

TIMED Refereed Publications

2677 total

2020

1. Baron, P., S. Ochiai, E. Dupuy, R. Larsson, H. Liu, N. Manago, D. Murtagh, S.-i. Oyama, H. Sagawa, A. Saito, T. Sakazaki, M. Shiotani, and M. Suzuki, Potential for the measurement of mesosphere and lower thermosphere (MLT) wind, temperature, density and geomagnetic field with Superconducting Submillimeter-Wave Limb-Emission Sounder 2 (SMILES-2), *Atmos. Meas. Tech.*, *13*, 219–237, doi:[10.5194/amt-13-219-2020](https://doi.org/10.5194/amt-13-219-2020), 2020.
2. Blagoveshchensky, D.V., and M. A. Sergeevabc, Ionospheric parameters in the European sector during the magnetic storm of August 25–26, 2018, *Adv. Space Res.*, *65*, 11–18, doi:[10.1016/j.asr.2019.07.044](https://doi.org/10.1016/j.asr.2019.07.044), 2020.
3. Chakraborty, S., S. Ray, D. Sur, A. Datta, and A. Paul, Effects of CME and CIR induced geomagnetic storms on low-latitude ionization over Indian longitudes in terms of neutral dynamics, *Adv. Space Res.*, *65*, 198–213, doi:[10.1016/j.asr.2019.09.047](https://doi.org/10.1016/j.asr.2019.09.047), 2020.
4. Franzen, C., P. J. Espy, and R. E. Hibbins, Modelled effects of temperature gradients and waves on the hydroxyl rotational distribution in ground-based airglow measurements, *Atmos. Chem. Phys.*, *20*, 333–343, doi:[10.5194/acp-20-333-2020](https://doi.org/10.5194/acp-20-333-2020), 2020.
5. Guharay, A., P. P. Batista, and V. F. Andrioli, Study of solar cycle dependence of the quasi-two-day wave in the MLT from an extratropical station, *J Earth Syst Sci*, *129*, 38, doi:[10.1007/s12040-019-1316-1](https://doi.org/10.1007/s12040-019-1316-1), 2020.
6. Horvath, I., and B. C. Lovell, Investigating magnetosphere-ionosphere-thermosphere (M-I-T) coupling occurring during the 7–8 November 2004 superstorm, *J. Geophys. Res. Space Physics*, *125*, e2019JA027484, doi:[10.1029/2019JA027484](https://doi.org/10.1029/2019JA027484), 2020.
7. Qin, J., and B. J. Harding, A comparative analysis of the OI 130.4-nm emission observed by NASA's TIMED mission using a Monte Carlo radiative transfer model, *J. Geophys. Res. Space Physics*, *125*, e2019JA027520, doi:[10.1029/2019JA027520](https://doi.org/10.1029/2019JA027520), 2020.
8. Joshi, V., S. Sharma, K. N. Kumar, N. Patel, P. Kumar, H. Bencherif, P. Ghosh, C. Jethva, and R. Vaishnav, Analysis of the middle atmospheric ozone using SABER observations: a study over mid-latitudes in the northern and southern hemispheres. *Clim Dyn*, *54*, 2481–2492, doi:[10.1007/s00382-020-05124-6](https://doi.org/10.1007/s00382-020-05124-6), 2020.
9. Mansilla, G. A., and M. M. Zossi, Effects on the equatorial and low latitude thermosphere and ionosphere during the 19–22 December 2015 geomagnetic storm period, *Adv. Space Res.*, *65*, 2083–2089, doi:[10.1016/j.asr.2019.09.025](https://doi.org/10.1016/j.asr.2019.09.025), 2020.
10. Merzlyakov, E., T. Solovyova, A. Yudakov, D. Korotyshkin, C. Jacobi, and F. Lilienthal, Some features of the day-to-day MLT wind variability in winter 2017–2018 as seen with a European/Siberian meteor radar network, *Adv. Space Res.*, *65*, 1529–1543, doi:[10.1016/j.asr.2019.12.018](https://doi.org/10.1016/j.asr.2019.12.018), 2020.
11. Mlynczak, M. G., T. Daniels, L. A. Hunt, J. Yue, B. T. Marshall, J. M. Russell, James M. Russell III, E. E. Remsberg, J. Tansock, R. Esplin, M. Jensen, A. Shumway, L. Gordley, and J.-H. Yee, Radiometric stability of the SABER instrument, *Earth and Space Science*, *7*, e2019EA001011, doi:[10.1029/2019EA001011](https://doi.org/10.1029/2019EA001011), 2020.
12. Yang, S.-S., and M. Hayakawa, Gravity Wave Activity in the Stratosphere before the 2011 Tohoku Earthquake as the Mechanism of Lithosphere-atmosphere-ionosphere Coupling, *Entropy*, *22*, 110, doi:[10.3390/e22010110](https://doi.org/10.3390/e22010110), 2020.
13. Yankovsky, V. A., and E. Vorobeva, Model of Daytime Oxygen Emissions in the Mesopause Region and Above: A Review and New Results, *Atmosphere*, *11*, 116, doi:[10.3390/atmos11010116](https://doi.org/10.3390/atmos11010116), 2020.

14. Zhang, Y., L. J. Paxton and R. S., Estimation of solar EUV flux from TIMED/GUVI data, *J. Atmos. Solar-Terr. Phys.*, 202, 105258, doi:[10.1016/j.jastp.2020.105258](https://doi.org/10.1016/j.jastp.2020.105258), 2020.

2019

15. Abdu, M. A., Day-to-day and short-term variabilities in the equatorial plasma bubble/spread F irregularity seeding and development, *Prog. Earth Planet Sci.*, 6, 11, doi:[10.1186/s40645-019-0258-1](https://doi.org/10.1186/s40645-019-0258-1), 2019.
16. Adebisin, B. O., B. J. Adekoya, and T. W. David, Plasma transport process in the equatorial/low-latitude ionosphere, *Adv. Space Res.*, 63, 1619-1633, doi:[10.1016/j.asr.2018.11.013](https://doi.org/10.1016/j.asr.2018.11.013), 2019.
17. Ammosov, P. P., G. A. Gavrilyeva, I. I. Koltovskoi, A. M. Ammosova, and V. I. Sivtseva, Cross-calibration of ground-based measurement of rotational temperature of OH(3-1) at altitude ~87 km in Maimaga (63° N, $\lambda = 129.5^\circ$ E) and SABER/TIMED satellite data, *J. Phys. Conf. Ser.*, 1152 012017, doi:[10.1088/1742-6596/1152/1/012017](https://doi.org/10.1088/1742-6596/1152/1/012017), 2019.
18. Astafyeva, E., Ionospheric detection of natural hazards, *Rev. Geophys.*, 57, 1265–1288, doi:[10.1029/2019RG000668](https://doi.org/10.1029/2019RG000668), 2019. Meng, X., P. Vergados, A. Komjathy, and O. Verkhoglyadova, Upper atmospheric responses to surface disturbances: An observational perspective, *Radio Sci.*, 54, 1076–1098, doi:[10.1029/2019RS006858](https://doi.org/10.1029/2019RS006858), 2019.
19. Baldwin, M. P., T. Birner, G. Brasseur, J. Burrows, N. Butchart, R. Garcia, M. Geller, L. Gray, K. Hamilton, N. Harnik, M. I. Hegglin, U. Langematz, A. Robock, K. Sato, and A. A. Scaife, 100 Years of Progress in Understanding the Stratosphere and Mesosphere, *A Century of Progress in Atmospheric and Related Sciences: Celebrating the American Meteorological Society Centennial*, Meteor. Monogr., No. 59, Amer. Meteor. Soc., doi:[10.1175/AMSMONOGRAPHS-D-19-0003.1](https://doi.org/10.1175/AMSMONOGRAPHS-D-19-0003.1), 2019.
20. Baumgarten, K., and G. Stober, On the evaluation of the phase relation between temperature and wind tides based on ground-based measurements and reanalysis data in the middle atmosphere, *Ann. Geophys.*, 37, 581-602, doi:[10.5194/angeo-37-581-2019](https://doi.org/10.5194/angeo-37-581-2019), 2019.
21. Bharti, G., M. V. S. Krishna, and V. Singh, Radiative cooling due to NO at 5.3 μ m emission as observed by TIMED/SABER over Asian sector, *Adv. Space Res.*, 64, 1989-2001, doi:[10.1016/j.asr.2019.07.016](https://doi.org/10.1016/j.asr.2019.07.016), 2019.
22. Borchert, S., G. Zhou, M. Baldauf, H. Schmidt, G. Zäng, and D. Reinert, The upper-atmosphere extension of the ICON general circulation model (version: ua-icon-1.0), *Geosci. Model Dev.*, 12, 3541–3569, doi:[10.5194/gmd-12-3541-2019](https://doi.org/10.5194/gmd-12-3541-2019), 2019.
23. Bruevich, E. A., T. V. Kazachevskaya, and G. V. Yakunina, Variations of Solar EUV Radiation Fluxes in Hydrogen Lines from Observations by the TIMED Satellite in Cycle 23 and by SDO/EVE in Cycle 24, *Geomagn. Aeron.*, 59, 1048–1054, doi:[10.1134/S0016793219080024](https://doi.org/10.1134/S0016793219080024), 2019.
24. Cai, X., T. Yuan, J. V. Eccles, N. M. Pedatella, X. Xi, C. Ban, and A. Z. Liu, A Numerical Investigation on the Variation of Sodium Ion and Observed Thermospheric Sodium Layer at Cerro Pachón, Chile During Equinox, *J. Geophys. Res. Space Physics*, 124, 10395–10414, doi:[10.1029/2018JA025927](https://doi.org/10.1029/2018JA025927), 2019.
25. Cantrall, C. E., T. Matsuo, and S. C. Solomon, Upper atmosphere radiance data assimilation: A feasibility study for GOLD far ultraviolet observations, *J. Geophys. Res. Space Physics*, 124, 8154–8164, doi:[10.1029/2019JA026910](https://doi.org/10.1029/2019JA026910), 2019.
26. Chen, D., C. Strube, M. Ern, P. Preusse, and M. Riese, Global analysis for periodic variations in gravity wave squared amplitudes and momentum fluxes in the middle atmosphere, *Ann. Geophys.*, 37, 487-506, doi:[10.5194/angeo-37-487-2019](https://doi.org/10.5194/angeo-37-487-2019), 2019.

27. Chen, Q., M. Kaufmann, Y. Zhu, J. Liu, R. Koppmann, and M. Rie, Global nighttime atomic oxygen abundances from resampled GOMOS hydroxyl airglow measurements in the mesopause region, *Atmos. Chem. Phys.*, in review, doi:[10.5194/acp-2019-417](https://doi.org/10.5194/acp-2019-417), 2019.
28. Chen, Q., M. Kaufmann, Y. Zhu, J. Liu, R. Koppmann, and M. Riese, Global nighttime atomic oxygen abundances from GOMOS hydroxyl airglow measurements in the mesopause region, *Atmos. Chem. Phys.*, *19*, 13891–13910, doi:[10.5194/acp-19-13891-2019](https://doi.org/10.5194/acp-19-13891-2019), 2019.
29. Chen, T., W. Wan, J. Xiong, Y. Yu, Z. Ren, and X. Yue, A statistical approach to quantify atmospheric contributions to the ITEC WN4 structure over low latitudes, *J. Geophys. Res. Space Physics*, *124*, 2178–2197, doi:[10.1029/2018JA026090](https://doi.org/10.1029/2018JA026090), 2019.
30. Cheng, X., J. Yang, C. Xiao, and X. Hu, Density correction of NRLMSISE-00 in the middle atmosphere (20–100 km) based on TIMED/SABER density data, *Ann. Geophys.*, submitted, doi:[10.5194/angeo-2019-93](https://doi.org/10.5194/angeo-2019-93), 2019.
31. Cucho-Padin, G., and L. Waldrop, Time-dependent response of the terrestrial exosphere to a geomagnetic storm, *Geophys. Res. Lett.*, *46*, 11661–11670, doi:[10.1029/2019GL084327](https://doi.org/10.1029/2019GL084327), 2019.
32. Dare-Idowu, O., I. Paulino, C. A. O. B. Figueiredo, A. F. Medeiros, R. A. Buriti, A. R. Paulino, and C. M. Wrasse, Investigation of sources of gravity waves observed in the Brazilian Equatorial region on 08 April 2005, *Ann. Geophys. Discuss.*, in review, doi:[10.5194/angeo-2019-81](https://doi.org/10.5194/angeo-2019-81), 2019.
33. DeLand, M. T., and G. E. Thomas, Evaluation of space traffic effects in SBUV polar mesospheric cloud data, *J. Geophys. Res. Atmos.*, *124*, 4203–4221, doi:[10.1029/2018JD029756](https://doi.org/10.1029/2018JD029756), 2019.
34. Desai, M. V., and S. N. Shah, An Observational Review on influence of Intense Geomagnetic Storm on Positional Accuracy of NavIC/IRNSS System, *IETE Tech. Rev.*, doi:[10.1080/02564602.2019.1599739](https://doi.org/10.1080/02564602.2019.1599739), 2019.
35. Diodato, N., L. B. De Guenni, M. Garcia, and G. Bellocchi, Decadal Oscillation in the Predictability of Palmer Drought Severity Index in California, *Climate*, *7*, 6, doi:[10.3390/cli7010006](https://doi.org/10.3390/cli7010006), 2019.
36. Eastes, R. W., S. C. Solomon, R. E. Daniell, D. N. Anderson, A. G. Burns, S. L. England, C. R. Martinis, and W. E. McClintock, Global-scale observations of the equatorial ionization anomaly, *Geophys. Res. Lett.*, *46*, 9318–9326, doi:[10.1029/2019GL084199](https://doi.org/10.1029/2019GL084199), 2019.
37. Feleke, F. D., G. M. Tsidu, and G. Abraha, Climatology of quasi-two day oscillations from GPS-derived total electron content during 1999–2015, *Adv. Space Res.*, *64*, 1046–1064, doi:[10.1016/j.asr.2019.05.048](https://doi.org/10.1016/j.asr.2019.05.048), 2019.
38. Forbes, J. M., and X. Zhang, X., Lunar tide in the F region ionosphere, *J. Geophys. Res. Space Physics*, *124*, 7654–7669, doi:[10.1029/2019JA026603](https://doi.org/10.1029/2019JA026603), 2019.
39. Franzen, C., P. J. Espy, and R. E. Hibbins, Modelled Effects of Temperature Gradients and Waves on the Hydroxyl Rotational Distribution in Ground-Based Airglow Measurements, *Atmos. Chem. Phys.*, in review, doi:[10.5194/acp-2019-318](https://doi.org/10.5194/acp-2019-318), 2019.
40. Frey, H.U., D. Han, R. Kataoka, M. R. Lessard, S. E. Milan, Y. Nishimura, R. J. Strangeway, and Y. Zou, Dayside Aurora, *Space Sci. Rev.*, *215*, 51, doi:[10.1007/s11214-019-0617-7](https://doi.org/10.1007/s11214-019-0617-7), 2019.
41. Fytterer, T., C. von Savigny, M. G. Mlynczak, and M. Sinnhuber, Model results of OH airglow considering four different wavelength regions to derive night-time atomic oxygen and atomic hydrogen in the mesopause region, *Atmos. Chem. Phys.*, *19*, 1835–1851, doi:[10.5194/acp-19-1835-2019](https://doi.org/10.5194/acp-19-1835-2019), 2019.
42. Garcia, R. R., J. Yue, and J. M. Russell III, Middle atmosphere temperature trends in the twentieth and twenty-first centuries simulated with the Whole Atmosphere Community Climate Model (WACCM), *J. Geophys. Res. Space Physics*, *124*, 7984–7993, doi:[10.1029/2019JA026909](https://doi.org/10.1029/2019JA026909), 2019.
43. Geißler, C., C. Jacobi, and F. Lilienthal, Forcing mechanisms of the quarterdiurnal tide, *Ann. Geophys.*, in review, doi:[10.5194/angeo-2019-145](https://doi.org/10.5194/angeo-2019-145), 2019.

