Planetary Wave Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4110-4128	2.6	25
37	Intraannual variability of tides in the thermosphere from model simulations and in situ satellite observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 751-765	2.6	25
36	Modeling the diurnal tide with dissipation derived from UARS/HRDI measurements. <i>Annales Geophysicae</i> , 1997 , 15, 1198-1204	2	25
35	Solar cycle variability of exospheric temperature at Millstone Hill between 1970 and 1980. <i>Journal of Geophysical Research</i> , 1985 , 90, 12265		25
34	Variations of the nighttime thermospheric mass density at low and middle latitudes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		23
33	TIME-GCM results for the quasi-two-day wave. <i>Geophysical Research Letters</i> , 1998 , 25, 3783-3786	4.9	23
32	Improved short-term variability in the thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6623-6630	2.6	21
31	Effects of geomagnetic activity in the winter thermosphere: 2. Magnetically disturbed conditions. <i>Journal of Geophysical Research</i> , 1988 , 93, 9937		20

30	Comparison of diurnal tide in models and ground-based observations during the 2005 equinox CAWSES tidal campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 78-79, 19-30	2	19
29	Observations of tidal temperature and wind perturbations in the mesopause region above Urbana, IL (40°N, 88°W). <i>Geophysical Research Letters</i> , 1997 , 24, 1207-1210	4.9	19
28	Upper thermospheric responses to forcing from above and below during 110 April 2010: Results from an ensemble of numerical simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3160-3174	2.6	18
27	Seasonal-latitudinal variation of the eastward-propagating diurnal tide with zonal wavenumber 3 in the MLT: Influences of heating and background wind distribution. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 78-79, 37-43	2	15
26	Modeling Atmospheric Tidal Propagation Across the Stratopause. <i>Geophysical Monograph Series</i> , 2000 , 177-190	1.1	15
25	A new algorithm for improved ionospheric electron density modeling. <i>Geophysical Research Letters</i> , 1995 , 22, 1385-1388	4.9	15
24	Solar cycle variability in mean thermospheric composition and temperature induced by atmospheric tides. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5837-5855	2.6	15
23	Exploring Wave-Wave Interactions in a General Circulation Model. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 827-847	2.6	14
22	Wave coupling from the lower to the middle thermosphere: Effects of mean winds and dissipation. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7781-7797	2.6	14
21	A Compendium of Theoretical Atmospheric Tidal Structures. Part II. Thermospheric Extensions of the Classical Expansion Functions for Semidiurnal Tides. 1982 ,		14
20	On the coupling between the lower and the upper thermosphere during the First Lower Thermosphere Coupling Study. <i>Journal of Geophysical Research</i> , 1993 , 98, 1545-1558		13
19	Solar energy deposition rates in the mesosphere derived from airglow measurements: Implications for the ozone model deficit problem. <i>Journal of Geophysical Research</i> , 2000 , 105, 17527-17538		12
18	Seasonal cycle of nonmigrating diurnal tides in the MLT region due to tropospheric heating rates from the NCEP/NCAR Reanalysis Project. <i>Advances in Space Research</i> , 2007 , 39, 1347-1350	2.4	11
17	Kelvin wave propagation in the upper atmospheres of Mars and Earth. <i>Advances in Space Research</i> , 2001 , 27, 1791-1800	2.4	11
16	Simulation of a gravity wave over the middle and upper atmosphere radar. <i>Journal of Geophysical Research</i> , 1991 , 96, 9793		10
15	Effects of geomagnetic activity in the winter thermosphere: 1. Magnetically undisturbed conditions. <i>Journal of Geophysical Research</i> , 1988 , 93, 9927		10
14	On the Specification of Upward-Propagating Tides for ICON Science Investigations. <i>Space Science Reviews</i> , 2017 , 212, 697-713	7.5	9
13	Evidence of Tropospheric 90-Day Oscillations in the Thermosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 10,125-10,133	4.9	9

12	Combined incoherent scatter radar and Fabry-Perot interferometer measurements of frictional heating effects over Millstone Hill during March 7-10, 1989. <i>Journal of Geophysical Research</i> , 1991 , 96, 289		9
11	Tidal dynamics and composition variations in the thermosphere. <i>Journal of Geophysical Research</i> , 1980 , 85, 3401		8
10	Scientific challenges in thermosphere-ionosphere forecasting [conclusions from the October 2014 NASA JPL community workshop]. <i>Journal of Space Weather and Space Climate</i> , 2016 , 6, E01	2.5	6
9	Simultaneous mesosphere-lower thermosphere and thermospheric F region observations using middle and upper atmosphere radar. <i>Journal of Geophysical Research</i> , 2006 , 111,		6
8	Dynamics of the middle atmosphere during CRISTA-2 as simulated by the National Center for Atmospheric Research thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. <i>Journal of Geophysical Research</i> , 2002 , 107, CRI 9-1-CRI 9-10		6
7	Observations of upper atmospheric weather during solar minimum winter. <i>Journal of Geophysical Research</i> , 1992 , 97, 4163		5
6	Seminal Evidence of a 2.5-Sol Ultra-Fast Kelvin Wave in Mars' Middle and Upper Atmosphere. <i>Geophysical Research Letters</i> , 2018 , 45, 6324-6333	4.9	4
5	Upper atmosphere tidal variability due to latent heat release in the tropical troposphere. <i>Advances in Space Research</i> , 1999 , 24, 1515-1521	2.4	4
4	Upper thermospheric variability over Millstone Hill during the LTCS-2 and LTCS-6 Campaigns. <i>Journal of Geophysical Research</i> , 1995 , 100, 23769		3
3	A numerical investigation of thermosphere-ionosphere interaction over Millstone Hill. <i>Planetary and Space Science</i> , 1990 , 38, 1541-1549	2	3
2	A global view of tidal temperature perturbations above the mesopause: Preliminary model/observation intercomparison. <i>Advances in Space Research</i> , 2003 , 32, 857-862	2.4	1
1	Thermospheric connections. <i>Reviews of Geophysics</i> , 1995 , 33, 729	23.1	