NRLMSISE-00 empirical model of the atmosphere: Statistical comparisons and scientific issues

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#	Paper	IF	Citations
2346	Validating NRLMSIS Using Atmospheric Densities Derived from Spacecraft Drag: Starshine Example. **2002**,		1
2345	Ionospheric remote sensing of the Denali Earthquake Rayleigh surface waves. **2003**, 30,		142
2344	Using the 630.0-nm nightglow emission as a surrogate for the ionospheric Pedersen conductivity. *Journal of Geophysical Research*, **2003**, 108,		25
2343	Initial observations with the Global Ultraviolet Imager (GUVI) in the NASA TIMED satellite mission. *Journal of Geophysical Research*, **2003**, 108,		257
2342	Retrieval of temperature and tangent altitude pointing from limb emission spectra recorded from space by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). *Journal of Geophysical Research*, **2003**, 108,		208
2341	Global morphology of infrasound propagation. *Journal of Geophysical Research*, **2003**, 108,		197
2340	Theoretical Modeling and Analysis of Thermospheric Winds in the Ionosphere. **2003**, 46, 1058-1067		2
2339	New calculation of the atmospheric neutrino flux in a three-dimensional scheme. **2004**, 70,		153
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2337	Comparison of the measured and modeled electron densities and temperatures in the ionosphere and plasmasphere during 14–16 May 1991. **2004**, 66, 89-104		8
2336	A dynamic global model of the plasmasphere. **2004**, 66, 1057-1073		26
2335	Modeling the behavior of ionosphere above Millstone Hill during the September 21–27, 1998 storm. **2004**, 66, 1093-1102		20
2334	Application of spectral intensities through a model potential approach to the prediction of photodissociation rate constants of CFC molecules in the ionosphere. **2004**, 100, 1003-1013		1
2333	Semianalytic theory of motion for close-Earth spherical satellites including drag and gravitational perturbations. **2004**, 52, 1233-1249		20
2332	The dependence of the nonmigrating diurnal tide in the mesosphere and lower thermosphere on stationary planetary waves. **2004**, 66, 733-754		22
2331	Use of IRI to model the effect of ionosphere emission on earth remote sensing at L-band. **2004**, 34, 2059-2066		5
2330	Modeling investigation of ionospheric storm effects over Millstone Hill during August 4–5, 1992. **2004**, 56, 903-908		5

2329	Photodissociation Rate Constants for VUV Processes of CF3Cl and CF2Cl2 in the Upper Atmosphere. A MQDO Study. **2004**, 108, 5699-5703	8
2328	Middle and upper thermospheric odd nitrogen: 2. Measurements of nitric oxide from Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) satellite observations of NO band emission. *Journal of Geophysical Research*, **2004**, 109,	13
2327	Middle and upper thermospheric odd nitrogen: 1. A new analysis of rocket data. *Journal of Geophysical Research*, **2004**, 109,	13
2326	On the increases in nitric oxide density at midlatitudes during ionospheric storms. *Journal of Geophysical Research*, **2004**, 109,	44
2325	Global change in the thermosphere: Compelling evidence of a secular decrease in density. *Journal of Geophysical Research*, **2004**, 109,	115
2324	Quiet-time seasonal behavior of the thermosphere seen in the far ultraviolet dayglow. *Journal of Geophysical Research*, **2004**, 109,	84
2323	Comparison of a thermospheric photochemical model with Student Nitric Oxide Explorer (SNOE) observations of nitric oxide. *Journal of Geophysical Research*, **2004**, 109,	37
2322	Variations in lower thermosphere dynamics at midlatitudes during intense geomagnetic storms. *Journal of Geophysical Research*, **2004**, 109,	12
2321	Ion temperature crests and troughs in the morning sector of the low-latitude and midlatitude topside ionosphere. *Journal of Geophysical Research*, **2004**, 109,	13
2320	Observed temperature structure of the atmosphere above Syowa Station, Antarctica (69°S, 39°E). *Journal of Geophysical Research*, **2004**, 109,	18
2319	Oxygen atom Rydberg emission in the equatorial ionosphere from radiative recombination. *Journal of Geophysical Research*, **2004**, 109,	20
2318	Solar activity variations of equivalent winds derived from global ionosonde data. *Journal of Geophysical Research*, **2004**, 109,	36
2317	Low-altitude distribution of radiation belt electrons. *Journal of Geophysical Research*, **2004**, 109,	12
2316	Advances in Satellite Drag Modeling. **2004**,	1
2315	JSBSim: An Open Source Flight Dynamics Model in C++. **2004**,	45
2314	A Theoretical Model for the Mid-Latitude Ionospheric E Layer. **2005**, 48, 266-267	2
2313	Atmospheric density calibration using satellite drag observations. **2005**, 36, 515-521	25
2312	Mechanism of the post-midnight winter night-time enhancements in NmF2 over Millstone Hill during 14–17 January 1986. **2005**, 67, 381-395	30

2311	Causes of the mid-latitude NmF2 winter anomaly at solar maximum. **2005**, 67, 862-877	42
2310	On the sensitivity of total electron content (TEC) to upper atmospheric/ionospheric parameters. **2005**, 67, 1040-1052	25
2309	The global ionospheric asymmetry in total electron content. **2005**, 67, 1377-1387	91
2308	Retrieval of stratospheric and mesospheric O3 from high resolution MIPAS spectra at 15 and 10 μm. **2005**, 36, 943-951	20
2307	Neutral composition effects on ionospheric storms at middle and low latitudes. *Journal of Geophysical Research*, **2005**, 110,	27
2306	Finite difference analyses of Schumann resonance and reconstruction of lightning distribution. **2005**, 40, n/a-n/a	27
2305	Observations of an extended mesospheric tertiary ozone peak. **2005**, 67, 1395-1402	10
2304	Estimation of long-term density variations in the upper atmosphere of the earth at minimums of solar activity from evolution of the orbital parameters of the earth's artificial satellites. **2005**, 39, 157-162	3
2303	Genesis: An artificial, low velocity meteor: Fall and recovery: September 8, 2004. **2005**, 40, 895-916	11
2302	Retrievals for the atmospheric chemistry experiment Fourier-transform spectrometer. **2005**, 44, 7218-31	318
2301	Living with a Variable Sun. **2005**, 58, 32-38	42
2300	Detection of a long-term decrease in thermospheric neutral density. **2005**, 32, n/a-n/a	66
2299	Satellite ballistic coefficients and the lower thermosphere. **2005**, 32,	3
2298	Thermospheric densities derived from spacecraft orbits: Accurate processing of two-line element sets. *Journal of Geophysical Research*, **2005**, 110,	63
2297	Solar EUV Experiment (SEE): Mission overview and first results. *Journal of Geophysical Research*, **2005**, 110,	400
2296	Generation of metastable helium and the 1083 nm emission in the upper thermosphere. *Journal of Geophysical Research*, **2005**, 110,	11
2295	Thermosphere density variations due to the 15–24 April 2002 solar events from CHAMP/STAR accelerometer measurements. *Journal of Geophysical Research*, **2005**, 110,	63
2294	Global thermospheric neutral density and wind response to the severe 2003 geomagnetic storms from CHAMP accelerometer data. *Journal of Geophysical Research*, **2005**, 110,	156

2293	First look at the 20 November 2003 superstorm with TIMED/GUVI: Comparisons with a thermospheric global circulation model. *Journal of Geophysical Research*, **2005**, 110,	101
2292	Nocturnal thermal structure of the mesosphere and lower thermosphere region at Maui, Hawaii (20.7°N), and Starfire Optical Range, New Mexico (35°N). *Journal of Geophysical Research*, **2005**, 110,	27
2291	Retrieval of stratospheric NOx from 5.3 and 6.2 μm nonlocal thermodynamic equilibrium emissions measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. *Journal of Geophysical Research*, **2005**, 110,	70
2290	Infrasound monitoring of volcanoes to probe high-altitude winds. *Journal of Geophysical Research*, **2005**, 110,	75
2289	Validation of ACE-FTS stratospheric ozone profiles against Odin/OSIRIS measurements. **2005**, 32,	13
2288	Observations of infrasound from surf in southern California. **2005**, 32,	34
2287	A first-principles model of spectrally resolved 5.3 μm nitric oxide emission from aurorally dosed nighttime high-altitude terrestrial thermosphere. **2005**, 32,	9
2286	Simulation study of penetration electric field effects on the low- to mid-latitude ionosphere. **2005**, 32,	76
2285	Probing high-altitude winds using infrasound. *Journal of Geophysical Research*, **2005**, 110,	61
2284	New Satellite Drag Modeling Capabilities. **2006**,	16
2283	Polar mesospheric clouds observed by an iron Boltzmann lidar at Rothera (67.5°S, 68.0°W), Antarctica from 2002 to 2005: Properties and implications. *Journal of Geophysical Research*, **2006**, 111,	44
2282	Simulation study of a positive ionospheric storm phase observed at Millstone Hill. **2006**, 33,	14
2281	Comparisons of electron energy deposition derived from observations of lower thermospheric nitric oxide and from X-ray bremsstrahlung measurements. *Journal of Geophysical Research*, **2006**, 111,	3
2280	Thermospheric densities derived from spacecraft orbits: Application to the Starshine satellites. *Journal of Geophysical Research*, **2006**, 111,	19
2279	Day-to-day variability of the E layer. *Journal of Geophysical Research*, **2006**, 111,	20
2278	Thermospheric density 2002–2004: TIMED/GUVI dayside limb observations and satellite drag. *Journal of Geophysical Research*, **2006**, 111,	41
2277	Derivation of neutral oxygen density under charge exchange in the midlatitude topside ionosphere. *Journal of Geophysical Research*, **2006**, 111,	7
2276	Optical Spectrograph and Infra-Red Imaging System (OSIRIS) observations of mesospheric OH A2Σ+-X2Π 0-0 and 1-1 band resonance emissions. *Journal of Geophysical Research*, **2006**, 111,	15

2275	Neutral air temperatures at 90 km and 70°N and 78°N. *Journal of Geophysical Research*, **2006**, 111,	29
2274	A study of the shape of topside electron density profile derived from incoherent scatter radar measurements over Arecibo and Millstone Hill. **2006**, 41, n/a-n/a	17
2273	An interhemispheric model of artificial ionospheric ducts. **2006**, 41, n/a-n/a	20
2272	Technique for determining midlatitude O+/H+ transition heights from topside ionograms. **2006**, 41, n/a-n/a	9
2271	Neutral temperatures in the lower thermosphere from N2 Lyman-Birge-Hopfield (LBH) band profiles. **2006**, 33,	16
2270	Three-dimensional waveform modeling of ionospheric signature induced by the 2004 Sumatra tsunami. **2006**, 33,	122
2269	Calculated and observed climate change in the thermosphere, and a prediction for solar cycle 24. **2006**, 33,	66
2268	Solar activity variations of the ionospheric peak electron density. *Journal of Geophysical Research*, **2006**, 111,	153
2267	Planetary wave and gravity wave influence on the occurrence of polar stratospheric clouds over Davis Station, Antarctica, seen in lidar and radiosonde observations. *Journal of Geophysical Research* , **2006**, 111,	12
2266	YES2 Optimal Trajectories in Presence of Eccentricity and Aerodynamic Drag. **2006**,	2
2265	Recent Studies on Schumann Resonance. **2006**, 126, 28-30	3
2264	Isolated lower mesospheric echoes seen by medium frequency radar at 70° N, 19° E. **2006**, 6, 5307-5314	7
2263	Neutral density response to the solar flares of October and November, 2003. **2006**, 33,	80
2262	A Theoretical Model of Gravity Wave Propagation Based on the Transfer Function. **2006**, 49, 856-865	1
2261	Modelling of space weather effects on satellite drag. **2006**, 37, 1229-1239	34
2260	A North-South asymmetry in thermospheric density. **2006**, 38, 2461-2464	3
2259	Trace constituent updates in the Marshall engineering thermosphere and global reference atmospheric model. **2006**, 38, 2429-2432	2
2258	Ground-based GPS imaging of ionospheric post-seismic signal. **2006**, 54, 528-540	98

2257	Atmospheric neutral temperature distribution at the mesopause altitude. **2006**, 68, 1684-1697	24
2256	Mechanism of the appearance of a large-scale vortex in the troposphere above a nonuniformly heated surface. **2006**, 411, 1284-1288	6
2255	Thermosphere density response to the 20–21 November 2003 solar and geomagnetic storm from CHAMP and GRACE accelerometer data. *Journal of Geophysical Research*, **2006**, 111,	134
2254	Altitude variations of middle-latitude topside ionospheric electron-density profiles. **2006**, 37, 951-957	8
2253	Application of thermospheric general circulation models for space weather operations. **2006**, 37, 401-408	8
2252	Empirical model of vertical structure of the middle atmosphere: Seasonal variations and long-term changes of temperature and number density. **2006**, 38, 2465-2469	1
2251	Statistics of sporadic iron layers and relation to atmospheric dynamics. **2006**, 68, 102-113	10
2250	Storm-Time Equatorial Density Enhancements Observed by CHAMP and GRACE. **2007**, 44, 1154-1159	15
2249	Short-Term fo F2 Forecast: Present Day State of Art. **2007**, 169-184	11
2248	Intercomparison of ground-based ozone and NO₂ measurements during the MANTRA 2004 campaign. **2007**, 7, 5489-5499	7
2247	Changes of Thermospheric Mass Density and Their Relations with Joule Heating and Ring Current Index During Nov. 2003 Superstorm□CHAMP Observations. **2007**, 50, 856-865	1
2246	O(1S), OH, and O2(b) airglow layer perturbations due to AGWs and their implied effects on the atmosphere. *Journal of Geophysical Research*, **2007**, 112,	43
2245	Stardust□An artificial, low-velocity □meteor□fall and recovery: 15 January 2006. **2007**, 42, 271-299	11
2244	Thermospheric Space Weather Modeling. **2007**,	6
2243	Differential Drag as a Means of Spacecraft Formation Control. **2007**,	12
2242	Atmospheric stability at 90 km, 78°N, 16°E. **2007**, 59, 157-164	4
2241	Solar cycle signature and secular long-term trend in OH airglow temperature observations at South Pole, Antarctica. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	19
2240	Atomic oxygen photoionization rates computed with high resolution cross sections and solar fluxes. **2007**, 34,	4

2239	Equatorial spread F modeling: Multiple bifurcated structures, secondary instabilities, large density bite-outs, and supersonic flows. **2007**, 34,	41
2238	Prompt thermospheric response to the 6 November 2001 magnetic storm. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	8
2237	An ion drag contribution to the lower thermospheric wind in the summer polar region. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	8
2236	Doppler ducting of short-period gravity waves by midlatitude tidal wind structure. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	24
2235	Comparison of nighttime nitric oxide 5.3 μm emissions in the thermosphere measured by MIPAS and SABER. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	16
2234	Measuring atmospheric density with X-ray occultation sounding. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	7
2233	Constraining and validating the Oct/Nov 2003 X-class EUV flare enhancements with observations of FUV dayglow and E-region electron densities. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	16
2232	Evidence for a solar cycle influence on the infrared energy budget and radiative cooling of the thermosphere. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	31
2231	Electrodynamics of magnetosphere-ionosphere coupling and feedback on magnetospheric field line resonances. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	18
2230	Climatology of the equatorial thermospheric mass density anomaly. *Journal of Geophysical Research* , **2007**, 112, n/a-n/a	73
2229	Thermospheric nitric oxide at higher latitudes: Model calculations with auroral energy input. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	7
2228	Ionospheric climatology and variability from long-term and multiple incoherent scatter radar observations: Climatology in eastern American sector. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	30
2227	Dependence of neutral temperatures in the lower thermosphere on geomagnetic activity. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	6
2226	Sensitivity of GPS occultation to the stratopause height. *Journal of Geophysical Research*, **2007**, 112,	7
2225	High-latitude remote sensing of mesospheric wind speeds and carbon monoxide. *Journal of Geophysical Research*, **2007**, 112,	10
2224	A joint seismic and acoustic study of the Washington State bolide: Observations and modeling. *Journal of Geophysical Research*, **2007**, 112,	35
2223	Measurements of thermospheric molecular oxygen from the Solar Ultraviolet Spectral Irradiance Monitor. *Journal of Geophysical Research*, **2007**, 112,	15
2222	Nocturnal temperature structure in the mesopause region over the Arecibo Observatory (18.35°N, 66.75°W): Seasonal variations. *Journal of Geophysical Research*, **2007**, 112,	30

2221	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. *Journal of Geophysical Research*, **2007**, 112,	209
2220	Use of generalized cross validation for identification of global lightning distribution by using Schumann resonances. **2007**, 42, n/a-n/a	10
2219	A theoretical model of the inner proton radiation belt. **2007**, 5, n/a-n/a	94
2218	Electric fields and zonal winds in the equatorial ionosphere inferred from CHAMP satellite magnetic measurements. **2007**, 34, n/a-n/a	11
2217	Yearly variations of global plasma densities in the topside ionosphere at middle and low latitudes. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	50
2216	Observations of middle ultraviolet emissions in the middle and lower thermosphere: NO, O2, O, and Mg+. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	5
2215	Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	64
2214	Molecular nitrogen Carroll-Yoshino v? = 0 emission in the thermospheric dayglow as seen by the Far Ultraviolet Spectroscopic Explorer. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	19
2213	Effects of solar variability on thermosphere density from CHAMP accelerometer data. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a	47
2212	Potassium lidar temperatures and densities in the mesopause region at Spitsbergen (78°N). *Journal of Geophysical Research*, **2007**, 112,	38
2211	Solar cycle variations of mid-latitude electron density and temperature: Satellite measurements and model calculations. **2007**, 39, 779-789	32
2210	Turbulent kinetic energy dissipation rates and eddy diffusivities in the tropical mesosphere using Jicamarca radar data. **2007**, 40, 744-750	8
2209	The portable atmospheric research interferometric spectrometer for the infrared, PARIS-IR. **2007**, 103, 362-370	27
2208	Interplanetary control of thermospheric densities during large magnetic storms. **2007**, 69, 279-287	42
2207	The ionospheric F2-region at low geomagnetic latitudes during the geomagnetic storms of 22–26 April 1990: Comparison of observed and modeled response. **2007**, 69, 835-859	9
2206	Longitudinal effect in the dependence of the critical frequency of the midlatitude E layer on solar activity. **2007**, 47, 366-370	
2205	Effect of zonal E × B plasma drift on electron density in the low-latitude ionospheric F region at a solar activity maximum near vernal equinox. **2007**, 47, 621-635	4
2204	A new method to calculate normal modes. **2007**, 168, 315-331	20

2203	Modeling the responses of the middle latitude ionosphere to solar flares. **2007**, 69, 1587-1598	34
2202	Ionospheric E-region response to solar-geomagnetic storms observed by TIMED/SABER and application to IRI storm-model development. **2007**, 39, 715-728	8
2201	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. **2008**, 250, 235-267	53
2200	The JB2006 empirical thermospheric density model. **2008**, 70, 774-793	87
2199	The zonal E B plasma drift effects on the low latitude ionosphere electron density at solar minimum near equinox. **2008**, 70, 1563-1578	5
2198	Ground-based solar absorption studies for the Carbon Cycle science by Fourier Transform Spectroscopy (CC-FTS) mission. **2008**, 109, 2219-2243	11
2197	Hemispheric distributions of HCl above and below the Venus clouds by ground-based 1.7 m spectroscopy. **2008**, 56, 1424-1434	33
2196	Use of two-line element data for thermosphere neutral density model calibration. **2008**, 41, 1115-1122	51
2195	Thermospheric neutral density response to solar forcing. **2008**, 42, 926-932	11
2194	Drag-free and attitude control for the GOCE satellite. **2008**, 44, 1766-1780	72
2193	Upper thermal boundary layer of planetary atmosphere: An attempt of developing a general model. **2008**, 194, 290-302	1
2192	Rotating solar coronal holes and periodic modulation of the upper atmosphere. **2008**, 35,	119
2191	Hemispheric asymmetries in the longitudinal structure of the low-latitude nighttime ionosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	20
2190	Storm Time Energy Budgets of the Global Thermosphere. **2008**, 235-246	13
2189	Geomagnetic dependence of ionospheric disturbances induced by tsunamigenic internal gravity waves. **2008**, 173, 753-765	89
2188	Anomalous variations in the structure of the ionospheric F 2 region at geomagnetic midlatitudes of the Southern and Northern hemispheres in going from summer to winter conditions at high solar activity. **2008**, 48, 75-88	14
2187	Anomalous variations in the ionospheric F 2-layer structure at geomagnetic midlatitudes of the Southern and Northern hemispheres at the transition from summer to winter conditions under low solar activity. **2008**, 48, 327-336	4
2186	Effects of the solar eclipse of March 29, 2006, in the ionosphere and atmosphere. **2008**, 48, 337-351	33

2185	Influence of the plasma zonal E □B drift on the electron concentration in the low-latitude ionospheric F region at the minimum of solar activity near the spring equinox. **2008**, 48, 479-490	3
2184	Dose calculations at high altitudes and in deep space with GEANT4 using BIC and JQMD models for nucleus□ucleus reactions. **2008**, 10, 105019	11
2183	A method for estimating the ring current structure and the electric potential distribution using energetic neutral atom data assimilation. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	14
2182	Solar flux variability of Mars' exosphere densities and temperatures. **2008**, 35,	51
2181	Tidal variability in the lower thermosphere: Comparison of Whole Atmosphere Model (WAM) simulations with observations from TIMED. **2008**, 35,	79
2180	Thermospheric global average density trends, 1967□2007, derived from orbits of 5000 near-Earth objects. **2008**, 35,	103
2179	Impact of terrestrial weather on the upper atmosphere. **2008**, 35,	55
2178	Photoelectron impact excitation of OI 8446 □emission observed from Arecibo Observatory. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	7
2177	Satellite and ground-based observations of auroral energy deposition and the effects on thermospheric composition during large geomagnetic storms: 1. Great geomagnetic storm of 20 November 2003. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	12
2176	The causes of mid-latitude F layer behavior. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	16
2175	Comparison of Global Ultraviolet Imager limb and disk observations of column O/N2 during a geomagnetic storm. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	11
2174	A new method for deducing the effective collision frequency profile in the D-region. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	12
2173	Optical observations of the growth and day-to-day variability of equatorial plasma bubbles. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	29
2172	Evidence for significantly greater N2 Lyman-Birge-Hopfield emission efficiencies in proton versus electron aurora based on analysis of coincident DMSP SSUSI and SSJ/5 data. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	15
2171	A statistical study of the observed and modeled global thermosphere response to magnetic activity at middle and low latitudes. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	16
2170	The midlatitude F2 layer during solar eclipses: Observations and modeling. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	33
2169	First UV satellite observations of mesospheric water vapor. *Journal of Geophysical Research*, **2008**, 113,	5
2168	A New Empirical Thermospheric Density Model JB2008 Using New Solar and Geomagnetic Indices. **2008**,	175

2167	Three-dimensional equatorial spread F modeling. **2008**, 35,	149
2166	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. **2008**, 35,	17
2165	Interannual and latitudinal variability of the thermosphere density annual harmonics. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	23
2164	An improved parameterization of thermal electron heating by photoelectrons, with application to an X17 flare. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	17
2163	Meridional winds derived from COSMIC radio occultation measurements. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	23
2162	Solar activity variations of nighttime ionospheric peak electron density. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	34
2161	A multi-instrument technique for localization of scintillation-causing regions in the equatorial ionosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	4
2160	Thermospheric density oscillations due to periodic solar wind high-speed streams. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	102
2159	Energetic electron precipitation during substorm injection events: High-latitude fluxes and an unexpected midlatitude signature. *Journal of Geophysical Research*, **2008**, 113,	33
2158	Global thermospheric density variations caused by high-speed solar wind streams during the declining phase of solar cycle 23. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a	71
2157	Turbopause determination, climatology, and climatic trends using medium frequency radars at 52°N and 70°N. *Journal of Geophysical Research*, **2008**, 113,	12
2156	Assessment of the quality of the Version 1.07 temperature-versus-pressure profiles of the middle atmosphere from TIMED/SABER. *Journal of Geophysical Research*, **2008**, 113,	304
2155	Satellite observations of high nighttime ozone at the equatorial mesopause. *Journal of Geophysical Research*, **2008**, 113,	43
2154	Errors in Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) kinetic temperature caused by non-local-thermodynamic-equilibrium model parameters. *Journal of Geophysical Research*, **2008**, 113,	79
2153	Medium- to large-scale density variability as observed by CHAMP. **2008**, 6, n/a-n/a	40
2152	Evaluation of infrasound signals from the shuttle Atlantis using a large seismic network. **2008**, 124, 1442-51	33
2151	Comparison between the KOMPSAT-1 drag derived density and the MSISE model density during strong solar and/or geomagnetic activities. **2008**, 60, 601-606	5
2150	Reentry Time Prediction Using Atmospheric Density Corrections. **2008**, 31, 282-289	17

2149	Suzaku Observations of the North Polar Spur: Evidence for Nitrogen Enhancement. **2008**, 60, S95-S106	37
2148	A feasibility study for measuring geomagnetic conversion of solar axions to x-rays in low Earth orbits. **2008**, 2008, 026	8
2147	Mesospheric N₂O enhancements as observed by MIPAS on Envisat during the polar winters in 2002–2004. **2008**, 8, 5787-5800	25
2146	Sensitivity of Orbit Predictions to Density Variability. **2009**, 46, 1214-1230	25
2145	Normalized Force Coefficients for Satellites with Elongated Shapes. **2009**, 46, 112-116	73
2144	TD-88Up: Upgraded neutral Earth's thermosphere total density TD-88 model. **2009**, 57-63	4
2143	Altitude and formation conditions of noctilucent clouds in the Earth atmosphere. **2009**, 373, 764-768	
2142	Kinetic temperature and carbon dioxide from broadband infrared limb emission measurements taken from the TIMED/SABER instrument. **2009**, 43, 15-27	44
2141	CHAMP and GRACE accelerometer calibration by GPS-based orbit determination. **2009**, 43, 1890-1896	37
2140	Investigating suitable orbits for the Swarm constellation mission – The frozen orbit. **2009**, 13, 49-58	4
2139	Geospace imaging using Thomson scattering. **2009**, 71, 132-142	1
2138	Infrasound from tropospheric sources: Impact on mesopause temperature?. **2009**, 71, 816-822	14
2137	Field-aligned plasma diffusive fluxes in the topside ionosphere from radio occultation measurements by CHAMP. **2009**, 71, 967-974	12
2136	News from the Lower Ionosphere: A Review of Recent Developments. **2009**, 30, 525-559	53
2135	The Ionization Gauge Investigation for the Streak Mission. **2009**, 145, 263-283	11
2134	An Overview of Ionosphere–Thermosphere Models Available for Space Weather Purposes. **2009**, 147, 271-313	21
2133	Formation of large-scale vortices in shear flows of the lower atmosphere of the earth in the region of tropical latitudes. **2009**, 47, 466-479	18
2132	Regular changes in the critical frequency of the F2 layer of the quiet midlatitude ionosphere. **2009**, 49, 374-380	16

2131	Seasonal features in the spread-F probability near midnight over Moscow. **2009**, 49, 630-636	3
2130	Seasonal temperature variations near the mesopause according to the hydroxyl emission measurements in Zvenigorod. **2009**, 49, 797-804	1
2129	Day-by-day modelling of the ionospheric F2-layer for year 2002. **2009**, 71, 848-856	21
2128	All-propulsion design of the drag-free and attitude control of the European satellite GOCE. **2009**, 64, 325-344	37
2127	An empirical relation to correct storm-time thermospheric mass density modeled by NRLMSISE-00 with CHAMP satellite air drag data. **2009**, 43, 819-828	21
2126	FORMOSAT-3/COSMIC observations of seasonal and longitudinal variations of equatorial ionization anomaly and its interhemispheric asymmetry during the solar minimum period. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	71
2125	Seasonal variation of thermospheric density and composition. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	148
2124	Fermi large area telescope observations of the cosmic-ray induced □ray emission of the Earth□ atmosphere. **2009**, 80,	48
2123	Monitoring the global-scale winter anomaly of total electron contents using GPS data. **2009**, 61, 1019-1024	16
2122	Observations of midlatitude ionospheric instabilities generating meter-scale waves at the magnetic equator. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	9
2121	Fast thermospheric wind jet at the Earth's dip equator. **2009**, 36,	32
2120	Surface-exosphere coupling due to thermal tides. **2009**, 36, n/a-n/a	93
2119	Wave-4 pattern of the equatorial mass density anomaly: A thermospheric signature of tropical deep convection. **2009**, 36,	79
2118	On the source of the polar wind in the polar topside ionosphere: First results from the EISCAT Svalbard radar. **2009**, 36,	12
2117	Latitudinal dependence of the ionospheric response to solar eclipses. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	51
2116	Spatial evolution of frictional heating and the predicted thermospheric wind effects in the vicinity of an auroral arc measured with the Sondrestrom incoherent-scatter radar and the Reimei satellite. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	5
2115	A long-term data set of globally averaged thermospheric total mass density. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	42
2114	Correlation between scintillation indices and gradient drift wave amplitudes in the northern polar ionosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	15

2113	Quantitative forecasting of near-term solar activity and upper atmospheric density. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	18
2112	Causal link of the wave-4 structures in plasma density and vertical plasma drift in the low-latitude ionosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	61
2111	Attitude Tracking Control of a Small Satellite in Low Earth Orbit. **2009**,	7
2110	Gravity wave propagation and dissipation from the stratosphere to the lower thermosphere. *Journal of Geophysical Research*, **2009**, 114,	55
2109	Relative intensities of middle atmosphere waves. *Journal of Geophysical Research*, **2009**, 114,	48
2108	Global temperature stationary planetary waves extending from 20 to 120 km observed by TIMED/SABER. *Journal of Geophysical Research*, **2009**, 114,	19
2107	Thermospheric density model blending techniques: Bridging the gap between satellites and sounding rockets. **2009**, 44, n/a-n/a	0
2106	Remote sensing of nighttime F region peak height and peak density using ultraviolet line ratios. **2009**, 44, n/a-n/a	6
2105	Acceleration mechanism of high-speed neutral wind observed in the polar lower thermosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	8
2104	Dependence of the high-latitude thermospheric densities on the interplanetary magnetic field. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	18
2103	Day-to-day variability of the equatorial ionization anomaly and scintillations at dusk observed by GUVI and modeling by SAMI3. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	42
2102	Solar activity dependence of the topside ionosphere at low latitudes. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a	30
2101	Thermospheric temperature and density variations. **2009**, 5, 310-319	1
2100	Record-low thermospheric density during the 2008 solar minimum. **2010**, 37, n/a-n/a	170
2099	Do vibrationally excited OH molecules affect middle and upper atmospheric chemistry?. **2010**, 10, 9953-9964	6
2098	First multi-year occultation observations of CO₂ in the MLT by ACE satellite: observations and analysis using the extended CMAM. **2010**, 10, 1133-1153	39
2097	Thermosphere extension of the Whole Atmosphere Community Climate Model. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	113
2096	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, n/a-n/a	95

2095	Direct measurements of the Poynting flux associated with convection electric fields in the magnetosphere. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	15
2094	The Temporal Morphology of Infrasound Propagation. **2010**, 167, 437-453	46
2093	Applying artificial neural networks to modeling the middle atmosphere. **2010**, 27, 883-890	1
2092	Hemispherical distribution of CO above the Venus clouds by ground-based 2.3 μm spectroscopy. **2010**, 207, 558-563	9
2091	Nitric oxide density enhancements due to solar flares. **2010**, 45, 28-38	4
2090	A statistical study of the mid-latitude NmF2 winter anomaly. **2010**, 45, 374-385	24
2089	Satellite Skin-Force Modelling for Atmospheric Drag Calculations. **2010**, 151, 149-157	
2088	Drag and energy accommodation coefficients during sunspot maximum. **2010**, 45, 638-650	62
2087	Parameterized Regional Ionospheric Model and a comparison of its results with experimental data and IRI representations. **2010**, 46, 1032-1038	15
2086	Electric fields in the equatorial ionosphere derived from CHAMP satellite magnetic field measurements. **2010**, 72, 319-326	27
2085	The equatorial and low-latitude ionosphere within the context of global modeling. **2010**, 72, 358-368	5
2084	The ineffectiveness of Joule heating in the stratosphere. **2010**, 72, 1110-1113	
2083	Comparison of the observed and modeled low- to mid-latitude thermosphere response to magnetic activity: Effects of solar cycle and disturbance time delay. **2010**, 45, 1093-1100	9
2082	Morphology of OI 8446 dayglow emission. **2010**, 46, 81-88	2
2081	Modeling of the aerodynamic moment acting upon a satellite. **2010**, 48, 362-370	5
2080	Seasonal and nighttime behaviors of emissions of hydroxyl and the atmospheric system of molecular oxygen of the midlatitude mesopause. **2010**, 50, 518-525	2
2079	Disturbances of the ionospheric conductivity owing to the generation of magnetic pulsations in the Pc1 frequency range by means of the heating of electrons by a ground-based high-power high-frequency transmitter. **2010**, 50, 588-596	1
2078	Effect of neutral particle density in the upper atmosphere on the generation of artificial magnetic pulsations in the Pc1 range. **2010**, 50, 661-666	1

2077	Possibilities of improving the TD88 atmospheric total density model. **2010**, 57-61	
2076	Effect of an Altitude-Dependent Background Atmosphere on Shuttle Plumes. **2010**, 47, 700-704	12
2075	Semiempirical Model for Satellite Energy-Accommodation Coefficients. **2010**, 47, 951-956	68
2074	Neutral Density and Crosswind Determination from Arbitrarily Oriented Multiaxis Accelerometers on Satellites. **2010**, 47, 580-589	121
2073	Towards Next Level Satellite Drag Modeling. **2010**,	13
2072	Comparison of Density Estimation for CHAMP and GRACE Satellites. **2010**,	3
2071	Inversion of Infrasound Signals for Passive Atmospheric Remote Sensing. **2010**, 701-731	43
2070	Self-consistent modeling of equatorial dawn density depletions with SAMI3. **2010**, 37, n/a-n/a	20
2069	Thermospheric density enhancements in the dayside cusp region during strong BY conditions. **2010**, 37, n/a-n/a	72
2068	IPY observations of ionospheric yearly variations from high- to middle-latitude incoherent scatter radars. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	9
2067	Observation of sprite streamer head's spectra at 10,000 fps. *Journal of Geophysical Research*, **2010**, 115,	13
2066	Thermospheric heating by high-speed streams in the solar wind. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	10
2065	Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	86
2064	Wind and temperature effects on thermosphere mass density response to the November 2004 geomagnetic storm. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	57
2063	Solar activity dependence of ion upflow in the polar ionosphere observed with the European Incoherent Scatter (EISCAT) Troms UHF radar. *Journal of Geophysical Research*, **2010**, 115,	22
2062	Solar proxies pertaining to empirical ionospheric total electron content models. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	38
2061	Modeling the presunrise plasma heating in the low- to midlatitude topside ionospheres. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	5
2060	Composite imaging of auroral forms and convective flows during a substorm cycle. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	16

2059	Coordinated study of coherent radar backscatter and optical airglow depletions in the central Pacific. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	17
2058	Anomalous occurrence features of the preliminary impulse of geomagnetic sudden commencement in the South Atlantic Anomaly region. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	10
2057	Principal modes of thermospheric density variability: Empirical orthogonal function analysis of CHAMP 2001–2008 data. *Journal of Geophysical Research*, **2010**, 115,	32
2056	Variance of transionospheric VLF wave power absorption. *Journal of Geophysical Research*, **2010**, 115,	23
2055	Generation of traveling atmospheric disturbances during pulsating geomagnetic storms. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	18
2054	Longitudinal and geomagnetic activity modulation of the equatorial thermosphere anomaly. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	31
2053	Flare location on the solar disk: Modeling the thermosphere and ionosphere response. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	59
2052	Microphysical parameters of mesospheric ice clouds derived from calibrated observations of polar mesosphere summer echoes at Bragg wavelengths of 2.8 m and 30 cm. *Journal of Geophysical Research*, **2010**, 115,	20
2051	NO2 air afterglow and O and NO densities from Odin-OSIRIS night and ACE-FTS sunset observations in the Antarctic MLT region. *Journal of Geophysical Research*, **2010**, 115,	15
2050	Temporal variations of atomic oxygen in the upper mesosphere from SABER. *Journal of Geophysical Research*, **2010**, 115,	115
2049	Momentum budget of the migrating diurnal tide in the mesosphere and lower thermosphere. *Journal of Geophysical Research*, **2010**, 115,	17
2048	Ion density calculator (IDC): A new efficient model of ionospheric ion densities. **2010**, 45, n/a-n/a	28
2047	Improved estimates for neutral air temperatures at 90 km and 78°N using satellite and meteor radar data. **2010**, 45, n/a-n/a	22
2046	Geomagnetic influence on aircraft radiation exposure during a solar energetic particle event in October 2003. **2010**, 8, n/a-n/a	52
2045	Atmospheric Remote Sensing on the International Space Station. **2010**, 91, 381-382	2
2044	Can molecular diffusion explain Space Shuttle plume spreading?. **2010**, 37,	17
2043	Evidence for dynamical coupling from the lower atmosphere to the thermosphere during a major stratospheric warming. **2010**, 37, n/a-n/a	70
2042	Links between a stratospheric sudden warming and thermal structures and dynamics in the high-latitude mesosphere, lower thermosphere, and ionosphere. **2010**, 37, n/a-n/a	50