44. Ghodpage, R. N., A. Taori, O. B. Gurav, P. T. Patil, S. Gurubaran, D. Siingh, and G. P. Naniwadekar, Observation of mesospheric wave using collocated OH airglow temperature and radar wind measurements over Indian low latitude, *Adv. Space Res.*, *64*, 1865-1875, doi:[10.1016/j.asr.2019.04.029](https://doi.org/10.1016/j.asr.2019.04.029), 2019.
45. Ghosh, P., and S. Sharma, Vertical wavenumber spectral characteristics of temperature in the stratosphere-mesosphere over tropical and subtropical regions, *J. Atmos. Solar-Terr. Phys.*, *191*, 105053, doi:[10.1016/j.jastp.2019.05.017](https://doi.org/10.1016/j.jastp.2019.05.017), 2019.
46. Ghosh, P., S. Sharma, and K. Ansari, Investigation of vertical wavenumber spectra during sudden stratospheric warming (SSW) events over the Indian region, *Remote Sens.*, *10*, 699-708, doi:[10.1080/2150704X.2019.1601274](https://doi.org/10.1080/2150704X.2019.1601274), 2019.
47. Ghosh, P., T. K. Ramkumar, A. K. Patra, S. Sharma, and P. P. Chaitanya, Vertical Coupling from The Lower Atmosphere to The Ionosphere: Observations Inferred from Indian MST Radar, GPS Radiosonde, Ionosonde, Magnetometer, OLR (NOAA) And SABER/TIMED Instrument Over Gadanki, *J. Geophys. Res. Space Physics*, *124*, 489–503, doi:[10.1029/2018JA025897](https://doi.org/10.1029/2018JA025897), 2019.
48. Gong, S., G. Yang, J. Xu, X. Liu, and Q. Li, Gravity Wave Propagation from the Stratosphere into the Mesosphere Studied with Lidar, Meteor Radar, and TIMED/SABER, *Atmosphere*, *10*, 81, doi:[10.3390/atmos10020081](https://doi.org/10.3390/atmos10020081), 2019.
49. Gong, Y., H. Wang, Z. Ma, S. Zhang, Q. Zhou, C. Huang, and K. Huang, A statistical analysis of the propagating quasi 16-day waves at high latitudes and their response to sudden stratospheric warmings from 2005 to 2018, *J. Geophys. Res. Atmos.*, *124*, 12617–12630, doi:[10.1029/2019JD031482](https://doi.org/10.1029/2019JD031482), 2019.
50. Gu, S.-Y., X.-K. Dou, C.-Y. Yang, M. Jia, K.-M. Huang, C.-M. Huang, and S.-D. Zhang, Climatology and anomaly of the quasi-two-day wave behaviors during 2003–2018 austral summer periods, *J. Geophys. Res. Space Physics*, *124*, 544–556, doi:[10.1029/2018JA026047](https://doi.org/10.1029/2018JA026047), 2019.
51. Guharay, A., and P. P. Batista, On the variability of tides during a major stratospheric sudden warming in September 2002 at Southern hemispheric extra-tropical latitude, *Adv. Space Res.*, *63*, 2337-2344, doi:[10.1016/j.asr.2018.12.037](https://doi.org/10.1016/j.asr.2018.12.037), 2019.
52. Hänninen, K., Contribution of Excited Ozone and Oxygen Molecules to the Formation of the Stratospheric Ozone Layer, *Environment and Ecology Research*, *7*, 121-134, doi:[10.13189/eer.2019.070302](https://doi.org/10.13189/eer.2019.070302), 2019.
53. Harada, Y., K. Sato, T. Kinoshita, R. Yasui, T. Hirooka, and H. Naoe, Diagnostics of a WN2-type major sudden stratospheric warming event in February 2018 using a new three-dimensional wave activity flux, *J. Geophys. Res. Atmos.*, *124*, 6120–6142, doi:[10.1029/2018JD030162](https://doi.org/10.1029/2018JD030162), 2019.
54. Hart, M., A Comparison of Einstein A Coefficients for OH Rotational Temperature Measurements Using a Large Astronomical Data Set, *Atmosphere*, *10*, 569, doi:[10.3390/atmos10100569](https://doi.org/10.3390/atmos10100569), 2019.
55. Harvey, V. L., C. E. Randall, E. Becker, A. K. Smith, C. G. Bardeen, J. A. France, and L. P. Goncharenko, Evaluation of the mesospheric polar vortices in WACCM, *J. Geophys. Res. Atmos.*, *124*, 10626–10645, doi:[10.1029/2019JD030727](https://doi.org/10.1029/2019JD030727), 2019.
56. Hauchecorne, A., L. Blanot, R. Wing, P. Keckhut, S. Khaykin, J.-L. Bertaux, M. Meftah, C. Claud, and V. Sofieva, A new Mesospheric data set of temperature profiles from 35 to 85 km using Rayleigh scattering at limb from GOMOS/ENVISAT daytime observations, *Atmos. Meas. Tech.*, *12*, 749-761, doi:[10.5194/amt-12-749-2019](https://doi.org/10.5194/amt-12-749-2019), 2019.
57. He, M., and J. L. Chau, Mesospheric semidiurnal tides and near-12 h waves through jointly analyzing observations of five specular meteor radars from three longitudinal sectors at boreal midlatitudes, *Atmos. Chem. Phys.*, *19*, 5993-6006, doi:[10.5194/acp-19-5993-2019](https://doi.org/10.5194/acp-19-5993-2019), 2019.

58. Hervig, M. E., D. E. Siskind, S. M. Bailey, A. W. Merkel, M. T. DeLand, and J. M. Russell III, The missing solar cycle response of the polar summer mesosphere, *Geophys. Res. Lett.*, *46*, 10132–10139, doi:[10.1029/2019GL083485](https://doi.org/10.1029/2019GL083485), 2019.
59. Hibbins, R. E., P. J. Espy, Y. J. Orsolini, V. Limpasuvan, and R. J. Barnes, SuperDARN observations of semidiurnal tidal variability in the MLT and the response to sudden stratospheric warming events, *J. Geophys. Res. Atmos.*, *124*, 4862–4872, doi:[10.1029/2018JD030157](https://doi.org/10.1029/2018JD030157), 2019.
60. Hindley, N. P., C. J. Wright, N. D. Smith, L. Hoffmann, L. A. Holt, M. J. Alexander, T. Moffat-Griffin, and N. J. Mitchell, Gravity waves in the winter stratosphere over the Southern Ocean: high-resolution satellite observations and 3-D spectral analysis, *Atmos. Chem. Phys.*, *19*, 15377–15414, doi:[10.5194/acp-19-15377-2019](https://doi.org/10.5194/acp-19-15377-2019), 2019.
61. Hozumi, Y., A. Saito, T. Sakanoi, A. Yamazaki, K. Hosokawa, and T. Nakamura, Geographical and seasonal variability of mesospheric bores observed from the International Space Station, *J. Geophys. Res. Space Physics*, *124*, 3775–3785, doi:[10.1029/2019JA026635](https://doi.org/10.1029/2019JA026635), 2019.
62. Huang, F. T., and H. G. Mayr, Ozone and temperature decadal solar-cycle responses, and their relation to diurnal variations in the stratosphere, mesosphere, and lower thermosphere, based on measurements from SABER on TIMED, *Ann. Geophys.*, *37*, 471–485, doi:[10.5194/angeo-37-471-2019](https://doi.org/10.5194/angeo-37-471-2019), 2019.
63. Jacobi, C., and C. Arras, Tidal wind shear observed by meteor radar and comparison with sporadic E occurrence rates based on GPS radio occultation observations, *Adv. Radio Sci.*, *17*, 213–224, doi:[10.5194/ars-17-213-2019](https://doi.org/10.5194/ars-17-213-2019), 2019.
64. Jacobi, C., and C. Arras, Tidal wind shear observed by meteor radar and comparison with sporadic E occurrence rates based on GPS radio occultation observations, *Adv. Radio Sci.*, *17*, 1–12, doi:[10.5194/ars-17-1-2019](https://doi.org/10.5194/ars-17-1-2019), 2019.
65. Jones, M. Jr., J. M. Forbes, and F. Sassi, F., The effects of vertically propagating tides on the mean dynamical structure of the lower thermosphere, *J. Geophys. Res. Space Physics*, *124*, 7202–7219, doi:[10.1029/2019JA026934](https://doi.org/10.1029/2019JA026934), 2019.
66. Joshi, P. P., Y. D. Phal, and L. S. Waldrop, Quantification of the vertical transport and escape of atomic hydrogen in the terrestrial upper atmosphere, *J. Geophys. Res. Space Physics*, *124*, 10468–10481, doi:[10.1029/2019JA027057](https://doi.org/10.1029/2019JA027057), 2019.
67. Kakoty, R., S. Bora, and P. K. Bhuyan, Spatial asymmetry in topside ion density and vertical $E \times B$ plasma drift velocity within $75^\circ E$ – $95^\circ E$, *Adv. Space Res.*, *63*, 1176–1191, doi:[10.1016/j.asr.2018.10.013](https://doi.org/10.1016/j.asr.2018.10.013), 2019.
68. Kalogerakis, K. S., A previously unrecognized source of the O₂ Atmospheric band emission in Earth's nightglow, *Sci. Adv.*, *5*, eaau9255, doi:[10.1126/sciadv.aau9255](https://doi.org/10.1126/sciadv.aau9255), 2019.
69. Kalogerakis, K. S., Technical note: Bimodality in mesospheric OH rotational population distributions and implications for temperature measurements, *Atmos. Chem. Phys.*, *19*, 2629–2634, doi:[10.5194/acp-19-2629-2019](https://doi.org/10.5194/acp-19-2629-2019), 2019.
70. Kam, H., Y. H. Kim, N. J. Mitchell, J.-H. Kim, and C. Lee, Evaluation of estimated mesospheric temperatures from 11-year meteor radar datasets of King Sejong Station ($62^\circ S$, $59^\circ W$) and Esrange ($68^\circ N$, $21^\circ E$), *J. Atmos. Solar-Terr. Phys.*, *196*, doi:[10.1016/j.jastp.2019.105148](https://doi.org/10.1016/j.jastp.2019.105148), 2019.
71. Karpachev, A. T., M. V. Klimenko, and V. V. Klimenko, Longitudinal variations of the ionospheric trough position, *Adv. Space Res.*, *63*, 950–966, doi:[10.1016/j.asr.2018.09.038](https://doi.org/10.1016/j.asr.2018.09.038), 2019.
72. Kil, H., L. J. Paxton, G. Jee, and R. Nikoukar, Plasma blobs associated with medium-scale traveling ionospheric disturbances, *Geophys. Res. Lett.*, *46*, 3575–3581, doi:[10.1029/2019GL082026](https://doi.org/10.1029/2019GL082026), 2019.

73. Klimenko, V. V., M. V. Klimenko, F. S. Bessarab, T. V. Sukhodolov, and E. V. Rozanov, The dependence of four-peak longitudinal structure of the tropical electric field on the processes in the lower atmosphere and geomagnetic field configuration, *Adv. Space Res.*, *64*, 1854-1864, doi:[10.1016/j.asr.2019.06.029](https://doi.org/10.1016/j.asr.2019.06.029), 2019.
74. Korotyshkin, D., E. Merzlyakov, C. Jacobi, F. Lilienthal, and Q. Wu, Longitudinal MLT wind structure at higher mid-latitudes as seen by meteor radars at central and Eastern Europe (13°E/49°E), *Adv. Space Res.*, *63*, 3154-3166, doi:[10.1016/j.asr.2019.01.036](https://doi.org/10.1016/j.asr.2019.01.036), 2019.
75. Koshin, D., K. Sato, K. Miyazaki, and S. Watanabe, An ensemble Kalman filter data assimilation system for the whole neutral atmosphere, *Geosci. Model Dev. Discuss.*, *in review*, doi:[10.5194/gmd-2019-252](https://doi.org/10.5194/gmd-2019-252), 2019.
76. Kulikov, M. Y., A. A. Nechaev, M. V. Belikovich, E. V. Vorobeva, M. Grygalashvyly, G. R. Sonnemann, and A. M. Feigin, Boundary of nighttime ozone chemical equilibrium in the mesopause region from SABER data: Implications for derivation of atomic oxygen and atomic hydrogen, *Geophys. Res. Lett.*, *46*, 997–1004, doi:[10.1029/2018GL080364](https://doi.org/10.1029/2018GL080364), 2019.
77. Kumar, S., and V. V. Kumar, Ionospheric response to the St. Patrick's Day space weather events in March 2012, 2013, and 2015 at southern low and middle latitudes, *J. Geophys. Res. Space Physics*, *124*, 584–602, doi:[10.1029/2018JA025674](https://doi.org/10.1029/2018JA025674), 2019.
78. Lawal, H. A., M. Lester, S. W. H. Cowley, S. E. Milan, T. K. Yeoman, G. Provan, S. Imbera, and A. B. Rabiou, Understanding the global dynamics of the equatorial ionosphere in Africa for space weather capabilities: A science case for AfrequaMARN, *J. Atmos. Solar-Terr. Phys.*, *192*, 104765, doi:[10.1016/j.jastp.2018.01.008](https://doi.org/10.1016/j.jastp.2018.01.008), 2019.
79. Lednyts'kyy, O., C. von Savigny, M. Sinnhuber, N. Iwagami, and M. Mlynczak, Multiple Airglow Chemistry approach for atomic oxygen retrievals on the basis of in situ nightglow emissions, *J. Atmos. Solar-Terr. Phys.*, *194*, 1529-1543, doi:[10.1016/j.jastp.2019.105096](https://doi.org/10.1016/j.jastp.2019.105096), 2019.
80. Li, Q., J. Xu, J. Yue, X. Liu, X., and W. Yuan, Evolution of a mesospheric bore in a duct observed by ground-based double-layer imagers and satellite observations over the Tibetan Plateau region, *J. Geophys. Res. Space Physics*, *124*, 1377–1388, doi:[10.1029/2018JA026125](https://doi.org/10.1029/2018JA026125), 2019.
81. Li, X., W. Wan, J. Cao, and Z. Ren, Meteorological scale correlation relationship of the ionospheric longitudinal structure wavenumber 4 and upper atmospheric daily DE3 tide, *J. Geophys. Res. Space Physics*, *124*, 2046–2057, doi:[10.1029/2018JA026253](https://doi.org/10.1029/2018JA026253), 2019.
82. Li, X., W. Wan, J. Cao, X. Xue, and Z. Ren, Hough Mode Decomposition of the DE3 tide extracted from TIMED observations, *J. Atmos. Solar-Terr. Phys.*, *194*, doi:[10.1016/j.jastp.2019.105140](https://doi.org/10.1016/j.jastp.2019.105140), 2019.
83. Li, Z., D. Knipp, and W. Wang, Understanding the behaviors of thermospheric nitric oxide cooling during the 15 May 2005 geomagnetic storm, *J. Geophys. Res. Space Physics*, *124*, 2113–2126, doi:[10.1029/2018JA026247](https://doi.org/10.1029/2018JA026247), 2019.
84. Li, Z., D. Knipp, W. Wang, Y. Shi, M. Wang, Y. Su, and J. Li, An EOFs Study of Thermospheric Nitric Oxide Flux Based on TIEGCM simulations, *J. Geophys. Res. Space Physics*, *124*, 9695–9708, doi:[10.1029/2019JA027004](https://doi.org/10.1029/2019JA027004), 2019.
85. Lilienthal, F., and C. Jacobi, Nonlinear forcing mechanisms of the migrating terdiurnal solar tide and their impact on the zonal mean circulation, *Ann. Geophys.*, *37*, 943–953, doi:[10.5194/angeo-37-943-2019](https://doi.org/10.5194/angeo-37-943-2019), 2019.
86. Lilienthal, F., and C. Jacobi, Nonlinear forcing mechanisms of the terdiurnal solar tide and their impact on the zonal mean circulation, *Ann. Geophys.*, *in review*, doi:[10.5194/angeo-2019-37](https://doi.org/10.5194/angeo-2019-37), 2019.
87. Lin, C. Y., and Y. Deng, Y., Nitric oxide in climatological global energy budget during 1982–2013, *J. Geophys. Res. Space Physics*, *124*, 782–789, doi:[10.1029/2018JA025902](https://doi.org/10.1029/2018JA025902), 2019.