2041	Global modeling of equatorial plasma bubbles. **2010**, 37, n/a-n/a	54
2040	Modeling of kinetic, ionospheric and auroral contributions to the 557.7-nm nightglow. **2010**, 37, n/a-n/a	8
2039	Climatology of globally averaged thermospheric mass density. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	73
2038	Low-latitude measurements of neutral thermospheric helium dominance near 400 km during extreme solar minimum. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	11
2037	On the consistency of satellite measurements of thermospheric composition and solar EUV irradiance with Australian ionosonde electron density data. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	24
2036	Diagnosing radio plasma heating in the polar summer mesosphere using cross modulation: Theory and observations. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	15
2035	A whole atmosphere model simulation of the impact of a sudden stratospheric warming on thermosphere dynamics and electrodynamics. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	103
2034	Anomalous behavior of the thermosphere during solar minimum observed by CHAMP and GRACE. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	38
2033	Observations and modeling of the ionospheric behaviors over the east Asia zone during the 22 July 2009 solar eclipse. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	16
2032	Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	41
2031	Occurrence and onset conditions of postsunset equatorial spread F at Jicamarca during solar minimum and maximum. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	1
2030	Variations of the nighttime thermospheric mass density at low and middle latitudes. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a	23
2029	Further study on the solar activity variation of daytime NmF2. *Journal of Geophysical Research*, **2010** , 115, n/a-n/a	25
2028	A study of acoustic propagation from a large bolide in the atmosphere with a dense seismic network. *Journal of Geophysical Research*, **2010**, 115,	37
2027	Source location of the 19 February 2008 Oregon bolide using seismic networks and infrasound arrays. *Journal of Geophysical Research*, **2010**, 115,	27
2026	Influence of an inertia-gravity wave on mesospheric dynamics: A case study with the Poker Flat Incoherent Scatter Radar. *Journal of Geophysical Research*, **2010**, 115,	40
2025	Development of a curved ray tracing method for modeling of phase paths from GPS radio occultation: A two-dimensional study. *Journal of Geophysical Research*, **2010**, 115,	14
2024	THE SEISMOACOUSTIC WAVEFIELD: A NEW PARADIGM IN STUDYING GEOPHYSICAL PHENOMENA. **2010**, 48,	62

2023	Orbital Analysis of Macron Propulsion. **2010**,	0
2022	Drag Coefficient Estimation in Orbit Determination. **2011**, 58, 513-530	10
2021	Measuring Absolute Thermospheric Densities And Accommodation Coefficients Using Paddlewheel Satellites: Past Findings, Present Uses, And Future Mission Concepts. **2011**, 58, 531-549	5
2020	The effects of Bhatnagar-Gross-Krook, Brownian, and hard-sphere ion-neutral collision models on the incoherent scatter spectrum in the E region. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	2
2019	Large-scale gravity wave characteristics simulated with a high-resolution global thermosphere-ionosphere model. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	14
2018	The effect of periodic variations of thermospheric density on CHAMP and GRACE orbits. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	20
2017	A downward revision of a recently reported proton auroral LBH emission efficiency. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	7
2016	Incoherent scatter radar estimation of F region ionospheric composition during frictional heating events. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	17
2015	Detection and modeling of Rayleigh wave induced patterns in the ionosphere. *Journal of Geophysical Research*, **2011**, 116,	91
2014	Comparison of modeled electron densities and electron and ion temperatures with Arecibo observations during undisturbed and geomagnetic storm periods of 7–11 September 2005. *Journal of Geophysical Research*, **2011**, 116,	10
2013	Observations and model calculations of the F3 layer in the Southeast Asian equatorial ionosphere. *Journal of Geophysical Research*, **2011**, 116,	22
2012	On the mechanism of seasonal and solar cycle NmF2 variations: A quantitative estimate of the main parameters contribution using incoherent scatter radar observations. *Journal of Geophysical Research*, **2011**, 116,	22
2011	Rapid recovery of thermosphere density during the October 2003 geomagnetic storms. *Journal of Geophysical Research*, **2011**, 116,	40
2010	O and N2 disturbances in the F region during the 20 November 2003 storm seen from TIMED/GUVI. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	32
2009	Solar flux variation of the electron temperature morning overshoot in the equatorial F region. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	17
2008	Does the F10.7 index correctly describe solar EUV flux during the deep solar minimum of 2007–2009?. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	59
2007	Modified solar flux index for upper atmospheric applications. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	11
2006	Electric fields and neutral winds from monostatic incoherent scatter measurements by means of stochastic inversion. *Journal of Geophysical Research*, **2011**, 116,	18

2005	Further evidence of long-term thermospheric density change using a new method of satellite ballistic coefficient estimation. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	12
2004	Atomic oxygen densities retrieved from Optical Spectrograph and Infrared Imaging System observations of O2 A-band airglow emission in the mesosphere and lower thermosphere. *Journal of Geophysical Research*, **2011**, 116,	31
2003	The temperature structure of the mesosphere over Taiwan and comparison with other latitudes. *Journal of Geophysical Research*, **2011**, 116,	8
2002	A medium-scale traveling ionospheric disturbance observed from the ground and from space. **2011**, 46, n/a-n/a	12
2001	In-situ measurements of topside ionosphere electron density enhancements during an HF-modification experiment. **2011**, 38, n/a-n/a	7
2000	Mesopause temperatures during the polar mesospheric cloud season. **2011**, 38, n/a-n/a	15
1999	Nighttime nitric oxide densities in the Southern Hemisphere mesosphere□lower thermosphere. **2011**, 38,	17
1998	The Horizontal E-region Experiment: Evidence for inertial instability on the evening side of the auroral oval?. **2011**, 38, n/a-n/a	3
1997	Determination of the most pertinent EUV proxy for use in thermosphere modeling. **2011**, 38, n/a-n/a	14
1996	First ionospheric images of the seismic fault slip on the example of the Tohoku-oki earthquake. **2011**, 38, n/a-n/a	77
1995	First measurements of thermal tides in the summer mesopause region at Antarctic latitudes. **2011**, 38, n/a-n/a	44
1994	C/NOFS satellite observations of equatorial ionospheric plasma structures supported by multiple ground-based diagnostics in October 2008. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	15
1993	Causes of low thermospheric density during the 2007□2009 solar minimum. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	106
1992	Sensitivity studies of equatorial topside electron and ion temperatures. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	8
1991	Ionospheric total electron content: Global and hemispheric climatology. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	32
1990	Ionosphere/thermosphere heating determined from dynamic magnetosphere-ionosphere/thermosphere coupling. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	18
1989	Global observations of thermospheric temperature and nitric oxide from MIPAS spectra at 5.3 □m. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	33
1988	Variability of thermosphere and ionosphere responses to solar flares. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	52

1987	Sun-synchronous thermal tides in exosphere temperature from CHAMP and GRACE accelerometer measurements. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	13
1986	Global thermospheric atomic oxygen variations observed with the WIND Imaging Interferometer (WINDII): Wave 4 at low and high latitudes. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	10
1985	Response of thermosphere density to changes in interplanetary magnetic field sector polarity. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	11
1984	On the relationship between the postmidnight thermospheric equatorial mass anomaly and equatorial ionization anomaly under geomagnetic quiet conditions. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	5
1983	A study of space shuttle plumes in the lower thermosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	12
1982	Dayside midlatitude ionospheric response to storm time electric fields: A case study for 7 September 2002. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	20
1981	The ionospheric gravity and diamagnetic current systems. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	17
1980	Gravity wave characteristics from OH airglow imager over Maui. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	27
1979	WHOLE ATMOSPHERE MODELING: CONNECTING TERRESTRIAL AND SPACE WEATHER. **2011**, 49,	106
1978	A study of the strong linear relationship between the equatorial ionization anomaly and the prereversal E □B drift velocity at solar minimum. **2011**, 46,	13
1977	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using ground-based observations. **2011**, 9, n/a-n/a	57
1976	Electrodynamics of Ionosphere□hermosphere Coupling. **2011**, 191-201	7
1975	Macron propulsion for formation flying requiring constant thrust. **2011**,	1
1974	Equatorial Ionization Anomaly: The Role of Thermospheric Winds and the Effects of the Geomagnetic Field Secular Variation. **2011**, 317-328	10
1973	Climatology of the nighttime equatorial thermospheric winds and temperatures over Brazil near solar minimum. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	57
1972	Theoretical study of the ionospheric Weddell Sea Anomaly using SAMI2. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	32
1971	Observations and simulations of seismoionospheric GPS total electron content anomalies before the 12 January 2010 M7 Haiti earthquake. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	59
1970	Weddell Sea Anomaly: Investigation using the global numerical model. **2011**,	1

1969	Spatial sampling of the thermospheric vertical wind field at auroral latitudes. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	16
1968	Latitudinal variations of middle thermosphere: Observations and modeling. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	7
1967	Simultaneous trace gas measurements using two Fourier transform spectrometers at Eureka, Canada during spring 2006, and comparisons with the ACE-FTS. **2011**, 11, 5383-5405	9
1966	Composition changes after the "Halloween" solar proton event: the High Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study. **2011**, 11, 9089-9139	113
1965	System Investigations of the SpaceLiner Concept in FAST20XX. **2011**,	12
1964	Finite difference synthesis of infrasound propagation through a windy, viscous atmosphere: application to a bolide explosion detected by seismic networks. **2011**, 185, 305-320	27
1963	Seasonal features of the appearance of aerosol scattering in the stratosphere and mesosphere of Kamchatka from the results of lidar observations in 2007–2009. **2011**, 47, 603-609	5
1962	Vibrationally excited N2 and O2 in the upper atmosphere: A review. **2011**, 51, 143-169	20
1961	Origination of G conditions in the ionospheric F region depending on solar and geomagnetic activity. **2011**, 51, 669-675	5
1960	. **2011**, 47, 1125-1135	37
1959	Seasonal and year-to-year variability of the 557.7 nm atomic oxygen atmospheric emission. **2011**, 51, 963-967	
1958	The electron density dependence of polar mesospheric summer echoes. **2011**, 73, 2153-2165	29
1957	Longitudinal variations in the F region ionosphere and the topside ionosphere-plasmasphere: Observations and model simulations. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	46
1956	Tsunami signature in the ionosphere: A simulation of OTH radar observations. **2011**, 46,	21
1955	Did the January 2009 sudden stratospheric warming cool or warm the thermosphere?. **2011**, 38, n/a-n/a	30
1954	Modeling Mars' ionosphere with constraints from same-day observations by Mars Global Surveyor and Mars Express. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a	57
1953	Simulation of the behavior of excited gaseous components in the atmosphere of the Earth: Hot oxygen. **2011**, 5, 369-376	3
1952	High-latitude thermospheric winds: Satellite data and model calculations. **2011**, 5, 439-446	1

1951	The influence of ionic temperature on plasmasphere structure formation. **2011**, 5, 363-368	1
1950	Estimation of secular density variations in the upper atmosphere from 1964–2007 satellite drag data. **2011**, 45, 420-432	
1949	Density Perturbations in the Upper Atmosphere Caused by the Dissipation of Solar Wind Energy. **2011**, 32, 101-195	72
1948	Impact of CIR Storms on Thermosphere Density Variability during the Solar Minimum of 2008. **2011**, 274, 427-437	55
1947	A Snapshot of the Sun Near Solar Minimum: The Whole Heliosphere Interval. **2011**, 274, 29-56	19
1946	Mass density of the upper atmosphere derived from Starlette Precise Orbit Determination with Satellite Laser Ranging. **2011**, 332, 341-351	9
1945	The international reference ionosphere today and in the future. **2011**, 85, 909-920	244
1944	Observations of the first meteorological rocket of the Meridian Space Weather Monitoring Project. **2011**, 56, 2131-2137	7
1943	24/7 Solar minimum polar cap and auroral ion temperature observations. **2011**, 48, 1-11	3
1942	Meteoroid mass determination from underdense trails. **2011**, 73, 895-900	18
1941	Long-term changes in the nightly behaviour of the oxygen red 630.0 nm line nightglow intensity and trends in the thermospheric meridional wind velocity. **2011**, 32, 3093-3114	5
1940	The resonant response of the ionosphere imaged after the 2011 off the Pacific coast of Tohoku Earthquake. **2011**, 63, 853-857	130
1939	Long-distance propagation of ionospheric disturbance generated by the 2011 off the Pacific coast of Tohoku Earthquake. **2011**, 63, 881-884	40
1938	Numerical simulations of atmospheric waves excited by the 2011 off the Pacific coast of Tohoku Earthquake. **2011**, 63, 885-889	68
1937	Drag Coefficients of Satellites with Concave Geometries: Comparing Models and Observations. **2011**, 48, 312-325	33
1936	Precision Orbit Derived Total Density. **2011**, 48, 166-174	17
1935	Substorms during different storm phases. **2011**, 29, 2031-2043	13
1934	Enhancement of Terrestrial Diffuse X-Ray Emission Associated with Coronal Mass Ejection and Geomagnetic Storm. **2011**, 63, S691-S704	19

1933	The Turbopause experiment: atmospheric stability and turbulent structure spanning the turbopause altitude. **2011**, 29, 2327-2339	16
1932	Large-Scale Measurements of Thermospheric Dynamics with a Multisite Fabry-Perot Interferometer Network: Overview of Plans and Results from Midlatitude Measurements. **2012**, 2012, 1-10	29
1931	Solar flares as proxy for the young Sun: satellite observed thermosphere response to an X17.2 flare of Earth's upper atmosphere. **2012**, 30, 1129-1141	16
1930	Numerical Modeling of the Influence of Solar Activity on the Global Circulation in the Earth Mesosphere and Lower Thermosphere. **2012**, 2012, 1-15	6
1929	Electron density profiles in the quiet lower ionosphere based on the results of modeling and experimental data. **2012**, 30, 1345-1360	21
1928	Observations of NO in the upper mesosphere and lower thermosphere during ECOMA 2010. **2012**, 30, 1611-1621	7
1927	Wave influence on polar mesosphere summer echoes above Wasa: experimental and model studies. **2012**, 30, 1143-1157	8
1926	Validation of OSIRIS mesospheric temperatures using satellite and ground-based measurements. **2012**,	1
1925	Evolution of negative SI-induced ionospheric flows observed by SuperDARN King Salmon HF radar. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	5
1924	Simulations of imaging Fabry-Perot interferometers for measuring upper-atmospheric temperatures and winds. **2012**, 51, 3787-800	4
1923	Deriving Accurate Satellite Ballistic Coefficients from Two-Line Element Data. **2012**, 49, 175-184	10
1922	Sequential Orbit Determination with the Cubed-Sphere Gravity Model. **2012**, 49, 145-156	1
1921	Impact of Thrust Alignment on Orbital Debris Removal by Ground-Based Lasers. **2012**, 49, 261-267	
1920	Constant Momentum Exchange to Maintain Spacecraft Formations. **2012**, 49, 69-75	2
1919	Polar cap ionosphere and thermosphere during the solar minimum period: EISCAT Svalbard radar observations and GCM simulations. **2012**, 64, 459-465	4
1918	Reliability Based Design Optimization of a CubeSat De-Orbiting Mechanism. **2012**,	2
1917	Retrieval of thermospheric parameters from routine ionospheric observations: assessment of methods performance at mid-latitudes daytime hours. **2012**, 2, A03	13
1916	On the quality of MIPAS kinetic temperature in the middle atmosphere. **2012**, 12, 6009-6039	22

1915	Investigation of Hemispheric Asymmetry and Longitudinal Variation of Flux-Tube Integrated Rayleigh-Taylor Instability. **2012**, 55, 112-124	4
1914	Changes in thermospheric temperature induced by high-speed solar wind streams. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	10
1913	Improving GPS Radio occultation stratospheric refractivity retrievals for climate benchmarking. **2012**, 39, n/a-n/a	18
1912	Atmospheric scattering and decay of inner radiation belt electrons. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	29
1911	Ionospheric plasma transport and loss in auroral downward current regions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	36
1910	An intense traveling airglow front in the upper mesosphere□lower thermosphere with characteristics of a bore observed over Alice Springs, Australia, during a strong 2 day wave episode. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	9
1909	Middle and upper thermosphere density structures due to nonmigrating tides. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	7
1908	Detection of ionospheric Alfvén resonator signatures in the equatorial ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	18
1907	An empirical determination of proton auroral far ultraviolet emission efficiencies using a new nonclimatological proton flux extrapolation method. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	5
1906	Forward ray-tracing for medium-scale gravity waves observed during the COPEX campaign. **2012**, 90-91, 117-123	10
1905	Estimating Density Using Precision Satellite Orbits from Multiple Satellites. **2012**, 59, 84-100	6
1904	Estimating the electron energy distribution during ionospheric modification from spectrographic airglow measurements. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	7
1903	Examination of the absence of noontime bite-out in equatorial total electron content. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	10
1902	New method for tracking the movement of ionospheric plasma. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	2
1901	Remote sensing of neutral temperatures in the Earth's thermosphere using the Lyman-Birge-Hopfield bands of N2: Comparisons with satellite drag data. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	8
1900	Global Dynamics of the MLT. **2012**, 33, 1177-1230	124
1899	Effect of R2-FAC development on the ionospheric electric field pattern deduced by a global ionospheric potential solver. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	10
1898	On estimation and attribution of long-term temperature trends in the thermosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	20

1897	Multiobjective Optimization of Earth-Entry Vehicle Heat Shields. **2012**, 49, 38-50	4
1896	Longitudinal variability of thermospheric temperatures from WINDII O(1S) dayglow. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	4
1895	Two types of positive disturbances in the daytime mid-latitude F2-layer: Morphology and formation mechanisms. **2012**, 81-82, 59-75	11
1894	A new model of cosmogenic production of radiocarbon 14C in the atmosphere. **2012**, 337-338, 114-120	97
1893	Statistical distribution of height-integrated energy exchange rates in the ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	22
1892	THEONA□ numerical-analytical theory of motion of artificial satellites of celestial bodies. **2012**, 50, 449-458	9
1891	Lidar observations and formation mechanism of the structure of stratospheric and mesospheric aerosol layers over Kamchatka. **2012**, 52, 653-663	12
1890	Effective radius of heating of the lower ionosphere by intense shortwave radiation. **2012**, 52, 793-796	1
1889	Dynamics of lidar reflections of the Kamchatka upper atmosphere and its connection with phenomena in the ionosphere. **2012**, 52, 797-804	4
1888	Re-evaluation of thermosphere heating by solar EUV and UV radiation 1This article is part of a Special issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December 2010 after a very illustrious career.. **2012**, 90, 759-767	3
1887	Measurement and application of the O II 61.7 nm dayglow. *Journal of Geophysical Research*, **2012**, 117,	8
1886	Nonmigrating tidal characteristics in thermospheric neutral mass density. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	6
1885	Overcooling in the upper thermosphere during the recovery phase of the 2003 October storms. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	37
1884	Observed and modeled solar cycle variation in geocoronal hydrogen using NRLMSISE-00 thermosphere conditions and the Bishop analytic exosphere model. *Journal of Geophysical Research* , **2012**, 117, n/a-n/a	15
1883	Three-dimensional numerical simulations of equatorial spread F: Results and observations in the Pacific sector. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	19
1882	A multiyear (2002□2006) climatology of O/N2 in the lower thermosphere from TIMED GUVI and ground-based photometer observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	9
1881	Temporal variations of the ion-neutral collision frequency from EISCAT observations in the polar lower ionosphere during periods of geomagnetic disturbances. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	4
1880	High-latitudeEregion ionosphere-thermosphere coupling: A comparative study using in situ and incoherent scatter radar observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	9

1879	Annual and semiannual variations of thermospheric density: EOF analysis of CHAMP and GRACE data. *Journal of Geophysical Research*, **2012**, 117,	41
1878	Atmosphere-ionosphere conductivity enhancements during a hard solar energetic particle event. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	3
1877	Coordinated observations of a high-altitude auroral electrojet by UHF/VHF receivers, magnetometers and meridian scanning photometer. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	
1876	Neutral thermospheric dynamics observed with two scanning Doppler imagers: 3. Horizontal wind gradients. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	7
1875	Global Joule heating index derived from thermospheric density physics-based modeling and observations. **2012**, 10, n/a-n/a	38
1874	Validation of upper mesospheric and lower thermospheric temperatures measured by the Solar Occultation for Ice Experiment. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	31
1873	Data assimilation of thermospheric mass density. **2012**, 10, n/a-n/a	30
1872	Impact of tidal density variability on orbital and reentry predictions. **2012**, 10, n/a-n/a	20
1871	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: Electron density, neutral density, NmF2, and hmF2 using space based observations. **2012**, 10, n/a-n/a	52
1870	Assessment of the quality of OSIRIS mesospheric temperatures using satellite and ground-based measurements. **2012**, 5, 2993-3006	7
1869	The O2(b1Σ) dayglow emissions: application to middle and upper atmosphere remote sensing1This article is part of a Special issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December 2010 after a very illustrious career.. **2012**, 90, 769-784	13
1868	On the sensitivity of infrasonic traveltimes in the equatorial region to the atmospheric tides. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	41
1867	Magnetic conjugacy of northern and southern auroral beads. **2012**, 39, n/a-n/a	68
1866	Numerical Simulation of the Global Neutral Wind System of the Earth's Middle Atmosphere for Different Seasons. **2012**, 3, 213-228	9
1865	Evaluation of the DTM-2009 thermosphere model for benchmarking purposes. **2012**, 2, A04	36
1864	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	20
1863	The phases and amplitudes of gravity waves propagating and dissipating in the thermosphere: Application to measurements over Alaska. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	19
1862	Modeling the daytime, equatorial ionospheric ion densities associated with the observed, four-cell longitude patterns in E × B drift velocities. **2012**, 47,	7

1861	Ion Chemistry of the Ionosphere at E- and F-Region Altitudes: A Review. **2012**, 33, 1133-1172	23
1860	Observations of molecular oxygen Atmospheric band emission in the thermosphere using the near infrared spectrometer on the ISS/RAIDS experiment. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	11
1859	Contrasting the responses of three different ground-based instruments to energetic electron precipitation. **2012**, 47, n/a-n/a	47
1858	GRANADA: A Generic RAdiative traNsfer AnD non-LTE population algorithm. **2012**, 113, 1771-1817	50
1857	The impact of helium on thermosphere mass density response to geomagnetic activity during the recent solar minimum. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	27
1856	Evaluation of ionospheric densities using coincident OII 83.4 nm airglow and the Millstone Hill Radar. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	4
1855	Modeling studies of the impact of high-speed streams and co-rotating interaction regions on the thermosphere-ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	44
1854	Implications of the equipotential field line approximation for equatorial spread F analysis. **2012**, 39, n/a-n/a	13
1853	Equatorial plasma bubble zonal velocity using 630.0 nm airglow observations and plasma drift modeling over Ascension Island. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	15
1852	SAMI2-PE: A model of the ionosphere including multistream interhemispheric photoelectron transport. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	21
1851	Superposed epoch analyses of thermospheric response to CIRs: Solar cycle and seasonal dependencies. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a	15
1850	Stellar temperatures by Wien's law: Not so simple. **2012**, 80, 391-398	1
1849	Interactions Between the Lower, Middle and Upper Atmosphere. **2012**, 168, 1-21	17
1848	The Near-Earth Plasma Environment. **2012**, 168, 23-112	27
1847	Thermospheric Density: An Overview of Temporal and Spatial Variations. **2012**, 168, 147-173	78
1846	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. **2012**, 168, 551-593	25
1845	Influences of non-isothermal atmospheric backgrounds on variations of gravity wave parameters. **2012**, 55, 1251-1257	5
1844	First experiment of spectrometric observation of hydroxyl emission and rotational temperature in the mesopause in China. **2012**, 55, 1312-1318	6

1843	Latitudinal distribution of HDO abundance above Venus clouds by ground-based 2.3 μm spectroscopy. **2012**, 217, 610-614	6
1842	The low and middle latitude semi-annual anomaly in NmF2 near noon: A statistical study. **2012**, 49, 922-936	10
1841	Variations in the thermosphere and ionosphere response to the 17–20 April 2002 geomagnetic storms. **2012**, 49, 1529-1536	9
1840	Neutral air density variations during strong planetary wave activity in the mesopause region derived from meteor radar observations. **2012**, 74, 55-63	54
1839	Improvement of TIE-GCM thermospheric density predictions via incorporation of helium data from NRLMSISE-00. **2012**, 77, 19-25	7
1838	Effect of solar activity on the latitudinal variation of peak emission rate of 557.7 nm dayglow emission under equinox conditions. **2012**, 77, 209-218	5
1837	High spectral resolution test and calibration of an ultra-narrowband Faraday anomalous dispersion optical filter for use in daytime mesospheric resonance Doppler lidar. **2012**, 80, 187-194	1
1836	Covariations in atomic oxygen emissions and ionospheric total electron content during geomagnetic storms. **2012**, 80, 247-251	2
1835	Thermospheric density model biases at the 23rd sunspot maximum. **2012**, 67, 130-146	26
1834	A mechanism of formation of polar cyclones and possibility of their prediction using satellite observations. **2012**, 50, 160-169	6
1833	Numerical simulation of formation of cyclone vortex flows in the intratropical zone of convergence and their early detection. **2012**, 50, 233-248	11
1832	Mathematical modeling of nighttime enhanced electron density regions in the Earth's ionospheric F2 layer and plasmasphere. **2012**, 52, 368-377	3
1831	Variations in statistical parameters of the NmF2 winter anomaly with latitude and solar activity. **2012**, 52, 335-343	12
1830	EUV SpectroPhotometer (ESP) in Extreme Ultraviolet Variability Experiment (EVE): Algorithms and Calibrations. **2012**, 275, 179-205	46
1829	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. **2012**, 275, 115-143	304
1828	Disturbed O/N2 Ratios and their Transport to Middle and Low Latitudes. **2013**, 221-234	16
1827	Field-aligned current loop model on formation of sporadic metal layers. **2013**, 118, 4628-4639	9
1826	Lunar semidiurnal tide in the thermosphere under solar minimum conditions. **2013**, 118, 1788-1801	51

1825	Estimating energy spectra of electron precipitation above auroral arcs from ground-based observations with radar and optics. **2013**, 118, 3672-3691	12
1824	Altitude profiles of lower thermospheric temperature from RAIDS/NIRS and TIMED/SABER remote sensing experiments. **2013**, 118, 3740-3746	16
1823	Modeling the ionospheric E and F1 regions: Using SDO-EVE observations as the solar irradiance driver. **2013**, 118, 5379-5391	22
1822	Overview of the 2009 and 2011 Sayarim Infrasound Calibration Experiments. **2013**, 118, 6122-6143	48
1821	The midnight temperature maximum from Arecibo incoherent scatter radar ion temperature measurements. **2013**, 103, 129-137	8
1820	Equatorial ionization anomaly development as studied by GPS TEC and foF2 over Brazil: A comparison of observations with model results from SUPIM and IRI-2012. **2013**, 104, 45-54	8
1819	Neutron monitor yield function: New improved computations. **2013**, 118, 2783-2788	66
1818	Numerical simulation of the variations in the total electron content of the ionosphere observed before the Haiti earthquake of January 12, 2010. **2013**, 53, 522-528	15
1817	Solar eclipse of August 1, 2008, over Kharkov: 3. calculation results and discussion. **2013**, 53, 367-376	14
1816	Technique to produce daily estimates of the migrating diurnal tide using TIMED/SABER and EOS Aura/MLS. **2013**, 105-106, 39-53	13
1815	Comparison of NmE measured by the boulder ionosonde with model predictions near the spring equinox. **2013**, 102, 39-47	10
1814	What the Satellite Design Community Needs From the Radiation Belt Science Community. **2013**, 365-370	1
1813	Small Satellite Rendezvous Using Differential Lift and Drag. **2013**, 36, 445-453	35
1812	Lyman □airglow emission: Implications for atomic hydrogen geocorona variability with solar cycle. **2013**, 118, 5874-5890	23
1811	Electromagnetic Drivers in the Upper Atmosphere: Observations and Modeling. **2013**, 165-219	4
1810	Morphology of the G condition occurrence over Irkutsk. **2013**, 52, 575-580	1
1809	Variations in statistical parameters of the NmF2 equinoctial asymmetry with latitude and solar activity near noon. **2013**, 51, 2018-2034	6
1808	Estimation of ballistic coefficients of low altitude debris objects from historical two line elements. **2013**, 52, 117-124	29

1807	E region electric fields at the dip equator and anomalous conductivity effects. **2013**, 51, 1857-1869	8
1806	The ionospheric anomalies prior to the M9.0 Tohoku-Oki earthquake. **2013**, 62, 476-484	39
1805	Longitudinal variation in Global Navigation Satellite Systems TEC and topside ion density over South American sector associated with the four-peaked wave structures. **2013**, 118, 7940-7953	12
1804	Drag coefficient modeling for grace using Direct Simulation Monte Carlo. **2013**, 52, 2035-2051	30
1803	Ionospheric disturbances induced by a missile launched from North Korea on 12 December 2012. **2013**, 118, 5184-5189	21
1802	Diurnal and seasonal variation of electron heat flux measured with the Poker Flat Incoherent-Scatter Radar. **2013**, 118, 5327-5332	8
1801	Modeling of variations of the peak F2 layer electron density and total electron content during the recovery period after the magnetic storm of April 15–20, 2002. **2013**, 7, 606-610	
1800	Modeling the plasmasphere with SAMI3. **2013**, 40, 6-10	48
1799	Sources of variability in equatorial topside ionospheric and plasmaspheric temperatures. **2013**, 103, 83-93	4
1798	Planetary wave oscillations observed in ozone and PMSE data from Antarctica. **2013**, 105-106, 207-213	
1797	Multiple neutral density measurements in the lower thermosphere with cold-cathode ionization gauges. **2013**, 92, 137-144	
1796	Airglow observations of orographic, volcanic and meteorological infrasound signatures. **2013**, 104, 55-66	16
1795	Reevaluation of thermosphere heating by auroral electrons. **2013**, 51, 610-619	7
1794	The magnitude and inter-hemispheric asymmetry of equatorial ionization anomaly-based on CHAMP and GRACE observations. **2013**, 105-106, 160-169	31
1793	Statistical analysis of infrasound signatures in airglow observations: Indications for acoustic resonance. **2013**, 93, 70-79	8
1792	Atmospheric propagation modeling indicates homing pigeons use loft-specific infrasonic 'map' cues. **2013**, 216, 687-99	45
1791	Empirical STORM-E model: I. Theoretical and observational basis. **2013**, 51, 554-574	8
1790	Observation of a thermospheric descending layer of neutral K over Arecibo. **2013**, 104, 253-259	34

1789	Effect of the zonal E □B plasma drift on the electron number density in the low-latitude ionospheric F region at high solar activity near the December solstice. **2013**, 53, 188-197	
1788	GOCE: The first seismometer in orbit around the Earth. **2013**, 40, 1015-1020	36
1787	Rapid, highly structured meridional winds and their modulation by non migrating tides: Measurements from the Streak mission. **2013**, 118, 866-877	2
1786	Longitudinal and seasonal structure of the ionospheric equatorial electric field. **2013**, 118, 1298-1305	21
1785	Thermospheric atomic oxygen density estimates using the EISCAT Svalbard Radar. **2013**, 118, 1319-1330	12
1784	Wave signatures in the midlatitude ionosphere during a sudden stratospheric warming of January 2010. **2013**, 118, 472-487	44
1783	Thermospheric tidal effects on the ionospheric midlatitude summer nighttime anomaly using SAMI3 and TIEGCM. **2013**, 118, 3836-3845	26
1782	Modelling of plasma processes in cometary and planetary atmospheres. **2013**, 22, 013002	55
1781	Charged Aerosol Effects on the Scattering of Radar Waves from the D-Region. **2013**, 339-363	3
1780	Fine structure in midlatitude sporadic E layers. **2013**, 103, 16-23	11
1779	Satellite observations of ozone in the upper mesosphere. **2013**, 118, 5803-5821	55
1778	Modeling ionospheric super-fountain effect based on the coupled TIMEGCM-SAMI3. **2013**, 118, 2527-2535	27
1777	Longitudinal and day-to-day variability in the ionosphere from lower atmosphere tidal forcing. **2013** , 40, 2523-2528	44
1776	Estimation of debris dispersion due to a space vehicle breakup during reentry. **2013**, 86, 211-218	17
1775	Enhancements of nighttime neutral and ion temperatures in the F region over Millstone Hill. **2013**, 118, 1768-1776	8
1774	□sat, a QB50 CubeSat mission to study rarefied-gas drag modelling. **2013**, 89, 130-138	7
1773	Height-dependent energy exchange rates in the high-latitude E region ionosphere. **2013**, 118, 7369-7383	14
1772	Impact of tropospheric tides on the nitric oxide 5.3 □m infrared cooling of the low-latitude thermosphere during solar minimum conditions. **2013**, 118, 7283-7293	19

1771	Theoretical tools for studies of low-frequency thermospheric variability. **2013**, 118, 5853-5873	12
1770	Parameters of seismic source as deduced from 1 Hz ionospheric GPS data: Case study of the 2011 Tohoku-oki event. **2013**, 118, 5942-5950	35
1769	Empirical model of the thermospheric mass density based on CHAMP satellite observations. **2013**, 118, 843-848	27
1768	On the relationship between atomic oxygen and vertical shifts between OH Meinel bands originating from different vibrational levels. **2013**, 40, 5821-5825	23
1767	Noctilucent cloud variability and mean parameters from 15 years of lidar observations at a mid-latitude site (54°N, 12°E). **2013**, 118, 317-328	14
1766	The longitudinal variation of the daily mean thermospheric mass density. **2013**, 118, 515-523	21
1765	WINDII observations and TIME-GCM simulations of O(1S) polar spirals during geomagnetic disturbances. **2013**, 118, 2721-2733	2
1764	Mesospheric hydroxyl airglow signatures of acoustic and gravity waves generated by transient tropospheric forcing. **2013**, 40, 4533-4537	30
1763	Three-dimensional modeling of the electromagnetic characteristics of equatorial plasma depletions. **2013**, 118, 3505-3514	6
1762	NAIRAS aircraft radiation model development, dose climatology, and initial validation. **2013**, 11, 603-635	53
1761	Micropulse lidar-derived aerosol optical depth climatology at ARM sites worldwide. **2013**, 118, 7293-7308	23
1760	Transport of solar protons through the atmosphere during GLE. **2013**, 409, 012200	2
1759	Empirical correction of thermal responses in the Solar Occultation for Ice Experiment nitric oxide measurements and initial data validation results. **2013**, 52, 2950-9	12
1758	A framework for estimating stratospheric wind speeds from unknown sources and application to the 2010 December 25 bolide. **2013**, 195, 491-503	14
1757	Retrieval of nitric oxide in the mesosphere and lower thermosphere from SCIAMACHY limb spectra. **2013**, 6, 2521-2531	14
1756	Seasonal dependence of the longitudinal variations of nighttime ionospheric electron density and equivalent winds at southern midlatitudes. **2013**, 31, 1699-1708	8
1755	Numerical modeling study of the momentum deposition of small amplitude gravity waves in the thermosphere. **2013**, 31, 1-14	27
1754	Retrieval of nitric oxide in the mesosphere and lower thermosphere with SCIAMACHY. **2013**,	

1753	Quasi-16-day period oscillations observed in middle atmospheric ozone and temperature in Antarctica. **2013**, 31, 1279-1284	3
1752	The relationship of thermospheric density anomaly with electron temperature, small-scale FAC, and ion up-flow in the cusp region, as observed by CHAMP and DMSP satellites. **2013**, 31, 541-554	30
1751	Determination of meteor-head echo trajectories using the interferometric capabilities of MAARSY. **2013**, 31, 1843-1851	21
1750	Infrasonic interferometry of stratospherically refracted microbaroms--a numerical study. **2013**, 134, 2660-8	6
1749	Exploring the role of ionospheric drivers during the extreme solar minimum of 2008. **2013**, 31, 2147-2156	15
1748	Thermospheric density and wind retrieval from Swarm observations. **2013**, 65, 1319-1331	27
1747	Ionospheric signatures of acoustic waves generated by transient tropospheric forcing. **2013**, 40, 5345-5349	34
1746	PNAVSIM: A Numerical Simulation Package for Pulsar Navigation. **2013**, 313-314, 1069-1073	1
1745	Swarm SCARF equatorial electric field inversion chain. **2013**, 65, 1309-1317	32
1744	Effect of Density Model Time-Delay Errors on Orbit Prediction. **2013**, 50, 1096-1105	2
1743	Aerodynamic Analysis Based on Challenging Minisatellite Payload Satellite Lift-to-Drag Measurements. **2013**, 50, 1162-1170	5
1742	Gravity Error Compensation Using Second-Order Gauss-Markov Processes. **2013**, 50, 217-229	14
1741	A study of infrasonic anisotropy and multipathing in the atmosphere using seismic networks. **2013**, 371, 20110542	24
1740	Retrieval of thermospheric parameters from routinely observed F2-layer Ne(h) profiles at the geomagnetic equator. **2013**, 3, A15	2
1739	The roles of vertical advection and eddy diffusion in the equatorial mesospheric semi-annual oscillation (MSAO). **2013**, 13, 7813-7824	5
1738	Implications of the O + OH reaction in hydroxyl nightglow modeling. **2013**, 13, 1-13	47
1737	The estimation of upper atmospheric wind model updates from infrasound data. **2013**, 118, 10,707-10,724	35
1736	Numerical and statistical evidence for long-range ducted gravity wave propagation over Halley, Antarctica. **2013**, 40, 4813-4817	12