88. Lin, J. T., C. H. Lin, C. Y. Lin, N. M. Pedatella, P. K. Rajesh, T. Matsuo, and J. Y. Liu, Revisiting the modulations of ionospheric solar and lunar migrating tides during the 2009 stratospheric sudden warming by using global ionosphere specification, *Space Weather*, *17*, 767–777, doi:[10.1029/2019SW002184](https://doi.org/10.1029/2019SW002184), 2019.
89. Liou, K., and E. J. Mitchell, Hemispheric asymmetry of the premidnight aurora associated with the dawn-dusk component of the interplanetary magnetic field, *J. Geophys. Res. Space Physics*, *124*, 1625–1634, doi:[10.1029/2018JA025953](https://doi.org/10.1029/2018JA025953), 2019.
90. Liou, K., and E. Mitchell, Effects of the interplanetary magnetic field y component on the dayside aurora, *Geosci. Lett.*, *6*, 11, doi:[10.1186/s40562-019-0141-3](https://doi.org/10.1186/s40562-019-0141-3), 2019.
91. Liu, G., S. L. England, and D. Janches, Quasi two-, three-, and six-day planetary-scale wave oscillations in the upper atmosphere observed by TIMED/SABER over ~17 years during 2002–2018, *J. Geophys. Res. Space Physics*, *124*, 9462–9474, doi:[10.1029/2019JA026918](https://doi.org/10.1029/2019JA026918), 2019.
92. Liu, L., H. Le, Y. Chen, R. Zhang, W. Wan, and S.-R. Zhang, New aspects of the ionospheric behavior over Millstone Hill during the 30-day incoherent scatter radar experiment in October 2002, *J. Geophys. Res. Space Physics*, *124*, 6288–6295, doi:[10.1029/2019JA026806](https://doi.org/10.1029/2019JA026806), 2019.
93. Liu, X., J. Xu, J. Yue, S. L. Vadas, and E. Becker, Orographic primary and secondary gravity waves in the middle atmosphere from 16-year SABER observations, *Geophys. Res. Lett.*, *46*, 4512–4522, doi:[10.1029/2019GL082256](https://doi.org/10.1029/2019GL082256), 2019.
94. Llamedo, P., J. Salvador, A. Torre, J. Quiroga, P. Alexander, R. Hierro, T. Schmidt, A. Pazmiño, and E. Quel, 11 years of Rayleigh lidar observations of gravity wave activity above the southern tip of South America, *J. Geophys. Res. Atmos.*, *124*, 451–467, doi:[10.1029/2018JD028673](https://doi.org/10.1029/2018JD028673), 2019.
95. Lu, X., H. Wu, X. Chu, J. Oberheide, M. G. Mlynczak, and J. M. Russell III, Quasi-biennial oscillation of short-period planetary waves and polar night jet in winter Antarctica observed in SABER and MERRA-2 and mechanism study with a quasi-geostrophic model, *Geophys. Res. Lett.*, *46*, 13526–13534, doi:[10.1029/2019GL084759](https://doi.org/10.1029/2019GL084759), 2019.
96. Ma, J., M. Shangguan, H. Xia, X. Fang, X. Xue, X. Dou, Rayleigh and sodium lidar system incorporating time-division and wavelength-division multiplexing, *Opt Commun*, *448*, 116–123, doi:[10.1016/j.optcom.2019.05.010](https://doi.org/10.1016/j.optcom.2019.05.010), 2019.
97. Machol, J. L., M. Snow, D. Woodraska, T. Woods, R. Viereck, and O. Coddington, An improved Lyman-alpha composite, *Earth and Space Science*, *6*, doi:[10.1029/2019EA000648](https://doi.org/10.1029/2019EA000648), 2019.
98. Mansilla, G. A., Ionospheric disturbances at low and mid-low latitudes of the South American sector during the March 2015 great storm, *Adv. Space Res.*, *63*, 3545–3557, doi:[10.1016/j.asr.2019.02.009](https://doi.org/10.1016/j.asr.2019.02.009), 2019.
99. Medvedeva, I. V., A. I. Semenov, A. I. Pogoreltsev, and A. V. Tatarnikov, Influence of sudden stratospheric warming on the mesosphere/lower thermosphere from the hydroxyl emission observations and numerical simulations, *J. Atmos. Solar-Terr. Phys.*, *187*, 22–32, doi:[10.1016/j.jastp.2019.02.005](https://doi.org/10.1016/j.jastp.2019.02.005), 2019.
100. Medvedeva, I., and A. Semenov, Variability of the mesopause temperature and concentrations of reactive components of the mid-latitude atmosphere during sudden stratospheric warmings, *IOP Conf. Ser.: Earth Environ. Sci.*, *231*, 012036, doi:[10.1088/1755-1315/231/1/012036](https://doi.org/10.1088/1755-1315/231/1/012036), 2019.
101. Mengist, C. K., N. Ssessanga, S.-H. Jeong, J.-H. Kim, Y. H. Kim, and Y.-S. Kwak, Assimilation of multiple data types to a regional ionosphere model with a 3D-Var algorithm (IDA4D), *Space Weather*, *17*, 1018–1039, doi:[10.1029/2019SW00215](https://doi.org/10.1029/2019SW00215), 2019.
102. Mengist, C. K., Response of ionosphere over Korea and adjacent areas to 17 March 2015 geomagnetic storm, *Adv. Space Res.*, *64*, 183–198, doi:[10.1016/j.asr.2019.03.038](https://doi.org/10.1016/j.asr.2019.03.038), 2019.

103. Mikhailov, A. V., and L. Perrone, Poststorm thermospheric NO overcooling?, *J. Geophys. Res. Space Physics*, 125, e2019JA027122, doi:[10.1029/2019JA027122](https://doi.org/10.1029/2019JA027122), 2019.
104. Miyoshi, Y., and E. Yiğit, Impact of gravity wave drag on the thermospheric circulation: implementation of a nonlinear gravity wave parameterization in a whole-atmosphere model, *Ann. Geophys.*, 37, 955–969, doi:[10.5194/angeo-37-955-2019](https://doi.org/10.5194/angeo-37-955-2019), 2019.
105. Mondal, S., S. Sarkhel, J. Agarwal, D. Chakrabarty, R. Sekar, T. Yuan, X. Cai, A. Z. Liu, S. Nozawa, N. Saito, T. D. Kawahara, M. G. Mlynczak, and J. M. Russell III, On the long lasting “C-type” structures in the sodium lidargram: The lifetime of Kelvin-Helmholtz billows in the mesosphere and lower thermosphere region, *J. Geophys. Res. Space Physics*, 124, 3110–3124, doi:[10.1029/2019JA026630](https://doi.org/10.1029/2019JA026630), 2019.
106. Nayak, C., and E. Yiğit, Variation of small-scale gravity wave activity in the ionosphere during the major sudden stratospheric warming event of 2009, *J. Geophys. Res. Space Physics*, 124, 470–488, doi:[10.1029/2018JA026048](https://doi.org/10.1029/2018JA026048), 2019.
107. Nischal, N., J. Oberheide, M. G. Mlynczak, D. R. Marsh, and Q. Gan, Solar cycle variability of nonmigrating tides in the 5.3 and 15 μm infrared cooling of the thermosphere (100–150 km) from SABER, *J. Geophys. Res. Space Physics*, 124, 2338–2356, doi:[10.1029/2018JA026356](https://doi.org/10.1029/2018JA026356), 2019.
108. Nishitani, N., J. M. Ruohoniemi, M. Lester, J. B. H. Baker, A. V. Koustov, S. G. Shepherd, G. Chisham, T. Hori, E. G. Thomas, R. A. Makarevich, A. Marchaudon, P. Ponomarenko, J. A. Wild, S. E. Milan, W. A. Bristow, J. Devlin, E. Miller, R. A. Greenwald, T. Ogawa, and T. Kikuchi, Review of the accomplishments of mid-latitude Super Dual Auroral Radar Network (SuperDARN) HF radars, *Progress in Earth and Planetary Science*, 6, 27, 2197-4284, doi:[10.1186/s40645-019-0270-5](https://doi.org/10.1186/s40645-019-0270-5), 2019.
109. Noll, S., H. Winkler, O. Goussev, and B. Proxauf, OH level populations and accuracies of Einstein-A coefficients from hundreds of measured lines, *Atmos Chem Physics*, in review, doi:[10.5194/acp-2019-1102](https://doi.org/10.5194/acp-2019-1102), 2019.
110. Noll, S., J. M. C. Plane, W. Feng, B. Proxauf, S. Kimeswenger, and W. Kausch, Observations and modeling of potassium emission in the terrestrial nightglow, *J. Geophys. Res. Atmos.*, 124, 6612–6629, doi:[10.1029/2018JD030044](https://doi.org/10.1029/2018JD030044), 2019.
111. Ohyama, H., T. Sugita, H. Akiyoshi, T. Nagahama, and A. Mizuno, Interannual variation of upper stratospheric ozone in the northern midlatitudes in early winter caused by planetary waves, *J. Geophys. Res. Atmos.*, 124, 14347–14361, doi:[10.1029/2019JD030824](https://doi.org/10.1029/2019JD030824), 2019.
112. Oyama, K. I., C. H. Chen, L. Bankov, D. Minakshi, K. Ryu, J. Y. Liu, and H. Liu, Precursor effect of March 11, 2011 off the coast of Tohoku earthquake on high and low latitude ionospheres and its possible disturbing mechanism, *Adv. Space Res.*, 63, 2623-2637, doi:[10.1016/j.asr.2018.12.042](https://doi.org/10.1016/j.asr.2018.12.042), 2019.
113. Padokhin, A. M., N. A. Tereshin, Y. V. Yasyukevich, E. S. Andreeva, M. O. Nazarenko, A. S. Yasyukevich, E. A. Kozlovtseva, and G. A. Kurbatov, Application of BDS-GEO for studying TEC variability in equatorial ionosphere on different time scales, *Adv. Space Res.*, 63, 257-269, doi:[10.1016/j.asr.2018.08.001](https://doi.org/10.1016/j.asr.2018.08.001), 2019.
114. Patela, N., S. Sharma, V. Joshi, P. Kumar, N. Ojha, K. N. Kumar, H. Chandra, and G. Beig, Observations of middle atmospheric seasonal variations and study of atmospheric oscillations at equatorial regions, *J. Atmos. Solar-Terr. Phys.*, 193, 105066, doi:[10.1016/j.jastp.2019.105066](https://doi.org/10.1016/j.jastp.2019.105066), 2019.
115. Pedatella, N. M., H.-L. Liu, D. R. Marsh, K. Raeder, and J. L. Anderson, Error Growth in the Mesosphere and Lower Thermosphere Based on Hindcast Experiments in a Whole Atmosphere Model, *Space Weather*, 17, 1442–1460, doi:[10.1029/2019SW002221](https://doi.org/10.1029/2019SW002221), 2019.
116. Prasad, S. B. S., V. Kumar, K. K. Reddy, S. K. Dhaka, S. Malik, M. V. Reddy, and U. M. Krishna, Perturbations in the Earth’s Atmosphere over Indian Region during Total Solar Eclipse on 22 July 2009, *J. Meteor. Res.*, 33, 784-796, doi:[10.1007/s13351-019-8056-7](https://doi.org/10.1007/s13351-019-8056-7), 2019.

117. Qian, L., C. Jacobi, and J. McInerney, Trends and solar irradiance effects in the mesosphere, *J. Geophys. Res. Space Physics*, 124, 1343–1360, doi:[10.1029/2018JA026367](https://doi.org/10.1029/2018JA026367), 2019.
118. Qian, L., W. Wang, A. G. Burns, P. Chamberlin, A. Coster, S-R Zhang, and S. C. Solomon, Solar Flare and Geomagnetic Storm Effects on the Thermosphere and Ionosphere During 6-11 September 2017, *J. Geophys. Res.*, 124, 2298-2311, doi:[10.1029/2018JA026175](https://doi.org/10.1029/2018JA026175), 2019.
119. Qin, Y., S.-Y. Gu, X. Dou, Y. Gong, G. Chen, S. Zhang, and Q. Wu, Climatology of the quasi-6-day wave in the mesopause region and its modulations on total electron content during 2003–2017, *J. Geophys. Res. Space Physics*, 124, 573–583, doi:[10.1029/2018JA025981](https://doi.org/10.1029/2018JA025981), 2019.
120. Qiu, L., X. Zuo, T. Yu, Y. Y. Sun, and Y. Qi, Comparison of global morphologies of vertical ion convergence and sporadic E occurrence rate, *Adv. Space Res.*, 63, 3606-3611, doi:[10.1016/j.asr.2019.02.024](https://doi.org/10.1016/j.asr.2019.02.024), 2019.
121. Ratnam, M. V., S. T. A. Raj, and L. Qian, Long-term trends in the low-latitude middle atmosphere temperature and winds: Observations and WACCM-X model simulations, *J. Geophys. Res. Space Physics*, 124, 7320–7331, doi:[10.1029/2019JA026928](https://doi.org/10.1029/2019JA026928), 2019.
122. Reisin, E. R., and J. Scheer, The semidiurnal tide for individual nights derived consistently from O2 and OH intensities and temperatures, *J. Atmos. Solar-Terr. Phys.*, 186, 20-27, doi:[10.1016/j.jastp.2019.02.002](https://doi.org/10.1016/j.jastp.2019.02.002), 2019.
123. Remsberg, E. E., Observation and attribution of temperature trends near the stratopause from HALOE, *J. Geophys. Res. Atmos.*, 124, 6600–6611, doi:[10.1029/2019JD030455](https://doi.org/10.1029/2019JD030455), 2019.
124. Robinson, R., Y. Zhang, K. Garcia-Sage, X. Fang, O. P. Verkhoglyadova, C. Ngwira, S. Bingham, B. Kosar, Y. Zheng, S. Kaeppler, M. Liemohn, J. M. Weygand, G. Crowley, V. Merkin, R. McGranaghan, and A. J. Mannucci, Space weather modeling capabilities assessment: Auroral precipitation and high-latitude ionospheric electrodynamics, *Space Weather*, 17, 212–215, doi:[10.1029/2018SW002127](https://doi.org/10.1029/2018SW002127), 2019.
125. Rong, P. P., J. M. Russell III, B. T. Marshall, L. L. Gordley, M. G. Mlynczak, and K. A. Walker, Validation of water vapor measured by SABER on the TIMED satellite, *J. Atmos. Solar-Terr. Phys.*, 194, doi:[10.1016/j.jastp.2019.105099](https://doi.org/10.1016/j.jastp.2019.105099), 2019.
126. Samtleben, N., C. Jacobi, P. Pišoft, P. Šácha, and A. Kuchař, Effect of latitudinally displaced gravity wave forcing in the lower stratosphere on the polar vortex stability, *Ann. Geophys.*, 37, 507–523, doi:[10.5194/angeo-37-507-2019](https://doi.org/10.5194/angeo-37-507-2019), 2019.
127. Sarkhela, S., S. Mondal, R. Sekar, D. Chakrabarty, and S. Sridharan, A review on the upper atmospheric sodium observations from India: Insights, *Adv. Space Res.*, 63, 3568-3585, doi:[10.1016/j.asr.2019.02.019](https://doi.org/10.1016/j.asr.2019.02.019), 2019.
128. Sassi, F., J. P. McCormack, S. E. and McDonald, Whole atmosphere coupling on intraseasonal and interseasonal time scales: A potential source of increased predictive capability, *Radio Sci.*, 54, 913–933, doi:[10.1029/2019RS006847](https://doi.org/10.1029/2019RS006847), 2019.
129. Schillings, A., R. Slapak, H. Nilsson, M. Yamauchi, I. Dandouras, and L.-G. Westerberg, Earth atmospheric loss through the plasma mantle and its dependence on solar wind parameters, *Earth Planets Space*, 71, 70, doi:[10.1186/s40623-019-1048-0](https://doi.org/10.1186/s40623-019-1048-0), 2019.
130. Scott, C. J., S. Jones, and L. A. Barnard, Inferring thermospheric composition from ionogram profiles: A calibration with the TIMED spacecraft, *Ann. Geophys. Discuss.*, in review, doi:[10.5194/angeo-2019-47](https://doi.org/10.5194/angeo-2019-47), 2019.
131. She, C.-Y., U. Berger, Z.-A. Yan, T. Yuan, F.-J. Lübken, D. A. Krueger, and X. Hu, Solar response and long-term trend of midlatitude mesopause region temperature based on twenty-eight years (1990–2017) of Na lidar observations, *J. Geophys. Res. Space Physics*, accepted, doi:[10.1029/2019JA026759](https://doi.org/10.1029/2019JA026759), 2019.
132. Shreedevi, P. R., R. K. Choudhary, Y. Yu, and E. G. Thomas, Morphological study on the ionospheric variability at Bharati, a polar cusp station in the southern hemisphere, *J. Atmos. Solar-Terr. Phys.*, 193, 105058, doi:[10.1016/j.jastp.2019.105058](https://doi.org/10.1016/j.jastp.2019.105058), 2019.

133. Siddiqui, T. A., A. Maute, and N. M. Pedatella, On the importance of interactive ozone chemistry in Earth-System models for studying mesosphere-lower thermosphere tidal changes during sudden stratospheric warmings, *J. Geophys. Res. Space Physics*, *124*, 10690–10707, doi:[10.1029/2019JA027193](https://doi.org/10.1029/2019JA027193), 2019.
134. Siskind, D. E., M. Jones Jr., D. P. Drob, J. P. McCormack, M. E. Hervig, D. R. Marsh, M. G. Mlynczak, S. M. Bailey, A. Maute, and N. J. Mitchell, On the relative roles of dynamics and chemistry governing the abundance and diurnal variation of low-latitude thermospheric nitric oxide, *Ann. Geophys.*, *37*, 37–48, doi:[10.5194/angeo-37-37-2019](https://doi.org/10.5194/angeo-37-37-2019), 2019.
135. Smith, A. K., L. A. Holt, R. R. Garcia, J. A. Anstey, F. Serva, N. Butchart, S. Osprey, A. C. Bushell, Y. Kawatani, Y.-H. Kim, F. Lott, P. Braesicke, C. Cagnazzo, C.-C. Chen, H.-Y. Chun, L. Gray, T. Kerzenmacher, H. Naoe, J. Richter, S. Versick, V. Schenzinger, S. Watanabe, and K. Yoshida, The equatorial stratospheric semiannual oscillation and time-mean winds in QBOi models, *Q J R Meteorol Soc.*, *1–17*, doi:[10.1002/qj.3690](https://doi.org/10.1002/qj.3690), 2019.
136. Solomon, S. C., H.-L. Liu, D. R. Marsh, J. M. McInerney, L. Qian, and F. M. Vitt, Whole atmosphere climate change: Dependence on solar activity, *J. Geophys. Res. Space Physics*, *124*, 3799–3809, doi:[10.1029/2019JA026678](https://doi.org/10.1029/2019JA026678), 2019.
137. Sori, T., A. Shinbori, Y. Otsuka, T. Tsugawa, and M. Nishioka, Characteristics of GNSS total electron content enhancements over the midlatitudes during a geomagnetic storm on 7 and 8 November 2004, *J. Geophys. Res. Space Physics*, *124*, 10376–10394, doi:[10.1029/2019JA026713](https://doi.org/10.1029/2019JA026713), 2019.
138. Spargo, A. J., I. M. Reid, and A. D. MacKinnon, Multistatic meteor radar observations of gravity-wave–tidal interaction over southern Australia, *Atmos. Meas. Tech.*, *12*, 4791–4812, doi:[10.5194/amt-12-4791-2019](https://doi.org/10.5194/amt-12-4791-2019), 2019.
139. Spargo, A. J., I. M. Reid, and A. D. MacKinnon, Multistatic meteor radar observations of gravity wave–tidal interaction over Southern Australia, *Atmos. Meas. Tech.*, *in review*, doi:[10.5194/amt-2019-138](https://doi.org/10.5194/amt-2019-138), 2019.
140. Sridharan, S., Seasonal variations of low-latitude migrating and nonmigrating diurnal and semidiurnal tides in TIMED-SABER temperature and their relationship with source variations, *J. Geophys. Res. Space Physics*, *124*, 3558–3572, doi:[10.1029/2018JA026190](https://doi.org/10.1029/2018JA026190), 2019.
141. Srinivasu, V. K. D., D. S. V. Prasad, K. Niranjana, and G. K. Seemala, and K. Venkatesh, L-band scintillation and TEC variations on St. Patrick’s Day storm of 17 March 2015 over Indian longitudes using GPS and GLONASS observations, *J. Earth Syst. Sci.*, *128*, 69, doi:[10.1007/s12040-019-1097-6](https://doi.org/10.1007/s12040-019-1097-6), 2019.
142. Stephan, A. W., S. C. Finn, T. A. Cook, G. Geddes, S. Chakrabarti, and S. A. Budzien, Imaging of the daytime ionospheric equatorial arcs with extreme and far ultraviolet airglow, *J. Geophys. Res. Space Physics*, *124*, 6074–6086, doi:[10.1029/2019JA026624](https://doi.org/10.1029/2019JA026624), 2019.
143. Stephan, C. C., C. Strube, D. Klocke, M. Ern, L. Hoffmann, P. Preusse, and H. Schmidt, Intercomparison of Gravity Waves in Global Convection-Permitting Models. *J. Atmos. Sci.*, *76*, 2739–2759, doi:[10.1175/JAS-D-19-0040.1](https://doi.org/10.1175/JAS-D-19-0040.1), 2019.
144. Stephan, C. C., C. Strube, D. Klocke, M. Ern, L. Hoffmann, P. Preusse, and H. Schmidt, Gravity waves in global high-resolution simulations with explicit and parameterized convection, *J. Geophys. Res. Atmos.*, *124*, 4446–4459, doi:[10.1029/2018JD030073](https://doi.org/10.1029/2018JD030073), 2019.
145. Strelnikov, B., M. Eberhart, M. Friedrich, J. Hedin, M. Khaplanov, G. Baumgarten, B. P. Williams, T. Stasza, H. Asmus, I. Strelnikova, R. Latteck, M. Grygalashvyly, F.-J. Lübken, J. Höffner, R. Wörl, J. Gumbel, S. Löhle, S. Fasoulas, M. Rapp, A. Barjatya, M. J. Taylor, and P.-D. Pautet, Simultaneous in situ measurements of small-scale structures in neutral, plasma, and atomic oxygen densities during the WADIS sounding rocket project, *Atmos. Chem. Phys.*, *19*, 11443–11460, doi:[10.5194/acp-19-11443-2019](https://doi.org/10.5194/acp-19-11443-2019), 2019.