1735	Extended lateral heating of the nighttime ionosphere by ground-based VLF transmitters. **2013**, 118, 7783-7797	8
1734	Atomic oxygen in the mesosphere and lower thermosphere derived from SABER: Algorithm theoretical basis and measurement uncertainty. **2013**, 118, 5724-5735	80
1733	Radiative constraints on the minimum atomic oxygen concentration in the mesopause region. **2013**, 40, 3777-3780	8
1732	Odin observations of Antarctic nighttime NO densities in the mesosphere–lower thermosphere and observations of a lower NO layer. **2013**, 118, 7414-7425	16
1731	Equatorial ionosphere semiannual oscillation investigated from Schumann resonance measurements on board the C/NOFS satellite. **2013**, 118, 12,045-12,051	1
1730	Decrease in sodium density observed during auroral particle precipitation over Troms, Norway. **2013**, 40, 4486-4490	17
1729	High-resolution modelling of meteoroid ablation. **2013**, 557, A41	27
1728	Evaluations of Polymeric Materials in Space Environment for Space Use. **2013**, 86, 367-372	
1727	Eureka, 80° N, SKiYMET meteor radar temperatures compared with Aura MLS values. **2013**, 31, 1267-1277	15
1726	Heating of the sunlit polar cap ionosphere by reflected photoelectrons. **2014**, 119, 8660-8684	18
1725	Thermospheric density perturbations in response to substorms. **2014**, 119, 4441-4455	14
1724	Observations and modeling of magnetic flux tube refilling of the plasmasphere at geosynchronous orbit. **2014**, 119, 9246-9255	6
1723	Ionospheric shock waves triggered by rockets. **2014**, 32, 1145-1152	18
1722	Influence of water vapour on the height distribution of positive ions, effective recombination coefficient and ionisation balance in the quiet lower ionosphere. **2014**, 32, 207-222	1
1721	Theoretical Model of Drag Force Impact on a Model International Space Station Satellite due to Solar Activity. **2014**, 12, 47-53	6
1720	A study of 732.0 nm dayglow emission at the equator under varying atomic oxygen density conditions for equinox and solstice cases. **2014**, 1, 18-31	3
1719	Statistical Impact Prediction of Decaying Objects. **2014**, 51, 1797-1810	6
1718	Observations in the E region ionosphere of kappa distribution functions associated with precipitating auroral electrons and discrete aurorae. **2014**, 119, 10,164	14

1717	Theoretical study of the ionospheric plasma cave in the equatorial ionization anomaly region. **2014**, 119, 10,324	2
1716	Approximate forms of daytime ionospheric conductance. **2014**, 119, 10,397	10
1715	Investigation of sudden electron density depletions observed in the dusk sector by the Poker Flat, Alaska incoherent scatter radar in summer. **2014**, 119, 10,608	6
1714	Rigid-Body Dynamics in Free-Molecular and Transition Flow. **2014**, 51, 239-252	3
1713	Optimization of Logistics Strategies for Long-Duration Space-Station Operation. **2014**, 51, 1709-1720	10
1712	Quantitative analysis of the atmospheric density models applicable for determination of artificial satellite deceleration. **2014**, 30, 308-312	3
1711	Long-term variation in the upper atmosphere as seen in the geomagnetic solar quiet daily variation. **2014**, 66,	17
1710	Large winds and wind shears caused by the nonlinear interactions between gravity waves and tidal backgrounds in the mesosphere and lower thermosphere. **2014**, 119, 7698-7708	16
1709	Using physics-based priors in a Bayesian algorithm to enhance infrasound source location. **2014**, 196, 375-385	18
1708	Numerical calculation of the radiation exposure from galactic cosmic rays at aviation altitudes with the PANDOCA core model. **2014**, 12, 161-171	24
1707	MIPAS temperature from the stratosphere to the lower thermosphere: comparison of version vM21 with ACE-FTS, MLS, OSIRIS, SABER, SOFIE and lidar measurements. **2014**,	
1706	Moderate geomagnetic storms of January 22□5, 2012 and their influences on the wave components in ionosphere and upper stratosphere-mesosphere regions. **2014**, 54, 1793-1812	7
1705	TID characterised using joint effort of incoherent scatter radar and GPS. **2014**, 32, 1511-1532	11
1704	Simulations of large winds and wind shears induced by gravity wave breaking in the mesosphere and lower thermosphere (MLT) region. **2014**, 32, 543-552	7
1703	MIPAS temperature from the stratosphere to the lower thermosphere: Comparison of vM21 with ACE-FTS, MLS, OSIRIS, SABER, SOFIE and lidar measurements. **2014**, 7, 3633-3651	26
1702	O i fluorescent line contamination in soft X-ray diffuse background obtained with Suzaku/XIS. **2014**, 66, L3	18
1701	A Modeling Study of the Initial Formation of Polar Lows in the Vicinity of the Arctic Front. **2014**, 2014, 1-10	3
1700	Bidirectional infrasonic ducts associated with sudden stratospheric warming events. **2014**, 119, 1140-1153	36

1699	. **2014**,	
1698	Finding the Force□Consistent Particle Seeding for Satellite Aerodynamics. **2014**,	
1697	Inferred cosmic-ray spectrum from Fermi large area telescope □ray observations of Earth's limb. **2014**, 112, 151103	25
1696	An Interactive Data Language software package to calculate ionospheric conductivity by using numerical models. **2014**, 185, 3398-3405	4
1695	Atomic oxygen retrievals in the MLT region from SCIAMACHY nightglow limb measurements. **2014**,	
1694	Storm time ionosphere and plasmasphere structuring: SAMI3-RCM simulation of the 31 March 2001 geomagnetic storm. **2014**, 41, 8208-8214	32
1693	Propagation and energy deposition of cosmic rays□muons on terrestrial environments. **2014**, 13, 319-323	10
1692	Statistical characterization of atmospheric gravity waves by seismoacoustic observations. **2014**, 119, 5345-5363	25
1691	Generation of a Bending Angle Radio Occultation Climatology (BAROCLIM) and its use in radio occultation retrievals. **2014**,	2
1690	A comparison of FUV dayglows measured by STSAT-1/FIMS with the AURIC model in a geomagnetic quiet condition. **2014**, 65, 786-791	1
1689	Photochemistry of Ions at D-region Altitudes of the Ionosphere: A Review. **2014**, 35, 259-334	31
1688	Validation of GOCE densities and evaluation of thermosphere models. **2014**, 54, 576-585	44
1687	Prediction of the space debris spatial distribution on the basis of the evolution equations. **2014**, 100, 47-56	3
1686	A high order method for orbital conjunctions analysis: Sensitivity to initial uncertainties. **2014**, 53, 490-508	21
1685	Cosmic factors influence on the inter-annual variations of the green 557.7 Nm line and red 630.0 Nm line nightglow intensities and their possible coupling with cloud covering at Abastumani (41.75°N, 42.82°E). **2014**, 62, 381-399	1
1684	Systematic Evaluation of Ionosphere/Thermosphere (IT) Models. **2014**, 145-160	10
1683	Dynamics of towed large space debris taking into account atmospheric disturbance. **2014**, 225, 2685-2697	30
1682	Modeling of properties of the plasmasphere under quiet and disturbed conditions. **2014**, 54, 11-19	3

1681	WACCM-X Simulation of Tidal and Planetary Wave Variability in the Upper Atmosphere. **2014**, 181-199	17
1680	Energetics and Composition in the Thermosphere. **2014**, 39-48	6
1679	Solar Cycle Changes in the Photochemistry of the Ionosphere and Thermosphere. **2014**, 29-37	2
1678	Comparative Studies of Theoretical Models in the Equatorial Ionosphere. **2014**, 133-144	4
1677	How does solar eclipse influence the complex behavior of midlatitude ionosphere? Two case studies. **2014**, 119, 1157-1171	3
1676	Density and Temperature Structure of Equatorial Spread F Plumes. **2014**, 251-258	
1675	Use of NOGAPS-ALPHA as a Bottom Boundary for the NCAR/TIEGCM. **2014**, 171-180	5
1674	Ionization due to electron and proton precipitation during the August 2011 storm. **2014**, 119, 3106-3116	14
1673	Three-Dimensional Numerical Simulations of Equatorial Spread F. **2014**, 241-250	
1672	Simulations of the effects of vertical transport on the thermosphere and ionosphere using two coupled models. **2014**, 119, 1172-1185	33
1671	Long-Term Simulations of the Ionosphere Using SAMI3. **2014**, 119-131	1
1670	Energy coupling during the August 2011 magnetic storm. **2014**, 119, 1219-1232	39
1669	High time and height resolution neutral wind profile measurements across the mesosphere/lower thermosphere region using the Arecibo incoherent scatter radar. **2014**, 119, 2345-2358	20
1668	Impacts of vertically propagating tides on the mean state of the ionosphere-thermosphere system. **2014**, 119, 2197-2213	51
1667	Altitude variations in the thermosphere mass density response to geomagnetic activity during the recent solar minimum. **2014**, 119, 2160-2177	14
1666	Semiempirical Model for Ionospheric Absorption based on the NRLMSISE-00 atmospheric model. **2014**, 49, 81-93	17
1665	Low-latitude midnight brightness in 630.0 nm limb observations by FORMOSAT-2/ISUAL. **2014**, 119, 4894-4904	4
1664	The effect of the thermosphere on quiet time plasmasphere morphology. **2014**, 119, 5032-5048	13

1663	Auroral ionospheric F region density cavity formation and evolution: MICA campaign results. **2014**, 119, 3162-3178	28
1662	Intra-annual variations of the thermospheric density at 400km altitude from 1996 to 2006. **2014**, 54, 327-332	5
1661	The winter helium bulge revisited. **2014**, 41, 6603-6609	13
1660	Comment on "The winter anomaly in the middle-latitude F region during the solar minimum period observed by the Constellation Observing System for Meteorology, Ionosphere, and Climate" by W. K. Lee, H. Kil, Y.-S. Kwak, Q. Wu, S. Cho, and J. U. Park. **2014**, 119, 7972-7978	6
1659	Background Lamb waves in the Earth's atmosphere. **2014**, 196, 312-316	19
1658	Grazing Impacts Upon Earth's Surface: Towards an Understanding of the Rio Cuarto Crater Field. **2014**, 113, 53-71	1
1657	Direct measurement of lower thermospheric neutral density using multifrequency incoherent scattering. **2014**, 41, 8147-8154	6
1656	The asymmetrical features in electron density during extreme solar minimum. **2014**, 54, 2236-2248	2
1655	Dynamics of field-aligned currents reconstructed by the ground-based and satellite data. **2014**, 54, 549-557	1
1654	Lunar tide contribution to thermosphere weather. **2014**, 12, 538-551	9
1653	First scanning Fabry–Perot interferometer developed in China. **2014**, 59, 563-570	3
1652	Nonlinear Dynamics of Objects in Transition Flow During Atmospheric Entry. **2014**, 51, 855-872	2
1651	Global distribution of atomic oxygen in the mesopause region as derived from SCIAMACHY O(1S) green line measurements. **2014**, 41, 6274-6280	31
1650	Lidar observations of the middle atmospheric thermal structure over north China and comparisons with TIMED/SABER. **2014**, 120, 80-87	4
1649	Ionospheric response to sudden stratospheric warming events at low and high solar activity. **2014**, 119, 7858-7869	27
1648	Physical mechanisms responsible for forming the 4-peak longitudinal structure of the 135.6nm ionospheric emission: First results from the Canadian IAM. **2014**, 120, 51-61	8
1647	Using MFACE as input in the UAM to specify the MIT dynamics. **2014**, 119, 6704-6714	4
1646	Modeling satellite drag coefficients with response surfaces. **2014**, 54, 1590-1607	32

1645	Comparison of H+ and He+ plasmapause locations based on the resurrected and reevaluated OGO-5 ion composition data base. **2014**, 119, 27-34	
1644	An updated model of atomic oxygen redline dayglow emission. **2014**, 54, 939-945	2
1643	Comparative studies on ionospheric climatological features of NmF2 among the Arctic and Antarctic stations. **2014**, 119, 63-70	5
1642	Ionospheric electron density profiles inverted from a spectral riometer measurement. **2014**, 41, 5370-5375	15
1641	Climatology of medium-scale traveling ionospheric disturbances observed by the midlatitude Blackstone SuperDARN radar. **2014**, 119, 7679-7697	27
1640	Gravity wave effects on postsunset equatorial F region stability. **2014**, 119, 5847-5860	15
1639	Investigation of the seasonal and local time variations of the high-altitude sporadic Na layer (Nas) formation and the associated midlatitude descending E layer (Es) in lower E region. **2014**, 119, 5985-5999	35
1638	Optical observations of meteors generating infrasound□ Acoustic signal identification and phenomenology. **2014**, 119, 116-128	24
1637	Partial solar eclipse of January 4, 2011 above Kharkiv: Observation and simulations results. **2014**, 54, 583-592	11
1636	A solar cycle of upper thermosphere density observations from the EISCAT Svalbard Radar. **2014**, 119, 6833-6845	14
1635	The responses of ionospheric topside diffusive fluxes to two geomagnetic storms in October 2002. **2014**, 119, 6806-6820	5
1634	Modeling study of nighttime enhancements in F region electron density at low latitudes. **2014**, 119, 6648-6656	20
1633	Contribution of Starlette, Stella, and AJISAI to the SLR-derived global reference frame. **2014**, 88, 789-804	39
1632	A critical assessment of satellite drag and atmospheric density modeling. **2014**, 95, 141-165	94
1631	SolidEarth: a new Digital Earth system for the modeling and visualization of the whole Earth space. **2014**, 8, 524-539	12
1630	The Partial Reflection of Tsunami-Generated Gravity Waves. **2014**, 71, 3416-3426	15
1629	Attribution of interminima changes in the global thermosphere and ionosphere. **2014**, 119, 6657-6688	42
1628	Numerical simulation of equatorial plasma bubbles over Cachimbo: COPEX campaign. **2014**, 54, 443-455	2

1627	A model for predicting the radiation exposure for mission planning aboard the international space station. **2014**, 53, 1125-1134	6
1626	Measuring atmospheric density using GPS□EO tracking data. **2014**, 53, 243-256	14
1625	Effect of severe geomagnetic storm conditions on atomic oxygen greenline dayglow emission in mesosphere. **2014**, 53, 1255-1264	9
1624	Spin-stabilized satellite magnetic attitude control scheme without initial detumbling. **2014**, 94, 446-454	15
1623	Orbit-centered atmospheric density prediction using artificial neural networks. **2014**, 98, 9-23	22
1622	Modeling ionospheric disturbance features in quasi-vertically incident ionograms using 3-D magnetoionic ray tracing and atmospheric gravity waves. **2014**, 119, 431-440	48
1621	Midnight density maximum in the thermosphere from the CHAMP observations. **2014**, 119, 3741-3746	11
1620	Geospace variability during the 2008□009 Whole Heliosphere Intervals. **2014**, 119, 3755-3776	5
1619	Data-driven numerical simulations of equatorial spread F in the Peruvian sector. **2014**, 119, 3815-3827	19
1618	Ionospheric model-observation comparisons: E layer at Arecibo Incorporation of SDO-EVE solar irradiances. **2014**, 119, 3844-3856	7
1617	A statistical approach to determining energetic outer radiation belt electron precipitation fluxes. **2014**, 119, 3961-3978	10
1616	Comparing Physical Drag Coefficients Computed Using Different Gas□urface Interaction Models. **2014**, 51, 873-883	60
1615	Drag Coefficient Model Using the Cercignani□ampis□ord Gas□urface Interaction Model. **2014**, 51, 1544-1563	34
1614	On the challenge of a century lifespan satellite. **2014**, 70, 28-41	10
1613	The International Reference Ionosphere 2012 □ a model of international collaboration. **2014**, 4, A07	381
1612	Numerical simulation of the long-range propagation of gravity wave packets at high latitudes. **2014** , 119, 11,116-11,134	12
1611	Winter temperature tides from 30 to 110 km at McMurdo (77.8°S, 166.7°E), Antarctica: Lidar observations and comparisons with WAM. **2014**, 119, 2846-2863	19
1610	Correlations between ion density and temperature in the topside ionosphere measured by ROCSAT-1. **2014**, 119, 9207-9215	5

1609	Neutral density variation from specular meteor echo observations spanning one solar cycle. **2014**, 41, 6919-6925	32
1608	On the generation/decay of the storm-enhanced density plumes: Role of the convection flow and field-aligned ion flow. **2014**, 119, 8543-8559	47
1607	Atmospheric gravity waves due to the Tohoku-Oki tsunami observed in the thermosphere by GOCE. **2014**, 119, 4498-4506	36
1606	Quantifying Kelvin-Helmholtz instability dynamics observed in noctilucent clouds: 1. Methods and observations. **2014**, 119, 9324-9337	41
1605	On the solar cycle variation of the winter anomaly. **2014**, 119, 4938-4949	27
1604	Horizontal parameters of daytime thermospheric gravity waves and E region neutral winds over Puerto Rico. **2014**, 119, 575-600	30
1603	OH Meinel band nightglow profiles from OSIRIS observations. **2014**, 119, 11,417-11,428	14
1602	On the possible use of radio occultation middle latitude electron density profiles to retrieve thermospheric parameters. **2014**, 4, A12	8
1601	Gravity wave characteristics in the mesopause region revealed from OH airglow imager observations over Northern Colorado. **2014**, 119, 630-645	18
1600	Orbit Control Manoeuvre Strategy for EarthCARE. **2014**,	
1599	Nonmigrating tidal variability in the SABER/TIMED mesospheric ozone. **2014**, 41, 4059-4067	6
1598	Automatic infrasound detection and location of sources in the western United States. **2014**, 119, 7773-7798	17
1597	Evaluation of wind and temperature profiles from ECMWF analysis on two hemispheres using volcanic infrasound. **2014**, 119, 8659-8683	32
1596	Electron density height profiles calculated by the theoretical upper atmosphere model: Comparison with the empirical IRI model. **2014**,	
1595	Highly Physical Penumbra Solar Radiation Pressure Modeling and the Earth Flyby Anomaly. **2014**,	0
1594	Ionospheric imaging using merged ultraviolet airglow and radio occultation data. **2014**,	4
1593	Implementation of a new ionospheric model (ANIMo) into a three-dimensional variational analysis (3D-Var) for imaging and forecasting purposes. **2014**,	
1592	Inductive-dynamic magnetosphere-ionosphere coupling via MHD waves. **2014**, 119, 530-547	11

1591	Evaluation of the Modified Picard-Chebyshev Method for High-Precision Orbit Propagation. **2015**, 28, 04014125	3
1590	Deterministic drift counteraction optimal control and its application to satellite life extension. **2015** ,	6
1589	First tsunami gravity wave detection in ionospheric radio occultation data. **2015**, 2, 125-133	45
1588	Data-driven numerical simulations of equatorial spread F in the Peruvian sector 3: Solstice. **2015**, 120, 10,809	12
1587	Effects of meteoric smoke particles on the D region ion chemistry. **2015**, 120, 10,823-10,839	18
1586	A novel approach to fireball modeling: The observable and the calculated. **2015**, 50, 1423-1435	24
1585	Design and Evaluation of a Semi-Empirical Piece-wise Exponential Atmospheric Density Model for CubeSat Applications. **2015**,	0
1584	E region electric field dependence of the solar activity. **2015**, 120, 8934-8941	8
1583	Thermospheric poleward wind surge at midlatitudes during great storm intervals. **2015**, 42, 5132-5140	49
1582	THE SOUTHERN ARGENTINA AGILE METEOR RADAR ORBITAL SYSTEM (SAAMER-OS): AN INITIAL SPORADIC METEOROID ORBITAL SURVEY IN THE SOUTHERN SKY. **2015**, 809, 36	33
1581	High-energy radiation belt electrons from CRAND. **2015**, 120, 2912-2917	15
1580	Assessing the performance of thermospheric modeling with data assimilation throughout solar cycles 23 and 24. **2015**, 13, 220-232	17
1579	Atmospheric neutrino flux calculation using the NRLMSISE-00 atmospheric model. **2015**, 92,	121
1578	Mechanisms underlying the prereversal enhancement of the vertical plasma drift in the low-latitude ionosphere. **2015**, 120, 4950-4970	53
1577	A new interhemispheric 16-moment model of the plasmasphere-ionosphere system: IPIM. **2015**, 120, 5728-5745	18
1576	Measurement and simulation of neutron monitor count rate dependence on surrounding structure. **2015**, 120, 5253-5265	20
1575	Virtual array beamforming of GPS TEC observations of coseismic ionospheric disturbances near the Geomagnetic South Pole triggered by teleseismic megathrusts. **2015**, 120, 9087-9101	8
1574	Diurnal variation of winter F region ionosphere for solar minimum at both Zhongshan Station, Antarctica, and Svalbard Station, Arctic. **2015**, 120, 9929-9942	2

1573	Semiannual and solar activity variations of daytime plasma observed by DEMETER in the ionosphere-plasmasphere transition region. **2015**, 120, 10,640-10,653	3
1572	Evidence for stratospheric sudden warming effects on the upper thermosphere derived from satellite orbital decay data during 1967–2013. **2015**, 42, 6180-6188	24
1571	Vibrational-vibrational and vibrational-thermal energy transfers of CO2 with N2 from MIPAS high-resolution limb spectra. **2015**, 120, 8002-8022	8
1570	Modeled and observed equatorial thermospheric winds and temperatures. **2015**, 120, 5832-5844	9
1569	A method to predict thermospheric mass density response to geomagnetic disturbances using time-integrated auroral electrojet index. **2015**, 120, 5746-5757	1
1568	Concurrent observations at the magnetic equator of small-scale irregularities and large-scale depletions associated with equatorial spread F. **2015**, 120, 10,883	5
1567	Ion upflow dependence on ionospheric density and solar photoionization. **2015**, 120, 10039-10052	12
1566	A fast, parameterized model of upper atmospheric ionization rates, chemistry, and conductivity. **2015**, 120, 4936-4949	11
1565	Interhemispheric asymmetry of the equatorial ionization anomaly in solstices observed by COSMIC during 2007–2012. **2015**, 120, 3059-3073	32
1564	Nighttime atomic oxygen in the mesopause region retrieved from SCIAMACHY O(1S) green line measurements and its response to solar cycle variation. **2015**, 120, 9057-9073	15
1563	Gravity wave propagation through a vertically and horizontally inhomogeneous background wind. **2015**, 120, 5931-5950	25
1562	Comparison of simulated and observed trapped and precipitating electron fluxes during a magnetic storm. **2015**, 42, 8302-8311	19
1561	An investigation comparing ground-based techniques that quantify auroral electron flux and conductance. **2015**, 120, 9038-9056	21
1560	MC-PEPTITA: A Monte Carlo model for Photon, Electron and Positron Tracking In Terrestrial Atmosphere—Application for a terrestrial gamma ray flash. **2015**, 120, 3970-3986	11
1559	Atmospheric Drag, Occultation and Ionospheric Scintillation (ADONIS) mission proposal. **2015**, 5, A2	
1558	Dynamics of density cavities generated by frictional heating: Formation, distortion, and instability. **2015**, 42, 10,120	17
1557	Studying the G condition occurrence in different latitudes under solar minimum: Observation and modeling. **2015**, 130-131, 132-141	2
1556	Electron–ion–neutral temperatures and their ratio comparisons over low latitude ionosphere. **2015**, 56, 2117-2129	1

1555	Far-field coseismic ionospheric disturbances of Tohoku earthquake. **2015**, 135, 12-21	10
1554	High order transfer maps for perturbed Keplerian motion. **2015**, 122, 333-358	9
1553	Seasonal variability in global eddy diffusion and the effect on neutral density. **2015**, 120, 3097-3117	16
1552	Ionospheric response to infrasonic-acoustic waves generated by natural hazard events. **2015**, 120, 8002-8024	51
1551	SAMI3/SD-WACCM-X simulations of ionospheric variability during northern winter 2009. **2015**, 13, 568-584	28
1550	Observations of a large-scale gravity wave propagating over an extremely large horizontal distance in the thermosphere. **2015**, 42, 6560-6565	11
1549	Modes of high-latitude auroral conductance variability derived from DMSP energetic electron precipitation observations: Empirical orthogonal function analysis. **2015**, 120, 11,013	28
1548	A simulation study of the thermosphere mass density response to substorms using GITM. **2015**, 120, 7987-8001	4
1547	The ionospheric responses to the 2011 Tohoku, 2012 Haida Gwaii, and 2010 Chile tsunamis: Effects of tsunami orientation and observation geometry. **2015**, 2, 472-483	19
1546	Economic impact and effectiveness of radiation protection measures in aviation during a ground level enhancement. **2015**, 5, A17	8
1545	A self-consistent model of helium in the thermosphere. **2015**, 120, 6884-6900	22
1544	A thermospheric Na layer event observed up to 140 km over Syowa Station (69.0°S, 39.6°E) in Antarctica. **2015**, 42, 3647-3653	23
1543	The collapse of the midnight ionosphere and behavior of meridional neutral winds at Townsville over a full solar cycle. **2015**, 120, 9826-9838	3
1542	Climatologies of nighttime thermospheric winds and temperatures from Fabry-Perot interferometer measurements: From solar minimum to solar maximum. **2015**, 120, 6679-6693	38
1541	Radiative transfer modeling of the OI 135.6´nm emission in the nighttime ionosphere. **2015**, 120, 10116-10135	22
1540	Ionospheric Electron Density Perturbations Driven by Seismic Tsunami-Excited Gravity Waves: Effect of Dynamo Electric Field. **2015**, 3, 1194-1226	5
1539	The auroral red line polarisation: modelling and measurements. **2015**, 5, A26	5
1538	Assimilation of real-time riometer measurements into models of 30´MHz polar cap absorption. **2015**, 5, A8	15

1537	DYNAMICAL METEOROLOGY | Atmospheric Tides. **2015**, 287-297	11
1536	A perspective on the fundamental quality of GPS radio occultation data. **2015**, 8, 4281-4294	6
1535	Effects of modeled ionospheric conductance and electron loss on self-consistent ring current simulations during the 5–7 April 2010 storm. **2015**, 120, 5355-5376	20
1534	Modeling the ionospheric impact of tsunami-driven gravity waves with SAMI3: Conjugate effects. **2015**, 42, 5719-5726	22
1533	Numerical model for computation of effective and ambient dose equivalent at flight altitudes. **2015**, 5, A10	19
1532	A model of high-latitude thermospheric density. **2015**, 120, 7903-7917	10
1531	Limited impact of escaping photoelectrons on the terrestrial polar wind flux in the polar cap. **2015**, 42, 3106-3113	7
1530	Effects of plasma drag on low Earth orbiting satellites due to solar forcing induced perturbations and heating. **2015**, 56, 47-56	11
1529	Thermospheric mass density: A review. **2015**, 56, 773-824	116
1528	Altitude and solar activity dependence of 1967–2005 thermospheric density trends derived from orbital drag. **2015**, 120, 2940-2950	66
1527	Analysis of planetary and solar-induced perturbations on trans-Martian trajectory of Mars missions before and after Mars orbit insertion. **2015**, 89, 1235-1245	5
1526	What solar and geomagnetic activities does F2-layer critical frequency median correspond to in midlatitudes?. **2015**, 55, 326-332	4
1525	Modeling of Na airglow emission and first results on the nocturnal variation at midlatitude. **2015**, 120, 10,945-10,958	1
1524	Latitudinal variations and altitude profiles of ionospheric parameters: Comparison of theoretical and empirical model results. **2015**, 9, 764-769	0
1523	Collinearity assessment of geocentre coordinates derived from multi-satellite SLR data. **2015**, 89, 1197-1216	3
1522	Time variable Earth's gravity field from SLR satellites. **2015**, 89, 945-960	43
1521	Analysis of Atmosphere-Breathing Electric Propulsion. **2015**, 43, 287-294	20
1520	Neural Network based calibration of atmospheric density models. **2015**, 110, 58-76	15

1519	Swarm equatorial electric field chain: First results. **2015**, 42, 673-680	31
1518	Long-term orbit prediction for Tiangong-1 spacecraft using the mean atmosphere model. **2015**, 55, 1432-1444	7
1517	A new technique for remote sensing of O2 density from 140 to 180 km. **2015**, 42, 233-240	3
1516	Long-term determination of energetic electron precipitation into the atmosphere from AARDDVARK subionospheric VLF observations. **2015**, 120, 2194-2211	24
1515	The International Reference Ionosphere Status 2013. **2015**, 55, 1914-1927	43
1514	Atmospheric Density Reconstruction Using Satellite Orbit Tomography. **2015**, 38, 685-698	30
1513	Substorm-induced energetic electron precipitation: Morphology and prediction. **2015**, 120, 2993-3008	25
1512	Modeling the interaction between convection and nonthermal ion outflows. **2015**, 120, 2353-2362	12
1511	A simulation study on the impact of altitudinal dependent vertical plasma drift on the equatorial ionosphere in the evening. **2015**, 120, 2918-2925	10
1510	Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. **2015**, 120, 2754-2766	95
1509	Night-time light ion transition height behaviour over the Kharkiv (50°N, 36°E) IS radar during the equinoxes of 20062010. **2015**, 132, 1-12	11
1508	Dependences of the NmF2 midlatitude statistical characteristics on the month of a year under geomagnetically quiet conditions near noon at low solar activity. **2015**, 55, 487-492	2
1507	Calibrating the scale of the NRLMSISE00 model during solar maximum using the two line elements dataset. **2015**, 56, 1-9	14
1506	Dynamics of vertical ionospheric inhomogeneities over Irkutsk during 06:0006:20UT 11/03/2011 caused by Tohoku earthquake. **2015**, 132, 106-115	10
1505	Optimal propellantless rendez-vous using differential drag. **2015**, 109, 112-123	25
1504	Launch and deployment of distributed small satellite systems. **2015**, 114, 65-78	36
1503	Ground-based IR observation of oxygen isotope ratios in Venus?s atmosphere. **2015**, 113-114, 292-297	5
1502	Contribution of proton and electron precipitation to the observed electron concentration in OctoberNovember 2003 and September 2005. **2015**, 33, 381-394	13

1501	The stratospheric arrival pair in infrasound propagation. **2015**, 137, 1846-56	25
1500	Modelling waveforms of infrasound arrivals from impulsive sources using weakly non-linear ray theory. **2015**, 200, 1347-1361	28
1499	Generation of a bending angle radio occultation climatology (BAROCLIM) and its use in radio occultation retrievals. **2015**, 8, 109-124	7
1498	Testing the gravitational interaction in the field of the Earth via satellite laser ranging and the Laser Ranged Satellites Experiment (LARASE). **2015**, 32, 155012	35
1497	Atomic oxygen retrievals in the MLT region from SCIAMACHY nightglow limb measurements. **2015**, 8, 1021-1041	16
1496	Investigation of energy transport and thermospheric upwelling during quiet magnetospheric and ionospheric conditions from the studies of low- and middle-altitude cusp. **2015**, 33, 623-635	2
1495	A Study of Atmospheric Temperature and Wind Profiles Obtained from Rocketsondes in the Chinese Midlatitude Region. **2015**, 32, 722-735	7
1494	Day-to-day variability and solar preconditioning of thermospheric temperature over Millstone Hill. **2015**, 120, 3913-3927	9
1493	A study of OI 844.6nm dayglow emission under geomagnetic storm conditions. **2015**, 55, 2526-2533	
1492	Characteristics and mechanisms of the annual asymmetry of thermospheric mass density. **2015**, 58, 540-550	6
1491	Geomagnetically conjugate observation of plasma bubbles and thermospheric neutral winds at low latitudes. **2015**, 120, 2222-2231	20
1490	Comparison of electron concentrations in the ionospheric E-layer maximum in spring conditions obtained by calculations and Moscow ionosonde measurements. **2015**, 55, 235-245	4
1489	Modeling the equatorial and low-latitude ionospheric response to an intense X-class solar flare. **2015**, 120, 3021-3032	20
1488	Interplanetary magnetic field and solar cycle dependence of Northern Hemisphere F region joule heating. **2015**, 120, 1478-1487	9
1487	The annual asymmetry in the F2 layer during deep solar minimum (2008–2009): December anomaly. **2015**, 120, 1341-1354	9
1486	Vertical evolution of potential energy density and vertical wave number spectrum of Antarctic gravity waves from 35 to 105 km at McMurdo (77.8°S, 166.7°E). **2015**, 120, 2719-2737	35
1485	Field-aligned neutral wind bias correction scheme for global ionospheric modeling at midlatitudes by assimilating FORMOSAT-3/COSMIC hmF2 data under geomagnetically quiet conditions. **2015**, 120, 3130-3149	17
1484	Radar observations of the Maribo fireball over Juliusruh: revised trajectory and meteoroid mass estimation. **2015**, 450, 1460-1464	10

1483	New 3-D simulations of climate change in the thermosphere. **2015**, 120, 2183-2193	30
1482	End-of-life disposal of high elliptical orbit missions: The case of INTEGRAL. **2015**, 56, 479-493	16
1481	Evidence of the formation of noctilucent clouds due to propagation of an isolated gravity wave caused by a tropospheric occluded front. **2015**, 42, 2037-2046	10
1480	Electrodynamics of the equatorial evening ionosphere: 1. Importance of winds in different regions. **2015**, 120, 2118-2132	32
1479	Multiday thermospheric density oscillations associated with variations in solar radiation and geomagnetic activity. **2015**, 120, 3829-3846	15
1478	Formation of sporadic-E (Es) layers under the influence of AGWs evolving in a horizontal shear flow. **2015**, 136, 163-173	6
1477	Orbit determination based on meteor observations using numerical integration of equations of motion. **2015**, 117, 223-235	23
1476	Long-term dynamic modeling of tethered spacecraft using nodal position finite element method and symplectic integration. **2015**, 123, 363-386	34
1475	Fundamental physics in the field of the Earth with the laser ranged satellites experiment (LARASE). **2015**,	4
1474	Releases of surgically deafened homing pigeons indicate that aural cues play a significant role in their navigational system. **2015**, 201, 983-1001	8
1473	Mean thermospheric density estimation derived from satellite constellations. **2015**, 56, 1645-1657	3
1472	Field-aligned currents influence on the ionospheric electric fields: Modification of the Upper Atmosphere model. **2015**, 9, 758-763	2
1471	Remote Sensing of Earth's Limb by TIMED/GUVI: Retrieval of thermospheric composition and temperature. **2015**, 2, 1-37	75
1470	An analysis of very short-arc orbit determination for low-Earth objects using sparse optical and laser tracking data. **2015**, 55, 617-629	15
1469	Ionosphere-thermosphere (IT) response to solar wind forcing during magnetic storms. **2016**, 6, A4	20
1468	Atmospheric Neutrino Flux Calculation with NRLMSISE-00 Atmosphere Model and New Cosmic Ray Observations. **2016**,	
1467	Winter Mesospheric Thermal Structure over Tibetan Plateau. **2016**, 119, 13010	0
1466	Effect of the solar activity variation on the Global Ionosphere Thermosphere Model (GITM). **2016**, 34, 725-736	5

1465	Feasibility study for reconstructing the spatial-temporal structure of TIDs from high-resolution backscatter ionograms. **2016**, 51, 443-453	4
1464	<i>D</i>-region ion–neutral coupled chemistry (Sodankylä Ion Chemistry, SIC) within the Whole Atmosphere Community Climate Model (WACCM 4) – WACCM-SIC and WACCM-rSIC. **2016**, 9, 3123-3136	7
1463	New temperature and pressure retrieval algorithm for high-resolution infrared solar occultation spectroscopy: analysis and validation against ACE-FTS and COSMIC. **2016**, 9, 1063-1082	3
1462	High-latitude ion temperature climatology during the International Polar Year 2007–2008. **2016**, 6, A35	2
1461	Interpretation of deformed ionograms induced by vertical ground motion of seismic Rayleigh waves and infrasound in the thermosphere. **2016**, 34, 271-278	7
1460	Improved forecasting of thermospheric densities using multi-model ensembles. **2016**, 9, 2279-2292	9
1459	Variations in Mesospheric Neutral Densities from Rayleigh Lidar Observations at Utah State University. **2016**, 119, 13006	1
1458	Early Temperatures Observed with the Extremely Sensitive Rayleigh Lidar at Utah State University. **2016**, 119, 13007	2
1457	Modulation of Atmospheric Nonisothermality and Wind Shears on the Propagation of Seismic Tsunami-Excited Gravity Waves. **2016**, 4, 4	1
1456	Atmospheric Layers in Response to the Propagation of Gravity Waves under Nonisothermal, Wind-shear, and Dissipative Conditions. **2016**, 4, 25	4
1455	Mesospheric gravity wave characteristics and identification of their sources around spring equinox over Indian low latitudes. **2016**, 9, 93-102	10
1454	Ionosonde tracking of infrasound wavefronts in the thermosphere launched by seismic waves after the 2010 M8.8 Chile earthquake. **2016**, 121, 2683-2692	15
1453	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. **2016**, 121, 579-594	22
1452	Model CRAC:EPII for atmospheric ionization due to precipitating electrons: Yield function and applications. **2016**, 121, 1736-1743	14
1451	Day-to-day variability in the thermosphere and its impact on plasmasphere refilling. **2016**, 121, 6889-6900	6
1450	The Propagation of Tsunami-Generated Acoustic–Gravity Waves in the Atmosphere. **2016**, 73, 3025-3036	6
1449	Thermospheric parameters long-term variations retrieved from ionospheric observations in Europe. **2016**, 121, 11,574-11,583	8
1448	Development of a data-verified ionospheric model with an ionosonde network. **2016**, 68, 1359-1370	3