146. Sukumarn, S. N. G. K., K. T. Pant, A. P. Ajesh, Signatures of Sudden Storm Commencement on the equatorial thermospheric dayglow, *J. Space Weather & Space Clim.*, 9, A31, 7, doi:[10.1051/swsc/2019026](https://doi.org/10.1051/swsc/2019026), 2019.
147. Sun, Y.-Y., H. Liu, Y. Miyoshi, L. C. Chang, and L. Liu, El Niño–Southern Oscillation effect on ionospheric tidal/SPW amplitude in 2007–2015 FORMOSAT-3/COSMIC observations, *Earth, Planets and Space*, 35(71), doi:[10.1186/s40623-019-1009-7](https://doi.org/10.1186/s40623-019-1009-7), 2019.
148. Swenson, G. R., C. C. J. H. Salinas, F. Vargas, Y. Zhu, M. Kaufmann, M. Jones, D. P. Drob, A. Liu, J. Yue, and J. H. Yee, Determination of global mean eddy diffusive transport in the mesosphere and lower thermosphere from atomic oxygen and carbon dioxide climatologies, *J. Geophys. Res. Atmos.*, 124, 13519–13533, doi:[10.1029/2019JD031329](https://doi.org/10.1029/2019JD031329), 2019.
149. Tang, Y., P. Sun, H. Gao, J. Cui, Z. Li, H. Wang, H. Lv, M. Jia, H. Liu, C. Li, and Q. Liu, Simulation and observation for volume emission rates emitted from O₂(0-1) and O(1S) nightglow in northwest China, *Appl Optics*, 58, 1093-1100, doi:[10.1364/AO.58.001093](https://doi.org/10.1364/AO.58.001093), 2019.
150. Taylor, M. J., P. D. Pautet, D. C. Fritts, B. Kaifler, S. M. Smith, Y. Zhao, N. R. Criddle, P. McLaughlin, W. R. Pendleton Jr., M. P. McCarthy, G. Hernandez, S. D. Eckermann, J. Doyle, M. Rapp, B. Liley, and J. M. Russell III, Large-amplitude mountain waves in the mesosphere observed on 21 June 2014 during DEEPWAVE: 1. Wave development, scales, momentum fluxes, and environmental sensitivity, *J. Geophys. Res. Atmos.*, 124, 10364–10384, doi:[10.1029/2019JD030932](https://doi.org/10.1029/2019JD030932), 2019.
151. Thiemann, E. M. B., F. G. Eparvier, D. Woodraska, P. C. Chamberlin, J. Machol, T. Eden, A. R. Jones, R. Meisner, S. Mueller, M. Snow, R. Viereck, and T. N. Woods, The GOES-R EUVS model for EUV irradiance variability, *J. Space Weather Space Clim.*, 9, A43, doi:[10.1051/swsc/2019041](https://doi.org/10.1051/swsc/2019041), 2019.
152. Tolmacheva, A. V., N. V. Bakhmetieva, G. I. Grigoriev, and M. N. Egerev, Turbopause range measured by the method of the artificial periodic irregularities, *Adv. Space Res.*, 64, 1968-1974, doi:[10.1016/j.asr.2019.05.002](https://doi.org/10.1016/j.asr.2019.05.002), 2019.
153. Ugolnikov, O. S., and I. A. Maslov, Polarization analysis and probable origin of bright noctilucent clouds with large particles in June 2018, *Planet Space Sc*, 179, 104713, doi:[10.1016/j.pss.2019.104713](https://doi.org/10.1016/j.pss.2019.104713), 2019.
154. Vadas, S. L., and E. Becker, Numerical modeling of the generation of tertiary gravity waves in the mesosphere and thermosphere during strong mountain wave events over the Southern Andes, *J. Geophys. Res. Space Physics*, 124, 7687–7718, doi:[10.1029/2019JA026694](https://doi.org/10.1029/2019JA026694), 2019.
155. Vadas, S. L., S. Xu, J. Yue, K. Bossert, E. Becker, and G. Baumgarten, Characteristics of the quiet-time hot spot gravity waves observed by GOCE over the Southern Andes on 5 July 2010, *J. Geophys. Res. Space Physics*, 124, 7034–7061, doi:[10.1029/2019JA026693](https://doi.org/10.1029/2019JA026693), 2019.
156. Vargin, P. N. , and B. M. Kiryushov, Major Sudden Stratospheric Warming in the Arctic in February 2018 and Its Impacts on the Troposphere, Mesosphere, and Ozone Layer, *Russ. Meteorol. Hydrol.*, 44, 112–123, doi:[10.3103/S1068373919020043](https://doi.org/10.3103/S1068373919020043), 2019.
157. Vasiliev, P. A., F. S. Bessarab, I. V. Karpov, V. V. Klimenko, M. V. Klimenko, T. V. Sukhodolov, and E. V. Rozanov, Tidal and Planetary Waves in the Lower Thermosphere and Ionosphere Simulated with the EAGLE Model for the January 2009 Sudden Stratospheric Warming Conditions, *Izv. Atmos. Ocean. Phys.* 55, 178–187, doi:[10.1134/S0001433819020130](https://doi.org/10.1134/S0001433819020130), 2019.
158. Vitharana, A., X. Zhu, J. Du, J. Oberheide, J., and W. E. Ward, Statistical modeling of tidal weather in the mesosphere and lower thermosphere, *J. Geophys. Res. Atmos.*, 124, 9011–9027, doi:[10.1029/2019JD030573](https://doi.org/10.1029/2019JD030573), 2019.
159. Vorobeva, E., Notes on the correlation between sudden stratospheric warmings and solar activity, *Ann. Geophys.*, 37, 375–380, doi:[10.5194/angeo-37-375-2019](https://doi.org/10.5194/angeo-37-375-2019), 2019.
160. Wautelet, G., B. Hubert, J.-C. Gérard, and T. J. Immel, The OI-135.6 nm nighttime emission in ICON-FUV 1 images: A new tool for the observation of classical medium-scale traveling

- ionospheric disturbances?, *J. Geophys. Res. Space Physics*, *124*, 7670–7686, doi:[10.1029/2019JA026930](https://doi.org/10.1029/2019JA026930), 2019.
161. Weimer, D. R., P. M. Mehta, W. K. Tobiska, E. Doornbos, M. G. Mlynczak, D. P. Drob, and J. T. Emmert, Improving neutral density predictions using exospheric temperatures calculated on a geodesic, polyhedral grid, *Space Weather*, *18*, e2019SW002355, doi:[10.1029/2019SW002355](https://doi.org/10.1029/2019SW002355), 2019.
 162. Wright, C. J., Quantifying the global impact of tropical cyclone-associated gravity waves using HIRDLS, MLS, SABER and IBTrACS, *Q. J. R. Meteorol. Soc.*, accepted, doi:[10.1002/qj.3602](https://doi.org/10.1002/qj.3602), 2019.
 163. Wüst, S., C. Schmidt, P. Hannawald, M. Bittner, M. G. Mlynczak, and J. M. Russel III, Observations of OH airglow from ground, aircraft, and satellite: investigation of wave-like structures before a minor stratospheric warming, *Atmos. Chem. Phys.*, *19*, 6401–6418, doi:[10.5194/acp-19-6401-2019](https://doi.org/10.5194/acp-19-6401-2019), 2019.
 164. Xiong, C., H. Lühr, and Y. Yamazaki, An opposite response of the low-latitude ionosphere at Asian and American sectors during storm recovery phases: Drivers from below or above, *J. Geophys. Res. Space Physics*, *124*, doi:[10.1029/2019JA026917](https://doi.org/10.1029/2019JA026917), 2019.
 165. Xu, X., J. Li, J. Luo, and D. Yu, Magnitudes of Gravity Wave Pseudomomentum Flux Derived by Combining COSMIC Radio Occultation and ERA-Interim Reanalysis Data, *Atmosphere*, *10*, 598, doi:[10.3390/atmos10100598](https://doi.org/10.3390/atmos10100598), 2019.
 166. Yamazaki, Y., and V. Matthias, Large-amplitude quasi-10-day waves in the middle atmosphere during final warmings, *J. Geophys. Res. Atmos.*, *124*, 9874–9892, doi:[10.1029/2019JD030634](https://doi.org/10.1029/2019JD030634), 2019.
 167. Yang, K., and X. Liu, Ozone profile climatology for remote sensing retrieval algorithms, *Atmos. Meas. Tech.*, *12*, 4745–4778, doi:[10.5194/amt-12-4745-2019](https://doi.org/10.5194/amt-12-4745-2019), 2019.
 168. Yankovsky, V. A., E. Vorobeva, and R. Manuilova, New techniques for retrieving the [O(³P)], [O₃] and [CO₂] altitude profiles from dayglow oxygen emissions: Uncertainty analysis by the Monte Carlo method, *Adv. Space Res.*, *64*, 1948–1967, doi:[10.1016/j.asr.2019.07.020](https://doi.org/10.1016/j.asr.2019.07.020), 2019.
 169. Yi, W., X. Xue, I. M. Reid, D. J. Murphy, C. M. Hall, M. Tsutsumi, B. Ning, G. Li, R. A. Vincent, J. Chen, J. Wu, T. Chen, and X. Dou, Climatology of the mesopause relative density using a global distribution of meteor radars, *Atmos. Chem. Phys.*, *19*, 7567–7581, doi:[10.5194/acp-19-7567-2019](https://doi.org/10.5194/acp-19-7567-2019), 2019.
 170. Yi, W., X. Xue, J. Chen, T. Chen, and N. Li, Quasi-90-day oscillation observed in the MLT region at low latitudes from the Kunming meteor radar and SABER, *Earth and Planetary Physics*, *3*, 136–146, doi:[10.26464/epp2019013](https://doi.org/10.26464/epp2019013), 2019.
 171. Yu, F. R., K. M. Huang, S. D. Zhang, C. M. Huang, F. Yi, Y. Gong, R. Wang, G. Li, and B. Ning, Quasi 10- and 16-day wave activities observed through meteor radar and MST radar during stratospheric final warming in 2015 spring, *J. Geophys. Res. Atmos.*, *124*, 6040–6056, doi:[10.1029/2019JD030630](https://doi.org/10.1029/2019JD030630), 2019.
 172. Yu, T., Z. Ren, X. Yue, Y. Yu, and W. Wan, Comparison of thermospheric density between GUVI dayside limb data and CHAMP satellite observations: Based on empirical model, *J. Geophys. Res. Space Physics*, *124*, 2165–2177, doi:[10.1029/2018JA026229](https://doi.org/10.1029/2018JA026229), 2019.
 173. Yu, T., Z. Ren, Y. Yu, and W. Wan, A New method for deriving the nightside thermospheric density based on guvi dayside limb observations, *Space Weather*, *18*, e2019SW002304, doi:[10.1029/2019SW002304](https://doi.org/10.1029/2019SW002304), 2019.
 174. Yue, J., J. M. Russell III, Q. Gan, T. Wang, P. Rong, R. Garcia, and M. G. Mlynczak, Increasing Water Vapor in the Stratosphere and Mesosphere After 2002, *Geophys. Res. Lett.*, *46*, 13452–13460, doi:[10.1029/2019GL084973](https://doi.org/10.1029/2019GL084973), 2019.
 175. Yue, J., T. Li, L. Qian, J. Lastovicka, and S. Zhang, Introduction to special issue on “Long-term changes and trends in the middle and upper atmosphere”, *J. Geophys. Res. Space Physics*, *124*, 10360–10364, doi:[10.1029/2019JA027462](https://doi.org/10.1029/2019JA027462), 2019.

176. Yue, J., Y. Jian, W. Wang, R. R. Meier, A. Burns, L. Qian, M. Jones Jr., D. L. Wu, and M. G. Mlynczak, Annual and semiannual oscillations of thermospheric composition in TIMED/GUVI limb measurements, *J. Geophys. Res. Space Physics*, *124*, 3067–3082, doi:[10.1029/2019JA026544](https://doi.org/10.1029/2019JA026544), 2019.
177. Yue, X., J. S. Friedman, Q. Zhou, X. Wu, and J. Lautenbach, Long-term lidar observations of the gravity wave activity near the mesopause at Arecibo, *Atmos. Chem. Phys.*, *19*, 3207–3221, doi:[10.5194/acp-19-3207-2019](https://doi.org/10.5194/acp-19-3207-2019), 2019.
178. Zawedde, A. E., H. N. Tyssøy, J. Stadsnes, and M. I. Sandanger, Are EEP events important for the tertiary ozone maximum?, *J. Geophys. Res. Space Physics*, *124*, 5976–5994, doi:[10.1029/2018JA026201](https://doi.org/10.1029/2018JA026201), 2019.
179. Zhang, X., B. Chen, F. He, K.-F. Song, L.-P. He, S.-J. Liu, Q.-F. Guo, Jia-Wei Li, X.-D. Wang, H.-J. Zhang, H.-F. Wang, Z.-W. Han, L. Sun, P.-J. Zhang, S. Dai, G.-X. Ding, L.-H. Chen, Z.-S. Wang, G.-W. Shi, X. Zhang, C. Yu, Z.-D. Yang, P. Zhang, and J.-S. Wang, Wide-field auroral imager onboard the Fengyun satellite, *Light-Sci. Appl.*, *8*, 47, doi:[10.1038/s41377-019-0157-7](https://doi.org/10.1038/s41377-019-0157-7), 2019.
180. Zhang, Y., and L. J. Paxton, Observations of conjugated ring current auroras at subauroral latitudes, *J. Geophys. Res. Atmos.*, *184*, 1–4, doi:[10.1016/j.jastp.2019.01.005](https://doi.org/10.1016/j.jastp.2019.01.005), 2019.
181. Zhang, Y., L. J. Paxton, and R. K. Schaefer, Deriving thermospheric temperature from observations by the global ultraviolet imager on the thermosphere ionosphere mesosphere energetics and dynamics satellite, *J. Geophys. Res. Space Physics*, *124*, doi:[10.1029/2018JA026379](https://doi.org/10.1029/2018JA026379), 2019.
182. Zhang, Y., L. J. Paxton, G. Lub, and J.-H. Yee, Impact of nitric oxide, solar EUV and particle precipitation on thermospheric density decrease, *J. Geophys. Res. Atmos.*, *182*, 147–154, doi:[10.1016/j.jastp.2018.11.016](https://doi.org/10.1016/j.jastp.2018.11.016), 2019.
183. Zhao, X. R., Z. Sheng, J. W. Li, H. Yu, and K. J. Wei, Determination of the “wave turbopause” using a numerical differentiation method, *J. Geophys. Res. Atmos.*, *124*, 10592–10607, doi:[10.1029/2019JD030754](https://doi.org/10.1029/2019JD030754), 2019.
184. Zhou, S., X. Luan, V. Pierrard, and D. Han, Isolated auroral spots observed by DMSP/SSUSI, *J. Geophys. Res. Space Physics*, *124*, 8416–8426, doi:[10.1029/2019JA026853](https://doi.org/10.1029/2019JA026853), 2019.
185. Zhu, Y., and M. Kaufmann, Consistent nighttime atomic oxygen concentrations from O₂ A-band, O(¹S) green line, and OH airglow measurements as performed by SCIAMACHY, *Geophys. Res. Lett.*, *46*, 8536–8545, doi:[10.1029/2019GL083550](https://doi.org/10.1029/2019GL083550), 2019.
186. Zhu, Y., M. Kaufmann, Q. Chen, J. Xu, Q. Gong, J. Liu, D. Wei, and M. Riese, A comparison of OH nightglow volume emission rates as measured by SCIAMACHY and SABER, *Atmos Meas Tech*, *in review*, doi:[10.5194/amt-2019-328](https://doi.org/10.5194/amt-2019-328), 2019.

2018

187. Amaro-Rivera, Y., T.-Y. Huang, and J. Urbina, On the importance of an atmospheric reference model: A case study on gravity wave-airglow interactions, *J. Atmos. Solar-Terr. Phys.*, *171*, 260–268, doi:[10.1016/j.jastp.2017.08.020](https://doi.org/10.1016/j.jastp.2017.08.020), 2018.
188. Astafyeva, E., I. Zakharenkova, K. Hozumi, P. Alken, P. Coisson, M. R. Hairston, and W. R. Coley, Study of the equatorial and low-latitude electrodynamic and ionospheric disturbances during the 22–23 June 2015 geomagnetic storm using ground-based and spaceborne techniques, *J. Geophys. Res. Space Physics*, *123*, 2424–2440, doi:[10.1002/2017JA024981](https://doi.org/10.1002/2017JA024981), 2018.
189. Bag, T., Diurnal Variation of Height-Distributed Nitric Oxide Radiative Emission During November 2004 Superstorm, *J. Geophys. Res. Space Physics*, *123*, 6727–6736, doi:[10.1029/2018JA025239](https://doi.org/10.1029/2018JA025239), 2018.

190. Bag, T., Local Time Hemispheric Asymmetry in Nitric Oxide Radiative Emission During Geomagnetic Activity, *J. Geophys. Res. Space Physics*, 123, 9669-9681, doi:[10.1029/2018JA025731](https://doi.org/10.1029/2018JA025731), 2018.
191. Bagiya, M. S., S. V. Thampi, D. Hui, A. S. Sunil, D. Chakrabarty, and R. K. Choudhary, Signatures of the solar transient disturbances over the low latitude ionosphere during 6 to 8 September 2017, *J. Geophys. Res. Space Physics*, *accepted*, doi:[10.1029/2018JA025496](https://doi.org/10.1029/2018JA025496), 2018.
192. Baumgarten, K., M. Gerding, G. Baumgarten, and F.-J. Lübken, Temporal variability of tidal and gravity waves during a record long 10-day continuous lidar sounding, *Atmos. Chem. Phys.*, 18, 371-384, doi:[10.5194/acp-18-371-2018](https://doi.org/10.5194/acp-18-371-2018), 2018.
193. Belikov, M. V., M. Y. Kulikov, M. Grygalashvyly, G. R. Sonnemann, T. S. Ermakova, A. A. Nechaev, and A. M. Feigina, Ozone chemical equilibrium in the extended mesopause under the nighttime conditions, *Adv. Space Res.*, 61, 426-432, doi:[10.1016/j.asr.2017.10.010](https://doi.org/10.1016/j.asr.2017.10.010), 2018.
194. Bharti, G., M. V. S. Krishna, T. Bag, and P. Jain, Storm Time Variation of Radiative Cooling by Nitric Oxide as Observed by TIMED-SABER and GUVI, *J. Geophys. Res. Space Physics*, 123, 1500-1514, doi:[10.1002/2017JA024576](https://doi.org/10.1002/2017JA024576), 2018.
195. Borchert, S., G. Zhou, M. Baldauf, H. Schmidt, G. Zängl, and D. Reinert, The upper-atmosphere extension of the ICON general circulation model, *Geosci. Model Dev. Discuss.*, *accepted*, doi:[10.5194/gmd-2018-289](https://doi.org/10.5194/gmd-2018-289), 2018.
196. Bowman, D. C., and J. M. Lees, Upper atmosphere heating from ocean-generated acoustic wave energy, *Geophys. Res. Lett.*, 45, 5144-5150, doi:[10.1029/2018GL077737](https://doi.org/10.1029/2018GL077737), 2018.
197. Bresciani, C., G. D. Bittencourt, J. V. Bageston, D. K. Pinheiro, N. J. Schuch, H. Benchérif, N. P. Leme, and L. V. Peres, Report of a large depletion in the ozone layer over southern Brazil and Uruguay by using multi-instrumental data, *Ann. Geophys.*, 36, 405-413, doi:[10.5194/angeo-36-405-2018](https://doi.org/10.5194/angeo-36-405-2018), 2018.
198. Chamberlin, P. C., T. N. Woods, L. Didkovsky, F. G. Eparvier, A. R. Jones, J. L. Machol, J. P. Mason, M. Snow, E. M. B. Thiemann, R. A. Viereck, and D. L. Woodraska, Solar Ultraviolet Irradiance Observations of the Solar Flares During the Intense September 2017 Storm Period, *Space Weather*, 16, 1470, doi:[10.1029/2018SW001866](https://doi.org/10.1029/2018SW001866), 2018.
199. Chen, W.-S., C. J. Pan, and U. Das, The mean zonal wind effect on the long-term variation of ultra-fast Kelvin waves in the mesosphere and lower thermosphere and in the upper stratosphere, *J. Atmos. Solar-Terr. Phys.*, 179, 459-467, doi:[10.1016/j.jastp.2018.10.006](https://doi.org/10.1016/j.jastp.2018.10.006), 2018.
200. Chen, X., and J. Lei, A numerical study of the thermospheric overcooling during the recovery phases of the October 2003 storms, *J. Geophys. Res. Space Physics*, 123, *early view*, doi:[10.1029/2017JA025120](https://doi.org/10.1029/2017JA025120), 2018.
201. Chen, Y., L. Liu, H. Le, and W. Wan, Responses of Solar Irradiance and the Ionosphere to an Intense Activity Region, *J. Geophys. Res. Space Physics*, 123, 3, 2116-2126, doi:[10.1002/2017JA024765](https://doi.org/10.1002/2017JA024765), 2018.
202. Chen, Z., H. Chen, J. Xu, D. Lü, S. Zhang, X. Xue, W. Tian, R. Liu, W. Chen, Y. Hu, R. Wang, D. Hu, X. Hu, G. Yang, Y. Gong, and G. Lu, Advances in the Researches of the Middle and Upper Atmosphere in China, *Chinese Journal of Space Science*, 38, 5, 763-780, doi:[10.11728/cjss2018.05.763](https://doi.org/10.11728/cjss2018.05.763), 2018.
203. Cheng, X., C. Xiao, X. Hu, and J. Yang, Evaluation of atmospheric empirical model based on TIMED/SABER satellite temperature data, *Scientia Sinica Physica, Mechanica & Astronomica*, 48(10), 104701, doi:[10.1360/SSPMA2018-00091](https://doi.org/10.1360/SSPMA2018-00091), 2018.
204. Cherniak, I., A. Krankowski, and I. Zakharenkova, ROTI Maps: a new IGS ionospheric product characterizing the ionospheric irregularities occurrence, *GPS Solut.*, 22:69, doi:[10.1007/s10291-018-0730-1](https://doi.org/10.1007/s10291-018-0730-1), 2018.
205. Dalin, P., N. Pertsev, V. Perminov, A. Dubietis, A. Zadorozhny, M. Zalcik, I. McEachran, T. McEwan, K. Černis, J. Grønne, T. Tastrup, O. Hansen, H. Andersen, D. Melnikov, A.

- Manevich, V. Romejko, and D. Lifatov, Response of noctilucent cloud brightness to daily solar variations, *J. Atmos. Solar-Terr. Phys.*, 169, 83-90, doi:[10.1016/j.jastp.2018.01.025](https://doi.org/10.1016/j.jastp.2018.01.025), 2018.
206. Danilov, A. D., A. Y. Repin, V. T. Minligareev, and E. N. Khotenko, Studies of Trends in the Upper Atmosphere for Improving Diagnosis and Forecasts in the Helio–Geophysical Service of the State Committee on Hydrometeorology, *Geomagn. Aeron.*, 58, 493-500, doi:[10.1134/S0016793218040047](https://doi.org/10.1134/S0016793218040047), 2018.
207. Danzer, J., M. Schwärz, V. Proschek, U. Foelsche, and H. Gleisner, Comparison study of COSMIC RO dry air climatologies based on average profile inversion, *Atmos. Meas. Tech.*, 11, 4867-4882, doi:[10.5194/amt-11-4867-2018](https://doi.org/10.5194/amt-11-4867-2018), 2018.
208. Dawkins, E. C. M., A. Feofilov, L. Rezac, A. A. Kutepov, D. Janches, J. Höffner, X. Chu, X. Lu, M. G. Mlynczak, and J. M. Russell III, Validation of SABER v2.0 Operational Temperature Data With Ground-Based Lidars in the Mesosphere-Lower Thermosphere Region (75–105 km), *J. Geophys. Res. Atmos.*, 123, 9916-9934, doi:[10.1029/2018JD028742](https://doi.org/10.1029/2018JD028742), 2018.
209. de la Torre, A. , P. Alexander, T. Schmidt, P. Llamedo, and R. Hierro, On the distortions in calculated GW parameters during slanted atmospheric soundings, *Atmos. Meas. Tech.*, 11, 1363-1375, doi:[10.5194/amt-11-1363-2018](https://doi.org/10.5194/amt-11-1363-2018), 2018.
210. Desai, M. V., and S. N. Shah, Impacts of Intense Geomagnetic Storms on NavIC / IRNSS System, *Annals of Geophysics*, 61:5, doi:[10.4401/ag-7856](https://doi.org/10.4401/ag-7856), 2018.
211. Dhadly, M. S., J. T. Emmert, D. P. Drob, J. P. McCormack, and R. Nieciejewski, Short-term and interannual variations of migrating diurnal and semidiurnal tides in the mesosphere and lower thermosphere, *J. Geophys. Res. Space Physics*, 123, 7106–7123, doi:[10.1029/2018JA025748](https://doi.org/10.1029/2018JA025748), 2018.
212. Diallo, M., M. Riese, T. Birner, P. Konopka, R. Müller, M. I. Hegglin, M. L. Santee, M. Baldwin, B. Legras, and F. Ploeger, Response of stratospheric water vapor and ozone to the unusual timing of El Niño and the QBO disruption in 2015–2016, *Atmos. Chem. Phys.*, 18, 13055–13073, doi:[10.5194/acp-18-13055-2018](https://doi.org/10.5194/acp-18-13055-2018), 2018.
213. Dominique, M., A. N. Zhukov, P. Heinzel, I. E. Dammasch, L. Wauters, L. Dolla, S. Shestov, M. Kretschmar, J. Machol, G. Lapenta, and W. Schmutz, First Detection of Solar Flare Emission in Mid-ultraviolet Balmer Continuum, *Astrophys. J. Lett.*, 867, 2, doi:[10.3847/2041-8213/aaeace](https://doi.org/10.3847/2041-8213/aaeace), 2018.
214. Dong, W., S. Zhang, C. Huang, K. Huang, Y. Gong, and Q. Gan, A numerical study of gravity wave propagation characteristics in the stratospheric thermal duct, *J. Geophys. Res. Atmos.*, 123, 11,918–11,937, doi:[10.1029/2018JD029190](https://doi.org/10.1029/2018JD029190), 2018.
215. Eckermann, S. D., J. Ma, K. W. Hoppel, D. D. Kuhl, D. R. Allen, J. A. Doyle, K. C. Viner, B. C. Ruston, N. L. Baker, S. D. Swadley, T. R. Whitcomb, C. A. Reynolds, L. Xud, N. Kaifler, B. Kaifler, I. M. Reid, D. J. Murphy, and P. T. Love, High-Altitude (0–100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE), *Mon. Weather Rev.*, 146, 2639-2666, doi:[10.1175/MWR-D-17-0386.1](https://doi.org/10.1175/MWR-D-17-0386.1), 2018.
216. Egito, F., R. A. Buriti, A. F. Medeiros, and H. Takahashi, Ultrafast Kelvin waves in the MLT airglow and wind, and their interaction with the atmospheric tides, *Ann. Geophys.*, 36, 231–241, doi:[10.5194/angeo-36-231-2018](https://doi.org/10.5194/angeo-36-231-2018), 2018.
217. Ermolenko, S. I., G. M. Shved, C. Jacobi, Detecting atmospheric normal modes with periods less than 6 h by barometric observations, *J. Atmos. Solar-Terr. Phys.*, 169, 1-5, doi:[10.1016/j.jastp.2017.12.007](https://doi.org/10.1016/j.jastp.2017.12.007), 2018.
218. Ern, M., Q. T. Trinh, P. Preusse, J. C. Gille, M. G. Mlynczak, J. M. Russell III, and M. Riese, GRACILE: a comprehensive climatology of atmospheric gravity wave parameters based on satellite limb soundings, *Earth Syst. Sci. Data*, 10, 857-892, doi:[10.5194/essd-10-857-2018](https://doi.org/10.5194/essd-10-857-2018), 2018.

219. Eswaraiyah, S., Y. H. Kim, J. Lee, M. V. Ratnam, and S. V. B. Rao, Effect of Southern Hemisphere sudden stratospheric warmings on Antarctica mesospheric tides: First observational study, *J. Geophys. Res. Space Physics*, *123*, 2127–2140, doi:[10.1002/2017JA024839](https://doi.org/10.1002/2017JA024839), 2018.
220. Flynn, S., D. J. Knipp, T. Matsuo, M. G. Mlynczak, and L. A. Hunt, Understanding the global variability in Thermospheric nitric oxide flux using empirical orthogonal functions (EOFs), *J. Geophys. Res. Space Physics*, *123*, 4150–4170, doi:[10.1029/2018JA025353](https://doi.org/10.1029/2018JA025353), 2018.
221. Forbes, J. M., X. Zhang, A. Maute, and M. E. Hagan, Zonally symmetric oscillations of the thermosphere at planetary wave periods, *J. Geophys. Res. Space Physics*, *123*, 4110–4128, doi:[10.1002/2018JA025258](https://doi.org/10.1002/2018JA025258), 2018.
222. France, J. A., C. E. Randall, R. S. Lieberman, V. L. Harvey, S. D. Eckermann, D. E. Siskind, J. D. Lumpe, S. M. Bailey, J. N. Carstens, and J. M. Russell III, Local and Remote Planetary Wave Effects on Polar Mesospheric Clouds in the Northern Hemisphere in 2014, *J. Geophys. Res. Atmos.*, *123*, 5149–5162, doi:[10.1029/2017JD028224](https://doi.org/10.1029/2017JD028224), 2018.
223. Friedrich, M., C. Pock, and K. Torkar, FIRI-2018, an updated empirical model of the lower ionosphere, *J. Geophys. Res. Space Physics*, *123*, 6737–6751, doi:[10.1029/2018JA025437](https://doi.org/10.1029/2018JA025437), 2018.
224. Fritts, D. C., S. B. Vosper, B. P. Williams, K. Bossert, J. M. C. Plane, M. J. Taylor, P.-D. Pautet, S. D. Eckermann, C. G. Kruse, R. B. Smith, A. Dörnbrack, M. Rapp, T. Mixa, I. M. Reid, and D. J. Murphy, Large-Amplitude Mountain Waves in the Mesosphere Accompanying Weak Cross-Mountain Flow During DEEPWAVE Research Flight RF22, *J. Geophys. Res. Atmos.*, *accepted*, doi:[10.1029/2017JD028250](https://doi.org/10.1029/2017JD028250), 2018.
225. Gan, Q., J. Oberheide, and N. M. Pedatella, N. M., Sources, sinks, and propagation characteristics of the quasi 6-day wave and its impact on the residual mean circulation, *J. Geophys. Res. Atmos.*, *123*, 9152–9170, doi:[10.1029/2018JD028553](https://doi.org/10.1029/2018JD028553), 2018.
226. Gardner, C. S., Role of wave-induced diffusion and energy flux in the vertical transport of atmospheric constituents in the mesopause region, *J. Geophys. Res. Atmos.*, *123*, 6581–6604, doi:[10.1029/2018JD028359](https://doi.org/10.1029/2018JD028359), 2018.
227. Gasperini, F., J. M. Forbes, E. N. Doornbos, and S. L. Bruinsma, Kelvin wave coupling from TIMED and GOCE: Inter/intra-annual variability and solar activity effects, *J. Atmos. Solar-Terr. Phys.*, *171*, 176–187, doi:[10.1016/j.jastp.2017.08.034](https://doi.org/10.1016/j.jastp.2017.08.034), 2018.
228. Gavrilov, N. M., A. V. Koval, Alexander I. Pogoreltsev, and E. N. Savenkova, Simulating planetary wave propagation to the upper atmosphere during stratospheric warming events at different mountain wave scenarios, *Adv. Space Res.*, *61*, 1819–1836, doi:[10.1016/j.asr.2017.08.022](https://doi.org/10.1016/j.asr.2017.08.022), 2018.
229. Gavriilyeva, G. A., and P. Ammosov, Influence of geomagnetic activity on mesopause temperature over Yakutia, *Atmos. Chem. Phys.*, *18*, 3363–3367, doi:[10.5194/acp-18-3363-2018](https://doi.org/10.5194/acp-18-3363-2018), 2018.
230. Ghosh, P., T. K. Ramkumar, and S. Sharma, Anomalous behavior of vertical wavenumber spectra over a tropical station of India, *Geophys. Res. Lett.*, *45*, 12,553–12,559, doi:[10.1029/2018GL079934](https://doi.org/10.1029/2018GL079934), 2018.
231. Giongo, G. A., J. V. Bageston, P. P. Batista, C. M. Wrasse, G. D. Bittencourt, I. Paulino, N. M. P. Leme, D. C. Fritts, D. Janches, W. Hocking, and N. J. Schuch, Mesospheric front observations by the OH airglow imager carried out at Ferraz Station on King George Island, Antarctic Peninsula, in 2011, *Ann. Geophys.*, *36*, 253–264, doi:[10.5194/angeo-36-253-2018](https://doi.org/10.5194/angeo-36-253-2018), 2018.
232. Gómez, J. M. R., L. Vieira, A. Dal Lago, and J. Palacios, Coronal Electron Density Temperature and Solar Spectral Irradiance during Solar Cycles 23 and 24, *Astrophys. J.*, *852*, 2, doi:[10.3847/1538-4357/aa9f1c](https://doi.org/10.3847/1538-4357/aa9f1c), 2018.