1447	Including sheath effects in the interpretation of planar retarding potential analyzer's low-energy ion data. **2016**, 87, 043504	14
1446	Observation and modeling of gravity wave propagation through reflection and critical layers above Andes Lidar Observatory at Cerro Pach□, Chile. **2016**, 121, 12,737	8
1445	Properties of solar activity and ionosphere for solar cycle 25. **2016**, 56, 742-749	1
1444	Comparison between observation and simulation of sodium LGS return flux with a 20W CW laser on Tenerife. **2016**,	2
1443	. **2016**,	
1442	Geomagnetic activity that corresponds to the median of the F2-layer critical frequency at various latitudes. **2016**, 56, 572-576	3
1441	A theoretical investigation on the parametric instability excited by X-mode polarized electromagnetic wave at Troms□**2016**, 121, 3578-3591	6
1440	Monte Carlo simulation of the neutron monitor yield function. **2016**, 121, 7435-7448	25
1439	Midlatitude ionospheric changes to four great geomagnetic storms of solar cycle 23 in Southern and Northern Hemispheres. **2016**, 14, 1155-1171	4
1438	Non-thermal hydrogen atoms in the terrestrial upper thermosphere. **2016**, 7, 13655	18
1437	Rethinking the polar cap: Eccentric dipole structuring of ULF power at the highest corrected geomagnetic latitudes. **2016**, 121, 8475-8507	5
1436	On the fresh development of equatorial plasma bubbles around the midnight hours of June solstice. **2016**, 121, 9051-9062	31
1435	A model providing long-term data sets of energetic electron precipitation during geomagnetic storms. **2016**, 121, 12,520-12,540	42
1434	Ballistic Coefficient Estimation for Low Altitude Debris Objects from Two-Line Element Data. **2016**,	
1433	Orbit Information of Predetermined Accuracy and its Sharing in the SST Context. **2016**,	
1432	Neutron monitor yield function for solar neutrons: A new computation. **2016**, 121, 117-128	5
1431	A case study of long gravity wave crests in noctilucent clouds and their origin in the upper tropospheric jet stream. **2016**, 121, 14,102-14,116	12
1430	Alfv□ waves as a solar-interplanetary driver of the thermospheric disturbances. **2016**, 6, 18895	14

1429	Validation of Earth atmosphere models using solar EUV observations from the CORONAS and PROBA2 satellites in occultation mode. **2016**, 6, A7	2
1428	Modeling the interference environment in the HF band. **2016**, 51, 82-90	8
1427	Detection of regional infrasound signals using array data: Testing, tuning, and physical interpretation. **2016**, 140, 239	8
1426	A new source of the midlatitude ionospheric peak density structure revealed by a new Ionosphere-Plasmasphere model. **2016**, 43, 2429-2435	17
1425	An ionospheric assimilation model along a meridian plane. **2016**, 145, 125-135	
1424	Implications of the atmospheric density profile in the processing of fireball observations. **2016**, 120, 35-42	20
1423	Electron collisions in atmospheres. **2016**, 35, 297-351	52
1422	Tether Dynamics Analysis and Guidance and Control Design for Active Space-Debris Removal. **2016**, 39, 1232-1243	30
1421	Finite-difference numerical modelling of gravitoacoustic wave propagation in a windy and attenuating atmosphere. **2016**, 206, 308-327	8
1420	An Earth-grazing fireball from the Daytime Perseid shower observed over Spain on 2012 June 10. **2016**, 460, 917-922	7
1419	Long-term monthly statistics of mid-latitudinal NmF2 in the northern geographic hemisphere during geomagnetically quiet and steadily low solar activity conditions. **2016**, 142, 83-97	6
1418	Spacecraft Rendezvous by Differential Drag Under Uncertainties. **2016**, 39, 1721-1733	28
1417	Comparative Analysis of Satellite Aerodynamics and Its Application to Space-Object Identification. **2016**, 53, 876-886	1
1416	Ionospheric F2 region perturbed by the 25 April 2015 Nepal earthquake. **2016**, 121, 5778-5784	27
1415	Spacecraft relative guidance via spatio-temporal resolution in atmospheric density forecasting. **2016**, 129, 32-43	5
1414	foF2 long-term trend linked to Earth's magnetic field secular variation at a station under the northern crest of the equatorial ionization anomaly. **2016**, 121, 719-726	4
1413	Thermospheric mass density measurement from precise orbit ephemeris. **2016**, 7, 210-215	5
1412	Improving the twilight model for polar cap absorption nowcasts. **2016**, 14, 950-972	7

1411	Thermospheric atomic oxygen concentrations from WINDII O+(2P->2D) 732 nm emission: Comparisons with the NRLMSISE-00 and C-IAM models and with GUVI observations. **2016**, 147, 50-58	6
1410	Optimization of an orbital long-duration rendezvous mission. **2016**, 58, 482-489	8
1409	Intercalibration of neutral density measurements for mapping the thermosphere. **2016**, 121, 5975-5990	19
1408	Equatorial E region electric fields at the dip equator: 1. Variabilities in eastern Brazil and Peru. **2016** , 121, 10,220	6
1407	Comparison of F1 layer critical frequency between recent two solar minimums. **2016**, 121, 9090-9098	1
1406	Mesospheric ozone destruction by high-energy electron precipitation associated with pulsating aurora. **2016**, 121, 11,852-11,861	48
1405	Characteristics of mesospheric gravity waves over the southeastern Tibetan Plateau region. **2016**, 121, 9204-9221	10
1404	Measurements of general relativity precessions in the field of the Earth with laser-ranged satellites and the LARASE program. **2016**,	2
1403	Ionospheric total electron content: Spatial patterns of variability. **2016**, 121, 10,367-10,402	22
1402	Day-to-Day Variability of the Quiet-Time Plasmasphere Caused by Thermosphere Winds. **2016**, 235-241	
1401	Solar activity index for long-term ionospheric forecasts. **2016**, 54, 1-7	9
1400	Stochastic simulation of inner radiation belt electron decay by atmospheric scattering. **2016**, 121, 1249-1262	15
1399	How uncertainty in the neutral wind limits the accuracy of ionospheric modeling and forecasting. **2016**, 121, 519-528	5
1398	A directional HF noise model: Calibration and validation in the Australian region. **2016**, 51, 25-39	12
1397	IONONEST: A Bayesian approach to modeling the lower ionosphere. **2016**, 51, 1332-1349	1
1396	Multimodel comparison of the ionosphere variability during the 2009 sudden stratosphere warming. **2016**, 121, 7204-7225	26
1395	Production of cosmogenic isotopes 7Be, 10Be, 14C, 22Na, and 36Cl in the atmosphere: Altitudinal profiles of yield functions. **2016**, 121, 8125-8136	68
1394	The Tiny Ionospheric Photometer (TIP) on the Constellation Observing System for Meteorology, Ionosphere, and Climate (COSMIC/FORMOSAT-3). **2016**, 121, 10,614-10,622	7

1393	Can atomic oxygen production explain the ionospheric annual asymmetry?. **2016**, 121, 7238-7244	10
1392	Geomagnetic control of the midlatitude daytime foF1 and foF2 long-term variations: Physical interpretation using European observations. **2016**, 121, 7193-7203	14
1391	The interaction between infrasonic waves and gravity wave perturbations: Application to observations using UTTR Rocket Motor Fuel Elimination Events. **2016**, 121, 5585-5600	21
1390	The plasmasphere electron content paradox. **2016**, 121, 8924-8935	8
1389	The role of accelerometer data calibration within GRACE gravity field recovery: Results from ITSG-Grace2016. **2016**, 58, 1597-1609	53
1388	Altitudinal dependence of meteor radio afterglows measured via optical counterparts. **2016**, 43, 8885-8892	6
1387	foF2 vs solar indices for the Rome station: Looking for the best general relation which is able to describe the anomalous minimum between cycles 23 and 24. **2016**, 148, 13-21	26
1386	Spectral distribution of gravity wave momentum fluxes over the Antarctic Peninsula from Concordiasi superpressure balloon data. **2016**, 121, 7509-7527	6
1385	Effect of time-dependent 3-D electron density gradients on high angle of incidence HF radiowave propagation. **2016**, 51, 1131-1141	8
1384	Impacts of SABER CO2-based eddy diffusion coefficients in the lower thermosphere on the ionosphere/thermosphere. **2016**, 121, 12,080-12,092	19
1383	Dependence of the neutron monitor count rate and time delay distribution on the rigidity spectrum of primary cosmic rays. **2016**, 121, 11,620-11,636	22
1382	Simultaneous Measurements and Monthly Climatologies of Thermospheric Winds and Temperatures in the Peruvian and Brazilian Longitudinal Sectors. **2016**, 175-186	5
1381	Effect of Magnetic Declination on Equatorial Spread F Bubble Development. **2016**, 255-261	
1380	Determining the Longitude Dependence of Vertical E □B Drift Velocities Associated with the Four-Cell, Nonmigrating Tidal Structure. **2016**, 93-104	
1379	Comparative aeronomy: Molecular ionospheres at Earth and Mars. **2016**, 121, 10,269-10,288	6
1378	Joule heating hot spot at high latitudes in the afternoon sector. **2016**, 121, 7135-7152	6
1377	Where does the plasmasphere begin? Revisit to topside ionospheric profiles in comparison with plasmaspheric TEC from Jason-1. **2016**, 121, 10,091-10,102	5
1376	F2 region response to geomagnetic disturbances across Indian latitudes: O(1S) dayglow emission. **2016**, 121, 2595-2620	3

1375	Thermospheric hydrogen response to increases in greenhouse gases. **2016**, 121, 3545-3554	5
1374	Disturbance zonal and vertical plasma drifts in the Peruvian sector during solar minimum phases. **2016**, 121, 2503-2521	17
1373	Evidence and effects of the sunrise enhancement of the equatorial vertical plasma drift in the F region ionosphere. **2016**, 121, 4826-4834	15
1372	Quantifying the inversion accuracy of simplified physical models for the nighttime OI 135.6´nm emission. **2016**, 121, 5805-5814	7
1371	Gravity field models derived from Swarm GPS data. **2016**, 68,	21
1370	Neutral density estimation derived from meteoroid measurements using high-power, large-aperture radar. **2016**, 121, 8023-8037	1
1369	The strength and hemispheric asymmetry of Equatorial Ionization Anomaly during two geomagnetic storms in 2013 from Global Ionosphere Map and SAMI2. **2016**, 146, 101-109	4
1368	Chaotic Motion of a Reentry Capsule During Descent into the Atmosphere. **2016**, 39, 1834-1843	4
1367	Thermosphere variation at different altitudes over the northern polar cap during magnetic storms. **2016**, 146, 140-148	7
1366	The importance of neutral hydrogen for the maintenance of the midlatitude winter nighttime ionosphere: Evidence from IS observations at Kharkiv, Ukraine, and field line interhemispheric plasma model simulations. **2016**, 121, 7013-7025	11
1365	LSWS linked with the low-latitude Es and its implications for the growth of the R-T instability. **2016**, 121, 6986-7000	9
1364	Localized field-aligned currents in the polar cap associated with airglow patches. **2016**, 121, 10,172-10,189	13
1363	A two-dimensional global simulation study of inductive-dynamic magnetosphere-ionosphere coupling. **2016**, 121, 11,861	9
1362	Space-based imaging of nighttime medium-scale traveling ionospheric disturbances using FORMOSAT-2/ISUAL 630.0 nm airglow observations. **2016**, 121, 4769-4781	10
1361	Resonance vibrations of the Ross Ice Shelf and observations of persistent atmospheric waves. **2016** , 121, 10,157	10
1360	Influence of ion outflow in coupled geospace simulations: 1. Physics-based ion outflow model development and sensitivity study. **2016**, 121, 9671-9687	18
1359	Small-scale fluctuations in barium drifts at high latitudes and associated Joule heating effects. **2016**, 121, 779-789	6
1358	Parametric instability induced by X-mode wave heating at EISCAT. **2016**, 121, 10,536-10,548	7

1357	Advances in remote sensing of the daytime ionosphere with EUV airglow. **2016**, 121, 9284-9292	6
1356	A Combined Rotational Raman–Rayleigh Lidar for Atmospheric Temperature Measurements Over 5–80 km With Self-Calibration. **2016**, 54, 7055-7065	5
1355	FILTERING METEOROID FLIGHTS USING MULTIPLE UNSCENTED KALMAN FILTERS. **2016**, 152, 148	4
1354	New modes and mechanisms of thermospheric mass density variations from GRACE accelerometers. **2016**, 121, 11,191-11,212	26
1353	Influence of uncertainties of the empirical models for inferring the E-region electric fields at the dip equator. **2016**, 68,	9
1352	Change in turbopause altitude at 52 and 70° N. **2016**, 16, 2299-2308	10
1351	Intermittency of gravity wave momentum flux in the mesopause region observed with an all-sky airglow imager. **2016**, 121, 650-663	9
1350	MIPAS observations of longitudinal oscillations in the mesosphere and the lower thermosphere: climatology of odd-parity daily frequency modes. **2016**, 16, 11019-11041	3
1349	Atmospheric changes caused by galactic cosmic rays over the period 1960–2010. **2016**, 16, 5853-5866	20
1348	ECMWF SSW forecast evaluation using infrasound. **2016**, 121, 4637-4650	23
1347	Mathematical model for estimation of meteoroid dark flight trajectory. **2016**,	2
1346	Determining places of falling of launch vehicle fragments using infrasonic observations. **2016**, 52, 629-636	1
1345	Dynamic and Thermal Processes in the Mid-Latitude Ionosphere over Kharkov, Ukraine (49.6° N, 36.3° E), During the 13–15 November 2012 Magnetic Storm: Calculation Results. **2016**, 64, 2717-2733	1
1344	Ionospheric effects of magnetospheric and thermospheric disturbances on March 17–19, 2015. **2016**, 56, 557-571	14
1343	The vertical propagation of disturbances triggered by seismic waves of the 11 March 2011 M9.0 Tohoku earthquake over Taiwan. **2016**, 43, 1759-1765	40
1342	Measurement and modeling of the refilling plasmasphere during 2001. **2016**, 121, 2226-2248	12
1341	Estimation of mesopause temperatures at low latitudes using the Kunming meteor radar. **2016**, 51, 130-141	17
1340	Influence of Atmospheric Solar Radiation Absorption on Photodestruction of Ions at D-Region Altitudes of the Ionosphere. **2016**, 37, 811-844	5

1339	A multi-spacecraft formation approach to space debris surveillance. **2016**, 127, 491-504	21
1338	Aerodynamic resistance in upper atmosphere: case of the last stage Delta rocket fall in Argentina. **2016**, 35, 727-737	1
1337	LightForce photon-pressure collision avoidance: Efficiency analysis in the current debris environment and long-term simulation perspective. **2016**, 126, 411-423	11
1336	Spaceborne laser filamentation for atmospheric remote sensing. **2016**, 10, 481-493	26
1335	Photochemical response of the nighttime mesosphere to electric field heating: Recovery of electron density enhancements. **2016**, 43, 952-960	11
1334	Electrodynamic structure of the morning high-latitude trough region. **2016**, 121, 2669-2682	7
1333	Photochemical response of the nighttime mesosphere to electric field heating: Onset of electron density enhancements. **2016**, 121, 4782-4799	5
1332	First measurement of horizontal wind and temperature in the lower thermosphere (105–140 km) with a Na Lidar at Andes Lidar Observatory. **2016**, 43, 2374-2380	36
1331	Extending the SPeAD-M86 Model: Incorporating the Effects of F10.7 Variations on Atmospheric Density. **2016**,	
1330	Libration and transverse dynamic stability control of flexible bare electrodynamic tether systems in satellite deorbit. **2016**, 49, 112-129	23
1329	Contribution of cosmic ray particles to radiation environment at high mountain altitude: Comparison of Monte Carlo simulations with experimental data. **2016**, 153, 15-22	10
1328	On the polarization relations of diurnal and semidiurnal tide in the mesopause region. **2016**, 142, 60-71	8
1327	Sufficient conditions of Rayleigh-Taylor stability and instability in equatorial ionosphere. **2016**, 37, 181-192	3
1326	The IXV vehicle model identification subsystem: Off-line estimation framework. **2016**, 124, 118-131	
1325	Earth's Atmosphere. **2016**, 13-46	2
1324	Differential Drag-Based Reference Trajectories for Spacecraft Relative Maneuvering Using Density Forecast. **2016**, 53, 234-239	11
1323	Tether Dynamics Analysis for Active Space Debris Removal. **2016**,	2
1322	Libration Control of Bare Electrodynamic Tethers Considering Elastic-Thermal-Electrical Coupling. **2016**, 39, 642-654	26

1321	WINDII on UARS in the context of SCISAT and Odin. **2017**, 186, 40-51	1
1320	Temperature characteristics at altitudes of 5080 km with a self-calibrated Rayleigh-rotational Raman lidar: A summer case study. **2017**, 188, 94-102	8
1319	Development of a mobile Doppler lidar system for wind and temperature measurements at 30-70 km. **2017**, 188, 52-59	10
1318	The Special Sensor Ultraviolet Limb Imager instruments. **2017**, 122, 2674-2685	5
1317	On the contribution of thermal excitation to the total 630.0 nm emissions in the northern cusp ionosphere. **2017**, 122, 1234-1245	3
1316	Volcanic tremor and plume height hysteresis from Pavlof Volcano, Alaska. **2017**, 355, 45-48	43
1315	Observations of ion-neutral coupling associated with strong electrodynamic disturbances during the 2015 St. Patrick's Day storm. **2017**, 122, 1314-1337	36
1314	Data Analysis of Upper Atmosphere Temperature Detected by Sounding Rockets in China. **2017**, 34, 555-565	1
1313	Saturation effects of the lower ionosphere based on two-dimensional HF heating model. **2017**, 122, 874-890	1
1312	An optimal parametrization framework for infrasonic tomography of the stratospheric winds using non-local sources. **2017**, 208, 1557-1566	6
1311	The geocoronal responses to the geomagnetic disturbances. **2017**, 122, 1269-1276	17
1310	ANALYZING METEOROID FLIGHTS USING PARTICLE FILTERS. **2017**, 153, 87	8
1309	GPS detection of ionospheric Rayleigh wave and its source following the 2012 Haida Gwaii earthquake. **2017**, 122, 1360-1372	24
1308	Mesospheric temperatures estimated from the meteor radar observations at Mohe, China. **2017**, 122, 2249-2259	18
1307	Numerical modeling of a multiscale gravity wave event and its airglow signatures over Mount Cook, New Zealand, during the DEEPWAVE campaign. **2017**, 122, 846-860	29
1306	Anisotropic fluid modeling of ionospheric upflow: Effects of low-altitude anisotropy and thermospheric winds. **2017**, 122, 808-827	6
1305	Ionospheric effects of St. Patrick's storm over Asian Russia: 17-19 March 2015. **2017**, 122, 2484-2504	18
1304	Simultaneous upward and downward propagating inertia-gravity waves in the MLT observed at Andes Lidar Observatory. **2017**, 122, 2812-2830	10

1303	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. **2017**, 122, 2589-2604	13
1302	Seasonal variation of gravity wave parameters using different filter methods with daylight lidar measurements at midlatitudes. **2017**, 122, 2683-2695	16
1301	Parametric study of density cavities caused by ion outflow in the topside ionosphere. **2017**, 156, 37-49	2
1300	Traveling ionospheric disturbances over the United States induced by gravity waves from the 2011 Tohoku tsunami and comparison with gravity wave dissipative theory. **2017**, 122, 3430-3447	33
1299	International Reference Ionosphere 2016: From ionospheric climate to real-time weather predictions. **2017**, 15, 418-429	463
1298	Luminous efficiency estimates of meteors -I. Uncertainty analysis. **2017**, 143, 71-77	12
1297	Semi-empirical thermosphere model evaluation at low altitude with GOCE densities. **2017**, 7, A4	11
1296	Atmospheric dayglow diagnostics involving the O2(b-X) Atmospheric band emission: Global Oxygen and Temperature (GOAT) mapping. **2017**, 122, 3640-3649	8
1295	The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the low-latitude mesosphere. **2017**, 122, 5550-5567	3
1294	Formation mechanisms of neutral Fe layers in the thermosphere at Antarctica studied with a thermosphere-ionosphere Fe/Fe+ (TIFe) model. **2017**, 122, 6812-6848	25
1293	Modeling the daytime energy balance of the topside ionosphere at middle latitudes. **2017**, 122, 5733-5742	1
1292	Depletion of mesospheric sodium during extended period of pulsating aurora. **2017**, 122, 1212-1220	4
1291	Environmental effect of space debris repositioning. **2017**, 60, 28-37	4
1290	Estimation of ballistic coefficients of space debris using the ratios between different objects. **2017**, 30, 1204-1216	4
1289	Atmospheric scattering effects on ground-based measurements of thermospheric vertical wind, horizontal wind, and temperature. **2017**, 122, 7654-7669	12
1288	Meteor radar observations of vertically propagating low-frequency inertia-gravity waves near the southern polar mesopause region. **2017**, 122, 4777-4800	8
1287	Nonmigrating tidal impact on the CO2´15 μm infrared cooling of the lower thermosphere during solar minimum conditions. **2017**, 122, 6761-6775	5
1286	Energetic electron precipitation and auroral morphology at the substorm recovery phase. **2017**, 122, 6508-6527	11

1285	Hybrid simulations of coupled Farley-Buneman/gradient drift instabilities in the equatorial E region ionosphere. **2017**, 122, 5768-5781	4
1284	Space Applications. **2017**, 933-964	5
1283	The nonstorm time corrugated upper thermosphere: What is beyond MSIS?. **2017**, 15, 746-760	11
1282	Perigee Attitude Maneuvers of Geostationary Satellites During Electric Orbit Raising. **2017**, 40, 1978-1989	3
1281	Computational Modeling of Meteor-Generated Ground Pressure Signatures. **2017**,	
1280	Estimation of atmospheric parameters for determining dispersion ellipses of space rocket fragments. **2017**, 42, 299-304	
1279	Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea Anomaly. **2017**, 122, 6562-6583	14
1278	A study of the nonlinear response of the upper atmosphere to episodic and stochastic acoustic-gravity wave forcing. **2017**, 122, 1178-1198	12
1277	Numerical prediction of meteoric infrasound signatures. **2017**, 140, 11-20	4
1276	New density estimates derived using accelerometers on board the CHAMP and GRACE satellites. **2017**, 15, 558-576	61
1275	Thermosphere-Ionosphere-Electrodynamics General Circulation Model for the Ionospheric Connection Explorer: TIEGCM-ICON. **2017**, 212, 523-551	43
1274	The January 7, 2015, superbolide over Romania and structural diversity of meter-sized asteroids. **2017**, 143, 147-158	20
1273	Evaluation of the performance of ionospheric models at solar maximum using COSMIC slant TEC measurements. **2017**, 52, 378-388	2
1272	An exospheric temperature model from CHAMP thermospheric density. **2017**, 15, 343-351	7
1271	Possible Fengyun-1C debris fall. **2017**, 59, 2563-2571	
1270	Model simulations of ion and electron density profiles in ionospheric E and F regions. **2017**, 122, 2505-2529	4
1269	Model improvements and validation of TerraSAR-X precise orbit determination. **2017**, 91, 547-562	31
1268	Attitude coordination of multiple spacecraft for space debris surveillance. **2017**, 59, 1270-1288	6

1267	Middle atmosphere dynamical sources of the semiannual oscillation in the thermosphere and ionosphere. **2017**, 44, 12-21	34
1266	Variations of the meteor echo heights at Beijing and Mohe, China. **2017**, 122, 1117-1127	11
1265	Thermospheric density estimation and responses to the March 2013 geomagnetic storm from GRACE GPS-determined precise orbits. **2017**, 154, 167-179	16
1264	Observation of tsunami-generated ionospheric signatures over Hawaii caused by the 16 September 2015 Illapel earthquake. **2017**, 122, 1128-1136	8
1263	SAMI3-RCM simulation of the 17 March 2015 geomagnetic storm. **2017**, 122, 1246-1257	24
1262	Thermosphere Global Time Response to Geomagnetic Storms Caused by Coronal Mass Ejections. **2017**, 122, 10,762-10,782	23
1261	Global Ionospheric and Thermospheric Effects of the June 2015 Geomagnetic Disturbances: Multi-Instrumental Observations and Modeling. **2017**, 122, 11716-11742	38
1260	The Role of the Upper Atmosphere for Dawn-Dusk Differences in the Coupled Magnetosphere-Ionosphere-Thermosphere System. **2017**, 125-141	1
1259	SAMI3 ICON: MODEL OF THE IONOSPHERE/PLASMASPHERE SYSTEM. **2017**, 212, 731-742	12
1258	Space Launch Vehicle Design with Simultaneous Optimization of Thrust Profile and Trajectory. **2017**,	
1257	A study of the middle atmospheric thermal structure over western India: Satellite data and comparisons with models. **2017**, 60, 2402-2413	1
1256	Characteristics of Seasonal Variation and Solar Activity Dependence of the Geomagnetic Solar Quiet Daily Variation. **2017**, 122, 10,796-10,810	9
1255	Long-term variations of exospheric temperature inferred from foF1 observations: A comparison to ISR Ti trend estimates. **2017**, 122, 8883-8892	9
1254	Interplanetary Coronal Mass Ejection effects on thermospheric density as inferred from International Space Station orbital data. **2017**, 60, 2233-2251	2
1253	Equatorial Ionospheric Response to Different Estimated Disturbed Electric Fields as Investigated Using Sheffield University Plasmasphere Ionosphere Model at INPE. **2017**, 122, 10,511	4
1252	Aspect dependence of Langmuir parametric instability excitation observed by EISCAT. **2017**, 44, 9124-9133	3
1251	CEDAR-GEM Challenge for Systematic Assessment of Ionosphere/Thermosphere Models in Predicting TEC During the 2006 December Storm Event. **2017**, 15, 1238-1256	11
1250	Thermospheric mass density derived from CHAMP satellite precise orbit determination data based on energy balance method. **2017**, 60, 1495-1506	8

1249	Monte Carlo performance studies for the site selection of the Cherenkov Telescope Array. **2017**, 93, 76-85	28
1248	Observation and simulation of the ionosphere disturbance waves triggered by rocket exhausts. **2017**, 122, 8868-8882	8
1247	Medium-scale traveling ionospheric disturbances triggered by Super Typhoon Nepartak (2016). **2017**, 44, 7569-7577	30
1246	Concentric traveling ionospheric disturbances triggered by the launch of a SpaceX Falcon 9 rocket. **2017**, 44, 7578-7586	19
1245	Ionospheric electron heating associated with pulsating auroras: A Swarm survey and model simulation. **2017**, 122, 8781-8807	8
1244	Neutral wind and density perturbations in the thermosphere created by gravity waves observed by the TIDDBIT sounder. **2017**, 122, 6652-6678	9
1243	Locations Where Space Weather Energy Impacts the Atmosphere. **2017**, 212, 1041-1067	3
1242	A methodology for reduced order modeling and calibration of the upper atmosphere. **2017**, 15, 1270-1287	25
1241	Ionospheric-thermospheric UV tomography: 3. A multisensor technique for creating full-orbit reconstructions of atmospheric UV emission. **2017**, 52, 896-916	2
1240	Stationary depletions in thermospheric atomic oxygen concentration and mass density observed with WINDII, GUVI, GOCE and simulated by NRLMSISE-00. **2017**, 164, 29-38	4
1239	Numerical study of heating the upper atmosphere by acoustic-gravity waves from a local source on the Earth's surface and influence of this heating on the wave propagation conditions. **2017**, 164, 89-96	16
1238	Impact of M-solar flare-induced solar proton event on mesospheric Na layer over Utah (41.8°N,112°W). **2017**, 122, 8808-8815	1
1237	Nonlinear programming control using differential aerodynamic drag for CubeSat formation flying. **2017**, 18, 867-881	4
1236	Tsunami modeling with solid Earth□ocean□tmosphere coupled normal modes. **2017**, 211, 1119-1138	12
1235	Redistribution of H atoms in the upper atmosphere during geomagnetic storms. **2017**, 122, 10,686-10,693	12
1234	Modeling polar region atmospheric ionization induced by the giant solar storm on 20 January 2005. **2017**, 122, 7946-7955	3
1233	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. **2017**, 212, 383-408	63
1232	Evaluation of a method to derive ionospheric conductivities using two auroral emissions (428 and 630 ́nm) measured with a photometer at Troms□(69.6°N). **2017**, 69,	3

1231	Ionospheric-thermospheric UV tomography: 2. Comparison with incoherent scatter radar measurements. **2017**, 52, 357-366	5
1230	Space Dust Collisions as a Planetary Escape Mechanism. **2017**, 17, 1274-1282	12
1229	Nonlinear Gravity Wave Forcing as a Source of Acoustic Waves in the Mesosphere, Thermosphere, and Ionosphere. **2017**, 44, 12,020-12,027	10
1228	Airglow in the Earth atmosphere: basic characteristics and excitation mechanisms. **2017**, 3, 1	6
1227	Refinement of bolide characteristics from infrasound measurements. **2017**, 143, 169-181	7
1226	Global modeling of thermospheric airglow in the far ultraviolet. **2017**, 122, 7834-7848	42
1225	The MIGHTI Wind Retrieval Algorithm: Description and Verification. **2017**, 212, 585-600	39
1224	Spread F modeling over Brazil. **2017**, 161, 98-104	1
1223	Study of high energy phenomena from near space using low-cost meteorological balloons. **2017**, 43, 311-338	5
1222	Results of the first continuous meteor head echo survey at polar latitudes. **2017**, 297, 1-13	21
1221	Sentinel-1A First precise orbit determination results. **2017**, 60, 879-892	49
1220	Bayesian Inference of Nongravitational Perturbations from Satellite Observations. **2017**, 40, 1231-1240	0
1219	Propulsion options for very low Earth orbit microsatellites. **2017**, 133, 444-454	31
1218	Propagation of atmospheric density errors to satellite orbits. **2017**, 59, 147-165	22
1217	Global climatology based on the ACE-FTS version 3.5 dataset: Addition of mesospheric levels and carbon-containing species in the UTLS. **2017**, 186, 52-62	19
1216	Study of atomic oxygen greenline dayglow emission in thermosphere during geomagnetic storm conditions. **2017**, 59, 302-310	6
1215	An Idealized Method of Simulating Residual Ionospheric Errors in Radio Occultation. **2017**, 7, 16632	0
1214	Equatorward propagating auroral arcs driven by ULF wave activity: Multipoint ground- and space-based observations in the dusk sector auroral oval. **2017**, 122, 5591-5605	14

1213	Observations of Dramatic Enhancements to the Mesospheric K Layer. **2017**, 44, 12,536	5
1212	Removal of Large Space Debris by a Tether Tow. **2017**, 255-356	1
1211	Vertical Thermospheric Density Profiles From EUV Solar Occultations Made by PROBA2 LYRA for Solar Cycle 24. **2017**, 15, 1649-1660	6
1210	Polarimetric Analysis of the Long Duration Gamma-Ray Burst GRB 160530A With the Balloon Borne Compton Spectrometer and Imager. **2017**, 848, 119	15
1209	Calculating the absorption of HF radio waves in the ionosphere. **2017**, 52, 767-783	26
1208	Long-term variations of the upper atmosphere parameters on Rome ionosonde observations and their interpretation. **2017**, 7, A21	6
1207	Ecliptic North-South Symmetry of Hydrogen Geocorona. **2017**, 44, 11,706-11,712	19
1206	Constraining Balmer Alpha Fine Structure Excitation Measured in Geocoronal Hydrogen Observations. **2017**, 122, 10,727-10,747	3
1205	Short-period mesospheric gravity waves and their sources at the South Pole. **2017**, 17, 911-919	9
1204	A Numerical Investigation on Tidal and Gravity Wave Contributions to the Summer Time Na Variations in the Midlatitude E Region. **2017**, 122, 10,577	19
1203	Estimation of the Tropospheric Wet Delay of Radio waves Based on a Model and Microwave Radiometry Data. **2017**, 60, 200-206	0
1202	Improvement and verification of satellite dynamics simulator based on flight data analysis. **2017**,	4
1201	Simulation of Internal Gravity Wave Propagation Due to Sudden Stratospheric Warming. **2017**, 11, 1028-1032	1
1200	Exceptionally strong summer-like zonal wind reversal in the upper mesosphere during winter 2015/16. **2017**, 35, 711-720	38
1199	Spatial and temporal variability in MLT turbulence inferred from in situ and ground-based observations during the WADIS-1 sounding rocket campaign. **2017**, 35, 547-565	14
1198	Site Characterization of the Northern Site of the Cherenkov Telescope Array. **2017**, 144, 01010	3
1197	Comparison of the GOSAT TANSO-FTS TIR CH₄ volume mixing ratio vertical profiles with those measured by ACE-FTS, ESA MIPAS, IMK-IAA MIPAS, and 16 NDACC stations. **2017**, 10, 3697-3718	8
1196	A numerical code for the simulation of non-equilibrium chemically reacting flows on hybrid CPU-GPU clusters. **2017**,	3

1195	Magnetic ripples observed by Swarm satellites and their enhancement during typhoon activity. **2017**, 69,	6
1194	Autonomously Blended Passive and Active control for a CubeSat-class science mission. **2017**,	
1193	High-Latitude Neutral Mass Density Maxima. **2017**, 122, 10,694	7
1192	Unusual behavior of quiet-time zonal and vertical plasma drift velocities over Jicamarca during the recent extended solar minimum of 2008. **2017**, 35, 1219-1229	3
1191	Climatology of thermospheric neutral winds over Oukaïmeden Observatory in Morocco. **2017**, 35, 161-170	16
1190	Reentry Attitude Dynamics. **2017**, 25-125	
1189	Solar forcing for CMIP6 (v3.2). **2017**, 10, 2247-2302	199
1188	Retrieval of nitric oxide in the mesosphere from SCIAMACHY nominal limb spectra. **2017**, 10, 209-220	4
1187	Pitch Angle Dependence of Energetic Electron Precipitation: Energy Deposition, Backscatter, and the Bounce Loss Cone. **2018**, 123, 2412	12
1186	Atmospheric density determination using high-accuracy satellite GPS data. **2018**, 61, 204-211	2
1185	Neoclassical Diffusion of Radiation-Belt Electrons Across Very Low L-Shells. **2018**, 123, 2884-2901	16
1184	Coupled nature of evening-time ionospheric electrodynamics. **2018**, 363, 1	
1183	Multistage Angular Momentum Management for Space Station Attitude Control. **2018**, 6, 15075-15086	1
1182	Daytime O/N Retrieval Algorithm for the Ionospheric Connection Explorer (ICON). **2018**, 214, 1	11
1181	Ionosphere and Thermosphere Responses to Extreme Geomagnetic Storms. **2018**, 493-511	2
1180	How Might the Thermosphere and Ionosphere React to an Extreme Space Weather Event?. **2018**, 513-539	3
1179	Aerosols and seismo-ionosphere coupling: A review. **2018**, 171, 83-93	9
1178	HDMR-Based Sensitivity Analysis and Uncertainty Quantification of GOCE Aerodynamics Using DSMC. **2018**, 301-323	0

1177	. **2018**, 106, 484-495	10
1176	High-Latitude Neutral Density Structures Investigated by Utilizing Multi-Instrument Satellite Data and NRLMSISE-00 Simulations. **2018**, 123, 1663-1677	1
1175	A Comparative Study of Spectral Auroral Intensity Predictions From Multiple Electron Transport Models. **2018**, 123, 993-1005	11
1174	Surface waves magnitude estimation from ionospheric signature of Rayleigh waves measured by Doppler sounder and OTH radar. **2018**, 8, 1555	8
1173	Origins of the Thermosphere-Ionosphere Semiannual Oscillation: Reformulating the Thermospheric Spoon Mechanism. **2018**, 123, 931-954	24
1172	Gigantic Circular Shock Acoustic Waves in the Ionosphere Triggered by the Launch of FORMOSAT-5 Satellite. **2018**, 16, 172-184	12
1171	Investigation of the Electron Density Variation During the 21 August 2017 Solar Eclipse. **2018**, 45, 1253-1261	19
1170	Tsunami Wave Height Estimation from GPS-Derived Ionospheric Data. **2018**, 123, 4329-4348	18
1169	Incorporating Solar Activity into General Perturbation Analysis of Atmospheric Friction. **2018**, 41, 1320-1336	2
1168	Effects of space weather on the ionosphere and LEO satellites orbital trajectory in equatorial, low and middle latitude. **2018**, 61, 1880-1889	5
1167	Ionospheric Bow Wave Induced by the Moon Shadow Ship Over the Continent of United States on 21 August 2017. **2018**, 45, 538-544	26
1166	The Unknown Hydrogen Exosphere: Space Weather Implications. **2018**, 16, 205-215	13
1165	Analysis of Uncertainties and Modeling in Short-Term Reentry Predictions. **2018**, 41, 1276-1289	6
1164	Storm Time Variation of Radiative Cooling by Nitric Oxide as Observed by TIMED-SABER and GUVI. **2018**, 123, 1500-1514	7
1163	Luminous Efficiency Estimates of Meteors. II. Application to Canadian Automated Meteor Observatory Meteor Events. **2018**, 155, 88	15
1162	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. **2018**, 123, 1006-1017	13
1161	Conceptual Design of an Air-Breathing Electric Thruster for CubeSat Applications. **2018**, 55, 632-639	8
1160	Causes of the mid-latitudinal daytime NmF2 semi-annual anomaly at solar minimum. **2018**, 169, 6-15	2