233. Gong, Y., C. Li, Z. Ma, S. Zhang, Q. Zhou, C. Huang, K. Huang, G. Li, and B. Ning, Study of the Quasi-5-Day Wave in the MLT Region by a Meteor Radar Chain, *J. Geophys. Res. Atmos.*, *123*, 9474-9487, doi:[10.1029/2018JD029355](https://doi.org/10.1029/2018JD029355), 2018.
234. Gong, Y., Z. Ma, X. Lv, S. Zhang, Q. Zhou, N. Aponte, and M. Sulzer, A study on the quarterdiurnal tide in the thermosphere at Arecibo during the February 2016 sudden stratospheric warming event, *Geophys. Res. Lett.*, *45*, 13,142–13,149, doi:[10.1029/2018GL080422](https://doi.org/10.1029/2018GL080422), 2018.
235. Gonzalez-Esparza, J. A., M. A. Sergeeva, P. Corona-Romero, J. C. Mejia-Ambriz, L. X. Gonzalez, V. De la Luz, E. Aguilar-Rodriguez, M. Rodriguez, and E. Romero-Hernández, Space weather events, hurricanes, and earthquakes in Mexico in September 2017, *Space Weather*, *16*, 2038–2051, doi:[10.1029/2018SW001995](https://doi.org/10.1029/2018SW001995), 2018.
236. Gordillo-Vázquez, F. J., M. Passas, A. Luque, J. Sánchez, O. A. van der Velde, and J. Montanyà, High spectral resolution spectroscopy of sprites: A natural probe of the mesosphere, *J. Geophys. Res. Atmos.*, *123*, 2336-2346, doi:[10.1002/2017JD028126](https://doi.org/10.1002/2017JD028126), 2018.
237. Grava, C., W. R. Pryor, P. D. Feldman, K. D. Retherford, G. R. Gladstone, and T. K. Greathouse, LRO/LAMP study of the interstellar medium via the HeI 58.4 nm resonance line, *Astron. & Astrophys.*, *616*, A159, doi:[10.1051/0004-6361/201731555](https://doi.org/10.1051/0004-6361/201731555), 2018.
238. Grubbs, G., R. Michell, M. Samara, D. Hampton, J. Hecht, S. Solomon, and J.-M. Jahn, A comparative study of spectral auroral intensity predictions from multiple electron transport models *J. Geophys. Res. Space Physics*, *123*, 993–1005, doi:[10.1002/2017JA025026](https://doi.org/10.1002/2017JA025026), 2018.
239. Gu, S.-Y., H. Ruan, C.-Y. Yang, Q. Gan, X. Dou, and N. Wang, The morphology of the 6-day wave in both the neutral atmosphere and F region ionosphere under solar minimum conditions, *J. Geophys. Res. Space Physics*, *123*, 4232-4240, doi:[10.1029/2018JA025302](https://doi.org/10.1029/2018JA025302), 2018.
240. Gu, S.-Y., X. Dou, D. Pancheva, W. Yi, and T. Chen, Investigation of the abnormal quasi 2-day wave activities during the sudden stratospheric warming period of January 2006, *J. Geophys. Res. Space Physics*, *123*, 6031–6041, doi:[10.1029/2018JA025596](https://doi.org/10.1029/2018JA025596), 2018.
241. Guharay, A., P. P. Batista, R. A. Buriti, and N. J. Schuch, On the variability of the quarter-diurnal tide in the MLT over Brazilian low-latitude stations. *Earth Planets Space* *70*, 140, doi:[10.1186/s40623-018-0910-9](https://doi.org/10.1186/s40623-018-0910-9), 2018.
242. Hänninen, K., Ecologically Important Reactions and Phenomena in the Mesosphere between the Two Global Ozone Layers, *Environment and Ecology Research*, *6*, 433-445, doi:[10.13189/eer.2018.060504](https://doi.org/10.13189/eer.2018.060504), 2018.
243. Haridas, M. K. M., G. Manju, and T. Arunamani, Solar activity variations of equatorial spread F occurrence and sustenance during different seasons over Indian longitudes: Empirical model and causative mechanisms, *Adv. Space Res.*, *61*, 2585-2592, doi:[10.1016/j.asr.2018.02.040](https://doi.org/10.1016/j.asr.2018.02.040), 2018.
244. Hart, M., Long-term Spectroscopic Observations of the Atmospheric Airglow by the Sloan Digital Sky Survey, *Publ. Astron. Soc. Pac.*, *131*, 995, 25pp, doi:[10.1088/1538-3873/aae972](https://doi.org/10.1088/1538-3873/aae972), 2018.
245. He, M., J. L. Chau, G. Stober, G. Li, B. Ning, and P. Hoffmann, Relations between semidiurnal tidal variants through diagnosing the zonal wavenumber using a phase differencing technique based on two ground-based detectors. *J. Geophys. Res. Atmos.*, *123*, 4015-4026, doi:[10.1002/2018JD028400](https://doi.org/10.1002/2018JD028400), 2018.
246. Hecht, J. H., D. C. Fritts, L. Wang, L. J. Gelinas, R. J. Rudy, R. L. Walterscheid, M. J. Taylor, P. D. Pautet, S. Smith, and S. J. Franke, Observations of the Breakdown of Mountain Waves Over the Andes Lidar Observatory at Cerro Pachon on 8/9 July 2012, *J. Geophys. Res. Atmos.*, *123*, 276-299, doi:[10.1002/2017JD027303](https://doi.org/10.1002/2017JD027303), 2018.
247. Hecht, J. H., J. H. Clemmons, M. G. Conde, D. L. Hampton, R. G. Michell, D. Rowland, R. F. Pfaff, and R. L. Walterscheid, Observations of spatial variations in O/N₂ during an auroral

- substorm using the multichannel downlooking camera on the VISIONS rocket, *J. Geophys. Res. Space Physics*, 123, 7089–7105, doi:[10.1029/2018JA025288](https://doi.org/10.1029/2018JA025288), 2018.
248. Hendrickx, K., L. Megner, D. R. Marsh, and C. Smith-Johnsen, Production and transport mechanisms of NO in the polar upper mesosphere and lower thermosphere in observations and models, *Atmos. Chem. Phys.*, 18, 9075–9089, doi:[10.5194/acp-18-9075-2018](https://doi.org/10.5194/acp-18-9075-2018), 2018.
249. Hocke, K., M. Lainer, L. Bernet, and N. Kämpfer, Mesospheric Inversion Layers at Mid-Latitudes and Coincident Changes of Ozone, Water Vapour and Horizontal Wind in the Middle Atmosphere, *Atmosphere*, 9, 171–184, doi:[10.3390/atmos9050171](https://doi.org/10.3390/atmos9050171), 2018.
250. Hoffmann, C. G., C. von Savigny, M. E. Hervig, and E. Oberbremer, The lunar semidiurnal tide at the polar summer mesopause observed by SOFIE, *J. Atmos. Solar-Terr. Phys.*, 167, 134–145, doi:[10.1016/j.jastp.2017.11.014](https://doi.org/10.1016/j.jastp.2017.11.014), 2018.
251. Hozumi, Y., A. Saito, T. Sakanoi, A. Yamazaki, and K. Hosokawa, Mesospheric bores at southern midlatitudes observed by ISS-IMAP/VISI: a first report of an undulating wave front, *Atmos. Chem. Phys.*, 18, 16399–16407, doi:[10.5194/acp-18-16399-2018](https://doi.org/10.5194/acp-18-16399-2018), 2018.
252. Huang, H., X. Lu, L. Liu, W. Wang, and Q. Li, Transition of interhemispheric asymmetry of equatorial ionization anomaly during solstices, *J. Geophys. Res. Space Physics*, 123, 10,283–10,300, doi:[10.1029/2018JA026055](https://doi.org/10.1029/2018JA026055), 2018.
253. Huang, T.-Y., Influences of CO₂ increase, solar cycle variation, and geomagnetic activity on airglow from 1960 to 2015, *J. Atmos. Solar-Terr. Phys.*, 171, 164–175, doi:[10.1016/j.jastp.2017.06.008](https://doi.org/10.1016/j.jastp.2017.06.008), 2018.
254. Immel, T. J., S. L. England, S. B. Mende, R. A. Heelis, C. R. Englert, J. Edelstein, H. U. Frey, E. J. Korpela, E. R. Taylor, W. W. Craig, S. E. Harris, M. Bester, G. S. Bust, G. Crowley, J. M. Forbes, J.-C. Gérard, J. M. Harlander, J. D. Huba, B. Hubert, F. Kamalabadi, J. J. Makela, A. I. Maute, R. R. Meier, C. Raftery, P. Rochus, O. H. W. Siegmund, A. W. Stephan, G. R. Swenson, S. Frey, D. L. Hysell, A. Saito, K. A. Rider, and M. M. Sirk, The Ionospheric Connection Explorer Mission: Mission Goals and Design, *Space Sci. Rev.*, 214:13, doi:[10.1007/s11214-017-0449-2](https://doi.org/10.1007/s11214-017-0449-2), 2018.
255. Jia, M., X. Xue, S. Gu, T. Chen, B. Ning, J. Wu, X. Zeng, and X. Dou, Multiyear observations of gravity wave momentum fluxes in the midlatitude mesosphere and lower thermosphere region by meteor radar, *J. Geophys. Res. Space Physics*, 123, 5684–5703, doi:[10.1029/2018JA025285](https://doi.org/10.1029/2018JA025285), 2018.
256. Jiang, J., W. Wan, Z. Ren, and X. Yue, Asymmetric DE3 causes WN3 in the ionosphere, *J. Atmos. Solar-Terr. Phys.*, 173, 14–22, doi:[10.1016/j.jastp.2018.04.006](https://doi.org/10.1016/j.jastp.2018.04.006), 2018.
257. Jiao, J., G. Yang, X. Cheng, Z. Liu, J. Wang, Z. Yan, C. Wang, P. Batista, A. Pimenta, V. Andrioli, and C. M. Denardini, Simultaneous lidar observation of peculiar sporadic K and Na layers at São José dos Campos (23.1°S, 45.9°W), Brazil, *Adv. Space Res.*, 61, 1942–1951, doi:[10.1016/j.asr.2017.12.002](https://doi.org/10.1016/j.asr.2017.12.002), 2018.
258. Jonah, O. F., A. Coster, S. Zhang, L. Goncharenko, P. J. Erickson, E. R. Paula, and E. A. Kherani, TID observations and source analysis during the 2017 Memorial Day weekend geomagnetic storm over North America, *J. Geophys. Res. Space Physics*, 123, 8749–8765, doi:[10.1029/2018JA025367](https://doi.org/10.1029/2018JA025367), 2018.
259. Jones Jr., M., D. P. Drob, D. E. Siskind, J. P. McCormack, A. Maute, S. E. McDonald, and K. F. Dymond, Evaluating different techniques for constraining lower atmospheric variability in an upper atmosphere general circulation model: A case study during the 2010 sudden stratospheric warming, *J. Adv. Model. Earth Sy.*, 10, 3076–3102, doi:[10.1029/2018MS001440](https://doi.org/10.1029/2018MS001440), 2018.
260. Jones, M., J. T. Emmert, D. P. Drob, J. M. Picone, and R. R. Meier, Origins of the thermosphere-ionosphere semiannual oscillation: Reformulating the “thermospheric spoon” mechanism, *J. Geophys. Res. Space Physics*, 123, 931–954, doi:[10.1002/2017JA024861](https://doi.org/10.1002/2017JA024861), 2018.

261. Kaifler, N., B. Kaifler, H. Wilms, M. Rapp, G. Stober, and C. Jacobi, Mesospheric temperature during the extreme midlatitude noctilucent cloud event on 18/19 July 2016, *J. Geophys. Res. Atmos.*, *123*, 13,775–13,789, doi:[10.1029/2018JD029717](https://doi.org/10.1029/2018JD029717), 2018.
262. Kalicinsky, C., D. H. W. Peters, G. Entzian, P. Knieling, and V. Matthias, Observational evidence for a quasi-bidecadal oscillation in the summer mesopause region over Western Europe, *J. Atmos. Solar-Terr. Phys.*, *178*, 7-16, doi:[10.1016/j.jastp.2018.05.008](https://doi.org/10.1016/j.jastp.2018.05.008), 2018.
263. Kalogerakis, K. S., D. Matsiev, P. C. Cosby, J. A. Dodd, S. Falcinelli, J. Hedin, A. A. Kutepov, S. Noll, P. A. Panka, C. Romanescu, and J. E. Thiebaud, New insights for mesospheric OH: multi-quantum vibrational relaxation as a driver for non-local thermodynamic equilibrium, *Ann. Geophys.*, *36*, 13–24, doi:[10.5194/angeo-36-13-2018](https://doi.org/10.5194/angeo-36-13-2018), 2018.
264. Karan, D. K., and D. Pallamraju, Effect of geomagnetic storms on the daytime low-latitude thermospheric wave dynamics, *J. Atmos. Solar-Terr. Phys.*, *170*, 35-47, doi:[10.1016/j.jastp.2018.02.003](https://doi.org/10.1016/j.jastp.2018.02.003), 2018.
265. Kashcheyev, A., Y. Migoya-Oru e, C. Amory-Mazaudier, R. Fleury, B. Nava, K. Alazo-Cuartas, S. M. Radicella, Multivariable comprehensive analysis of two great geomagnetic storms of 2015, *J. Geophys. Res. Space Physics*, *123*, 5000–5018, doi:[10.1029/2017JA024900](https://doi.org/10.1029/2017JA024900), 2018.
266. King, G. W., P. J. Wheatley, M. Salz, V. Bourrier, S. Czesla, D. Ehrenreich, J. Kirk, A. Lecavelier des Etangs, T. Louden, J. Schmitt, and P. C. Schneider, The XUV environments of exoplanets from Jupiter-size to super-Earth, *Mon. Not. Royal Astron. Soc.*, *478*, 1193-1208, doi:[10.1093/mnras/sty1110](https://doi.org/10.1093/mnras/sty1110), 2018.
267. Kishore, P., I. Velicogn, T. C. Sutterley, Y. Mohajerani, E. Ciraci, and G. N. Madhavi, A case study of mesospheric planetary waves observed over a three-radar network using empirical mode decomposition, *Ann. Geophys.*, *36*, 925-936, doi:[10.5194/angeo-36-925-2018](https://doi.org/10.5194/angeo-36-925-2018), 2018.
268. Knight, H. K., I. A. Galkin, B. W. Reinisch, and Y. Zhang, Auroral Ionospheric E Region Parameters Obtained From Satellite-Based Far Ultraviolet and Ground-Based Ionosonde Observations: Data, Methods, and Comparisons, *J. Geophys. Res. Space Physics*, *123*, early view, doi:[10.1029/2017JA024822](https://doi.org/10.1029/2017JA024822), 2018.
269. Knizova, P. K., K. Georgiev, Z. Mosna, M. Kozubek, D. Kouba, B. Kirov, K. Potuznikova, and J. Boska, Solar signals detected within neutral atmospheric and ionospheric parameters, *J. Atmos. Solar-Terr. Phys.*, *171*, 147-156, doi:[10.1016/j.jastp.2017.12.003](https://doi.org/10.1016/j.jastp.2017.12.003), 2018.
270. Kosar, B. C., E. A. MacDonald, N. A. Case, Y. Zhang, E. J. Mitchell, and R. Viereck, A case study comparing citizen science aurora data with global auroral boundaries derived from satellite imagery and empirical models, *J. Atmos. Solar-Terr. Phys.*, *177*, 274-282, doi:[10.1016/j.jastp.2018.05.006](https://doi.org/10.1016/j.jastp.2018.05.006), 2018.
271. Koval, A. V., N. M. Gavrilov, A. I. Pogoreltsev, and N. O. Shevchuk, Propagation of stationary planetary waves to the thermosphere at different levels of solar activity, *J. Geophys. Res. Space Physics*, *173*, 140-149, doi:[10.1016/j.jastp.2018.03.012](https://doi.org/10.1016/j.jastp.2018.03.012), 2018.
272. Koval, A. V., N. M. Gavrilov, A. I. Pogoreltsev, and N. O. Shevchuk, Influence of solar activity on penetration of traveling planetary-scale waves from the troposphere into the thermosphere, *J. Geophys. Res. Space Physics*, *123*, 6888–6903, doi:[10.1029/2018JA025680](https://doi.org/10.1029/2018JA025680), 2018.
273. Krisch, I., J. Ungermann, P. Preusse, E. Kretschmer, and M. Riese, Limited angle tomography of mesoscale gravity waves by the infrared limb-sounder GLORIA, *Atmos. Meas. Tech.*, *11*, 4327-4344, doi:[10.5194/amt-11-4327-2018](https://doi.org/10.5194/amt-11-4327-2018), 2018.
274. Kulichkov, S. N., O. Y. Popov, K. V. Avilov, I. P. Chunchuzov, O. G. Chkhetiani, A. A. Smirnov, V. I. Dubrovin, and A. A. Mishenin, Simulating the Propagation of Infrasonic Waves and Estimating the Energy of the Chelyabinsk Meteoroid Explosion Observed on February 15, 2013, *Izvestiya, Atmospheric and Oceanic Physics*, *54*, 293–303, doi:[10.1134/S0001433818030106](https://doi.org/10.1134/S0001433818030106), 2018.

275. Kulikov, M. Y., A. A. Nechaev, M. V. Belikovich, T. S. Ermakova, and A. M. Feigin, Technical note: Evaluation of the simultaneous measurements of mesospheric OH, HO₂, and O₃ under a photochemical equilibrium assumption – a statistical approach, *Atmos. Chem. Phys.*, *18*, 7453–7471, doi:[10.5194/acp-18-7453-2018](https://doi.org/10.5194/acp-18-7453-2018), 2018.
276. Kulikov, M. Y., M. V. Belikovich, M. Grygalashvyly, G. R. Sonnemann, T. S. Ermakova, A. A. Nechaev, and A. M. Feigin, Nighttime ozone chemical equilibrium in the mesopause region, *J. Geophys. Res. Atmos.*, *123*, 3228–3242, doi:[10.1002/2017JD026717](https://doi.org/10.1002/2017JD026717), 2018.
277. Kumar, K. K., K. V. Subrahmanyam, S. S. Mathew, N. Koushik, and G. Ramkumar, Simultaneous observations of the quasi 2-day wave climatology over the low and equatorial latitudes in the mesosphere lower thermosphere, *Clim. Dyn.*, *51*, 221–233, doi:[10.1007/s00382-017-3916-2](https://doi.org/10.1007/s00382-017-3916-2), 2018.
278. Kurkin, V. I., N. M. Polekh, and N. A. Zolotukhina, The pattern of ionospheric disturbances caused by complex interplanetary structure on 19–22 December 2015, *J. Atmos. Solar-Terr. Phys.*, *179*, 472–483, doi:[10.1016/j.jastp.2018.07.003](https://doi.org/10.1016/j.jastp.2018.07.003), 2018.
279. Kyrölä, E., M. E. Andersson, P. T. Verronen, M. Laine, S. Tukiainen, and D. R. Marsh, Middle atmospheric ozone, nitrogen dioxide and nitrogen trioxide in 2002–2011: SD-WACCM simulations compared to GOMOS observations, *Atmos. Chem. Phys.*, *18*, 5001–5019, doi:[10.5194/acp-18-5001-2018](https://doi.org/10.5194/acp-18-5001-2018), 2018.
280. Lainer, M., K. Hocke, and N. Kämpfer, Long-term observation of midlatitude quasi 2-day waves by a water vapor radiometer, *Atmos. Chem. Phys.*, *18*, 12061–12074, doi:[10.5194/acp-18-12061-2018](https://doi.org/10.5194/acp-18-12061-2018), 2018.
281. Lambert, A., and M. L. Santee, Accuracy and precision of polar lower stratospheric temperatures from reanalyses evaluated from A-Train CALIOP and MLS, COSMIC GPS RO, and the equilibrium thermodynamics of supercooled ternary solutions and ice clouds, *Atmos. Chem. Phys.*, *18*, 1945–1975, doi:[10.5194/acp-18-1945-2018](https://doi.org/10.5194/acp-18-1945-2018), 2018.
282. Lee, C., G. Jee, J.-H. Kim, and I.-S. Song, Meteor echo height ceiling effect and mesospheric temperature estimation from meteor radar observations, *Ann. Geophys.*, *36*, 1267–1274, doi:[10.5194/angeo-36-1267-2018](https://doi.org/10.5194/angeo-36-1267-2018), 2018.
283. Lee, J. N., D. L. Wu, A. Ruzmaikin, and J. Fontenla, Solar cycle variations in mesospheric carbon monoxide, *J. Atmos. Solar-Terr. Phys.*, *170*, 21–34, doi:[10.1016/j.jastp.2018.02.001](https://doi.org/10.1016/j.jastp.2018.02.001), 2018.
284. Lee, W. K., H. Kil, and L. J. Paxton, Tropical ionization trough in the ionosphere seen by Swarm-A satellite, *Geophys. Res. Lett.*, *45*, 12,135–12,141, doi:[10.1029/2018GL080286](https://doi.org/10.1029/2018GL080286), 2018.
285. Lehmacher, G. A., M. F. Larsen, R. L. Collins, A. Barjatya, and B. Strelnikov, On the short-term variability of turbulence and temperature in the winter mesosphere, *Ann. Geophys.*, *36*, 1099–1116, doi:[10.5194/angeo-36-1099-2018](https://doi.org/10.5194/angeo-36-1099-2018), 2018.
286. Lei, J., F. Huang, X. Chen, J. Zhong, D. Ren, W. Wang, X. Yue, X. Luan, M. Jia, X. Dou, L. Hu, B. Ning, C. Owolabi, J. Chen, G. Li, and X. Xue, Was magnetic storm the only driver of the long-duration enhancements of daytime total electron content in the Asian-Australian sector between 7 and 12 September 2017?, *J. Geophys. Res. Space Physics*, *123*, 3217–3232, doi:[10.1029/2017JA025166](https://doi.org/10.1029/2017JA025166), 2018.
287. Li, J., W. Wang, J. Lu, T. Yuan, J. Yue, X. Liu, K. Zhang, A. G. Burns, Y. Zhang, and Z. Li, On the responses of mesosphere and lower thermosphere temperatures to geomagnetic storms at low and middle latitudes, *Geophys. Res. Lett.*, *45*, 10,128–10,137, doi:[10.1029/2018GL078968](https://doi.org/10.1029/2018GL078968), 2018.
288. Li, Q., Y. Hao, D. Zhang, and Z. Xiao, Nighttime enhancements in the midlatitude ionosphere and their relation to the plasmasphere, *J. Geophys. Res. Space Physics*, *123*, 7686–7696, doi:[10.1029/2018JA025422](https://doi.org/10.1029/2018JA025422), 2018.

289. Li, T., C. Ban, X. Fang, J. Li, Z. Wu, W. Feng, J. M. C. Plane, J. Xiong, D. R. Marsh, M. J. Mills, and Xiankang Dou, Climatology of mesopause region nocturnal temperature, zonal wind and sodium density observed by sodium lidar over Hefei, China (32° N, 117° E), *Atmos. Chem. Phys.*, *18*, 11683-11695, doi:[10.5194/acp-18-11683-2018](https://doi.org/10.5194/acp-18-11683-2018), 2018.
290. Li, W., J. Yue, Y. Yang, C. He, A. Hu, and K. Zhang, K., Ionospheric and thermospheric responses to the recent strong solar flares on 6 September 2017, *J. Geophys. Res. Space Physics*, *123*, 8865–8883, doi:[10.1029/2018JA025700](https://doi.org/10.1029/2018JA025700), 2018.
291. Li, Z., D. Knipp, W. Wang, C. Sheng, L. Qian, and S. Flynn, A Comparison Study of NO Cooling Between TIMED/SABER Measurements and TIEGCM Simulations, *J. Geophys. Res. Space Physics*, *123*, 8714-8729, doi:[10.1029/2018JA025831](https://doi.org/10.1029/2018JA025831), 2018.
292. Lilienthal, F., C. Jacobi, and C. Geißler, Forcing Mechanisms of the Terdiurnal Tide, *Atmos. Chem. Phys. Discuss.*, *36*, 15725-15742, doi:[10.5194/acp-18-15725-2018](https://doi.org/10.5194/acp-18-15725-2018), 2018.
293. Lima, L. M., P. P. Batista, and A. R. Paulino, Meteor radar temperatures over the Brazilian low-latitude sectors, *J. Geophys. Res. Space Physics*, *123*, 7755–7766, doi:[10.1029/2018JA025620](https://doi.org/10.1029/2018JA025620), 2018.
294. Lin, C. Y., and Y. Deng, Nitric Oxide in Climatological Global Energy Budget During 1982-2013, [arXiv:1807.02495](https://arxiv.org/abs/1807.02495), submitted, 2018.
295. Lin, C. Y., Y. Deng, K. Venkataramani, J. Yonker, and S. M. Bailey, Comparison of the thermospheric nitric oxide emission observations and the GITM simulations: Sensitivity to solar and geomagnetic activities, *J. Geophys. Res. Space Physics*, *123*, 10,239–10,253, doi:[10.1029/2018JA025310](https://doi.org/10.1029/2018JA025310), 2018.
296. Liu, H.-L., C. G. Bardeen, B. T. Foster, P. Lauritzen, J. Liu, G. Lu, D. R. Marsh, A. Maute, J. M. McInerney, N. M. Pedatella, L. Qian, A. D. Richmond, R. G. Roble, S. C. Solomon, F. M. Vitt, and W. Wang, Development and validation of the Whole Atmosphere Community Climate Model with Thermosphere and Ionosphere Extension (WACCM-X 2.0), *J. Adv. Model Earth Sy.*, *10*, 381-402, doi:[10.1002/2017MS001232](https://doi.org/10.1002/2017MS001232), 2018.
297. Liu, J., H. Liu, W. Wang, A. G. Burns, Q. Wu, Q. Gan, S. C. Solomon, D. R. Marsh, L. Qian, G. Lu, N. M. Pedatella, J. M. McInerney, J. M. Russell III, and W. S. Schreiner, First results from the ionospheric extension of WACCM-X during the deep solar minimum year of 2008, *J. Geophys. Res. Space Physics*, *123*, 1534-1553, doi:[10.1002/2017JA025010](https://doi.org/10.1002/2017JA025010), 2018.
298. Liu, X., J. Yue, W. Wang, J. Xu, Y. Zhang, J. Li, J. M. Russell III, M. E. Hervig, S. Bailey, and T. Nakamura, Responses of lower thermospheric temperature to the 2013 St. Patrick's Day geomagnetic storm, *Geophys. Res. Lett.*, *45*, 4656-4664, doi:[10.1029/2018GL078039](https://doi.org/10.1029/2018GL078039), 2018.
299. Liu, Y., C. Zhou, Q. Tang, Z. Li, Y. Song, H. Qing, B. Ni, and Z. Zhao, The seasonal distribution of sporadic E layers observed from radio occultation measurements and its relation with wind shear measured by TIMED/TIDI, *Adv. Space Res.*, *62*, 426-439, doi:[10.1016/j.asr.2018.04.026](https://doi.org/10.1016/j.asr.2018.04.026), 2018.
300. López-Puertas, M., M. García-Comas, B. Funke, A. Gardini, G. P. Stiller, T. von Clarmann, N. Glatthor, A. Laeng, M. Kaufmann, V. F. Sofieva, L. Froidevaux, K. A. Walker, and M. Shiotani, MIPAS observations of ozone in the middle atmosphere, *Atmos. Meas. Tech.*, *11*, 2187-2212, doi:[10.5194/amt-11-2187-2018](https://doi.org/10.5194/amt-11-2187-2018), 2018.
301. Lu, X., H. Wu, J. Oberheide, H.-L. Liu, and J. M. McInerney, Latitudinal double-peak structure of stationary planetary wave 1 in the austral winter middle atmosphere and its possible generation mechanism, *J. Geophys. Res. Atmos.*, *123*, 11,551–11,568, doi:[10.1029/2018JD029172](https://doi.org/10.1029/2018JD029172), 2018.
302. Lukianova, R., A. Kozlovsky, and M. Lester, Recognition of Meteor Showers From the Heights of Ionization Trails, *J. Geophys. Res. Space Physics*, *123*, 7067–7076, doi:[10.1029/2018JA025706](https://doi.org/10.1029/2018JA025706), 2018.
303. Ma, Z., Y. Gong, S. Zhang, Q. Zhou, C. Huang, K. Huang, W. Dong, G. Li, and B. Ning, Study of mean wind variations and gravity wave forcing via a meteor radar chain and

- comparison with HWM-07 results, *J. Geophys. Res. Atmos.*, *123*, 9488–9501, doi:[10.1029/2018JD028799](https://doi.org/10.1029/2018JD028799), 2018.
304. Manju, G., and R. P. Aswathy, First time estimation of thermospheric neutral density profiles from seed perturbations of ESF triggering: A novel evidence for ionosphere thermosphere coupling, *J. Geophys. Res. Space Physics*, *123*, 10,254–10,265, doi:[10.1029/2018JA025967](https://doi.org/10.1029/2018JA025967), 2018.
305. Mansilla, G. A., Ionospheric Response to the Magnetic Storm of 22 June 2015, *Pure Appl. Geophys.*, *175*, 1139–1153, doi:[10.1007/s00024-017-1741-5](https://doi.org/10.1007/s00024-017-1741-5), 2018.
306. Marchaudon, A., P.-L. Blelly, M. Grandin, A. Aikio, A. Kozlovsky, and I. Virtanen, IPIM modeling of the ionospheric F₂ layer depletion at high latitudes during a high-speed stream event, *J. Geophys. Res. Space Physics*, *123*, 7051–7066, doi:[10.1029/2018JA025744](https://doi.org/10.1029/2018JA025744), 2018.
307. Matthias, V., and M. Ern, On the origin of the mesospheric quasi-stationary planetary waves in the unusual Arctic winter 2015/2016, *Atmos. Chem. Phys.*, *18*, 4803–4815, doi:[10.5194/acp-18-4803-2018](https://doi.org/10.5194/acp-18-4803-2018), 2018.
308. McDonald, S. E., F. Sassi, J. Tate, J. McCormack, D. D. Kuhl, D. P. Drob, C. Metzler, and A. J. Mannucci, Impact of non-migrating tides on the low latitude ionosphere during a sudden stratospheric warming event in January 2010, *J. Atmos. Solar-Terr. Phys.*, *171*, 188–200, doi:[10.1016/j.jastp.2017.09.012](https://doi.org/10.1016/j.jastp.2017.09.012), 2018.
309. McDowell, C., The edge of space: Revisiting the Karman Line, *Acta Astronaut.*, *151*, 668–677, doi:[10.1016/j.actaastro.2018.07.003](https://doi.org/10.1016/j.actaastro.2018.07.003), 2018.
310. Medeiros, A. F., I. Paulino, C. M. Wrasse, J. Fechine, H. Takahashi, J. V. Bageston, A. R. Paulino, and R. A. Buriti, Case study of mesospheric front dissipation observed over the northeast of Brazil, *Ann. Geophys.*, *36*, 311–319, doi:[10.5194/angeo-36-311-2018](https://doi.org/10.5194/angeo-36-311-2018), 2018.
311. Meyer, C. I., M. Ern, L. Hoffmann, Q. T. Trinh, and M. J. Alexander, Intercomparison of AIRS and HIRDLS stratospheric gravity wave observations, *Atmos. Meas. Tech.*, *11*, 215–232, doi:[10.5194/amt-11-215-2018](https://doi.org/10.5194/amt-11-215-2018), 2018.
312. Mlynczak, M. G., D. J. Knipp, L. A. Hunt, J. Gaebler, T. Matsuo, L. M. Kilcommons, and C. L. Young, Space-based sentinels for measurement of infrared cooling in the thermosphere for space weather nowcasting and forecasting, *Space Weather*, *16*, 363–375, doi:[10.1002/2017SW001757](https://doi.org/10.1002/2017SW001757), 2018.
313. Mlynczak, M. G., L. A. Hunt, B. T. Marshall, and J. M. Russell III, Infrared radiation in the thermosphere near the end of solar cycle 24, *Geophys. Res. Lett.*, *45*, 11,581–11,587, doi:[10.1029/2018GL080389](https://doi.org/10.1029/2018GL080389), 2018.
314. Mlynczak, M. G., L. A. Hunt, J. M. Russell III, and B. T. Marshall, Thermosphere climate indexes: Percentile ranges and adjectival descriptors, *J. Atmos. Solar-Terr. Phys.*, *174*, 28–31, doi:[10.1016/j.jastp.2018.04.004](https://doi.org/10.1016/j.jastp.2018.04.004), 2018.
315. Mlynczak, M. G., L. A. Hunt, J. M. Russell III, and B. T. Marshall, Updated SABER night atomic oxygen and implications for SABER ozone and atomic hydrogen, *Geophys. Res. Lett.*, *45*, 5735–5741, doi:[10.1029/2018GL077377](https://doi.org/10.1029/2018GL077377), 2018.
316. Nakata, H., A. Takahashi, T. Takano, A. Saito, and T. Sakanoi, Observation of equatorial plasma bubbles by the airglow imager on ISS-IMAP, *Prog. Earth Planet Sci.*, *5*, 66, doi:[10.1186/s40645-018-0227-0](https://doi.org/10.1186/s40645-018-0227-0), 2018.
317. Ningombama, S. S., P. Vemareddy, and H.-J. Song, The recent signs of total column ozone recovery over mid-latitudes: The effects of the Montreal Protocol mandate, *J. Atmos. Solar-Terr. Phys.*, *178*, 32–46, doi:[10.1016/j.jastp.2018.05.011](https://doi.org/10.1016/j.jastp.2018.05.011), 2018.
318. Niu, X., J. Du, and X. Zhu, Statistics on Nonmigrating Diurnal Tides Generated by Tide-Planetary Wave Interaction and Their Relationship to Sudden Stratospheric Warming, *Atmosphere*, *9*(11), 416, doi:[10.3390/atmos9110416](https://doi.org/10.3390/atmos9110416), 2018.