1159	Effect of geomagnetic storm conditions on the equatorial ionization anomaly and equatorial temperature anomaly. **2018**, 168, 8-20	3
1158	June Solstice Equatorial Spread F in the American Sector: A Numerical Assessment of Linear Stability Aided by Incoherent Scatter Radar Measurements. **2018**, 123, 755-767	7
1157	Uncertainty propagation for statistical impact prediction of space debris. **2018**, 61, 167-181	7
1156	Modeling of the Ionospheric Current System and Calculating Its Contribution to the Earth Magnetic Field. **2018**, 263-292	1
1155	Relative positioning of formation-flying spacecraft using single-receiver GPS carrier phase ambiguity fixing. **2018**, 22, 1	6
1154	Effects of Uncertainties in the Atmospheric Density on the Probability of Collision Between Space Objects. **2018**, 16, 519-537	23
1153	Evolution of Field-Aligned Electron and Ion Densities From Whistler Mode Radio Soundings During Quiet to Moderately Active Period and Comparisons With SAMI2 Simulations. **2018**, 123, 1356-1380	2
1152	Estimation of Mesospheric Densities at Low Latitudes Using the Kunming Meteor Radar Together With SABER Temperatures. **2018**, 123, 3183-3195	9
1151	High- and Middle-Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. **2018**, 45, 436-444	20
1150	Effects of Uncertainties in Electric Field Boundary Conditions for Ring Current Simulations. **2018**, 123, 638-652	7
1149	How Often Do Thermally Excited 630.0 nm Emissions Occur in the Polar Ionosphere?. **2018**, 123, 698-710	4
1148	Evidence for Radiative Recombination of O+ Ions as a Significant Source of O 844.6 nm Emission Excitation. **2018**, 123, 3078-3086	
1147	Responses of Solar Irradiance and the Ionosphere to an Intense Activity Region. **2018**, 123, 2116	5
1146	A New Method of Physics-Based Data Assimilation for the Quiet and Disturbed Thermosphere. **2018**, 16, 736-753	33
1145	Partially Ionized Plasmas in Astrophysics. **2018**, 214, 1	61
1144	Temporal evolution of the EIA along 95°E as obtained from GNSS TEC measurements and SAMI3 model. **2018**, 61, 2837-2853	3
1143	System analysis and test-bed for an atmosphere-breathing electric propulsion system using an inductive plasma thruster. **2018**, 147, 114-126	27
1142	On the Occurrence of Afternoon Counter Electrojet Over Indian Longitudes During June Solstice in Solar Minimum. **2018**, 123, 2204	5

1141	Using the attitude response of aerostable spacecraft to measure thermospheric wind. **2018**, 10, 101-113	3
1140	Recent developments in the understanding of equatorial ionization anomaly: A review. **2018**, 171, 3-11	28
1139	On the importance of an atmospheric reference model: A case study on gravity wave-airglow interactions. **2018**, 171, 260-268	3
1138	Precise orbit determination of the Sentinel-3A altimetry satellite using ambiguity-fixed GPS carrier phase observations. **2018**, 92, 711-726	59
1137	Calibration and Validation of Swarm Plasma Densities and Electron Temperatures Using Ground-Based Radars and Satellite Radio Occultation Measurements. **2018**, 53, 15-36	48
1136	Simultaneous lidar observation of peculiar sporadic K and Na layers at S□ Jos□dos Campos (23.1°S, 45.9°W), Brazil. **2018**, 61, 1942-1951	2
1135	. **2018**, 2, 13-24	3
1134	Retrieval of Lower Thermospheric Temperatures from O A Band Emission: The MIGHTI Experiment on ICON. **2018**, 214, 1	17
1133	Optimal Earth□ reentry disposal of the Galileo constellation. **2018**, 61, 1097-1120	12
1132	VLBI observations to the APOD satellite. **2018**, 61, 823-829	4
1131	Ion production and ionization effect in the atmosphere during the Bastille day GLE 59 due to high energy SEPs. **2018**, 61, 316-325	8
1130	A Seismo-Acoustic Analysis of the 2017 North Korean Nuclear Test. **2018**, 89, 2025-2033	17
1129	Observations of Spatial Variations in O/N2 During an Auroral Substorm Using the Multichannel Downlooking Camera on the VISIONS Rocket. **2018**, 123, 7089-7105	
1128	Simultaneous Rayleigh-Scatter and Sodium Resonance Lidar Temperature Comparisons in the Mesosphere-Lower Thermosphere. **2018**, 123, 10,688	4
1127	Seismo-Ionospheric Observations, Modeling, and Backprojection of the 2016 Kaik¯ □ra Earthquake. **2018**, 108, 1794-1806	14
1126	Detailed Analysis of Aerodynamic Effect on Small Satellites. **2018**, 16, 432-440	
1125	Features of the formation of regions with enhanced electron temperature in the subauroral ionosphere in different periods of solar activity. **2018**,	
1124	Lidar temperature series in the middle atmosphere as a reference data set □Part 1: Improved retrievals and a 20-year cross-validation of two co-located French lidars. **2018**, 11, 5531-5547	17

1123	The European Infrasound Bulletin. **2018**, 175, 3619-3638	14
1122	Aspect Dependence of Parametric Instability Excitation by X-mode at EISCAT. **2018**,	
1121	Evaluating Different Techniques for Constraining Lower Atmospheric Variability in an Upper Atmosphere General Circulation Model: A Case Study During the 2010 Sudden Stratospheric Warming. **2018**, 10, 3076	6
1120	Dynamic Initialization for Whole Atmospheric Global Modeling. **2018**, 10, 2096-2120	4
1119	Continuous Doppler sounding of the ionosphere during solar flares. **2018**, 70,	4
1118	Comparison of rayleigh-scatter and sodium resonance lidar temperatures. **2018**, 176, 03005	
1117	Ionospheric Conductance Spatial Distribution During Geomagnetic Field Reversals. **2018**, 123, 2379	3
1116	Review of the generation mechanisms of post-midnight irregularities in the equatorial and low-latitude ionosphere. **2018**, 5,	34
1115	The MUSCLES Treasury Survey. V. FUV Flares on Active and Inactive M Dwarfs. **2018**, 867, 71	53
1114	First Time Estimation of Thermospheric Neutral Density Profiles From Seed Perturbations of ESF Triggering: A Novel Evidence for Ionosphere Thermosphere Coupling. **2018**, 123, 10,254	
1113	Inversion of Meteor Rayleigh Waves on Earth and Modeling of Air Coupled Rayleigh Waves on Mars. **2018**, 214, 1	4
1112	Snakes on a Spaceship□An Overview of Python in Heliophysics. **2018**, 123, 10,384	11
1111	Review and comparison of empirical thermospheric mass density models. **2018**, 103, 31-51	12
1110	Variations of the 630.0 nm airglow emission with meridional neutral wind and neutral temperature around midnight. **2018**, 36, 1471-1481	2
1109	Modulation of Low-Altitude Ionospheric Upflow by Linear and Nonlinear Atmospheric Gravity Waves. **2018**, 123, 7650-7667	3
1108	A New Method to Retrieve Thermospheric Parameters From Daytime Bottom-Side Ne(h) Observations. **2018**, 123, 10,200-10,212	11
1107	Understanding the Global Variability in Thermospheric Nitric Oxide Flux Using Empirical Orthogonal Functions (EOFs). **2018**, 123, 4150-4170	17
1106	A Numerical Study of Gravity Wave Propagation Characteristics in the Stratospheric Thermal Duct. **2018**, 123, 11,918-11,937	1

1105	Numerical simulation of oblique ionospheric heating by powerful radio waves. **2018**, 36, 855-866	2
1104	Nonparametric H Density Estimation Based on Regularized Nonlinear Inversion of the Lyman Alpha Emission in Planetary Atmospheres. **2018**, 123, 8641-8648	4
1103	Multiinstrument Studies of Thermospheric Weather Above Alaska. **2018**, 123, 9836-9861	8
1102	Characteristics of infrasound signals from North Korean underground nuclear explosions on 2016 January 6 and September 9. **2018**, 214, 1865-1885	12
1101	The First Comparison Between Swarm-C Accelerometer-Derived Thermospheric Densities and Physical and Empirical Model Estimates. **2018**, 123, 5068-5086	6
1100	Retrieval of atmospheric mass densities in lower thermosphere below 200 km from precise orbit of re-entry object CZ-3B R/B by analytical and numerical methods. **2018**, 363, 1	
1099	An Updated Model Providing Long-Term Data Sets of Energetic Electron Precipitation, Including Zonal Dependence. **2018**, 123, 9891-9915	27
1098	Comparison of the Thermospheric Nitric Oxide Emission Observations and the GITM Simulations: Sensitivity to Solar and Geomagnetic Activities. **2018**, 123, 10,239	4
1097	A Comparison Study of NO Cooling Between TIMED/SABER Measurements and TIEGCM Simulations. **2018**, 123, 8714-8729	17
1096	An empirical model of the thermospheric mass density derived from CHAMP satellite. **2018**, 36, 1141-1152	4
1095	Density disturbance of small-scale field-aligned irregularities in the ionosphere heating experiments. **2018**, 20, 125001	
1094	Detection of Impact Points of Fragments of Spent Launch Vehicle Stages Using Infrasound Direction-Finding Methods. **2018**, 54, 387-400	
1093	Unusual Generation of Localized EPB in the Dawn Sector Triggered by a Moderate Geomagnetic Storm. **2018**, 123, 9697-9710	6
1092	Long-Term Distribution of Meteors in a Solar Cycle Period Observed by VHF Meteor Radars at Near-Equatorial Latitudes. **2018**, 123, 10,403	2
1091	On the short-term variability of turbulence and temperature in the winter mesosphere. **2018**, 36, 1099-1116	0
1090	Calibration of GRACE Accelerometers Using Two Types of Reference Accelerations. **2018**, 97-104	
1089	Ionospheric O+ Momentum Balance Through Charge Exchange With Thermospheric O Atoms. **2018**, 123, 9743-9761	5
1088	Photocurrent modelling and experimental confirmation for meteoric smoke particle detectors on board atmospheric sounding rockets. **2018**, 11, 5299-5314	1

1087	Correlations Between the Thermosphere's Semiannual Density Variations and Infrared Emissions Measured With the SABER Instrument. **2018**, 123, 8850-8864	11
1086	Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. **2018**, 16, 1686-1701	16
1085	Sino-InSpace: A Digital Simulation Platform for Virtual Space Environments. **2018**, 7, 373	2
1084	Upper atmospheres of terrestrial planets: Carbon dioxide cooling and the Earth thermospheric evolution. **2018**, 617, A107	32
1083	Dark Matter that Interacts with Baryons: Density Distribution within the Earth and New Constraints on the Interaction Cross-section. **2018**, 866, 111	10
1082	Modelling the measurement accuracy of pre-atmosphere velocities of meteoroids. **2018**, 479, 4307-4319	22
1081	Space Weather Modeling Capabilities Assessment: Neutral Density for Orbit Determination at low Earth orbit. **2018**, 16, 1806-1816	16
1080	Effective Computational Approach for Prediction and Estimation of Space Object Breakup Dispersion during Uncontrolled Reentry. **2018**, 2018, 1-16	1
1079	Extreme geomagnetic and optical disturbances over Irkutsk during the 2003 November 20 superstorm. **2018**, 181, 68-78	12
1078	Over-The-Horizon Radar (OTHR) In Canada. **2018**,	2
1077	Toward development of the energetic particle radiation nowcast model for assessing the radiation environment in the altitude range from that used by the commercial aviation in the troposphere to LEO, MEO, and GEO. **2018**,	1
1076	Mesoscale F Region Neutral Winds Associated With Quasi-steady and Transient Nightside Auroral Forms. **2018**, 123, 7968-7984	13
1075	Major upwelling and overturning in the mid-latitude F region ionosphere. **2018**, 9, 3326	19
1074	Modeling of Atmospheric Tides with Account of Diurnal Variations of Ionospheric Conductivity. **2018**, 12, 576-589	5
1073	Radiation Belt Slot Region Filling Events: Sustained Energetic Precipitation Into the Mesosphere. **2018**, 123, 7999-8020	10
1072	Spatial and Temporal Response of Equatorial Ionization Anomaly to the 17 March 2015 Storm from Global Ionosphere Map. **2018**, 23, 429-437	1
1071	Mars Thermospheric Variability Revealed by MAVEN EUVM Solar Occultations: Structure at Aphelion and Perihelion and Response to EUV Forcing. **2018**, 123, 2248-2269	17
1070	Influence of Solar Activity on Penetration of Traveling Planetary-Scale Waves From the Troposphere Into the Thermosphere. **2018**, 123, 6888-6903	8

1069	Storm Time Total Electron Content Modeling Over African Low-Latitude and Midlatitude Regions. **2018**, 123, 7889-7905	7
1068	High-Frequency Over-the-Horizon Radar in Canada. **2018**, 15, 1700-1704	14
1067	Reply to Comment by Zhang et al. on the Paper Long-Term Variations of Exospheric Temperature Inferred From foF1 Observations: A Comparison to ISR Ti Trend Estimates by Perrone and Mikhailov. **2018**, 123, 8895-8907	5
1066	Investigation of the Causes of the Longitudinal and Solar Cycle Variation of the Electron Density in the Bering Sea and Weddell Sea Anomalies. **2018**, 123, 7825-7842	5
1065	The Global Numerical Model of the Earth's Upper Atmosphere. **2018**,	0
1064	Mechanisms for varying non-LTE contributions to OH rotational temperatures from measurements and modelling. II. Kinetic model. **2018**, 175, 100-119	5
1063	Comments on Long-Term Variations of Exospheric Temperature Inferred From foF1 Observations: A Comparison to ISR Ti Trend Estimates by Perrone and Mikhailov. **2018**, 123, 4467-4473	6
1062	Assessment of infrasound signals recorded on seismic stations and infrasound arrays in the western United States using ground truth sources. **2018**, 213, 1608-1628	3
1061	High-Latitude Observations of a Localized Wind Wall and Its Coupling to the Lower Thermosphere. **2018**, 45, 4586-4593	6
1060	Upper Atmosphere Heating From Ocean-Generated Acoustic Wave Energy. **2018**, 45, 5144-5150	8
1059	Updated SABER Night Atomic Oxygen and Implications for SABER Ozone and Atomic Hydrogen. **2018**, 45, 5735-5741	25
1058	Observation of Kelvin Helmholtz instabilities and gravity waves in the summer mesopause above Andenes in Northern Norway. **2018**, 18, 6721-6732	12
1057	Latitude-dependent delay in the responses of the equatorial electrojet and <i>S</i>_{<i>q</i>} currents to X-class solar flares. **2018**, 36, 139-147	2
1056	Neutralized solar wind ahead of the Earth's magnetopause as contribution to non-thermal exospheric hydrogen. **2018**, 36, 445-457	3
1055	Seasonal variations of thermospheric mass density at dawn/dusk from GOCE observations. **2018**, 36, 489-496	8
1054	Time-variable gravity fields and ocean mass change from 37 months of kinematic Swarm orbits. **2018**, 9, 323-339	28
1053	The edge of space: Revisiting the Karman Line. **2018**, 151, 668-677	14
1052	The frequency of window damage caused by bolide airbursts: A quarter century case study. **2018**, 53, 1413-1431	4

1051	Retrieval of O₂(¹Δ)and O₂(¹Δ)volume emission rates in the mesosphere and lower thermosphere using SCIAMACHY MLT limb scans. **2018**, 11, 473-487	4
1050	New insights for mesospheric OH: multi-quantum vibrational relaxation as a driver for non-local thermodynamic equilibrium. **2018**, 36, 13-24	9
1049	Simultaneous 6300 Åairglow and radar observations of ionospheric irregularities and dynamics at the geomagnetic equator. **2018**, 36, 473-487	10
1048	Polar Topside Ionosphere During Geomagnetic Storms: Comparison of ISIS-II With TDIM. **2018**, 53, 906-920	
1047	Study on command attitude law for refracted starlight observation in SINS/RCNS integrated navigation. **2018**, 62, 721-731	2
1046	Derivation of the Energy and Flux Morphology in an Aurora Observed at Midlatitude Using Multispectral Imaging. **2018**, 123, 4257-4271	5
1045	Aerodynamics in Low LEO: A Novel Approach to Modeling Air Density Based on IGS TEC Maps. **2018**, 111-130	0
1044	Auroral ionospheric E region parameters obtained from satellite-based far ultraviolet and ground-based ionosonde observations: 1. Data, methods, and comparisons. **2018**, 123, 6065-6089	7
1043	Self-Consistent Modeling of Electron Precipitation and Responses in the Ionosphere: Application to Low-Altitude Energization During Substorms. **2018**, 45, 6371-6381	12
1042	Ionospheric Disturbances Triggered by SpaceX Falcon Heavy. **2018**, 45, 6334-6342	8
1041	IPIM Modeling of the Ionospheric F2 Layer Depletion at High Latitudes During a High-Speed Stream Event. **2018**, 123, 7051-7066	5
1040	FIRI-2018, an Updated Empirical Model of the Lower Ionosphere. **2018**, 123, 6737-6751	18
1039	Photometric Data from Nonresolved Objects for Improved Drag and Reentry Prediction. **2018**, 55, 959-970	1
1038	Empirical values of branching ratios in the three-body recombination reaction for O(1S) and O2(0,0) airglow chemistry. **2018**, 62, 2679-2691	6
1037	Lidar Observations of Stratospheric Gravity Waves From 2011 to 2015 at McMurdo (77.84°S, 166.69°E), Antarctica: 2. Potential Energy Densities, Lognormal Distributions, and Seasonal Variations. **2018**, 123, 7910-7934	20
1036	Propagation of non-stationary acoustic-gravity waves at thermospheric temperatures corresponding to different solar activity. **2018**, 172, 100-106	6
1035	Electron Energy Spectrum and Auroral Power Estimation From Incoherent Scatter Radar Measurements. **2018**, 123, 6865-6887	3
1034	Seasonal Propagation Characteristics of MSTIDs Observed at High Latitudes Over Central Alaska Using the Poker Flat Incoherent Scatter Radar. **2018**, 123, 5717-5737	7

1033	Long-Term Validation of TerraSAR-X and TanDEM-X Orbit Solutions with Laser and Radar Measurements. **2018**, 10, 762	14
1032	Semianalytical Estimation of Energy Deposition in the Ionosphere by Monochromatic Alfvẽn Waves. **2018**, 123, 5210-5222	8
1031	Coupling of semiannual and annual variations in the SuperMAG SML and SMU indices. **2018**, 158, 87-95	2
1030	The Dingle Dell meteorite: A Halloween treat from the Main Belt. **2018**, 53, 2212-2227	21
1029	Longitudinal Structure of the Midlatitude Ionosphere Using COSMIC Electron Density Profiles. **2018**, 123, 8766-8777	9
1028	Summer Noontime hmF2 Long-Term Trends Inferred From foF1 and foF2 Ionosonde Observations in Europe. **2018**, 123, 6703-6713	4
1027	Theory, modeling, and integrated studies in the Arase (ERG) project. **2018**, 70,	10
1026	Measurements of Ion-Neutral Coupling in the Auroral F Region in Response to Increases in Particle Precipitation. **2018**, 123, 3900-3918	8
1025	Gas-Dynamic General Circulation Model of the Lower and Middle Atmosphere of the Earth. **2018**, 10, 176-185	8
1024	Ionospheric Specification and Space Weather Forecasting With an HF Beacon Network in the Peruvian Sector. **2018**, 123, 6851-6864	5
1023	Calibration of Empirical Models of Thermospheric Density Using Satellite Laser Ranging Observations to Near-Earth Orbiting Spherical Satellites. **2018**, 119-127	0
1022	Unified atmospheric neutrino passing fractions for large-scale neutrino telescopes. **2018**, 2018, 047-047	15
1021	Particle Simulation of Plasma Drag Force Generation in the Magnetic Plasma Deorbit. **2018**, 55, 1074-1082	5
1020	Verification of the Flow Regimes Based on High-fidelity Observations of Bright Meteors. **2018**, 863, 174	8
1019	Recognition of Meteor Showers From the Heights of Ionization Trails. **2018**, 123, 7067-7076	5
1018	Threshold of parametric instability in the ionospheric heating experiments. **2018**, 20, 115301	
1017	Meteor Radar Temperatures Over the Brazilian Low-Latitude Sectors. **2018**, 123, 7755-7766	5
1016	Coincident Observations by the Kharkiv IS Radar and Ionosonde, DMSP and Arase (ERG) Satellites, and FLIP Model Simulations: Implications for the NRLMSISE-00 Hydrogen Density, Plasmasphere, and Ionosphere. **2018**, 45, 8062-8071	7

1015	Seasonal and Solar Cycle Variations of Thermally Excited 630.0´nm Emissions in the Polar Ionosphere. **2018**, 123, 7029-7039	2
1014	The Excitation of Secondary Gravity Waves From Local Body Forces: Theory and Observation. **2018**, 123, 9296-9325	45
1013	Parameters of the Geomagnetic Activity, Thermosphere, and Ionosphere for the Ultimately Intense Magnetic Storm. **2018**, 58, 501-508	
1012	MIPAS observations of ozone in the middle atmosphere. **2018**, 11, 2187-2212	7
1011	Comparison of the Mesopause Temperature Measured at Different-Latitude Stations. **2018**, 12, 538-542	
1010	Comparison of accelerometer data calibration methods used in thermospheric neutral density estimation. **2018**, 36, 761-779	11
1009	South-Atlantic Anomaly magnetic storms effects as observed outside the International Space Station in 2008–2016. **2018**, 179, 251-260	4
1008	A New Transformative Framework for Data Assimilation and Calibration of Physical Ionosphere-Thermosphere Models. **2018**, 16, 1086-1100	15
1007	Analysis of the September β Perseid outburst in 2013. **2018**, 480, 2501-2507	5
1006	Correct Boundary Conditions for the High-Resolution Model of Nonlinear Acoustic-Gravity Waves Forced by Atmospheric Pressure Variations. **2018**, 175, 3639-3652	11
1005	Comparison of the Ionosphere During an SMC Initiating Substorm and an Isolated Substorm. **2018**, 123, 4939-4951	3
1004	Regional infrasound generated by the Humming Roadrunner ground truth experiment. **2018**, 214, 1847-1864	14
1003	Reduced dynamic and kinematic precise orbit determination for the Swarm mission from 4 years of GPS tracking. **2018**, 22, 1	36
1002	The Environment. **2018**, 129-185	
1001	The assessment of the semi-analytical method in the long-term orbit prediction of Earth satellites. **2018**, 42, 239-266	0
1000	Towards thermospheric density estimation from SLR observations of LEO satellites: a case study with ANDE-Pollux satellite. **2019**, 93, 353-368	6
999	High-fidelity geometry models for improving the consistency of CHAMP, GRACE, GOCE and Swarm thermospheric density data sets. **2019**, 63, 213-238	34
998	IonoSeis: A Package to Model Coseismic Ionospheric Disturbances. **2019**, 10, 443	6

997	CHAMP and GOCE thermospheric wind characterization with improved gas-surface interactions modelling. **2019**, 64, 1225-1242	14
996	The Response of the Ionosphere-Thermosphere System to the 21 August 2017 Solar Eclipse. **2019**, 124, 7341-7355	17
995	Vertical Propagation of Acoustic-Gravity Waves from Atmospheric Fronts into the Upper Atmosphere. **2019**, 55, 303-311	1
994	New techniques for retrieving the [O(3P)], [O3] and [CO2] altitude profiles from dayglow oxygen emissions: Uncertainty analysis by the Monte Carlo method. **2019**, 64, 1948-1967	7
993	Seismogenic Disturbances of the Ionosphere During High Geomagnetic Activity. **2019**, 10, 359	5
992	On the High-Energy Spectral Component and Fine Time Structure of Terrestrial Gamma Ray Flashes. **2019**, 124, 7484-7497	10
991	Unusual Multiple Excitation of Large-Scale Gravity Waves by Successive Stream Interactions: The Role of Alfvïic Fluctuations. **2019**, 124, 6281-6287	3
990	Long-Term Variations of June Column Atomic Oxygen Abundance in the Upper Atmosphere Inferred From Ionospheric Observations. **2019**, 124, 6305-6312	2
989	Propagation to the upper atmosphere of acoustic-gravity waves from atmospheric fronts in the Moscow region. **2019**, 37, 447-454	5
988	Multiple Airglow Chemistry approach for atomic oxygen retrievals on the basis of in situ nightglow emissions. **2019**, 194, 105096	3
987	General Relativity Measurements in the Field of Earth with Laser-Ranged Satellites: State of the Art and Perspectives. **2019**, 5, 141	17
986	Climatology of the mesopause relative density using a global distribution of meteor radars. **2019**, 19, 7567-7581	8
985	Emulating Satellite Drag from Large Simulation Experiments. **2019**, 7, 720-759	12
984	Regional ionosphere specification by assimilating ionosonde data into the SAMI2 model. **2019**, 64, 1343-1357	3
983	Variability of the Proton Radiation Belt. **2019**, 124, 5516-5527	9
982	Comparing analytical and numerical approaches to meteoroid orbit determination using Hayabusa telemetry. **2019**, 54, 2149-2162	9
981	Global Dynamic Model of Critical Frequency of the Ionospheric F2 Layer. **2019**, 59, 429-440	11
980	Global EAGLE Model as a Tool for Studying the Influence of the Atmosphere on the Electric Field in the Equatorial Ionosphere. **2019**, 13, 720-726	2

979	Ionospheric Response to Disturbed Winds During the 29 October 2003 Geomagnetic Storm in the Brazilian Sector. **2019**, 124, 9405-9419	4
978	Short- and Long-Wavelength TIDs Generated by the Great American Eclipse of 21 August 2017. **2019**, 124, 9486-9493	6
977	The Ionospheric Field. **2019**, 141-159	
976	Quantification of the Vertical Transport and Escape of Atomic Hydrogen in the Terrestrial Upper Atmosphere. **2019**, 124, 10468-10481	3
975	Pedersen Ionic Contribution in Different Time Scales. **2019**, 124, 6961-6970	3
974	Thermospheric Heating and Cooling Times During Geomagnetic Storms, Including Extreme Events. **2019**, 46, 12739-12746	8
973	High-Resolution Optical Observations of Neutral Heating Associated With the Electrodynamics of an Auroral Arc. **2019**, 124, 9577-9591	3
972	Radio Beacon and Radar Assessment and Forecasting of ´Equatorial F Region Ionospheric Stability. **2019**, 124, 9511-9524	3
971	HL-TWiM Empirical Model of High-Latitude Upper Thermospheric Winds. **2019**, 124, 10592-10618	8
970	On the Annual Asymmetry of High-Latitude Sporadic F. **2019**, 17, 1618-1626	4
969	Satellite Orbital Drag During Magnetic Storms. **2019**, 17, 1510-1533	15
968	The Mount Meron infrasound array: an infrasound array without a noise reduction system. **2019**, 219, 1109-1117	1
967	Icecube/DeepCore tests for novel explanations of the MiniBooNE anomaly. **2019**, 79, 1	12
966	On the Momentum Transfer From Polar to Equatorial Ionosphere. **2019**, 124, 6064-6073	4
965	The OI-135.6´nm Nighttime Emission in ICON-FUV Images: A New Tool for the Observation of Classical Medium-Scale Traveling Ionospheric Disturbances?. **2019**, 124, 7670-7686	0
964	Infrasonic Wave-Induced Variations of Ionospheric HF Sounding Echoes. **2019**, 54, 876-887	0
963	Data-Driven Inference of Thermosphere Composition During Solar Minimum Conditions. **2019**, 17, 1364-1379	7
962	On the relevance of prompt neutrinos for the interpretation of the IceCube signals. **2019**, 2019, 004-004	7

961 Geomagnetic Index for Intense Ionospheric Storm. **2019**,

960 Survivability of carbon nanotubes in space. **2019**, 165, 129-138 4

959 Deformation of Ionospheric Potential Pattern by Ionospheric Hall Polarization. **2019**, 124, 7553-7580 2

958 Year-round stratospheric aerosol backscatter ratios calculated from lidar measurements above northern Norway. **2019**, 12, 4065-4076 7

957 Ground-based millimetre-wave measurements of middle-atmospheric carbon monoxide above Ny-Ålesund (78.9° N, 11.9° E). **2019**, 12, 4077-4089 1

956 Longitudinal variations in thermospheric parameters under summer noontime conditions inferred from ionospheric observations: A comparison with empirical models. **2019**, 9, 12763 2

955 Evaluation of ionospheric models for Central and South Americas. **2019**, 64, 2125-2136 1

954 Rich observations of local and regional infrasound phases made by the AlpArray seismic network after refinery explosion. **2019**, 9, 13027 10

953 On the latitudinal variation of the semiannual oscillation in received solar radiation and temperature. **2019**, 194, 105098 5

952 Can We Estimate Air Density of the Thermosphere with CubeSats?. **2019**, 56, 1084-1091

951 Ionization of the Polar Atmosphere by Energetic Electron Precipitation Retrieved From Balloon Measurements. **2019**, 46, 990-996 16

950 Horizontal and vertical thermospheric cross-wind from GOCE linear and angular accelerations. **2019**, 63, 3139-3153 8

949 Quantifying the Storm Time Thermospheric Neutral Density Variations Using Model and Observations. **2019**, 17, 269-284 6

948 Impact of nitric oxide, solar EUV and particle precipitation on thermospheric density decrease. **2019**, 182, 147-154 13

947 Ionospheric Detection of Explosive Events. **2019**, 57, 78-105 11

946 Latitude and Longitude Dependence of Ionospheric TEC and Magnetic Perturbations From Infrasonic-Acoustic Waves Generated by Strong Seismic Events. **2019**, 46, 1132-1140 15

945 Orbit information of predetermined accuracy and its sharing in the space situational awareness context. **2019**, 159, 410-417 1

944 3D-FEM simulation model of the Earth-ionosphere cavity. **2019**, 33, 734-742 3

943	Least squares orbit estimation including atmospheric density uncertainty consideration. **2019**, 63, 3916-3935	9
942	Detection of Crab radiation with a meteorological balloon borne phoswich detector. **2019**, 47, 345-358	3
941	Effects of VLF Transmitter Waves on the Inner Belt and Slot Region. **2019**, 124, 5260-5277	21
940	Long-term lidar observations of the gravity wave activity near the mesopause at Arecibo. **2019**, 19, 3207-3221	1
939	Can VHF radars at polar latitudes measure mean vertical winds in the presence of PMSE?. **2019**, 19, 4485-4497	7
938	A new MesosphEO data set of temperature profiles from 35 to 85 km using Rayleigh scattering at limb from GOMOS/ENVISAT daytime observations. **2019**, 12, 749-761	3
937	The Effect of Oxygen on the Limiting H+ Flux in the Topside Ionosphere. **2019**, 124, 4509-4517	2
936	Signatures of Thermospheric-Exospheric Coupling of Hydrogen in Observed Seasonal Trends of H Ⅱ Intensity. **2019**, 124, 4525-4538	3
935	Propagating EUV solar flux uncertainty to atmospheric density uncertainty. **2019**, 63, 3936-3952	5
934	Whistler Waves' Propagation in Plasmas With Systems of Small-Scale Density Irregularities: Numerical Simulations and Theory. **2019**, 124, 4739-4760	3
933	Seismo-ionospheric Rayleigh Waves. **2019**, 167-194	
932	The Mid-Term Forecast Method of F10.7 Based on Extreme Ultraviolet Images. **2019**, 2019, 1-14	5
931	Observation of Synchronization Between Instabilities of the Sporadic E Layer and Geomagnetic Field Line Connected F Region Medium-Scale Traveling Ionospheric Disturbances. **2019**, 124, 4627-4638	6
930	The International Community Coordinated Modeling Center Space Weather Modeling Capabilities Assessment: Overview of Ionosphere/Thermosphere Activities. **2019**, 17, 527-538	4
929	Response of the Ionosphere-Plasmasphere Coupling to the September 2017 Storm: What Erodes the Plasmasphere so Severely?. **2019**, 17, 861-876	14
928	A Comparison of Electron Densities Derived by Tomographic Inversion of the 135.6-nm Ionospheric Nightglow Emission to Incoherent Scatter Radar Measurements. **2019**, 124, 4585-4596	1
927	Gamma Ray Glow Observations at 20-km Altitude. **2019**, 124, 7236-7254	11
926	Non-averaged regularized formulations as an alternative to semi-analytical orbit propagation methods. **2019**, 131, 1	9

925	The global climatology of the intensity of the ionospheric sporadic <i>E</i> layer. **2019**, 19, 4139-4151	27
924	Solar Cycle Variability of Nonmigrating Tides in the 5.3 and 15 μm Infrared Cooling of the Thermosphere (100–150 km) from SABER. **2019**, 124, 2338-2356	9
923	Numerical Modeling of the Propagation of Infrasonic Acoustic Waves Through the Turbulent Field Generated by the Breaking of Mountain Gravity Waves. **2019**, 46, 5526-5534	5
922	Measurement of atmospheric tau neutrino appearance with IceCube DeepCore. **2019**, 99,	23
921	Thermospheric Weather as Observed by Ground-Based FPIs and Modeled by GITM. **2019**, 124, 1307-1316	8
920	Dynamical Coupling Between Hurricane Matthew and the Middle to Upper Atmosphere via Gravity Waves. **2019**, 124, 3589-3608	15
919	Evolution of a Mesospheric Bore in a Duct Observed by Ground-Based Double-Layer Imagers and Satellite Observations Over the Tibetan Plateau Region. **2019**, 124, 1377-1388	4
918	Nitric Oxide in Climatological Global Energy Budget During 1982–2013. **2019**, 124, 782-789	3
917	High-Resolution Local Measurements of F Region Ion Temperatures and Joule Heating Rates Using SuperDARN and Ground-Based Optics. **2019**, 124, 557-572	4
916	Whole Atmosphere Climate Change: Dependence on Solar Activity. **2019**, 124, 3799-3809	20
915	SLR, GRACE and Swarm Gravity Field Determination and Combination. **2019**, 11, 956	9
914	Gravity Wave Ducting Observed in the Mesosphere Over Jicamarca, Peru. **2019**, 124, 5166-5177	3
913	Extension of the King-Hele orbit contraction method for accurate, semi-analytical propagation of non-circular orbits. **2019**, 64, 1-17	3
912	Orbit Verification Results of the De-Orbit Mechanism Demonstration CubeSat FREEDOM. **2019**, 17, 295-300	6
911	Revisiting the cosmic-ray induced Venusian ionization with the Atmospheric Radiation Interaction Simulator (AtRIS). **2019**, 624, A124	8
910	High-Frequency Ionospheric Monitoring System for Over-the-Horizon Radar in Canada. **2019**, 57, 6372-6384	10
909	A previously unrecognized source of the O Atmospheric band emission in Earth's nightglow. **2019**, 5, eaau9255	10
908	The 3-D Distribution of Artificial Aurora Induced by HF Radio Waves in the Ionosphere. **2019**, 124, 2992	2

907	Transplanet: A web service dedicated to modeling of planetary ionospheres. **2019**, 169, 35-44	5
906	How Well Can We Estimate Pedersen Conductance From the THEMIS White-Light All-Sky Cameras?. **2019**, 124, 2920-2934	8
905	Implementation and validation of the GEANT4/AtRIS code to model the radiation environment at Mars. **2019**, 9, A2	13
904	Determination of the Signal Fluctuation Threshold of the Temperature-Ion Composition Ambiguity Problem Using Monte Carlo Simulations. **2019**, 124, 2897-2919	2
903	Physical Processes Driving the Response of the F2 Region Ionosphere to the 21 August 2017 Solar Eclipse at Millstone Hill. **2019**, 124, 2978-2991	14
902	Investigating Transport and Dissipation in the Subauroral E Region With Ionospheric Modification Experiments and Very High Frequency Radar Backscatter. **2019**, 54, 245-253	1
901	Simulated impacts of atmospheric gravity waves on the initiation and optical emissions of sprite halos in the mesosphere. **2019**, 62, 631-642	2
900	Annual and Semiannual Oscillations of Thermospheric Composition in TIMED/GUVI Limb Measurements. **2019**, 124, 3067	7
899	Diffusion and Thermodiffusion of Atmospheric Neutral Gases: A Review. **2019**, 40, 247-276	6
898	Density-Temperature Synchrony in the Hydrostatic Thermosphere. **2019**, 124, 674-699	1
897	Characteristics of Energetic Electron Precipitation Estimated from Simulated Bremsstrahlung X-ray Distributions. **2019**, 124, 2831-2843	8
896	Multi-instrument investigation of troposphere-ionosphere coupling and the role of gravity waves in the formation of equatorial plasma bubble. **2019**, 189, 65-79	4
895	Observability of hydrogen-rich exospheres in Earth-like exoplanets. **2019**, 622, A46	7
894	Lidar Soundings of the Mesospheric Nickel Layer Using Ni(3F) and Ni(3D) Transitions. **2019**, 46, 408-415	14
893	Estimating and predicting corrections for empirical thermospheric models. **2019**, 218, 479-493	2
892	Attitude Stabilization of Spacecraft in Very Low Earth Orbit by Center-Of-Mass Shifting. **2019**, 6, 7	8
891	Polarization Electric Field Inside Auroral Patches: Simultaneous Experiment of EISCAT Radars and KAIRA. **2019**, 124, 3543-3557	1
890	Evolution of space tethered system□ orbit during space debris towing taking into account the atmosphere influence. **2019**, 96, 2211-2223	6

889	The Maribo CM2 meteorite fall: Survival of weak material at high entry speed. **2019**, 54, 1024-1041	12
888	Assessment of the Differential Drag Maneuver Operations on the CYGNSS Constellation. **2019**, 12, 7-15	4
887	Atmospheric band fitting coefficients derived from a self-consistent rocket-borne experiment. **2019**, 19, 1207-1220	13
886	Breakup prediction under uncertainty: Application to upper stage controlled reentries from GTO orbit. **2019**, 87, 340-356	4
885	Interhemispheric field-aligned currents at the edges of equatorial plasma depletions. **2019**, 9, 1233	7
884	Implementation and Hardware-In-The-Loop Simulation of a Magnetic Detumbling and Pointing Control Based on Three-Axis Magnetometer Data. **2019**, 6, 133	3
883	Plasma Flow in the North-South Aligned Discrete Aurora Equatorward of the Cusp. **2019**, 124, 10778-10793	1
882	Simultaneous in situ measurements of small-scale structures in neutral, plasma, and atomic oxygen densities during the WADIS sounding rocket project. **2019**, 19, 11443-11460	7
881	On-the-Fly Calculation of Absorbed and Equivalent Atmospheric Radiation Dose in A Water Phantom with the Atmospheric Radiation Interaction Simulator (AtRIS). **2019**, 124, 9774-9790	3
880	Reactions of the Middle Atmosphere Circulation and Stationary Planetary Waves on the Solar Activity Effects in the Thermosphere. **2019**, 124, 10645-10658	3
879	Propagation of the trajectories for reentry spherical debris including rotation, melting fragmentation and voxel method. **2019**, 1365, 012011	
878	Evaluation of orbital decay of a satellite at low altitude due to atmospheric drag as a function of solar activity. **2019**, 1365, 012027	1
877	The First Terrestrial Electron Beam Observed by the Atmosphere-Space Interactions Monitor. **2019**, 124, 10497-10511	6
876	Solar cycle, seasonal, and asymmetric dependencies of thermospheric mass density disturbances due to magnetospheric forcing. **2019**, 37, 989-1003	5
875	Infrasound and seismoacoustic signatures of the 28´September 2018 Sulawesi super-shear earthquake. **2019**, 19, 2811-2825	7
874	Radiative Influence of Horizontally Oriented Ice Crystals over Summit, Greenland. **2019**, 124, 12141-12156	2
873	Latitudinal difference in meteor trail ionization heights and identification of meteor showers. **2019**, 364, 1	
872	Monitoring the orbital decay of the Chinese space station Tiangong-1 from the loss of control until the re-entry into the Earth's atmosphere. **2019**, 6, 265-275	3

871	Diurnal Variations in the Statistical Characteristics of the Variability of the Midlatitude NmF2 during Quiet Geomagnetic Conditions at Low Solar Activity. **2019**, 59, 593-605	1
870	Investigation on the Distinct Nocturnal Secondary Sodium Layer Behavior Above 95 km in Winter and Summer Over Logan, UT (41.7°N, 112°W) and Arecibo Observatory, PR (18.3°N, 67°W). **2019**, 124, 9610-9625	11
869	Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. **2019**, 124, 8138-8153	12
868	Geocoronal Hydrogen Emission Variation Over Two Solar Cycles. **2019**, 124, 10674-10689	2
867	Method for Determining Neutral Wind Velocity Vectors Using Measurements of Internal Gravity Wave Group and Phase Velocities. **2019**, 10, 546	4
866	STEVE and the Picket Fence: Evidence of Feedback-Unstable Magnetosphere-Ionosphere Interaction. **2019**, 46, 14247-14255	11
865	Multilayer Observations and Modeling of Thunderstorm-Generated Gravity Waves Over the Midwestern United States. **2019**, 46, 14164-14174	3
864	Global nighttime atomic oxygen abundances from GOMOS hydroxyl airglow measurements in the mesopause region. **2019**, 19, 13891-13910	3
863	The German Aerospace Center M-42 radiation detector-A new development for applications in mixed radiation fields. **2019**, 90, 125115	6
862	Infrasound observations from the site of past underground nuclear explosions in North Korea. **2019** , 216, 182-200	5
861	Drag Deorbit Device: A New Standard Reentry Actuator for CubeSats. **2019**, 56, 129-145	18
860	Meteorology, Climatology, and Upper Atmospheric Composition for Infrasound Propagation Modeling. **2019**, 485-508	11
859	Ionospheric GNSS Imagery of Seismic Source: Possibilities, Difficulties, and Challenges. **2019**, 124, 534-543	11
858	Ariane 5 GTO debris mitigation using natural perturbations. **2019**, 63, 1992-2002	1
857	Recent Dynamic Studies on the Middle Atmosphere at Mid- and Low-Latitudes Using Rayleigh Lidar and Other Technologies. **2019**, 757-776	
856	The study of in situ wind and gravity wave determination by the first passive falling-sphere experiment in China's northwest region. **2019**, 182, 130-137	1
855	Uncertainties in gravity wave parameters, momentum fluxes, and flux divergences estimated from multi-layer measurements of mesospheric nightglow layers. **2019**, 63, 967-985	5
854	Vertical fine structure and time evolution of plasma irregularities in the Es layer observed by a high-resolution Ca+ lidar. **2019**, 71,	8

853	The Atmospheric Radiation Interaction Simulator (AtRIS): Description and Validation. **2019**, 124, 50-67	16
852	Properties of small meteoroids studied by meteor video observations. **2019**, 621, A68	13
851	Distinct thermospheric mass density variations following the September 2017 geomagnetic storm from GRACE and Swarm. **2019**, 184, 30-36	14
850	A Parameterized Model of X-Ray Solar Flare Effects on the Lower Ionosphere and HF Propagation. **2019**, 54, 168-180	5
849	Spacecraft Material Tests under Aerothermal and Mechanical Reentry Loads. **2019**,	1
848	Space debris reentry prediction and ground risk estimation using a probabilistic breakup model. **2019**,	
847	A study of the ionospheric disturbances associated with strong earthquakes using the empirical orthogonal function analysis. **2019**, 171, 225-232	3
846	Robust relative navigation for spacecraft rendezvous using differential drag. **2019**, 158, 32-43	3
845	Large Meteoroids as Global Infrasound Reference Events. **2019**, 451-470	6
844	3D meteoroid trajectories. **2019**, 321, 388-406	16
843	Advances in Infrasonic Remote Sensing Methods. **2019**, 605-632	17
842	Application of an updated atmospheric model to explore volcano infrasound propagation and detection in Alaska. **2019**, 371, 192-205	10
841	Influence of energy accommodation on a robust spacecraft rendezvous maneuver using differential aerodynamic forces. **2020**, 12, 43-63	4
840	Vertical Structure of the Ionospheric Response Following the Mw 7.9 Wenchuan Earthquake on 12 May 2008. **2020**, 177, 95-107	2
839	Efficient and accurate error propagation in the semi-analytic orbit dynamics system for space debris. **2020**, 65, 285-296	1
838	An approach for improving the NRLMSISE-00 model using a radiosonde at Golmud of the Tibetan Plateau. **2020**, 132, 451-459	1
837	Simulation of cosmic rays in the Earth atmosphere and interpretation of observed counts in an X-ray detector at balloon altitude near tropical region. **2020**, 65, 189-197	4
836	APOD mission status and preliminary results. **2020**, 63, 257-266	5

835	RENU2 UV PMT Observations of the Cusp. **2020**, 47, e2019GL082314	1
834	Atmospheric neutrinos and the knee of the cosmic ray spectrum. **2020**, 114, 22-29	5
833	Accurate estimation of relative atmospheric density error on the example of uncertain geomagnetic activity information. **2020**, 65, 251-270	2
832	Impact of Thermospheric Mass Density on the Orbit Prediction of LEO Satellites. **2020**, 18, e2019SW002336	5
831	Propagation of grid-scale density model uncertainty to orbital uncertainties. **2020**, 65, 407-418	4
830	Atmospheric effects and signatures of high-energy electron precipitation. **2020**, 199-255	1
829	Incoherent scatter radar observations of 10–100 keV precipitation: review and outlook. **2020**, 145-197	1
828	A New Method for Deriving the Nightside Thermospheric Density Based on GUVI Dayside Limb Observations. **2020**, 18, e2019SW002304	
827	Calibration of atmospheric density model based on Gaussian Processes. **2020**, 168, 273-281	2
826	Poststorm Thermospheric NO Overcooling?. **2020**, 125, e2019JA027122	6
825	Spacecraft Collision Avoidance Using Aerodynamic Drag. **2020**, 43, 567-573	3
824	Analysis of Tiangong-2 orbit determination and prediction using onboard dual-frequency GNSS data. **2020**, 24, 1	6
823	A technique for inferring lower thermospheric neutral density from meteoroid ablation. **2020**, 180, 104735	1
822	Improving Neutral Density Predictions Using Exospheric Temperatures Calculated on a Geodesic, Polyhedral Grid. **2020**, 18, e2019SW002355	9
821	N2(A) in the Terrestrial Thermosphere. **2020**, 125, e2019JA026508	1
820	Observation of thermosphere and ionosphere using the ionosphere PhotoMeter (IPM) on the Chinese meteorological satellite FY-3D. **2020**, 66, 2151-2167	0
819	A novel concept of cost-effective active debris removal spacecraft system. **2020**, 7, 345-350	2
818	Seasonal Effect on Hemispheric Asymmetry in Ionospheric Horizontal and Field-Aligned Currents. **2020**, 125, e2020JA028051	8

817	Change in Total Electron Content During the 26 December 2019 Solar Eclipse: Constraints From GNSS Observations and Comparison With SAMI3 Model Results. **2020**, 125, e2020JA028230	6
816	Mesospheric Gravity Wave Momentum Flux Associated With a Large Thunderstorm Complex. **2020**, 125, e2020JD033381	3
815	Regional Ionospheric Parameter Estimation by Assimilating the LSTM Trained Results Into the SAMI2 Model. **2020**, 18, e2020SW002590	2
814	Small-scale structures in noctilucent clouds observed by lidar. **2020**, 208, 105384	1
813	Formation of sporadic E (Es) layer by homogeneous and inhomogeneous horizontal winds. **2020**, 209, 105403	3
812	The benefits of very low earth orbit for earth observation missions. **2020**, 117, 100619	29
811	Characterization of the Upper Atmosphere from Neutral and Electron Density Observations. **2020**, 1	1
810	Assimilation of GNSS Measurements for Estimation of High-Latitude Convection Processes. **2020**, 18, e2019SW002409	0
809	Seasonal Variation of O/N2 on Different Pressure Levels From GUVI Limb Measurements. **2020**, 125, e2020JA027844	3
808	Thermal effects of nonlinear acoustic-gravity waves propagating at thermospheric temperatures matching high and low solar activity. **2020**, 208, 105381	5
807	Impact of solar activity on Low Earth Orbiting satellites. **2020**, 1523, 012010	0
806	Assessment of new thermospheric mass density model using NRLMSISE-00 model, GRACE, Swarm-C, and APOD observations. **2020**, 199, 105207	6
805	Detection of high-latitude ionospheric structures using GNSS. **2020**, 207, 105335	0
804	Long-Term Variations of >16-MeV Proton Fluxes: Measurements From NOAA POES and EUMETSAT MetOp Satellites. **2020**, 125, e2019JA027635	0
803	Daytime Dynamo Electrodynamics With Spiral Currents Driven by Strong Winds Revealed by Vapor Trails and Sounding Rocket Probes. **2020**, 47, e2020GL088803	3
802	Daytime mid-latitude F-layer Q-disturbances: A formation mechanism. **2020**, 10, 9997	5
801	The Dynamics of Nonlinear Atmospheric Acoustic-Gravity Waves Generated by Tsunamis Over Realistic Bathymetry. **2020**, 125, e2020JA028309	3
800	Estimating Satellite Orbital Drag During Historical Magnetic Superstorms. **2020**, 18, e2020SW002472	3

799	Auroral ionospheric plasma flow extraction using subsonic retarding potential analyzers. **2020**, 91, 094503	3
798	Flying Through Uncertainty. **2020**, 18, e2019SW002373	13
797	First Report of an Eclipse From Chilean Ionosonde Observations: Comparison With Total Electron Content Estimations and the Modeled Maximum Electron Concentration and Its Height. **2020**, 125, e2020JA027923	4
796	A Statistical Analysis of the Energy Dissipation Rate Estimated From the PMWE Spectral Width in the Antarctic. **2020**, 125, e2020JD032745	3
795	Estimating Horizontal Phase Speeds of a Traveling Ionospheric Disturbance From Digisonde Single Site Vertical Ionograms. **2020**, 55, e2020RS007089	4
794	Drag Coefficient Model to Track Variations due to Attitude and Orbital Motion. **2020**, 43, 1915-1926	2
793	Evidence for Drag Coefficient Modeling Errors near and Above the Oxygen-to-Helium Transition. **2020**, 57, 1246-1263	1
792	Occurrence and Altitude of the Long-Lived Nonspecular Meteor Trails During Meteor Showers at High Latitudes. **2020**, 125, e2019JA027746	4
791	The Experimental Albertan Satellite #1 (Ex-Alta 1) Cube-Satellite Mission. **2020**, 216, 1	1
790	The Correlation Analysis of Atmospheric Model Accuracy Based on the Pearson Correlation Criterion. **2020**, 780, 032045	2
789	Material erosion measurements and expected operational lifetime of a deployable photon sieve payload. **2020**, 65, 2902-2911	1
788	Nighttime equatorial 630-nm emission variability over Ethiopia. **2020**, 66, 1754-1763	
787	In Situ Observations of Neutral Shear Instability in the Statically Stable High-Latitude Mesosphere and Lower Thermosphere During Quiet Geomagnetic Conditions. **2020**, 125, e2020JA027972	3
786	The 12 December 2017 Baumgarten Gas Hub Explosion: A Case Study on Understanding the Occurrence of a Large Infrasound Azimuth Residual and a Lack of Seismic Observations. **2020**, 177, 4957-4970	3
785	Debris cloud of India anti-satellite test to Microsat-R satellite. **2020**, 6, e04692	3
784	Dynamics of Energetic Electrons in the Slot Region During Geomagnetically Quiet Times: Losses Due to Wave-Particle Interactions Versus a Source From Cosmic Ray Albedo Neutron Decay (CRAND). **2020**, 125, e2020JA028042	4
783	Gravitational Force Model Aliasing with Nongravitational Force Coefficients in Dynamic Prediction. **2020**, 43, 1984-1997	1
782	First Simultaneous Lidar Observations of Thermosphere-Ionosphere Fe and Na (TIFe and TINa) Layers at McMurdo (77.84°S, 166.67°E), Antarctica With Concurrent Measurements of Aurora Activity, Enhanced Ionization Layers, and Converging Electric Field. **2020**, 47, e2020GL090181	5

781 Where does outer space begin?. **2020**, 73, 70-71 1

780 A Generalized Method for Calculating Atmospheric Ionization by Energetic Electron Precipitation. **2020**, 125, e2020JA028482 4

779 Ionization effect in the Earth's atmosphere during the sequence of October–November 2003 Halloween GLE events. **2020**, 211, 105484 4

778 A Simple Method for Correcting Empirical Model Densities During Geomagnetic Storms Using Satellite Orbit Data. **2020**, 18, e2020SW002565 2

777 Dynamics of Space Tether System in Circular Orbit in Presence of Aerodynamic Drag. **2020**,

776 Real-Time Thermospheric Density Estimation from Satellite Position Measurements. **2020**, 43, 1656-1670 3

775 Statistical Approach to Observe the Atmospheric Density Variations Using Swarm Satellite Data. **2020**, 11, 897 2

774 Atmospheric Gravity Waves Observed in the Nightglow Following the 21 August 2017 Total Solar Eclipse. **2020**, 47, e2020GL088924 4

773 Simulation of Propagation of Acoustic-Gravity Waves Generated by Tropospheric Front Instabilities into the Upper Atmosphere. **2020**, 177, 5567-5584 3

772 Importance of Regional-Scale Auroral Precipitation and Electrical Field Variability to the Storm-Time Thermospheric Temperature Enhancement and Inversion Layer (TTEIL) in the Antarctic E Region. **2020**, 125, e2020JA028224 3

771 Calculation of the Atomic Oxygen Fluence on the Van Allen Probes. **2020**, 125, e2020JA027944

770 A New Full 3-D Model of Cosmogenic Tritium 3H Production in the Atmosphere (CRAC:3H). **2020**, 125, e2020JD033147 1

769 Medium-Range Forecasting of Solar Wind: A Case Study of Building Regression Model With Space Weather Forecast Testbed (SWFT). **2020**, 18, e2019SW002433 0

768 The Contribution of N+ Ions to Earth's Polar Wind. **2020**, 47, e2020GL089321 2

767 Neutral Exospheric Temperatures From the GOLD Mission. **2020**, 125, e2020JA027814 5

766 Spectral Analysis of Forbush Decreases Using a New Yield Function. **2020**, 295, 1 2

765 Irradiation Flux Modelling for Thermal–Electrical Simulation of CubeSats: Orbit, Attitude and Radiation Integration. **2020**, 13, 6691 8

764 Impacts of Lower Thermospheric Atomic Oxygen on Thermospheric Dynamics and Composition Using the Global Ionosphere Thermosphere Model. **2020**, 125, e2020JA027877 1

763	Probing the Analytical Cancellation Factor of Short Scale Gravity Waves Using Na Lidar and Nightglow Data from the Andes Lidar Observatory. **2020**, 11, 1311	0
762	New constraints on supersymmetry using neutrino telescopes. **2020**, 811, 135929	1
761	A simultaneous calibration and data assimilation (C/DA) to improve NRLMSISE00 using thermospheric neutral density (TND) from space-borne accelerometer measurements. **2020**, 224, 1096-1115	2
760	Prediction of the Ionospheric Response to the 14 December 2020 Total Solar Eclipse Using SUPIM-INPE. **2020**, 125, e2020JA028625	4
759	Simulation of atmospheric drag effect on low Earth orbit satellites during intervals of perturbed and quiet geomagnetic conditions in the magnetosphere-ionosphere system. **2020**,	1
758	Convectively Generated Gravity Waves During Solstice and Equinox Conditions. **2020**, 125, e2019JD031582	2
757	Impact of the Dipole Tilt Angle on the Ionospheric Plasma as Modeled with IPIM. **2020**, 125, e2019JA027672	0
756	Inverse First Ionization Potential Effects in Giant Solar Flares Found from Earth X-Ray Albedo with Suzaku/XIS. **2020**, 891, 126	11
755	Modelled effects of temperature gradients and waves on the hydroxyl rotational distribution in ground-based airglow measurements. **2020**, 20, 333-343	
754	Aerocapture Mission Analysis. **2020**,	
753	Signatures of meteor showers and sporadics inferred from the height distribution of meteor echoes. **2020**, 189, 104981	
752	Density Correction of NRLMSISE-00 in the Middle Atmosphere (200–100 km) Based on TIMED/SABER Density Data. **2020**, 11, 341	2
751	Differential drag-based multiple spacecraft maneuvering and on-line parameter estimation using integral concurrent learning. **2020**, 174, 189-203	8
750	Mesopause Airglow Disturbances Driven by Nonlinear Infrasonic Acoustic Waves Generated by Large Earthquakes. **2020**, 125, e2019JA027628	3
749	Statistical Analysis of Joule Heating and Thermosphere Response During Geomagnetic Storms of Different Magnitudes. **2020**, 125, e2020JA027966	3
748	Compatibility Conditions, Complex Frequency, and Complex Vertical Wave Number for Models of Gravity Waves in the Thermosphere. **2020**, 125, e2020JA028011	2
747	Effects of the rotation of a spacecraft in an atmospheric close approach with the Earth. **2020**, 229, 1517-1526	0
746	The Day-Night Difference and Geomagnetic Activity Variation of Energetic Electron Fluxes in Region of South Atlantic Anomaly. **2020**, 18, e2020SW002479	2

745	Bounds on secret neutrino interactions from high-energy astrophysical neutrinos. **2020**, 101,	11
744	The 3rd AGILE Terrestrial Gamma Ray Flash Catalog. Part I: Association to Lightning Sferics. **2020**, 125, e2019JD031985	7
743	Version 4 retrievals for the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS) and imagers. **2020**, 247, 106939	29
742	Robust Trajectory Optimisation of a TSTO Spaceplane Using Uncertainty-Based Atmospheric Models. **2020**,	1
741	Numerical Simulation of Ionospheric Depletions Resulting From Rocket Launches Using a General Circulation Model. **2020**, 125, e2020JA027836	0
740	Radar Investigation of Postsunset Equatorial Ionospheric Instability Over Kwajalein During Project WINDY. **2020**, 125, e2020JA027997	2
739	The Space Weather Atmosphere Models and Indices (SWAMI) project: Overview and first results. **2020**, 10, 18	10
738	Global Modeling of Equatorial Spread F with SAMI3/WACCM-X. **2020**, 47, e2020GL088258	14
737	Trends in the Airglow Temperatures in the MLT Region: Part 1: Model Simulations. **2020**, 11, 468	2
736	Photochemical modeling of molecular and atomic oxygen based on multiple nightglow emissions measured in situ during the Energy Transfer in the Oxygen Nightglow rocket campaign. **2020**, 20, 2221-2261	5
735	OH level populations and accuracies of Einstein-<i>A</i> coefficients from hundreds of measured lines. **2020**, 20, 5269-5292	8
734	All-Sky Imager Observations of the Latitudinal Extent and Zonal Motion of Magnetically Conjugate 630.0 nm Airglow Depletions. **2020**, 11, 642	0
733	Design and Evaluation of Thruster Control Approach for Micro-satellite ALE-2. **2020**,	1
732	Investigation of Midlatitude Nighttime Ionospheric E-F Coupling and Interhemispheric Coupling by Using COSMIC GPS Radio Occultation Measurements. **2020**, 125, e2019JA027625	3
731	A Machine-Learning Approach to Derive Long-Term Trends of Thermospheric Density. **2020**, 47, e2020GL087140	9
730	Simulated high frequency ray paths considering traveling ionospheric disturbances. **2020**, 2, 1	1
729	The Persistent Ionospheric Responses Over Japan After the Impact of the 2011 Tohoku Earthquake. **2020**, 18, e2019SW002302	7
728	A Mechanism for the STEVE Continuum Emission. **2020**, 47, e2020GL087102	14

727	The Polar Wind Modulated by the Spatial Inhomogeneity of the Strength of the Earth's Magnetic Field. **2020**, 125, e2020JA027802	2
726	Extended forward and inverse modeling of radiation pressure accelerations for LEO satellites. **2020**, 94, 1	10
725	Evolving infrasound detections from Bogoslof volcano, Alaska: insights from atmospheric propagation modeling. **2020**, 82, 1	9
724	Two Strengths of Ordinary Chondritic Meteoroids as Derived from Their Atmospheric Fragmentation Modeling. **2020**, 160, 42	10
723	Far Ultraviolet Remote Sensing of the Nighttime Ionosphere Using the OI 130.4-nm Emission. **2020**, 125, e2020JA028049	
722	Formation of Multilayered Sporadic E under an Influence of Atmospheric Gravity Waves (AGWs). **2020**, 11, 653	5
721	Analysis of 24´years of mesopause region OH rotational temperature observations at Davis, Antarctica Part 1: long-term trends. **2020**, 20, 6379-6394	3
720	Statistical Relations Between Auroral Electrical Conductances and Field-Aligned Currents at High Latitudes. **2020**, 125, e2020JA028008	6
719	Real-time orbit determination of Low Earth orbit satellite based on RINEX/DORIS 3.0 phase data and spaceborne GPS data. **2020**, 66, 1700-1712	1
718	LEOBDSGPS integrated precise orbit modeling using FengYun-3D, FengYun-3C onboard and ground observations. **2020**, 24, 1	9
717	A Possible Explanation of Interhemispheric Asymmetry of Equatorial Plasma Bubbles in Airglow Images. **2020**, 125, e2019JA027592	2
716	On Energetic Electron Dynamics During Geomagnetic Quiet Times in Earth's Inner Radiation Belt due to Atmospheric Collisional Loss and CRAND as a Source. **2020**, 125, e2019JA027678	12
715	Modeling the Impact of Metallic Ion Layers on Equatorial Spread With SAMI3/ESF. **2020**, 47, no	4
714	Global Monitoring and Characterization of Infrasound Signatures by Large Fireballs. **2020**, 11, 83	6
713	Analysis of Plasma Irregularities on a Range of Scintillation-Scales Using the Resolute Bay Incoherent Scatter Radars. **2020**, 125, e2019JA027112	4
712	Secondary Gravity Waves Generated by Breaking Mountain Waves Over Europe. **2020**, 125, e2019JD031662	22
711	SAMI3 Simulations of Ionospheric Metallic Layers at Arecibo. **2020**, 125, e2019JA027297	6
710	Real-Time Thermospheric Density Estimation via Two-Line Element Data Assimilation. **2020**, 18, e2019SW002356	16

709	Toward Prediction of Tornado Noise within the Turbulent Atmosphere using Theory, Wind Tunnel Measurements, and Field-Tests. **2020**,	0
708	Thermosphere densities derived from Swarm GPS observations. **2020**, 65, 1758-1771	17
707	Physical properties of Taurid meteoroids of various sizes. **2020**, 182, 104849	3
706	Bayesian Selection of Atmospheric Profiles from an Ensemble Data Assimilation System using Infrasonic Observations of May 2016 Mount Etna Eruptions. **2020**, 125, e2019JD031168	3
705	Revisit to Sporadic E Layer Response to Presumably Seismogenic Electrostatic Fields at Middle Latitudes by Model Simulation. **2020**, 125, e2019JA026843	1
704	Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: A First Detection of Atmospheric Circular Polarization at Q band. **2020**, 889, 120	6
703	Aerothermodynamic modelling of meteor entry flows. **2020**, 492, 2308-2325	7
702	Modeling of Ionospheric Responses to Atmospheric Acoustic and Gravity Waves Driven by the 2015 Nepal 7.8 Gorkha Earthquake. **2020**, 125, e2019JA027200	8
701	A Partially Orthogonal EnKF approach to atmospheric density estimation using orbital debris. **2020**, 65, 1965-1980	0
700	Feasibility assessment of passive stabilisation for a nanosatellite with aeroshell deployed by orbit-attitude-aerodynamics simulation platform. **2020**, 173, 266-278	5
699	Revisiting the cosmic-ray induced Venusian radiation dose in the context of habitability. **2020**, 633, A15	6
698	A Comprehensive Study of Infrasound Signals Detected from the Ingolstadt, Germany, Explosion of 1 September 2018. **2020**, 177, 4229-4245	4
697	Barometric formulas: various derivations and comparisons to environmentally relevant observations. **2020**, 6, 1	6
696	References. **2020**, 187-192	
695	Characterising satellite aerodynamics in Very Low Earth Orbit inclusive of ion thruster plume-thermosphere/ionosphere interactions. **2020**, 170, 386-396	4
694	Optimal planning for a multiple space debris removal mission using high-accuracy low-thrust transfers. **2020**, 172, 56-69	5
693	A Comparative Analysis of the OI 130.4-nm Emission Observed by NASA's TIMED Mission Using a Monte Carlo Radiative Transfer Model. **2020**, 125, e2019JA027520	2
692	The 3rd AGILE Terrestrial Gamma-ray Flashes Catalog. Part II: Optimized Selection Criteria and Characteristics of the New Sample. **2020**, 125, e2019JD031986	5

691	A New Data Set of Thermospheric Molecular Oxygen From the Global-scale Observations of the Limb and Disk (GOLD) Mission. **2020**, 125, e2020JA027812	6
690	New constraints on heavy neutral leptons from Super-Kamiokande data. **2020**, 80, 1	9
689	A Numerical Analysis of Energy Deposition into a Hot Wall under Hypersonic Conditions. **2020**,	
688	Searches for atmospheric long-lived particles. **2020**, 2020, 1	9
687	Multi-Instrument Observations of Ion-Neutral Coupling in the Dayside Cusp. **2020**, 47, e2019GL085590	3
686	Simulated Trends in Ionosphere-Thermosphere Climate Due to Predicted Main Magnetic Field Changes From 2015 to 2065. **2020**, 125, e2019JA027738	6
685	The Properties and Origins of Corotating Plasmaspheric Irregularities as Revealed Through a New Tomographic Technique. **2020**, 125, e2019JA027483	3
684	Global-Scale Observations and Modeling of Far-Ultraviolet Airglow During Twilight. **2020**, 125, e2019JA027645	5
683	From instability to irregularities. **2020**, 137-167	2
682	All-Sky Imaging Observations of the Interaction Between the Brightness Wave and ESF Airglow Depletions. **2020**, 125, e2019JA027232	1
681	Updated Neutron-Monitor Yield Function: Bridging Between In Situ and Ground-Based Cosmic Ray Measurements. **2020**, 125, e2019JA027433	17
680	Local stratopause temperature variabilities and their embedding in the global context. **2020**, 38, 373-383	3
679	Measurement of mesopause temperature using the mesospheric airglow spectrum photometer (MASP). **2020**, 464, 125546	
678	Adaptive control for differential drag-based rendezvous maneuvers with an unknown target. **2021**, 181, 733-740	8
677	Development and validation of an open-source software package for very low Earth orbit satellite simulation. **2021**, 45, 64-80	
676	Dual frequency measurements of meteor head echoes simultaneously detected with the MAARSY and EISCAT radar systems. **2021**, 355, 114137	4
675	Analysis of the orbit lifetime of CubeSats in low Earth orbits including periodic variation in drag due to attitude motion. **2021**, 67, 902-918	5
674	Comparative Study of Equatorial and High-Latitude Over-The-Horizon Radar Parameters Using Ray-Tracing Simulations. **2021**, 18, 53-57	2

673	High precision meteor observations with the Canadian automated meteor observatory: Data reduction pipeline and application to meteoroid mechanical strength measurements. **2021**, 354, 114097	6
672	The technical optimization of Na-K lidar and to measure mesospheric Na and K over Brazil. **2021**, 259, 107383	0
671	Lidar observations of the upper atmospheric nickel layer at Beijing (40?N,116?E). **2021**, 260, 107468	0
670	Nighttime O(1D) and corresponding Atmospheric Band emission (762 nm) derived from rocket-borne experiment. **2021**, 213, 105522	1
669	Latitudinal Dependence of Daytime Electron Density Bite-Out in the Ionospheric F 2 -Layer. **2021**, 126,	0
668	Ionospheric response to solar and magnetospheric protons during January 15–22, 2005: EAGLE whole atmosphere model results. **2021**, 67, 133-149	4
667	Linearized model for satellite station-keeping and tandem formations under the effects of atmospheric drag. **2021**, 178, 835-845	1
666	In-orbit aerodynamic coefficient measurements using SOAR (Satellite for Orbital Aerodynamics Research). **2021**, 180, 85-99	10
665	Interferometric calibration and the first elevation observations at EKB ISTP SB RAS radar at 10–12 MHz. **2021**, 28, 100628	3
664	2D Necklace Flower Constellations applied to Earth observation missions. **2021**, 178, 203-215	3
663	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. **2021**, 8, e2020EA001321	28
662	Dynamic GPS-based LEO orbit determination with 1 cm precision using the Bernese GNSS Software. **2021**, 67, 788-805	9
661	Variability of Weddell Sea ionospheric anomaly as deduced from observations at the Akademik Vernadsky station. **2021**, 47-55	
660	Temporal evolutions of $$text {N}_2^+$$ Meinel (1,2) band near $$1.5.,upmu text {m}$$ associated with aurora breakup and their effects on mesopause temperature estimations from OH Meinel (3,1) band. **2021**, 73,	1
659	Approximate evaluation of the duration of the orbital motion of artificial Earth satellites taking into account light pressure. **2021**, 25,	
658	A new auroral phenomenon, the anti-black aurora. **2021**, 11, 1829	1
657	Formation Flying Orbit and Control Concept for the VISORS Mission. **2021**,	1
656	High Precision Orbit Determination Method Based on GPS Flight Data for ALE-1. **2021**, 19, 744-752	

655	Magnetosphere-Ionosphere Coupling via Prescribed Field-Aligned Current Simulated by the TIEGCM. **2021**, 126,	1
654	Detection and source parametrization of small-energy fireball events in Western Alps with ground-based infrasonic arrays. **2021**, 225, 1518-1529	0
653	System Design, Development and Ground Verification of a Separable De-Orbit Mechanism for the Orbital Manoeuvre of Micro-Satellite ALE-1. **2021**, 19, 360-367	1
652	Effect of Atomic Oxygen on LEO CubeSat. **2021**, 22, 726-733	2
651	Study of Rarefied Aerodynamics for Super Low Altitude Satellites. **2021**, 19, 407-414	
650	Identification of the infrasound signals emitted by explosive eruption of Mt. Shinmoedake by three-dimensional ray tracing. **2021**, 149, 591	1
649	Infrasonic Earthquake Detectability Investigated in Southern Part of Japan, 2019. **2021**, 21,	2
648	Direct measurements of atomic oxygen in the mesosphere and lower thermosphere using terahertz heterodyne spectroscopy. **2021**, 2,	5
647	The operational and research DTM-2020 thermosphere models. **2021**, 11, 47	3
646	Formation Flying under Periodic Orbit Considering Environmental Forces in LEO. **2021**,	
645	The atmospheric model of neural networks based on the improved Levenberg-Marquardt algorithm. **2021**, 30, 24-35	0
644	Sounding the Atmospheric Density at the Altitude of LARES and Ajisai during Solar Cycle 24. **2021**, 64, 125-135	
643	The Lifetimes of Plasma Structures at High Latitudes. **2021**, 126, e2020JA028117	1
642	Lower-thermosphere-ionosphere (LTI) quantities: current status of measuring techniques and models. **2021**, 39, 189-237	8
641	Power Generation on a Bare Electrodynamic Tether during Debris Mitigation in Space. **2021**, 2021, 1-13	1
640	GNSS total variometric approach: first demonstration of a tool for real-time tsunami genesis estimation. **2021**, 11, 3114	6
639	Longitudinal Variation of Postsunset Plasma Depletions From the Global-Scale Observations of the Limb and Disk (GOLD) Mission. **2021**, 126, e2020JA028510	2
638	Seasonal Variation of Vertical Heat and Energy Fluxes due to Dissipating Gravity Waves in the Mesopause Region Over the Andes. **2021**, 126, e2020JD033825	1

637	Thermospheric Impact on the Magnetosphere Through Ionospheric Outflow. **2021**, 126, e2020JA028656	1
636	Optimal Multi-Target Overflight Using Ground-Track Adjustment. **2021**, 68, 150-171	5
635	Meteor-Ablated Aluminum in the Mesosphere-Lower Thermosphere. **2021**, 126, e2020JA028792	3
634	A New Model for Ionospheric Total Electron Content: The Impact of Solar Flux Proxies and Indices. **2021**, 126, e2020JA028466	2
633	Cloud Formation From a Localized Water Release in the Upper Mesosphere: Indication of Rapid Cooling. **2021**, 126, e2019JA027285	2
632	The Thermospheric Column O/N Ratio. **2021**, 126, e2020JA029059	8
631	Inferring thermospheric composition from ionogram profiles: a calibration with the TIMED spacecraft. **2021**, 39, 309-319	
630	Association of Ionospheric Signatures to Various Tectonic Parameters During Moderate to Large Magnitude Earthquakes: Case Study. **2021**, 126, e2020JA028709	1
629	Calculating the Rate of Ionization during a GLE Event with a Global Model of Earth's Atmosphere and Estimating of the Contribution to this Process from Galactic Cosmic Ray Particles with Z > 2. **2021**, 85, 277-281	2
628	The Equatorial Electrojet. **2021**, 281-299	0
627	Thermospheric disturbances caused by the propagation of acoustic-gravity waves from the lower atmosphere during a solar eclipse. **2021**, 68, 1390-1390	2
626	Neutral Hydrogen in the Terrestrial Thermosphere and Exosphere. **2021**, 135-156	
625	Remaining Issues in Upper Atmosphere Satellite Drag. **2021**, 111-140	1
624	Theory and Modeling of Equatorial Spread F. **2021**, 185-200	1
623	Ionospheric Effects on HF Radio Wave Propagation. **2021**, 439-492	2
622	On the Effects of Mesospheric and Lower Thermospheric Oxygen Chemistry on the Thermosphere and Ionosphere Semiannual Oscillation. **2021**, 126, e2020JA028647	2
621	Data-Driven Modeling of Atomic Oxygen Airglow over a Period of Three Solar Cycles. **2021**, 126, e2020JA028991	1
620	Local K-index scales correction for the high-latitude magnetic stations. **2021**, 67, 89-99	

619	AIM-E auroral ionosphere model adjustment for the regular E layer. **2021**, 7, 41-46	2
618	Modeling the Transport of Solar Cosmic Ray Proton Fluxes through Earth's Atmosphere for the GLE42 and GLE44 Events. **2021**, 85, 273-276	
617	Dependence of the Local Index of Annual Asymmetry for NmF2 on Solar Activity. **2021**, 61, 227-233	2
616	Evidence for the Significant Differences in Response Times of Equatorial Ionization Anomaly Crest Corresponding to Plasma Fountains During Daytime and Post-Sunset Hours. **2021**, 126, e2020JA028628	1
615	Neutral-current background induced by atmospheric neutrinos at large liquid-scintillator detectors. I. Model predictions. **2021**, 103,	3
614	Automatic Scheduling Tool for Balloon-Borne Planetary Optical Remote Sensing. **2021**, 13, 1291	
613	Ionosphere and Thermosphere Coupling at Mid- and Subauroral Latitudes. **2021**, 339-368	0
612	Optimization of Radial Diffusion Coefficients for the Proton Radiation Belt During the CRRES Era. **2021**, 126, e2020JA028486	0
611	Development and Validation for Reentry Analysis Tool. **2021**,	
610	Aerodynamic and gravity gradient based attitude control for CubeSats in the presence of environmental and spacecraft uncertainties. **2021**, 180, 439-450	5
609	Comparing Electron Precipitation Fluxes Calculated From Pitch Angle Diffusion Coefficients to LEO Satellite Observations. **2021**, 126, e2020JA028410	4
608	AIM-E auroral ionosphere model adjustment for the regular E layer. **2021**, 7, 51-58	1
607	Using a network of temperature lidars to identify temperature biases in the upper stratosphere in ECMWF reanalyses. **2021**, 21, 6079-6092	4
606	On a simple, data-aided analytic description of the morphology of equatorial F-region zonal plasma drifts. **2021**, 8,	0
605	Mid-Latitude Daytime F2-Layer Disturbance Mechanism under Extremely Low Solar and Geomagnetic Activity in 2008–2009. **2021**, 13, 1514	1
604	Daytime Equatorial Spread F-Like Irregularities Detected by HF Doppler Receiver and Digisonde. **2021**, 19, e2020SW002676	3
603	Upper-Atmosphere Mass Density Variations From CASSIOPE Precise Orbits. **2021**, 19, e2020SW002645	2
602	Real-Time Thermospheric Density Estimation via Radar and GPS Tracking Data Assimilation. **2021**, 19, e2020SW002620	1

601	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment: DUNE Collaboration. **2021**, 81, 322	14
600	Effect of simultaneous N2 collisions on atomic oxygen-induced polyimide erosion in sub-low Earth orbit: comparison of laboratory and SLATS data. **2021**, 13, 389-397	2
599	Future Decreases in Thermospheric Neutral Density in Low Earth Orbit due to Carbon Dioxide Emissions. **2021**, 126, e2021JD034589	2
598	Verified Regularized Interval Orbit Propagation. **2021**, 44, 719-731	
597	Medium-term Predictions of F10.7 and F30 cm Solar Radio Flux with the Adaptive Kalman Filter. **2021**, 254, 9	1
596	A method for accurate and efficient propagation of satellite orbits: A case study for a Molniya orbit. **2021**, 60, 2661-2676	1
595	Low-Altitude Ion Upflow Observed by EISCAT and its Effects on Supply of Molecular Ions in the Ring Current Detected by Arase (ERG). **2021**, 126, e2020JA028951	0
594	The 2010 Haiti earthquake revisited: An acoustic intensity map from remote atmospheric infrasound observations. **2021**, 560, 116795	8
593	New Measurement of the Vertical Atmospheric Density Profile From Occultations of the Crab Nebula With X-Ray Astronomy Satellites Suzaku and Hitomi. **2021**, 126, e2020JA028886	2
592	Equatorial auroral records reveal dynamics of the paleo-West Pacific geomagnetic anomaly. **2021**, 118,	1
591	Modeling the dominance of the gradient drift or Kelvin–Helmholtz instability in sheared ionospheric E × B flows. **2021**, 28, 052903	3
590	Long-Term Observations of Microwave Brightness Temperatures over a Metropolitan Area: Comparison of Radiometric Data and Spectra Simulated with the Use of Radiosonde Measurements. **2021**, 13, 2061	0
589	Atmospheric drag effects on modelled low Earth orbit (LEO) satellites during the July 2000 Bastille Day event in contrast to an interval of geomagnetically quiet conditions. **2021**, 39, 397-412	0
588	Influence of a Horizontal Wind on Spacecraft Motion in a Low Earth Orbit. **2021**, 58, 915-918	
587	Case Studies on Concentric Gravity Waves Source Using Lightning Flash Rate, Brightness Temperature and Backward Ray Tracing at São Martinho da Serra (29.44°S, 53.82°W). **2021**, 126, e2020JD034527	0
586	Line-of-Sight Winds and Doppler Effect Smearing in ACE-FTS Solar Occultation Measurements. **2021**, 12, 680	
585	Nonlinear Simulations of Gravity Wave Tunneling and Breaking over Auckland Island. **2021**, 78, 1567-1582	1
584	Model simulations of chemical effects of sprites in relation with observed HO₂ enhancements over sprite-producing thunderstorms. **2021**, 21, 7579-7596	

583	Response of Background Optical Emission to Ionospheric Heating by High-Power Radio Emission. **2021**, 61, 389-398	
582	GRACE Follow-On Accelerometer Data Recovery. **2021**, 126, e2020JB021297	2
581	Roto-Translational Control of Spacecraft in Low Earth Orbit Using Environmental Forces and Torques. **2021**, 11, 4606	0
580	Inferring the Evolution of a Large Earthquake From Its Acoustic Impacts on the Ionosphere. **2021**, 2, e2020AV000260	0
579	A Method for Calculating Atmospheric Radiation Produced by Relativistic Electron Precipitation. e2021SW002735	3
578	AIM-E: E-Region Auroral Ionosphere Model. **2021**, 12, 748	3
577	Signs of anomalous behavior of the ionosphere in 2003–2014 at F1-layer heights over Irkutsk. **2021**, 7, 74-80	
576	Spectra of Acoustic-Gravity Waves in the Atmosphere with a Quasi-Isothermal Upper Layer. **2021**, 12, 818	1
575	Behavior of electron density in the ionosphere over Norilsk during the period of declining solar activity. **2021**, 7, 70-73	
574	Turbulence generated small-scale structures as PMWE formation mechanism: Results from a rocket campaign. **2021**, 217, 105559	2
573	Numerical Modeling of Coseismic Tropospheric Disturbances Arising from the Unstable Acoustic Gravity Wave Energetics. **2021**, 12, 765	
572	Temporal Evolution of Three-Dimensional Structures of Metal Ion Layer Around Japan Simulated by a Midlatitude Ionospheric Model. **2021**, 126, e2021JA029267	3
571	GNSS TEC-Based Detection and Analysis of Acoustic-Gravity Waves From the 2012 Sumatra Double Earthquake Sequence. **2021**, 126, e2020JA028507	1
570	Mid-Latitude Thermosphere-Ionosphere Na (TINa) Layers Observed With High-Sensitivity Na Doppler Lidar Over Boulder (40.13°N, 105.24°W). **2021**, 48, e2021GL093729	2
569	Property changes in materials due to atomic oxygen in the low Earth orbit. **2021**, 13, 415-432	0
568	Signs of anomalous behavior of the ionosphere in 2003–2014 at F1-layer heights over Irkutsk. **2021**, 7, 81-87	
567	TMF: A GNSS Tropospheric Mapping Function for the Asymmetrical Neutral Atmosphere. **2021**, 13, 2568	
566	RECOGNITION AND INTERPRETATION OF THE SPATIAL IRREGULARITIES IONOSPHERE FOR FEBRUARY–MARCH 2010 OVER THE SEISMIC ZONES OF SOUTH AMERICA BY RADIOPHYSICAL METHODS. **2021**, 7-23	1

565	IMK/IAA MIPAS temperature retrieval version 8: nominal measurements. **2021**, 14, 4111-4138	3
564	PROBA2 LYRA Occultations: Thermospheric Temperature and Composition, Sensitivity to EUV Forcing, and Comparisons With Mars. **2021**, 126, e2021JA029262	2
563	Modeling Responses of Polar Mesospheric Clouds to Gravity Wave and Instability Dynamics and Induced Large-Scale Motions. **2021**, 126, e2021JD034643	3
562	Six-Degree-of-Freedom Analysis of CubeSat Flight Performance in Very Low Earth Orbits. **2021**, 58, 1094-1106	
561	An Empirical Atmospheric Density Calibration Model Based on Long Short-Term Memory Neural Network. **2021**, 12, 925	1
560	Infrasound detection and altitude estimation associated with the December 22, 2020 Yushu fireball. **2021**, 8,	0
559	On the Cause of the Post-Sunset Nocturnal OI 630´nm Airglow Enhancement Over Low-Latitude Thermosphere. **2021**, 126, e2021JA029146	1
558	Impact of Attitude Model, Phase Wind-Up and Phase Center Variation on Precise Orbit and Clock Offset Determination of GRACE-FO and CentiSpace-1. **2021**, 13, 2636	4
557	Latitudinal Impacts of Joule Heating on the High-Latitude Thermospheric Density Enhancement During Geomagnetic Storms. **2021**, 126, e2020JA028747	0
556	Fusion of a machine learning approach and classical orbit predictions. **2021**, 184, 222-240	0
555	Ionospheric Response to the December 14, 2020 Total Solar Eclipse in South America. **2021**, 126, e2021JA029537	3
554	The Effect of the Thermosphere on Ionosphere Outflows. **2021**, 8,	
553	Micro Satellite Orbital Boost by Electrodynamic Tethers. **2021**, 12,	2
552	Optimization investigation of vacuum air-intake for atmosphere-breathing electric propulsion system. 095441002110298	0
551	Low-Latitude Plasma Drifts From the Horizontal Neutral Wind Model and a Coupled Ionosphere-Electric Field Model. **2021**, 126, e2020JA029056	0
550	Effect of neutral winds on the creation of non-specular meteor trail echoes. **2021**, 39, 709-719	1
549	EUV signals associated with O+ ions observed from ISS-IMAP/EUVI in the nightside ionosphere. **2021**, 73,	
548	A Globally Averaged Thermospheric Density Data Set Derived From Two-Line Orbital Element Sets and Special Perturbations State Vectors. **2021**, 126, e2021JA029455	0

547	Onset Altitudes of Co-Seismic Ionospheric Disturbances Determined by Multiple Distributions of GNSS TEC After the Foreshock of the 2011 Tohoku Earthquake on March 9, 2011. **2021**, 8, e2020EA001217	0
546	Earth Rotation Parameters Estimation Using GPS and SLR Measurements to Multiple LEO Satellites. **2021**, 13, 3046	1
545	Reverse Engineering of Perturbations in the Orbital Decay Environment from Nanosatellite Two-Line Elements. 1-13	
544	The Lifetimes of Plasma Structures at High Latitudes.	
543	Steepening Plasma Density Spectra in the Ionosphere: The Crucial Role Played by a Strong E-Region. **2021**, 126, e2021JA029401	0
542	Radar Observation of Extreme Vertical Drafts in the Polar Summer Mesosphere. **2021**, 48, e2021GL094918	5
541	About the Altitude Profile of the Atmospheric Cut-Off of Cosmic Rays: New Revised Assessment. **2021**, 296, 1	1
540	Middle-Low Latitude Neutral Composition and Temperature Responses to the 20 and 21 November 2003 Superstorm From GUVI Dayside Limb Measurements. **2021**, 126, e2020JA028427	7
539	Thermospheric Parameters during Ionospheric G-Conditions. **2021**, 13, 3440	0
538	A Global Empirical Model of the Ion Temperature in the Ionosphere for the International Reference Ionosphere. **2021**, 12, 1081	1
537	Influence of Chemical Kinetics Models on Plasma Generation in Hypersonic Flight. 1-10	0
536	Thermospheric Mass Density Disturbances Due to Magnetospheric Forcing From 2014–2020 CASSIOPE Precise Orbits. **2021**, 126, e2021JA029540	2
535	Vertical Propagation of Coseismic Ionospheric Disturbances Associated With the Foreshock of the Tohoku Earthquake Observed Using HF Doppler Sounding. **2021**, 126, e2020JA028600	0
534	Improvement of Odin/SMR water vapour and temperature measurements and validation of the obtained data sets. **2021**, 14, 5823-5857	0
533	Stagnation-point heating and ablation analysis of orbital re-entry experiment. **2021**, 33, 086102	4
532	Climatological study of the ion temperature in the ionosphere as recorded by Millstone Hill incoherent scatter radar and comparison with the IRI model. **2021**, 68, 2186-2203	3
531	Estimation of the thermospheric density using ephemerides of the CYGNSS and Swarm constellations. **2021**, 221, 105687	
530	Development and Validation of Precipitation Enhanced Densities for the Empirical Canadian High Arctic Ionospheric Model. **2021**, 19, e2021SW002779	3

529	Sentinel-6A precise orbit determination using a combined GPS/Galileo receiver. **2021**, 95, 1	2
528	Night-Time Ionospheric Localized Enhancements (NILE) Observed in North America Following Geomagnetic Disturbances. **2021**, 126, e2021JA029324	1
527	A Modeling Framework for Estimating Ionospheric HF Absorption Produced by Solar Flares. **2021**, 56, e2021RS007285	2
526	Climatology Analysis of the Daytime Topside Ionospheric Diffusive O+ Flux Based on Incoherent Scatter Radar Observations at Millstone Hill. **2021**, 126, e2021JA029222	2
525	Charged dust in the D-region incoherent scatter spectrum. **2021**, 87,	
524	Gas-surface interactions modelling infuence on satellite aerodynamics and thermosphere mass density.	3
523	Searching for light long-lived neutralinos at Super-Kamiokande. **2021**, 104,	1
522	Space Weather Services for Civil Aviation□Challenges and Solutions. **2021**, 13, 3685	3
521	Precise Orbit Determination for LEO Satellites With Ambiguity Resolution: Improvement and Comparison. **2021**, 126, e2021JB022491	2
520	A Magnetically Filtered Atomic Oxygen Plasma Source for Low-Earth-Orbit Simulation. **2021**, 58, 1406-1415	1
519	Retrieval of Airglow Emission Rates in Analytical Form for Limb-Viewing Satellite Observations at Low Latitudes. **2021**, 126, e2021JA029490	0
518	Observations of sunlit N₂⁺ aurora at high altitudes during the RENU2 flight. **2021**, 39, 849-859	
517	Statistical Characteristics of the Mid-latitude NmF2 Day-to-Day Variability During Geomagnetically Quiet Conditions at Low Solar Activity Obtained from the Dourbes and Juliusruh Ionosonde Observations. 1	0
516	Is TEC a viable ionospheric servo input?. **2021**, 220, 105667	
515	First results from the retrieved column O/N ratio from the Ionospheric Connection Explorer (ICON): Evidence of the impacts of nonmigrating tides. **2021**, 126, e2021JA029575	1
514	System modelling of very low Earth orbit satellites for Earth observation. **2021**, 187, 475-491	2
513	Locating surface deformation induced by earthquakes using GPS, GLONASS and Galileo ionospheric sounding from a single station. **2021**, 68, 3403-3416	3
512	Background model of phoswich X-ray detector on board small balloon. **2021**, 68, 3052-3063	1

511	Ionospheric conductance using different IRI F2 layer models. **2021**, 225, 105759	
510	Extensive study of radiation dose on human body at aviation altitude through Monte Carlo simulation. **2021**, 31, 1-13	
509	Design and numerical investigation on the intake of atmosphere-breathing electric propulsion. **2021**, 188, 215-228	0
508	Ring Current Decay During Geomagnetic Storm Recovery Phase: Comparison Between RBSP Observations and Theoretical Modeling. **2021**, 126,	1
507	Unusual Intensity Patterns of OH(6,2) and O(1S) Airglow Driven by Long-Period Waves Observed Over the Andes Lidar Observatory. **2021**, 126, e2020JA028091	0
506	Testing the electrodynamic method to derive height-integrated ionospheric conductances. **2021**, 39, 31-51	2
505	Responses of Thermospheric Mass Densities to the October 2016 and September 2017 Geomagnetic Storms Revealed From Multiple Satellite Observations. **2021**, 126,	7
504	Influence of Chemical Kinetics Models on Plasma Generation in Hypersonic Flight. **2021**,	1
503	Long-Term Monitoring of Energetic Protons at the Bottom of Earth Radiation Belt. **2021**, 19, e2020SW002611	
502	Variations of the neutral temperature and sodium density between 80 and 107 km above Troms during the winter of 2010 2011 by a new solid-state sodium lidar. **2014**, 119, 441-451	14
501	Thermal Conductivity of the Multicomponent Neutral Atmosphere. **2017**, 122, 12,476-12,485	3
500	Thermosphere Density Model Calibration. **2007**, 107-114	6
499	Sensitivity of Stratospheric Retrievals from Radio Occultations on Upper Boundary Conditions. **2006**, 17-26	4
498	Infrasound Propagation. **2008**, 1497-1519	9
497	Seismic Waves from Atmospheric Sources and Atmospheric/Ionospheric Signatures of Seismic Waves. **2010**, 281-304	8
496	Atmospheric Variability and Infrasound Monitoring. **2010**, 475-507	27
495	Numerical Methods to Model Infrasonic Propagation Through Realistic Specifications of the Atmosphere. **2010**, 541-573	28
494	Ground Truth Events: Assessing the Capability of Infrasound Networks Using High Resolution Data Analyses. **2010**, 599-625	12

493	Contribution of Infrasound Monitoring for Atmospheric Remote Sensing. **2010**, 629-646	25
492	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. **2010** , 115-143	11
491	EUV SpectroPhotometer (ESP) in Extreme Ultraviolet Variability Experiment (EVE): Algorithms and Calibrations. **2009**, 179-205	4
490	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. **2011**, 551-593	3
489	Estimating Currents and Electric Fields at Low Latitudes from Satellite Magnetic Measurements. **2020**, 233-254	5
488	Specification of the Ionosphere-Thermosphere Using the Ensemble Kalman Filter. **2015**, 274-283	10
487	Ground-Based Measurements of Energetic Particles by Neutron Monitors. **2018**, 95-111	4
486	The Study of Sudden Stratospheric Warmings Using Infrasound. **2019**, 723-755	11
485	Non-orographic Gravity Waves: Representation in Climate Models and Effects on Infrasound. **2019**, 827-844	4
484	Detector Development and Optimization for Space Based Astronomy from Satellites and Balloons. **2018**, 371-385	2
483	Empirical Modelling of the Thermosphere. **2012**, 21-57	2
482	Producing Density and Crosswind Data from Satellite Dynamics Observations. **2012**, 91-126	3
481	SABER Observations of Daytime Atomic Oxygen and Ozone Variability in the Mesosphere. **2011**, 75-82	4
480	DTM2013 Model Parameter Inversion and Correlation Analysis Between Its Accuracy. **2020**, 36-46	1
479	A hybrid approach for recovering high-resolution temporal gravity fields from satellite laser ranging. **2021**, 95, 1	7
478	Day-to-day variability of the bottomside ionosphere. **2020**, 205, 105299	2
477	Dynamic processes in the ionosphere during magnetic storms from the Kharkov incoherent scatter radar observations. **2007**, 7,	11
476	Ion-Neutral Collision Frequencies for Calculating Ionospheric Conductivity. **2020**, 125, e2019JA027128	0

475	Initial Observations by the GOLD Mission. **2020**, 125, e2020JA027823	30
474	Alfvenic Thermospheric Upwelling in a Global Geospace Model. **2020**, 125, e2020JA028059	4
473	Calculation of conventional and prompt lepton fluxes at very high energy. **2015**, 99, 08001	41
472	A balloon-borne 4.75 THz-heterodyne receiver to probe atomic oxygen in the atmosphere. **2020**,	1
471	. **2020**, 56, 4253-4268	5
470	Comparison of second and third generation 135.6 nm ionospheric photometers using on-orbit and laboratory results. **2019**,	2
469	Properties of the Ionosphere during an Extreme Storm. **2019**, 57, 451-458	1
468	A New Method of Orbit Prediction for LEO Satellites Using Empirical Accelerations. **2015**, 35, 715	1
467	Time-Dependent Propagation of Tsunami-Generated Acoustic-Gravity Waves in the Atmosphere. **2020**, 77, 1233-1244	1
466	Atmospheric resonances and their coupling to vibrations of the ground and waves in the ocean. **2020**, 72,	1
465	First simulations of day-to-day variability of mid-latitude sporadic E layer structures. **2020**, 72,	7
464	Sensitivity study for ICON tidal analysis. **2020**, 7, 18	7
463	RUSCOSMIC – the new software toolbox for detailed analysis of cosmic ray interactions with matter. **2016**, 2, 3-8	1
462	Registering upper atmosphere parameters in East Siberia with Fabry–Perot Interferometer KEO Scientific Arinae. **2017**, 3, 61-75	16
461	Electron density in the F1 layer over Norilsk in 2007–2014. **2019**, 5, 109-112	2
460	THE ATMOSPHERE BELOW 200 km OVER NORILSK AT SOLAR MINIMUM AND MAXIMUM. **2020**, 6, 86-89	1
459	Registering upper atmosphere parameters in East Siberia with Fabry–Perot Interferometer KEO Scientific Arinae. **2017**, 3, 70-87	6
458	Investigating seasonal features of electron temperature enhancement regions in the subauroral ionosphere. **2019**, 5, 82-89	1

457	Calculating the ionization rate induced by GCR and SCR protons in Earth atmosphere. **2019**, 5, 81-88	2
456	THE ATMOSPHERE BELOW 200 km OVER NORILSK AT SOLAR MINIMUM AND MAXIMUM. **2020**, 6, 105-109	1
455	Frequency chirped continuous-wave sodium laser guide stars: modeling and optimization. **2020**, 37, 1208	4
454	Ionospheric processes during the 7 10 November 2004 extreme geospace storm. 2. Simulation results and discussion. **2007**, 13, 77-90	2
453	Infrasound induced plasma perturbations associated with geomagnetic pulsations. **2019**, 19, 1-11	1
452	Standard: Astrodynamics - Propagation Specifications, Technical Definitions, and Recommended Practices (ANSI/AIAA S-131-2010(2016)). **2010**,	1
451	Simultaneous Orbit and Atmospheric Density Estimation for a Satellite Constellation. **2010**,	3
450	Atomic Oxygen Effects on Space Materials in Low Earth Orbit and Its Ground Evaluation. **2009**, 52, 475-483	9
449	Where Did They Come From, Where Did They Go: Grazing Fireballs. **2020**, 159, 191	3
448	A Dynamic Trajectory Fit to Multisensor Fireball Observations. **2020**, 160, 190	2
447	Application of Propagation Modeling to Verify and Discriminate Ground-Truth Infrasound Signals at Regional Distances. **2013**, 02, 39-55	9
446	The Effects of the IERS Conventions (2010) on High Precision Orbit Propagation. **2014**, 31, 41-50	4
445	Propagation of gravity waves and its effects on pseudomomentum flux in a sudden stratospheric warming event. **2020**, 20, 7617-7644	5
444	On the quality of MIPAS kinetic temperature in the middle atmosphere.	6
443	Composition changes after the "Halloween" solar proton event: the High-Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study.	7
442	Mesospheric N₂O enhancements as observed by MIPAS on Envisat during the polar winters in 2002 2004.	2
441	Seasonal variation of temperatures between 1 and 105 km altitude at 54° N observed by lidar.	1
440	Simultaneous atmospheric measurements using two Fourier transform infrared spectrometers at the Polar Environment Atmospheric Research Laboratory during spring 2006, and comparisons with the Atmospheric Chemistry Experiment-Fourier Transform Spectrometer.	10

439	Model simulation of the global circulation in the middle atmosphere for January conditions. 15, 11-16	8
438	Optimizing hydroxyl airglow retrievals from long-slit astronomical spectroscopic observations. **2017**, 10, 3093-3101	4
437	Recovery and validation of Odin/SMR long-term measurements of mesospheric carbon monoxide. **2020**, 13, 5013-5031	1
436	Global distributions of CO₂ volume mixing ratio in the middle and upper atmosphere from daytime MIPAS high-resolution spectra. **2016**, 9, 6081-6100	7
435	A perspective on the fundamental quality of GPS radio occultation data.	2
434	First experimental verification of summertime mesospheric momentum balance based on radar wind measurements at 69° N. **2015**, 33, 1091-1096	6
433	Investigation of sources of gravity waves observed in the Brazilian equatorial region on 8´April 2005. **2020**, 38, 507-516	2
432	EUV-TEC proxy to describe ionospheric variability using satellite-borne solar EUV measurements. 10, 259-263	3
431	Meteor heights during the recent solar minimum. 12, 161-165	9
430	The International Reference Ionosphere: Rawer's IRI and its status today. 12, 231-236	10
429	Delayed response of the global total electron content to solar EUV variations. 14, 175-180	12
428	IRI the International Standard for the Ionosphere. 16, 1-11	112
427	Description of the multi-approach gravity field models from Swarm GPS data. **2020**, 12, 1385-1417	16
426	Strato-mesospheric carbon monoxide profiles above Kiruna, Sweden (67.8 ° N, 20.4 ° E), since 2008. **2017**, 9, 77-89	4
425	Daedalus: a low-flying spacecraft for in situ exploration of the lower thermosphere–ionosphere. **2020**, 9, 153-191	8
424	Comprehensive assessment of the accuracy of the data from near space meteorological rocket sounding. **2013**, 62, 199601	8
423	Pole Coordinates and Length of Day from Laser Ranging of Low Earth Orbiters. **2021**, 37, 263-268	
422	Ion Heating in the Polar Cap Under Northwards IMF Bz. **2021**, 126, e2021JA029155	

421	An Investigation of Auroral E Region Energy Exchange Using Poker Flat Incoherent Scatter Radar Observations During Fall Equinox Conditions. **2021**, 126, e2021JA029371	3
420	Ionization in the Earth Atmosphere Due to Isotropic Energetic Electron Precipitation: Ion Production and Primary Electron Spectra. **2021**, 13, 4161	2
419	Challenges of the SAR-Enabled Microsatellite Concept INFANTE. 1	
418	Validation of SSUSI-derived auroral electron densities: comparisons to EISCAT data. **2021**, 39, 899-910	
417	Gravity Wave Breaking Associated with Mesospheric Inversion Layers as Measured by the Ship-Borne BEM Monge Lidar and ICON-MIGHTI. **2021**, 12, 1386	2
416	On the Electron Temperature in the Topside Ionosphere as Seen by Swarm Satellites, Incoherent Scatter Radars, and the International Reference Ionosphere Model. **2021**, 13, 4077	2
415	Nitric oxide vibrationally excited levels and controlling processes in the Earth upper atmosphere during the daytime. **2021**, 69, 905-905	0
414	Energy signature of ton TNT-class impacts: analysis of the 2018 December 22 fireball over Western Pyrenees. **2021**, 508, 5716-5733	0
413	The Potential of Remote Sensing for Neutral Atmospheric Density Estimation in a Data Assimilation System. **2005**, 53, 445-463	1
412	Intercomparison of ground-based ozone and NO₂ measurements during the MANTRA 2004 campaign.	
411	Neutral Environment. **2008**, 161-206	
410	Features of the ionosphere storm on 4-6 April 2006. **2008**, 14, 65-76	
409	Investigation and modeling of ionospheric plasma parameter variations during minimum period of the 23-th solar activity cycle. **2008**, 14, 44-56	
408	New Features of the Field-Aligned-Integrated Conductivity Model for the Brazilian Equatorial E-Region and the Implication on the Collision Rates. **2009**,	
407	Standard: Astrodynamics - Propagation Specifications, Technical Definitions, and Recommended Practices (ANSI/AIAA S-131-2010(2016)). **2010**,	
406	Guide: Guide to Reference and Standard Atmosphere Models (AIAA G-003C-2010(2016)). **2010**,	1
405	Anomalous variations in the structure of the ionospheric F 2 region at geomagnetic midlatitudes of the Southern and Northern hemispheres in going from summer to winter conditions at high solar activity. **2010**, 48, 75	
404	Guide: Guide to Reference and Standard Atmosphere Models (AIAA G-003C-2010(2016)). **2010**,	

403	Do vibrationally excited OH molecules affect middle and upper atmospheric chemistry?.	
402	Thermospheric Density: An Overview of Temporal and Spatial Variations. **2011**, 147-173	1
401	Interactions Between the Lower, Middle and Upper Atmosphere. **2011**, 1-21	
400	Introduction. **2012**, 1-19	
399	The Near-Earth Plasma Environment. **2012**, 23-112	1
398	Water vapour and the equatorial mesospheric semi-annual oscillation (MSAO).	
397	A Study on a High Precision Formation Flight Control Law. **2013**, 12, 39-45	
396	Properties of over-the-horizon propagation of infrasonic wave in the inhomogeneous atmosphere. **2013**, 62, 154302	2
395	A Simulation Study of the Effect of Geomagnetic Activity on the Global Circulation in the Earth's Middle Atmosphere. **2013**, 03, 8-19	4
394	Feasibility of Semi-Passive Surface Accommodation Control in Rarefied Flows. **2013**,	
393	Atmospheric temperature profiles estimated by the vertical wind speed observed by MST radar. **2014**, 63, 094301	3
392	Entry, Descent and Landing Systems. **2014**, 515-539	
391	IONOSPHERIC STORM OF NOVEMBER 13–14, 2012: SIMULATION RESULTS OF THERMAL AND DYNAMIC EFFECTS. **2014**, 19, 336-347	
390	Upper Atmospheric Density Retrieval from Accelerometer on Board GRACE Mission. **2015**, 105-116	
389	Re-Entry Trajectory Analysis: Prediction of Uncontrolled Atmospheric Re-entry of Orbital Objects under Operational Aspects. **2015**, 445-452	
388	Atmospheric Remnants in the Low Earth Orbit Region around 200 km Altitude. **2015**, 03, 26-32	1
387	Change in turbopause altitude at 52 and 70° N.	
386	New temperature and pressure retrieval algorithm for high-resolution infrared solar occultation spectroscopy: analysis and validation against ACE-FTS and COSMIC.	1

385 THERMAL AND DYNAMIC PROCESSES IN IONOSPHERE DURING PARTIAL SOLAR ECLIPSE OF MARCH 20, 2015 OVER KHARKIV: CALCULATION RESULTS. **2015**, 20, 295-304

384 Modeling of the effect of internal gravity waves on upper atmospheric conditions during sudden stratospheric warming. **2016**, 2, 69-73

383 Locations Where Space Weather Energy Impacts the Atmosphere. **2017**, 461-487

382 [illegible] **2017**, 441-449

381 Low-latitude ionospheric research using the CIRCE Mission: instrumentation overview. **2017**, 3

380 Dependence of the F2-layer critical frequency median at midlatitudes on geomagnetic activity. **2017**, 3, 67-73 2

379 Dependence of the F2-layer critical frequency median at midlatitudes on geomagnetic activity. **2017**, 3, 74-81 1

378 Dynamic Data-Driven Uncertainty Quantification via Polynomial Chaos for Space Situational Awareness. **2018**, 75-93 0

377 Low-Fidelity Modelling for Aerodynamic Characteristics of Re-Entry Objects. **2018**, 247-264 0

376 Electron density at F1-layer heights in the last solar minimum (2007–2009). **2018**, 4, 72-75

375 Electron density at F1-layer heights in the last solar minimum (2007–2009). **2018**, 4, 61-63

374 The polarimetric performance of the Compton spectrometer and imager (COSI). **2018**, 3

373 Characterizing temperature and water vapor of the environment using the standardized atmosphere generator (SAG) empirical model. **2018**,

372 Modeling atomic oxygen nightglow during the strong magnetic storm on 20 November 2003. **2018**,

371 Practical Uncertainty Quantification in Orbital Mechanics. **2019**, 291-328

370 Parameter Characterization of High Latitude Geomagnetic Storms in 2010. **2019**, 07, 163-170

369 Investigating seasonal features of electron temperature enhancement regions in the subauroral ionosphere. **2019**, 5, 62-68

368 Electron density in the F1 layer over Norilsk in 2007–2014. **2019**, 5, 124-128

367	Calculating the ionization rate induced by GCR and SCR protons in Earth atmosphere. **2019**, 5, 68-74	2
366	Modeling of the Photoelectron Space-Energy Distribution Based on a Contemporary Coupled Photon-Electron Transport Approach.	
365	Observations of the Nickel Layer in the Mesopause Region at Mid-Latitudes. **2020**, 237, 04004	
364	Probing the analytical cancellation factor relation using Na lidar and nightglow data from the Andes Lidar Observatory.	
363	Electron density in the polar {itshape F} region ionosphere during solar minimum: modeling, radar and ionosonde observations. **2020**, 20, 1-16	
362	Specific Features of Radiation Transfer in the Hydrogen Lyman-alpha Line and Their Possible Relationship with Changes in the Electron Concentration in the Ionospheric D Region. **2020**, 60, 325-334	
361	Lower-thermosphere response to solar activity: an empirical-mode-decomposition analysis of GOCE 2009–2012 data. **2020**, 38, 789-800	2
360	Uncertainty Propagation Using Hybrid Methods. **2021**, 709-717	
359	High-altitude free fall and parameter estimation for undergraduate numerical techniques laboratory. **2020**, 41, 055803	
358	The response of optical emission on heating of the ionosphere by powerful radio wave. **2020**,	
357	Simplicial Homology Global Optimisation in the Problem of Point-to-Point Ionospheric Ray Tracing. **2020**,	0
356	The Current State and Future Directions of Modeling Thermosphere Density Enhancements During Extreme Magnetic Storms. **2021**, 8,	2
355	Topside Measurements at Jicamarca During the 2019-2020 Deep Solar Minimum.. **2021**, 126, e2021JA029695	0
354	Deriving column-integrated thermospheric temperature with the N₂ Lyman–Birge–Hopfield (2,0) band. **2021**, 14, 6917-6928	
353	Modeling of the Photoelectron Space-Energy Distribution Based on a Contemporary Coupled Photon-Electron Transport Approach.	
352	Radiosonde-Based New Spatiotemporal Modelling for the Construction of Temperature Profiles for GNSS Applications. **2020**, 232-239	
351	Establishment of the Ground Evaluation and Operational Training System of Artificial Meteor Micro-satellite ALE-1. **2020**, 18, 84-92	1
350	Time-dependent responses of the neutral mass density to fixed magnetospheric energy inputs into the cusp region in the thermosphere during a period of large IMF BY: a high-resolution two-dimensional local modeling. **2021**, 73,	1

349	Electron Lifetimes and Diffusion Rates Inferred From ELFIN Measurements at Low Altitude: First Results. **2021**, 126, e2021JA029757	5
348	Estimation of Ion Temperature in the Upper Ionosphere Along the Swarm Satellite Orbits. **2021**, 8, e2021EA001925	0
347	Taurid Stream #628: A Reservoir of Large Cometary Impactors. **2021**, 2, 223	0
346	Effect of the physicochemical models of the Direct Simulation Monte Carlo method on the aerodynamic characteristics of reentry vehicles. **2020**, 27, 489-506	
345	Comparison of the Intensity of the Nighttime Scattered Atmospheric Radiation in the Lyman-Alpha Line from OGO-4 Satellite Measurements and Calculations. **2020**, 60, 489-494	
344	A self-consistent method for the simulation of meteor trails with an application to radio observations. **2020**, 641, A100	1
343	A technical description of the Balloon Lidar Experiment (BOLIDE). **2020**, 13, 5681-5695	1
342	ESTIMATED RELATIONS BETWEEN THE MAIN THERMOSPHERIC NEUTRAL COMPONENTS AT IONOSPHERIC F1-LAYER HEIGHTSABOVE IRKUTSK IN 2014–2017. **2020**, 6, 90-93	
341	ESTIMATED RELATIONS BETWEEN THE MAIN THERMOSPHERIC NEUTRAL COMPONENTS AT IONOSPHERIC F1-LAYER HEIGHTSABOVE IRKUTSK IN 2014–2017. **2020**, 6, 110-114	
340	Atomic-Scale Simulations of Meteor Ablation. **2020**, 125,	2
339	King-Hele orbit theory for periodic orbit and attitude variations. **2020**, 501, 1168-1187	
338	Effects of nonlinear interactions of spectral components of acoustic-gravity waves in the atmosphere. **2020**,	
337	Retrieval of daytime mesospheric ozone using OSIRIS observations of O₂ (<i>a</i>¹Δ_g) emission. **2020**, 13, 6215-6236	2
336	Multi-Objective Optimisation under Uncertainty with Unscented Temporal Finite Elements. **2021**, 9, 3010	
335	Ionospheric Plasma Vertical Drift and Zonal Wind Variations Cause Unusual Evolution of EPBs During a Geomagnetically Quiet Night. **2021**, 126, e2021JA029893	1
334	Conjugate photoelectron energy spectra derived from coincident FUV and radio measurements.	0
333	Exploring possible long orbital existence of submicronic man-made particles injected in the near-Earth space on geostationary orbit. **2021**, 69, 1564-1564	
332	Compact Thermal Imager (CTI) for Atmospheric Remote Sensing. **2021**, 13, 4578	0

331	Observing electric field and neutral wind with EISCAT 3D. **2021**, 39, 961-974	0
330	Occurrence and Variations of Middle and Low Latitude Sporadic E Layer Investigated With Longitudinal and Latitudinal Chains of Ionosondes. **2021**, 19, e2021SW002942	1
329	Regulation of ionospheric plasma velocities by thermospheric winds.. **2021**, 14, 893-898	4
328	Comparison of a Neutral Density Model With the SET HASDM Density Database. **2021**, 19, e2021SW002888	0
327	Spectral Analysis of Individual Terrestrial Gamma-Ray Flashes Detected by ASIM. **2021**, 126, e2021JD035347	0
326	Millicharged particles from the heavens: single- and multiple-scattering signatures. **2021**, 2021, 1	1
325	Solar EUV-Enhancement and Thermospheric Disturbances. **2021**, 19, e2021SW002840	
324	Fragmentation analysis of a break-up event in low earth orbit. **2021**,	0
323	Seasonal and Solar Cycle Dependence of Energy Transfer Rates in the Auroral E-Region. **2021**, 126, e2021JA029719	
322	Thermospheric Composition and Solar EUV Flux From the Global-Scale Observations of the Limb and Disk (GOLD) Mission. **2021**, 126, e2021JA029517	8
321	Modelling Inner Proton Belt Variability at Energies 1 to 10MeV using BAS-PRO.	0
320	The Possible Role of Turbopause on Sporadic-E Layer Formation at Middle and Low Latitudes. **2021**, 19, e2021SW002883	1
319	A Single-Mode Approximation for Gravity Waves in the Thermosphere.	
318	A Review of Grid-Based, Time-Domain Modeling of Electromagnetic Wave Propagation involving the Ionosphere. **2021**, 1-1	1
317	Variation in the D-region ionosphere after the 2015 Nepal earthquake using LF transmitter signals. **2021**, 40, 1-9	
316	Comparison of atmospheric mass density models using a new data source: COSMIC satellite ephemerides. **2021**, 1-1	
315	Nonlinear effects in natural and artificial aurora. **2022**, 345-479	
314	Impacts of Lower Thermospheric Atomic Oxygen and Dynamics on Thermospheric Semiannual Oscillation using GITM and WACCM-X.	1

313	Predicting the Daily 10.7-cm Solar Radio Flux Using the Long Short-Term Memory Method. **2022**, 8, 30	5
312	CASPA-ADM: a mission concept for observing thermospheric mass density. 1	0
311	Re-entry prediction of objects with low-eccentricity orbits based on mean ballistic coefficients. **2020**, 29, 210-219	
310	Pole coordinates and length of day from laser ranging of low Earth orbiters. **2021**, 37, 66-73	
309	Atmospheric Environment Data Generation Method Based on Stacked LSTM-GRU. **2021**,	0
308	Effects of EMIC Wave-Driven Proton Precipitation on the Ionosphere. **2022**, 127,	1
307	Statistical Characterization of GITM Thermospheric Horizontal Winds in Comparison to GOCE Estimations.	
306	Evidence for short temporal atmospheric variations observed by infrasonic signals. Part 1: the troposphere..	1
305	Performance evaluation of a plasma generator and ion optics for air-breathing ion engine. 1	1
304	Stagnation-Point Ablation Analysis of Orbital Re-Entry Experiment. **2022**,	
303	An electrodynamics model for Data Interpretation and Numerical Analysis of ionospheric Missions and Observations (DINAMO). **2022**, 9,	0
302	On the force of vertical winds in the upper atmosphere: consequences for small biological particles.. **2022**, 478, 20210626	1
301	Calibrating GNSS phase biases with onboard observations of low earth orbit satellites. **2022**, 96, 1	0
300	Simultaneous Action of X- and O-Mode HF Pump Waves on the High-Latitude Upper (F-Region) Ionosphere at EISCAT. **2022**, 8, 91	
299	Thermospheric density enhancement and limb O 130.4 ́nm radiance increase during geomagnetic storms. **2022**, 229, 105830	1
298	High-Latitude Electrodynamics Specified in SAMI3 Using AMPERE Field-Aligned Currents. **2022**, 20,	0
297	Subauroral geospace. **2022**, 481-610	0
296	The Mid- to High-Latitude Migrating Semidiurnal Tide: Results From a Mechanistic Tide Model and SuperDARN Observations. **2022**, 127,	

295	A Modeling Analysis of the Apparent Linear Relation Between Mesospheric Temperatures and Meteor Height Distributions Measured by a Meteor Radar. **2022**, 127,	
294	Studying nighttime nitric oxide emission at 5.3 μm during the geomagnetic storm in the Earth's ionosphere. **2022**, 367,	
293	A decentralised approach for formation flying reconfiguration and maintenance using GNSS-based navigation. **2022**,	
292	Assessment of ERA-5 Temperature Variability in the Middle Atmosphere Using Rayleigh LiDAR Measurements between 2005 and 2020. **2022**, 13, 242	1
291	A Comparison of the Mid-latitude Nickel and Sodium Layers in the Mesosphere: Observations and Modeling.	0
290	Validation of regional and global ionosphere maps from GNSS measurements versus IRI2016 during different magnetic activity. **2022**,	
289	Rapid Conjugate Appearance of the Giant Ionospheric Lamb Wave in the Northern Hemisphere After Hunga-Tonga Volcano Eruptions.	2
288	Ionization effect in the Earth's atmosphere due to cosmic rays during the GLE # 71 on 17 May 2012. **2022**,	1
287	A framework to estimate local atmospheric densities with reduced drag-coefficient biases.	
286	Forecasting global and multi-level thermospheric neutral density and ionospheric electron content by tuning models against satellite-based accelerometer measurements.. **2022**, 12, 2095	0
285	Evaluation of Empirical Atmospheric Models Using Swarm-C Satellite Data. **2022**, 13, 294	7
284	Orbital Maneuver Evaluation of Micro-satellite ALE-1 with a Separable Drag Sail. **2022**,	
283	COMPASS: A New COnductance Model Based on PFISR And SWARM Satellite Observations. **2022**, 20,	0
282	Rarefied Flow Simulation of Conical Intake and Plasma Thruster for Very Low Earth Orbit Spaceflight. **2022**, 10,	0
281	Analysis of Precise Orbit Determination for the HY2D Satellite Using Onboard GPS/BDS Observations. **2022**, 14, 1390	1
280	Using Temporal Relationship of Thermospheric Density with Geomagnetic Activity Indices and Joule Heating as Calibration for NRLMSISE-00 During Geomagnetic Storms.	1
279	Exospheric Temperature Measured by NASA-GOLD Under Low Solar Activity: Comparison With Other Data Sets. **2022**, 127,	1
278	Simulation of Infrasonic Acoustic Wave Imprints on Airglow Layers During the 2016 M7.8 Kaikoura Earthquake. **2022**, 127,	0

277	A Study on Monte Carlo Simulation of the Radiation Environment above GeV at the DAMPE Orbit. **2022**, 22, 045011	
276	Influence analysis of Waverider wake on the deflection rate of light. 1	
275	Identification of Acoustic Wave Signatures in the Ionosphere From Conventional Surface Explosions Using MF/HF Doppler Sounding. **2022**, 57,	0
274	Quasi-Trapped Electron Fluxes Induced by NWC Transmitter and CRAND: Observations and Simulations. **2022**, 49,	1
273	Measurement of Galactic 26Al with the Compton Spectrometer and Imager. **2022**, 928, 119	1
272	Comparison of mesospheric sodium profile retrievals from OSIRIS and SCIAMACHY nightglow measurements. **2022**, 22, 3191-3202	0
271	Investigations of the Ballistic Coefficient Estimation Methods to Improve Accuracy of Reentry Analysis. **2022**,	0
270	Long-Range Multi-Year Infrasonic Detection of Eruptive Activity at Mount Michael Volcano, South Sandwich Islands. **2022**, 49,	1
269	PicSat Enduring Legacy. Probing the Flight of a Small Astronomical Satellite. **2022**, 134, 034501	
268	Investigation of near-surface chemical explosions effects using seismo-acoustic and synthetic aperture radar analyses.. **2022**, 151, 1575	0
267	Numerical Modeling of the General Circulation of the Earth Lower and Middle Atmosphere in Mid-January. **2022**, 86, 354-363	
266	Electron neutral collisions effects on Langmuir probe in the lower E-region ionosphere. **2022**, 29, 033511	
265	Drag Coefficient Constraints for Space Weather Observations in the Upper Thermosphere.	1
264	Level 2 processor and auxiliary data for ESA Version 8 final full mission analysis of MIPAS measurements on ENVISAT. **2022**, 15, 1871-1901	0
263	3D Numerical Simulation of Secondary Wave Generation From Mountain Wave Breaking Over Europe. **2022**, 127,	2
262	Plasma-neutral gas interactions in various space environments: Assessment beyond simplified approximations as a Voyage 2050 theme. 1	0
261	Simulation and optimization of Fe resonance fluorescence lidar performance for temperature-wind measurement.. **2022**, 30, 13278-13293	
260	Numerical Simulations on Day-to-Day Variations of Low-Latitude Es Layers at Arecibo. **2022**, 49,	1

259	A method for the experimental characterisation of novel drag-reducing materials for very low Earth orbits using the Satellite for Orbital Aerodynamics Research (SOAR) mission. 1	0
258	Differential Ablation of Organic Coatings from Micrometeoroids Simulated in the Laboratory.	1
257	Analysis of Reentry and Break-Up Forces from Impulse Facility Experiments and Numerical Rebuilding. 1-13	2
256	On the Importance of Using Event-Specific Wave Diffusion Rates in Modeling Diffuse Electron Precipitation. **2022**, 127,	0
255	On the detection of direct Cherenkov light from ultrahigh-energy cosmic rays. **2022**, 102706	
254	Modeling and probabilistic analysis of civil aircraft operational risk for suborbital disintegration accidents.. **2022**, 17, e0266514	
253	Machine-Learned HASDM Thermospheric Mass Density Model With Uncertainty Quantification. **2022**, 20,	2
252	New method for Earth neutral atmospheric density retrieval based on energy spectrum fitting during occultation with LE/Insight-HXMT. **2022**, 69, 3426-3434	1
251	ADBSat: Verification and validation of a novel panel method for quick aerodynamic analysis of satellites. **2022**, 275, 108327	0
250	The F10.7 Solar Radio Flux Prediction Based On LSTM Neural Network. **2021**,	
249	Comparison of Three Methodologies for Removal of Random-Noise-Induced Biases From Second-Order Statistical Parameters of Lidar and Radar Measurements. **2022**, 9,	
248	Scale Factors of the Thermospheric Density: A Comparison of Satellite Laser Ranging and Accelerometer Solutions. **2021**, 126,	0
247	Modelling the influence of meteoric smoke particles on artificial heating in the D-region. **2021**, 39, 1055-1068	0
246	Improved Neutral Density Predictions Through Machine Learning Enabled Exospheric Temperature Model. **2021**, 19,	1
245	HEPPA III Intercomparison Experiment on Electron Precipitation Impacts: 1. Estimated Ionization Rates During a Geomagnetic Active Period in April 2010. **2022**, 127,	3
244	Heppa III Intercomparison Experiment on Electron Precipitation Impacts: 2. Model-Measurement Intercomparison of Nitric Oxide (NO) During a Geomagnetic Storm in April 2010. **2022**, 127,	1
243	A New MEPED-Based Precipitating Electron Data Set. **2021**, 126,	1
242	Primary Versus Secondary Gravity Wave Responses at F-Region Heights Generated by a Convective Source. **2022**, 127,	2

241	Non-gravitational force measurement and correction by a precision inertial sensor of TianQin-1 satellite.	0
240	Measurements of natural radiation with an MDU Liulin type device at ground and in the atmosphere at various conditions in the Arctic region. **2022**, 106757	0
239	Simulation of ionospheric perturbations induced by rocket-propelled vehicle: a semi-empirical approach.	
238	Calculation of the atmospheric cosmic ray flux and dosimetry with EXPACS code.	
237	Design of Meteor and ionospheric Irregularity Observation System and First Results.	1
236	Rapid Conjugate Appearance of the Giant Ionospheric Lamb Wave Signatures in the Northern Hemisphere After Hunga-Tonga Volcano Eruptions.	7
235	La Soufriere Volcanic Eruptions Launched Gravity Waves Into Space. **2022**, 49,	2
234	The Molecular Oxygen Density Structure of the Lower Thermosphere as Seen by GOLD and Models.	
233	storm time neutral density assimilation in the thermosphere ionosphere with tida.	
232	A planning tool for optimal three-dimensional formation flight maneuvers of satellites in VLEO using aerodynamic lift and drag via yaw angle deviations. **2022**,	1
231	Extended Kalman filter-based precise orbit estimation of LEO satellites using GPS range measurements. **2022**, 55, 235-240	0
230	Studying Specific Features of the Propagation of Atmospheric Waves Generated by Tropospheric Sources and Variations in the Surface Pressure. **2022**, 58, 30-43	
229	Modeling Seasonal Variations in the Intensity of Internal Gravity Waves in the Lower Thermosphere. **2022**, 58, 68-79	0
228	Key parameters governing the ground risk from reentering pressure vessel debris. **2022**, 9, 189-189	0
227	Imager observation of concentric mesospheric gravity waves over Srinagar, Jammu and Kashmir, India. **2022**,	
226	Copernicus Sentinel‐1 POD Reprocessing Campaign. **2022**,	0
225	The AETHER project: development of air-breathing electric propulsion for VLEO missions.	1
224	Orbit-localised thermosphere density prediction using a Kalman filter based calibration of empirical models. **2022**,	

223	Time-Dependent Electron Transport I Modelling of Supra-thermal Electron Bursts modulated at 5□10 Hz with Implications for Flickering Aurora.	
222	Vertical Coupling by Solar Semidiurnal Tides in the Thermosphere From ICON/MIGHTI Measurements. **2022**, 127,	2
221	Uncertainty quantification techniques for data-driven space weather modeling: thermospheric density application.. **2022**, 12, 7256	1
220	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga.. **2022**, eeeeeeeeeee	18
219	Dynamic Data-Driven Uncertainty Quantification via Polynomial Chaos for Space Situational Awareness. **2022**, 81-99	
218	A New Global Ionospheric Electron Density Model Based on Grid Modeling Method.	2
217	????????????????. **2022**,	1
216	Analysis of Precise Orbit Determination for Maneuvering HY2C and HY2D Satellites Using DORIS/RINEX Data. **2022**,	
215	Statistical Characteristics of High-frequency Gravity Waves Observed by an Airglow Imager at Andes Lidar Observatory.	0
214	Active Precipitation of Radiation Belt Electrons using Rocket Exhaust Driven Amplification (REDA) of Man-Made Whistlers.	1
213	Imaging Low-Energy Ion Outflow in the Auroral Zone. **2022**, 9,	
212	Locally optimal control laws for Earth-bound solar sailing with atmospheric drag. **2022**, 107666	1
211	Monopoles from an Atmospheric Fixed Target Experiment. **2022**, 128,	0
210	Satellite Drag Coefficient modeling for Thermosphere Science and Mission Operations. **2022**,	0
209	Asymmetric Development of Equatorial Plasma Bubbles Observed at Geomagnetically Conjugate Points Over the Brazilian Sector. **2022**, 127,	0
208	Impact of Soft Electron Precipitation on the Thermospheric Neutral Mass Density During Geomagnetic Storms: GITM Simulations. **2022**, 49,	1
207	IMS observations of infrasound and acoustic-gravity waves produced by the January 2022 volcanic eruption of Hunga, Tonga: A global analysis. **2022**, 591, 117639	6
206	Improvement of orbit prediction accuracy using extreme gradient boosting and principal component analysis. **2022**, 31, 229-243	

205 Measurement of the vertical atmospheric density profile from the X-ray Earth occultation of the Crab Nebula with Insight-HXMT. **2022**, 15, 3141-3159 0

204 Validation of enabling technologies for deorbiting devices based on electrodynamic tethers. **2022**, 1

203 Optimal Conflict Management Strategies for Balloon-Airship Encounters in Upper Class E Traffic Management (ETM). **2022**,

202 A code for the analysis of missions with electrodynamic tethers. **2022**, 2

201 Vector spherical harmonics for data-assimilative neutral wind estimation.

200 Direct Numerical Simulations of Nonlinear Infrasound Propagation in the Atmosphere. **2022**,

199 An optimal estimation-based retrieval of upper atmospheric oxygen airglow and temperature from SCIAMACHY limb observations. **2022**, 15, 3721-3745

198 Seasonal Variation of Thermospheric Composition Observed by NASA GOLD. **2022**, 127, 4

197 Effective Solar-Activity Index for Short-Term Forecasting of the Mean Solar-Activity Index. **2022**, 62, 178-181 0

196 A new ambiguity resolution method for LEO precise orbit determination. **2022**, 96,

195 Reconstruction of precipitating electrons and three-dimensional structure of a pulsating auroral patch from monochromatic auroral images obtained from multiple observation points. **2022**, 40, 475-484

194 Modeling the Albedo Neutron Decay Source of Radiation Belt Electrons and Protons. **2022**, 127,

193 Vertical Transport of Sensible Heat and Meteoric Na by the Complete Temporal Spectrum of Gravity Waves in the MLT Above McMurdo (77.84S, 166.67E), Antarctica.

192 Correlation between waverider shock waves and aerodynamic forces in supersonic rarefied flow, experimental investigation in the wind tunnel MARHy. **2022**,

191 Recent development of intake devices for atmosphere-breathing electric propulsion system. **2022**, 133, 100848 1

190 Times of Existence of Technogenic Microparticles Injected into Near-Earth Space in a Geostationary Orbit. **2022**, 60, 275-281

189 Investigating Cosmic Ray Elemental Spectra and the Atmospheric Muon Neutrino Flux. **2022**,

188 A numerical approach to evaluate temperature-dependent peridynamics damage model for destructive atmospheric entry of spacecraft. 1-30

187	Direct determination of geomagnetic baselines during quiet periods for low- and mid-latitude observatories.	
186	CHESS: Measuring the Dynamics of Composition and Density of Earth's Upper Atmosphere with CubeSats. **2022**,	0
185	?????????????????. **2022**,	
184	Topside equatorial spread F-related field-aligned Poynting flux: observations and simulations. **2022**, 74,	0
183	On the Kinetic Theory of Subauroral Arcs. **2022**, 127,	2
182	Relativistic location algorithm in curved spacetime. **2022**, 106,	
181	Analysis of Electron Precipitation and Ionospheric Density Enhancements Due To Hiss Using Incoherent Scatter Radar and Arase Observations. **2022**, 127,	1
180	Thermospheric parameters contribution to the formation of Yakutsk F2-layer diurnal summer time anomaly. **2022**, 12,	
179	Analysis of Orbital Atmospheric Density from QQ-Satellite Precision Orbits Based on GNSS Observations. **2022**, 14, 3873	0
178	Investigations on Concentric Gravity Wave Sources over the Brazilian Equatorial Region.	0
177	Ejection velocities, age, and formation process of SPE meteoroid cluster.	0
176	Numerical Modeling of Tsunami-Generated Acoustic-Gravity Waves in Mesopause Airglow. **2022**, 127,	
175	Similarities of Acoustic-Gravity Waves Propagating to the Upper Atmosphere from Tropospheric Heat Sources and Related Surface Pressure Perturbations. **2022**,	
174	Arecibo measurements of D-region electron densities during sunset and sunrise: implications for atmospheric composition. **2022**, 40, 519-530	1
173	Predicting infrasound transmission loss using deep learning.	0
172	Accelerating Earth-bound dark matter. **2022**, 106,	0
171	Sensitivity of the 4□0-Day Planetary Wave Structures in the Middle Atmosphere to the Solar Activity Effects in the Thermosphere. **2022**, 13, 1325	
170	Improving estimates of the ionosphere during geomagnetic storm conditions through assimilation of thermospheric mass density. **2022**, 74,	

169	A Test of Energetic Particle Precipitation Models Using Simultaneous Incoherent Scatter Radar and Van Allen Probes Observations. **2022**, 127,	0
168	Connecting energy input with ionospheric upflow and outflow.	1
167	A Nonlinear Numerical Model for Comparative Study of Acoustic-Gravity Wave Propagation in Planetary Atmospheres: Application to Earth and Mars. **2022**, 127,	
166	Neutral Composition Information in ICON EUV Dayglow Observations. **2022**, 127,	0
165	Global Gravity Field Model from Taiji-1 Observations. **2022**, 34,	
164	Specifying Satellite Drag Through Coupled Thermosphere-Ionosphere Data Assimilation of Radio Occultation Electron Density Profiles. **2022**, 20,	2
163	Multiplexed MPC attitude control of a moving mass satellite using dual-rate piecewise affine model. **2022**, 128, 107778	0
162	Hadrophilic light dark matter from the atmosphere. **2022**, 833, 137363	0
161	Tracklet-to-object matching for climbing Starlink satellites through recursive orbit determination and prediction.	0
160	Modeling of Diurnal Variation Characteristics of VLF Wave Propagation in Earth-Ionosphere Waveguide with FDTD Method. **2022**, 1-5	0
159	Wind Effects in the Thermosphere during the Propagation of Atmospheric Waves Generated by a Tropospheric Heat Source. **2022**, 62, 453-459	0
158	Review of Environmental Monitoring by Means of Radio Waves in the Polar Regions: From Atmosphere to Geospace.	0
157	A Case Study of Midlatitude Noctilucent Clouds and Its Relationship to the Secondary-Generation Gravity Waves Over Tropopause Inversion Layer. **2022**, 127,	1
156	Observations of the October Draconid outburst at different latitudes along 120°E. **2022**, 516, 5538-5543	0
155	Suggestions on the teaching of atmospheric pressure at university and secondary school levels. **2022**, 57, 065022	0
154	The International Reference Ionosphere model: A review and description of an ionospheric benchmark.	2
153	Survival of Terrestrial N2D2 Atmospheres in Violent XUV Environments through Efficient Atomic Line Radiative Cooling. **2022**, 937, 72	0
152	Constraining the Upper Level Vibrational Populations of the N 2 Lyman-Birge-Hopfield Band System Using GOLD Mission's Dayglow Observations. **2022**, 127,	0

151	0-D composition and performance analysis of an air-breathing radiofrequency ion thruster. **2022**, 1,	0
150	Computation of Artificial Meteors Trajectory and Ablation.	0
149	Station-dependent satellite laser ranging measurement corrections for TOPEX/Poseidon. **2022**,	0
148	Air-breathing electric propulsion: mission characterization and design analysis. **2022**, 1,	0
147	Design and optimisation of a passive Atmosphere-Breathing Electric Propulsion (ABEP) intake. **2022**,	0
146	How do gravity waves triggered by a typhoon propagate from the troposphere to the upper atmosphere?. **2022**, 22, 12077-12091	0
145	Estimated equivalent radiation dose at different altitudes in Earth atmosphere. **2022**, 8, 27-31	0
144	Estimated equivalent radiation dose at different altitudes in Earth atmosphere. **2022**, 8, 29-34	0
143	Uncertainty-aware Cube algorithm for medium-term collision risk assessment. **2022**,	0
142	Description and comparison of 21st century thermosphere data. **2022**,	0
141	Determining the Origin of Tidal Oscillations in the Ionospheric Transition Region With EISCAT Radar and Global Simulation Data. **2022**, 127,	0
140	Stratospheric Balloon Observations of Infrasound Waves From the 15 January 2022 Hunga Eruption, Tonga. **2022**, 49,	2
139	Analysis of upper atmospheric effects on material per onboard atomic oxygen monitor system of SLATS. 3,	0
138	Thermospheric Conditions Associated With the Loss of 40 Starlink Satellites. **2022**, 20,	3
137	NRLMSIS 2.1: An Empirical Model of Nitric Oxide Incorporated Into MSIS. **2022**, 127,	1
136	Optimisation of satellite geometries in Very Low Earth Orbits for drag minimisation and lifetime extension. **2022**, 201, 340-352	0
135	A New Exospheric Temperature Model Based on CHAMP and GRACE Measurements. **2022**, 14, 5198	0
134	Decay times of atmospheric acoustic gravity waves after deactivation of wave forcing. **2022**, 22, 13713-13724	0

133	Two-Dimensional Local Modeling of Thermospheric Heating and Neutral Mass Density Enhancement Driven by Alfvén Waves. **2022**, 127,	0
132	Seismic induced Ground deformation and Ionospheric perturbations of the 29 th July 2021, M w 8.2 Chignik earthquake, Alaska.	0
131	On the green isolated proton auroras during Canada thanksgiving geomagnetic storm. 9,	0
130	Seasonal Oscillations of Thermosphere Neutral Density at Dusk/Dawn as Measured by Three Satellite Missions. **2022**, 127,	0
129	Solar Cycle, Seasonal, and Dawn-To-Dusk Variations of the Hydrogen in the Upper Thermosphere. **2022**, 127,	0
128	A Novel Method to Derive Exospheric Temperatures from Swarm Thermospheric Densities during Quiet Times. **2022**, 14, 5382	0
127	Research on the Measurement Accuracy of Shipborne Rayleigh Scattering Lidar. **2022**, 14, 5033	0
126	Simulation Calculation of Element Number Density in the Earth's Atmosphere Based on X-ray Occultation Sounding. **2022**, 14, 4971	0
125	A Comparative Study of Ionospheric Response to Solar Flares at Earth, Venus, and Mars. **2022**, 939, 23	0
124	Cooling and Contraction of the Mesosphere and Lower Thermosphere from 2002 to 2021.	3
123	Comparison between Different Re-Entry Technologies for Debris Mitigation in LEO. **2022**, 12, 9961	0
122	Ionospheric D region: VLF-measured Electron Densities compared with Rocket-Based FIRI-2018 Model.	2
121	Space Weather Environment During the SpaceX Starlink Satellite Loss in February 2022.	4
120	Altitude Extension of the NCAR-TIEGCM (TIEGCM-X) and Evaluation. **2022**, 20,	0
119	Preliminary design and study of 5N HTP monopropellant thruster for small satellites. **2023**, 202, 94-103	0
118	Modeling and correction of fringe patterns in Dopplerasymmetric spatial heterodyne interferometry.	1
117	Large-Scale Depletion of Nighttime Oxygen Ions at the Low and middle Latitudes in the Winter Hemisphere.	0
116	Space Weather Effects Observed in the Northern Hemisphere during November 2021 Geomagnetic Storm: The Impacts on Plasmasphere, Ionosphere and Thermosphere Systems. **2022**, 14, 5765	2

115	Orbital error propagation considering atmospheric density uncertainty. **2022**,	0
114	Rotational temperatures retrival from the Arecibo Observatory Ebert-Fastie spectrometer and their inter-comparison with Lidar and SABER measurements.	0
113	Validation of Atmospheric Absorption Models within the 20–50 GHz Band by Simultaneous Radiosonde and Microwave Observations: The Advantage of Using ECS Formalism. **2022**, 14, 6042	0
112	Thermosphere Neutral Densities at Dusk/Dawn Derived from Space-Borne Atmospheric Density Detectors. **2023**, 79-92	0
111	On the importance of neutral composition and temperature measurements in the 100–200 km altitude region. 9,	0
110	Automated Plume Sentry Observations During International Space Station Thermal Control System Venting. 1-12	0
109	Sources of concentric gravity waves generated by a moving mesoscale convective system in southern Brazil. **2022**, 22, 15153-15177	0
108	Direct measurement of decimetre-sized rocky material in the Oort cloud.	0
107	Ionospheric response modeling under eclipse conditions: Evaluation of 14 December 2020, total solar eclipse prediction over the South American sector. 9,	0
106	Generation of equatorial plasma bubble after the 2022 Tonga volcanic eruption.	0
105	Signature of gravity wave propagations from the troposphere to ionosphere. **2022**, 40, 665-672	1
104	The state-of-the-art model atmosphere from the surface to 110 km over the Indian tropical region for ISRO launching vehicle applications: Developed from in-situ and space-based measurements.	0
103	Improving the estimation of thermospheric neutral density via two-step assimilation of in situ neutral density into a numerical model. **2022**, 74,	0
102	A review of air-breathing electric propulsion: from mission studies to technology verification. **2022**, 1,	0
101	Meso-Scale Electrodynamic Coupling of the Earth Magnetosphere-Ionosphere System. **2022**, 218,	0
100	A Method for Imaging Energetic Particle Precipitation with Subionospheric VLF Signals.	0
99	sami2py: Overview and applications. 9,	0
98	Neutral Atmospheric Density Measurement Using Insight-HXMT Data by the Earth Occultation Technique. **2023**, 264, 5	0

97	A Short-Term Forecast for Parameters of the F2 Layer. **2022**, 62, 724-736	0
96	pyGPI5: A python D- and E-region chemistry and ionization model. 9,	0
95	Resolution of the equatorial spread F problem: Revisited. 9,	0
94	Estimation of the Number of Sprites Observed over Japan in 5.5 Years Using Lightning Data. **2023**, 14, 105	0
93	Physics-based Approach to Thermospheric Density Estimation using CubeSat GPS Data.	0
92	Controlling factors of artificial irregularities triggered by chemical release at low latitude ionosphere.	0
91	Thermal analysis of a high-altitude solar platform.	0
90	Daedalus MASE (mission assessment through simulation exercise): A toolset for analysis of in situ missions and for processing global circulation model outputs in the lower thermosphere-ionosphere. 9,	0
89	Simulation of orbital decay of LEO satellites due to atmospheric drag during magnetic storms. **2022** ,	0
88	Development of Passive Guidance Scheme for the Sample Return System from the International Space Station. **2022**,	0
87	A Methodology of Retrieving Volume Emission Rate from Limb-Viewed Airglow Emission Intensity by Combining the Techniques of Abel Inversion and Deep Learning. **2023**, 14, 74	0
86	Basics of space flight mechanics and control theory. **2023**, 1-52	0
85	Impact of Space Weather on Various Fields. **2023**, 9-79	0
84	The space environment. **2023**, 77-129	0
83	Prediction of the Propulsive Performance of an Atmosphere-Breathing Electric Propulsion System on Cathode-Less Plasma Thruster. **2023**, 10, 100	0
82	A High-Accuracy SINS/RCNS Integrated Navigation Algorithm. **2023**, 5508-5518	0
81	Contribution of LARES SLR Data to Co-estimated Earth Geopotential Coefficients. **2023**,	0
80	Effects of Solar Activity on the Upper Atmosphere. **2023**, 421-444	0

79	Ionospheric Modulation by EMIC Wave-Driven Proton Precipitation: Observations and Simulations. **2023**, 128,	0
78	Neural Network-Based Orbit Control Method via Aerodynamic Force for Formation Flying with Variable Shape Function. **2023**,	0
77	Effect of Water Vapor Injection on Plasma Reduction in Hypersonic Flow. **2023**,	0
76	SPAM: Solar Spectrum Prediction for Applications and Modeling. **2023**, 14, 226	1
75	Semi-automatic meteoroid fragmentation modeling using genetic algorithms.	0
74	Ionospheric Variability. **2023**, 177-222	0
73	Introduction of Space Weather Research on Magnetosphere and Ionosphere of the Earth. **2023**, 95-113	0
72	Radial Orbit Errors of Contemporary Altimetry Satellite Orbits.	0
71	Critical Value of Initial Disturbance Wave-number Affecting Rayleigh-Taylor Instability in Equatorial and Low-latitude Ionosphere. **2018**, 38, 871	0
70	Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI) On-Orbit Wind Observations: Data Analysis and Instrument Performance. **2023**, 219,	0
69	Global Variations in the Time Delays Between Polar Ionospheric Heating and the Neutral Density Response. **2023**, 21,	0
68	Low Altitude Tailing Es (LATTE): Analysis of Sporadic-E Layer Height at Different Latitudes of Middle and Low Region. **2023**, 21,	0
67	Performance characterization and kinetic analysis of atmosphere-breathing electric propulsion intake device. **2023**, 212, 112066	0
66	Study on the Hemispheric Asymmetry of Thermospheric Density Based on In-Situ Measurements from APOD Satellite. **2023**, 14, 714	0
65	Exploring the limits of ultracold atoms in space. **2023**, 8, 024004	0
64	Application of the global neutron monitor network for assessment of spectra and anisotropy and the related terrestrial effects of strong SEPs. **2023**, 243, 106021	0
63	C 20 and C 30 Variations From SLR for GRACE/GRACE-FO Science Applications. **2023**, 128,	0
62	Thermal Electron Heat Fluxes Associated With Precipitated Auroral Electrons During the Saint Patrick's Days 2013 and 2015 Geomagnetic Storms. **2023**, 128,	0

61	Ionosphere response to geospace storm on 25 September 2016 over Kharkiv (Ukraine). **2023**, 71, 3323-3345	0
60	Augmented Non-LTE Parameterization of NO Infrared Radiative Cooling Rates. **2023**, 128,	0
59	Optical diagnosis of an inductively coupled plasma source for atmosphere-breathing electric propulsion system. **2023**, 30, 023503	0
58	Concentric Traveling Ionospheric Disturbances (CTIDs) Triggered by the 2022 Tonga Volcanic Eruption. **2023**, 128,	0
57	Three-Dimensional Simulation of Equatorial Spread F: Effects of Field-Aligned Plasma Flow and Ionospheric Conductivity. **2023**, 128,	0
56	Characterization of Mesospheric Inversion Layer with Rayleigh Lidar Data over Golmud. **2019**, 39, 84	0
55	A Model for Real-time Calculation of the Atmospheric Neutronormalsize. **2019**, 39, 342	0
54	SZ-5 Cabin's Height Changes during Three Super-storms in 2003. **2019**, 39, 809	0
53	Characteristics Analysis of Thermospheric Density Response during the Different Intensity of Geomagnetic Storms. **2020**, 40, 28	0
52	Statistical Characteristics of Stratospheric Mountain Waves over Southern Andes Based on AIRS Observations. **2021**, 41, 911	0
51	Bayesian and Least Square Method for Temperature Inversion of Adjacent Space Atmosphere Based on Oxygen A-band. **2021**, 41, 769	0
50	Seasonal Variations of Mesospheric Densities Observed by Rayleigh Lidar at Golmud, Qinghai. **2020**, 40, 207	0
49	Optimizing the NRLMSISE-00 Model by a New Solar EUV Proxy. **2017**, 37, 291	0
48	Simulation and Analysis on Volume Emission Rate and Limb Radiation Intensity of Airglow at Oxygen A(0, 0) Band. **2020**, 40, 1039	0
47	Effects of Pre-heating Time on Pre-heating Amplitude-modulation in the Lower Ionosphere. **2017**, 37, 59	0
46	Analysis and Verification of Thermospheric Density Derived from CHAMP and GRACE-A/B Accelerometer Data ormalsize. **2018**, 38, 201	0
45	Effects of Background Conditions on Lower Ionosphere Pre-heating Amplitude-modulation. **2017**, 37, 403	0
44	Quantitative Estimations on the Gravity Wave Extraction Methods from Night-time Lidar Observation. **2021**, 41, 597	0

43	Atmospheric Density Model Calibration Using 2-dimension Kernel Regression Method. **2016**, 36, 323	0
42	Research on Thermospheric Densities Derived from Two-line Element Sets. **2014**, 34, 426	0
41	Ballistic coefficient estimation of satellite in low Earth orbit and atmosphere model error analysis. **2014**, 34, 89	0
40	Development of Operational Space Weather Prediction Models. **2014**, 34, 688	0
39	Precise Orbit Determination Based on Reduced Dynamic Batch LSQ Estimation Method Using Dual-frequency GPS Observations. **2014**, 34, 460	0
38	Correlations between solar activity and thermospheric density. **2014**, 34, 73	1
37	Comparison of the Thermospheric Densities Between GRACE/CHAMP Satellites Data and NRLMSISE-00 Model. **2013**, 33, 509	0
36	Response of the Ionospheric F₂-region Over Irkutsk and Hainan to Strong Geomagnetic Storms. **2013**, 33, 494	0
35	Algorithms for the Detection, Location, and Discrimination of Seismic and Infrasound Events. **2022**, 58, 1398-1417	0
34	Effects of Solar Extreme Ultraviolet Radiation on Thermospheric Neutral Density. **2023**, 43, 87	0
33	Simulation of Electron Density Disturbance in the Lower Ionosphere Caused by Thundercloud Electrostatic Fields. **2023**, 14, 444	0
32	An Explainable Dynamic Prediction Method for Ionospheric foF2 Based on Machine Learning. **2023**, 15, 1256	0
31	Rocket-Released Neutral Clouds in the Ionosphere: Formation, Evolution, and Detection. **2023**, 128,	0
30	Low latitude monthly total electron content composite correlations. **2023**, 13, 7	0
29	Winter Nighttime Enhancement of the Midlatitude Ionosphere: Contribution From the Diffusive and Wind-Driven Plasma Transport. **2023**, 128,	1
28	Universal Time Variations in the Magnetosphere and the Effect of CME Arrival Time: Analysis of the February 2022 Event that Led to the Loss of Starlink Satellites. **2023**, 128,	0
27	An atmosphere-breathing propulsion system using inductively coupled plasma source. **2023**,	0
26	Aeronomic and Dynamic Correction of the Global Model GTEC for Disturbed Conditions. **2022**, 62, S74-S86	0

25	An assessment of whistlers generated from tree-like gigantic jets. **2023**, 34,	0
24	Atmospheric Density Inversion Based on Swarm-C Satellite Accelerometer. **2023**, 13, 3610	4
23	Multi-Model Ensembles for Upper Atmosphere Models. **2023**, 21,	0
22	RAMSEES: A Model of the Atmospheric Radiative Environment Based on Geant4 Simulation of Extensive Air Shower. **2023**, 10, 295	0
21	Leveraging neural network uncertainty in adaptive unscented Kalman Filter for spacecraft pose estimation. **2023**,	0
20	Destabilizing Influence of the Neutral Winds for the Midnight and Post-Midnight Ionospheric Irregularities in Brazil Sector. **2023**, 128,	0
19	Improving Forecasting Ability of GITM Using Data-Driven Model Refinement. **2023**, 21,	0
18	Software for Interactive and Automated Seismic and Infrasonic Data Processing. **2022**, 58, S204-S218	0
17	Multi-instrumental analysis of the day-to-day variability of equatorial plasma bubbles. 10,	0
16	The Spectrum and Orbit of a Fireball Producing Mesospheric Irregularity and Implications for Meteor Mass Deposition. **2023**, 946, 11	0
15	Retrieval of the Stratospheric Density by the Star Occultation. **2023**, 10, 313	0
14	Simulation and Analysis of the Influence of Sounding Rocket Outgassing on In-Situ Atmospheric Detection. **2023**, 14, 603	0
13	Reducing the Ionospheric Contamination Effects on the Column O/N 2 Ratio and Its Application to the Identification of Non-Migrating Tides. **2023**, 128,	0
12	The Thermosphere Is a Drag: The 2022 Starlink Incident and the Threat of Geomagnetic Storms to Low Earth Orbit Space Operations. **2023**, 21,	0
11	Nocturnal thermospheric neutral wind and temperature measurement using a Fabry-Perot Interferometer: First results from an equatorial Indian station. **2023**,	0
10	Numerical investigation into the compression characteristics of a multi-stage Knudsen pump with rectangular channels. **2023**, 138,	0
9	Nonlinear Three-Dimensional Simulations of the Gradient Drift and Secondary Kelvin–Helmholtz Instabilities in Ionospheric Plasma Clouds. **2023**, 14, 676	0
8	A New Decade in Seismoacoustics (2010–2022).	0

7	Thermospheric Temperature and Density Variability During 3–4 February 2022 Minor Geomagnetic Storm. **2023**, 21,	0
6	Characterization of the middle and upper atmosphere temperatures by Rayleigh scattering Lidar. 1-13	0
5	Extracting Exospheric Temperature From Daytime Ionospheric Electron Density Profiles. **2023**, 128,	0
4	Case Study of a Mesospheric Temperature Inversion over Ma□o Observatory through a Multi-Instrumental Observation. **2023**, 15, 2045	0
3	Studies of Satellite Position Measurements of LEO CubeSat to Identify the Motion Mode Relative to Its Center of Mass. **2023**, 10, 378	0
2	Improved undifferenced ambiguity resolution for LEO precise orbit determination. **2023**,	0
1	Simulation of horizontal sporadic E layer movement driven by atmospheric tides. **2023**, 75,	0