319. Noll, S., B. Proxauf, W. Kausch, and S. Kimeswenger, Mechanisms for varying non-LTE contributions to OH rotational temperatures from measurements and modelling. I. Climatology, *J. Atmos. Solar-Terr. Phys.*, 175, 87-99, doi:[10.1016/j.jastp.2018.05.004](https://doi.org/10.1016/j.jastp.2018.05.004), 2018.
320. Noll, S., B. Proxauf, W. Kausch, and S. Kimeswenger, Mechanisms for varying non-LTE contributions to OH rotational temperatures from measurements and modelling. II. Kinetic model, *J. Atmos. Solar-Terr. Phys.*, 175, 100-119, doi:[10.1016/j.jastp.2018.05.005](https://doi.org/10.1016/j.jastp.2018.05.005), 2018.
321. Nystrom, V., F. Gasperini, J. M. Forbes, and M. E. Hagan, Exploring wave-wave interactions in a general circulation model, *J. Geophys. Res. Space Physics*, 123, 827-847, doi:[10.1002/2017JA024984](https://doi.org/10.1002/2017JA024984), 2018.
322. Onohara, A. N., I. S. Batista, and P. P. Batista, Wavenumber-4 structures observed in the low-latitude ionosphere during low and high solar activity periods using FORMOSAT/COSMIC observations, *Ann. Geophys.*, 36, 459-471, doi:[10.5194/angeo-36-459-2018](https://doi.org/10.5194/angeo-36-459-2018), 2018.
323. Pancheva, D., P. Mukhtarov, and D. E. Siskind, Climatology of the quasi-2-day waves observed in the MLS/Aura measurements (2005-2014), *J. Atmos. Solar-Terr. Phys.*, 171, 210-224, doi:[10.1016/j.jastp.2017.05.002](https://doi.org/10.1016/j.jastp.2017.05.002), 2018.
324. Panka, P. A., A. A. Kutepov, L. Rezac, K. S. Kalogerakis, A. G. Feofilov, D. Marsh, D. Janches, and E. Yiğit, Atomic oxygen retrieved from the SABER 2.0- and 1.6- μm radiances using new first-principles nighttime OH(v) model, *Geophys. Res. Lett.*, 45, 5798-5803, doi:[10.1029/2018GL077677](https://doi.org/10.1029/2018GL077677), 2018.
325. Paul, A., A. Kascheyev, M. Rodriguez-Bouza, K. Pathak, A. A. Ferreira, D. Shetti, and J. N. Yao, Latitudinal features of Total Electron Content over the African and European longitude sector following the St. Patrick's day storm of 2015, *Adv. Space Res.*, 61, 1890-1900, doi:[10.1016/j.asr.2017.09.012](https://doi.org/10.1016/j.asr.2017.09.012), 2018.
326. Paul, B., B. K. De, and A. Guha, Latitudinal variation of F-region ionospheric response during three strongest geomagnetic storms of 2015, *Acta Geod. Geophys.*, 53:579-606, doi:[10.1007/s40328-018-0221-4](https://doi.org/10.1007/s40328-018-0221-4), 2018.
327. Pedatella, N. M., H.-L. Liu, D. R. Marsh, K. Raeder, J. L. Anderson, J. L. Chau, L. P. Goncharenko, and T. A. Siddiqui, Analysis and hindcast experiments of the 2009 sudden stratospheric warming in WACCMX+DART, *J. Geophys. Res. Space Physics*, 123, 3131-3153, doi:[10.1002/2017JA025107](https://doi.org/10.1002/2017JA025107), 2018.
328. Perminov, V. I., A. I. Semenov, N. N. Pertsev, I. V. Medvedev, P. A. Dalin, and V. A. Sukhodoeva, Multi-year behaviour of the midnight OH* temperature according to observations at Zvenigorod over 2000-2016, *Adv. Space Res.*, 61, 1901-1908, doi:[10.1016/j.asr.2017.07.020](https://doi.org/10.1016/j.asr.2017.07.020), 2018.
329. Phanikumar, D. V., A. K. Maurya, K. N. Kumar, K. Venkatesham, R. Singh, S. Sharma, and M. Naja, Anomalous variations of VLF sub-ionospheric signal and Mesospheric Ozone prior to 2015 Gorkha Nepal Earthquake, *Sci. Rep.*, 8, 2045-2322, doi:[10.1038/s41598-018-27659-9](https://doi.org/10.1038/s41598-018-27659-9), 2018.
330. Qian, L., A. G. Burns, S. S. Solomon, A. K. Smith, J. M. McInerney, L. A. Hunt, D. R. Marsh, H. Liu, M. G. Mlynczak, and F. M. Vitt, F. M., Temporal variability of atomic hydrogen from the mesopause to the upper thermosphere, *J. Geophys. Res. Space Physics*, 123, 1006-1017, doi:[10.1002/2017JA024998](https://doi.org/10.1002/2017JA024998), 2018.
331. Qin, J., B. J. Harding, and L. Waldrop, Nonparametric H density estimation based on regularized nonlinear inversion of the Lyman alpha emission in planetary atmospheres, *J. Geophys. Res. Space Physics*, 123, 8641-8648, doi:[10.1029/2018JA025954](https://doi.org/10.1029/2018JA025954), 2018.
332. Qiu, S., W. Soon, X. Xue, T. Li, W. Wang, M. Jia, C. Ban, X. Fang, Y. Tang, and X. Dou, Sudden sodium layers: Their appearance and disappearance, *J. Geophys. Res. Space Physics*, 123, 5102-5118, doi:[10.1029/2017JA024883](https://doi.org/10.1029/2017JA024883), 2018.

333. Raj, S. T. A., M. V. Ratnam, D. N. Rao, D., and B. V. K. Murthy, Long-term trends in stratospheric ozone, temperature, and water vapor over the Indian region, *Ann. Geophys.*, *36*, 149-165, doi:[10.5194/angeo-36-149-2018](https://doi.org/10.5194/angeo-36-149-2018), 2018.
334. Ramesh, K., and S. Sridharan, Long-term trends in tropical (10°N–15°N) middle atmosphere (40–110 km) CO₂ cooling, *J. Geophys. Res. Space Physics*, *123*, early view doi:[10.1029/2017JA025060](https://doi.org/10.1029/2017JA025060), 2018.
335. Rapp, M., A. Dörnbrack, and P. Preusse, Large midlatitude stratospheric temperature variability caused by inertial instability: A potential source of bias for gravity wave climatologies, *Geophys. Res. Lett.*, *45*, 10,682–10,690, doi:[10.1029/2018GL079142](https://doi.org/10.1029/2018GL079142), 2018.
336. Remsberg, E. E., R. Damadeo, M. Natarajan, and P. Bhatt, P. Observed responses of mesospheric water vapor to solar cycle and dynamical forcings, *J. Geophys. Res. Atmos.*, *123*, 3830–3843, doi:[10.1002/2017JD028029](https://doi.org/10.1002/2017JD028029), 2018.
337. Ren, D., J. Lei, W. Wang, A. Burns, Z. Luan, and X. Dou, Does the Peak Response of the Ionospheric F2 Region Plasma Lag the Peak of 27-Day Solar Flux Variation by Multiple Days?, *J. Geophys. Res. Space Physics*, *123*, 9, 7906-7916, doi:[10.1029/2018JA025835](https://doi.org/10.1029/2018JA025835), 2018.
338. Rezac, L., J. Yue, J. Yongxiao, J. M. Russell III, R. Garcia, M. López-Puertas, and M. G. Mlynczak, On Long-Term SABER CO₂ Trends and Effects Due to Nonuniform Space and Time Sampling, *J. Geophys. Res. Space Physics*, *123*, 7958-7967, doi:[10.1029/2018JA025892](https://doi.org/10.1029/2018JA025892), 2018.
339. Richards, P. G., R. R. Meier, S. Chen, and P. Dandenault, Investigation of the causes of the longitudinal and solar cycle variation of the electron density in the Bering Sea and Weddell Sea anomalies, *J. Geophys. Res. Space Physics*, *123*, 7825–7842, doi:[10.1029/2018JA025413](https://doi.org/10.1029/2018JA025413), 2018.
340. Robinson, R. M., Y. Zhang, B. J. Anderson, L. J. Zanetti, H. Korth, and A. Fitzmaurice, Statistical relations between field-aligned currents and precipitating electron energy flux, *Geophys. Res. Lett.*, *45*, 8738–8745, doi:[10.1029/2018GL078718](https://doi.org/10.1029/2018GL078718), 2018.
341. Sahu, L. K., N. Tripathi, V. Sheel, M. Kajino, M. Deushi, R. Yadav, and P. Nadelec, Impact of the tropical cyclone Nilam on the vertical distribution of carbon monoxide over Chennai on the Indian peninsula, *Q J R Meteorol Soc* 2018, 1091–1105, doi:[10.1002/qj.3276](https://doi.org/10.1002/qj.3276), 2018.
342. Sakazaki, T., M. Fujiwara, and M. Shiotani, Representation of solar tides in the stratosphere and lower mesosphere in state-of-the-art reanalyses and in satellite observations, *Atmos. Chem. Phys.*, *18*, 1437-1456, doi:[10.5194/acp-18-1437-2018](https://doi.org/10.5194/acp-18-1437-2018), 2018.
343. Salinas, C. C. J. H., and L. C. Chang, EOF analysis of COSMIC observations on the global zonal mean temperature structure of the Upper Troposphere and Lower Stratosphere from 2007 to 2013, *J. Atmos. Solar-Terr. Phys.*, *171*, 12-20, doi:[10.1016/j.jastp.2017.08.021](https://doi.org/10.1016/j.jastp.2017.08.021), 2018.
344. Salinas, C. C. J. H., L. C. Chang, M.-C. Liang, L. Qian, J. Yue, J. N. Lee, J. M. Russell III, and M. G. Mlynczak, Solar Cycle Response of CO₂ over the Austral Winter Mesosphere and Lower Thermosphere Region, *J. Geophys. Res. Space Physics*, *123*, accepted, doi:[10.1029/2018JA025575](https://doi.org/10.1029/2018JA025575), 2018.
345. Samanes, J., J.-P. Raulin, J. Cao, and A. Magalhães, Nighttime lower ionosphere height estimation from the VLF modal interference distance, *J. Atmos. Solar-Terr. Phys.*, *167*, 39-47, doi:[10.1016/j.jastp.2017.10.009](https://doi.org/10.1016/j.jastp.2017.10.009), 2018.
346. Sato, K., R. Yasui, and Y. Miyoshi, The Momentum Budget in the Stratosphere, Mesosphere, and Lower Thermosphere. Part I: Contributions of Different Wave Types and In Situ Generation of Rossby Waves, *J. Atmos. Sci.*, *75*, 3613–3633, doi:[10.1175/JAS-D-17-0336.1](https://doi.org/10.1175/JAS-D-17-0336.1), 2018.
347. Schmidt, C., T. Dunker, S. Lichtenstern, J. Scheer, S. Wüst, U.-P. Hoppe, and M. Bittner, Derivation of vertical wavelengths of gravity waves in the MLT-region from multispectral airglow observations, *J. Atmos. Solar-Terr. Phys.*, *173*, 119-127, doi:[10.1016/j.jastp.2018.03.002](https://doi.org/10.1016/j.jastp.2018.03.002), 2018.

348. Semenov, A. I., I. V. Medvedeva, and V. I. Perminov, Spatial and Temporal Variations of Infrared Emissions in the Upper Atmosphere. 3. 5.3- μm Nitric Oxide Emission, *Geomagn. Aeron.*, 58, 273-280, doi:[10.1134/S0016793218020172](https://doi.org/10.1134/S0016793218020172), 2018.
349. Sharma, S., P. Kumar, R. Vaishnav, C. Jethva, and H. Bencherif, Evaluation of Inter-Hemispheric Characteristics of the Tropopause–Stratopause–Mesopause Over Sub-Tropical Regions, *Pure Appl. Geophys.*, 175, 1123-1137, doi:[10.1007/s00024-017-1706-8](https://doi.org/10.1007/s00024-017-1706-8), 2018.
350. Shepherd, G. G., and M. G. Shepherd, High-latitude observations of a localized wind wall and its coupling to the lower thermosphere, *Geophys. Res. Lett.*, 45, 4586–4593, doi:[10.1029/2018GL077722](https://doi.org/10.1029/2018GL077722), 2018.
351. Shpynev, B. G., N. A. Zolotukhina, N. M. Polekh, K. G. Ratovsky, M. A. Chernigovskaya, A. Y. Belinskaya, A. E. Stepanov, V. V. Bychkov, S. A. Grigorieva, V. A. Panchenko, N. A. Korenkova, and J. Mielich, The ionosphere response to severe geomagnetic storm in March 2015 on the base of the data from Eurasian high-middle latitudes ionosonde chain, *J. Atmos. Solar-Terr. Phys.*, 180, 93-105, doi:[10.1016/j.jastp.2017.10.014](https://doi.org/10.1016/j.jastp.2017.10.014), 2018.
352. Sidorova, L. N., and S. V. Filippov, Four-peak longitudinal distribution of the equatorial plasma bubbles observed in the topside ionosphere: Possible troposphere tide influence, *Adv. Space Res.*, 61, 1412-1424, doi:[10.1016/j.asr.2017.12.035](https://doi.org/10.1016/j.asr.2017.12.035), 2018.
353. Singh, D., S. Gurubaran, and M. He, Evidence for the influence of DE3 tide on the occurrence of equatorial counter-electrojet, *Geophys. Res. Lett.*, 45, 2145–2150, doi:[10.1002/2018GL077076](https://doi.org/10.1002/2018GL077076), 2018.
354. Siskind, D. E., A. W. Merkel, D. R. Marsh, C. E. Randall, M. E. Hervig, M. G. Mlynczak, and J. M. Russell III, Understanding the effects of polar mesospheric clouds on the environment of the upper mesosphere and lower thermosphere, *J. Geophys. Res. Atmos.*, 123, 11,705–11,719, doi:[10.1029/2018JD028830](https://doi.org/10.1029/2018JD028830), 2018.
355. Smith, A. K., P. J. Espy, M. López-Puertas, and O. V. Tweedy, Spatial and temporal structure of the tertiary ozone maximum in the polar winter mesosphere, *J. Geophys. Res. Atmos.*, 123, 4373-4389, doi:[10.1029/2017JD028030](https://doi.org/10.1029/2017JD028030), 2018.
356. Smith-Johnsen, C., Y. Orsolini, F. Stordal, V. Limpasuvan, and K. Pérot, Nighttime mesospheric ozone enhancements during the 2002 southern hemispheric major stratospheric warming, *J. Atmos. Solar-Terr. Phys.*, 168, 100-108, doi:[10.1016/j.jastp.2017.12.018](https://doi.org/10.1016/j.jastp.2017.12.018), 2018.
357. Song, R., M. Kaufmann, M. Ern, J. Ungermann, G. Liu, and M. Riese, Three-dimensional tomographic reconstruction of atmospheric gravity waves in the mesosphere and lower thermosphere (MLT), *Atmos. Meas. Tech.*, 11, 3161-3175, doi:[10.5194/amt-11-3161-2018](https://doi.org/10.5194/amt-11-3161-2018), 2018.
358. Stephan, A. W., R. R. Meier, S. L. England, S. B. Mende, H. U. Frey, and T. J. Immel, Daytime O/N₂ Retrieval Algorithm for the Ionospheric Connection Explorer (ICON), *Space Sci. Rev.*, 214, 42-58, doi:[10.1007/s11214-018-0477-6](https://doi.org/10.1007/s11214-018-0477-6), 2018.
359. Su, Y., J. Yue, X. Liu, S. D. Miller, W. C. Straka III, S. M. Smith, D. Guo, and Sh. Guo, Mesospheric Bore Observations Using Suomi-NPP VIIRS DNB during 2013–2017, *Remote Sens.*, 10(12), 193, doi:[10.3390/rs10121935](https://doi.org/10.3390/rs10121935), 2018.
360. Sun, Y.-Y., H. Liu, Y. Miyoshi, L. Liu, and L. C. Chang, El Niño–Southern Oscillation effect on quasi-biennial oscillations of temperature diurnal tides in the mesosphere and lower thermosphere, *Earth Planets Space*, 70:85, 10, doi:[10.1186/s40623-018-0832-6](https://doi.org/10.1186/s40623-018-0832-6), 2018.
361. Swenson, G. R., Y. Yee, F. Vargas, and A. Liu, Vertical diffusion transport of atomic oxygen in the mesopause region consistent with chemical losses and continuity: Global mean and inter-annual variability, *J. Atmos. Solar-Terr. Phys.*, 178, 47-57, doi:[10.1016/j.jastp.2018.05.014](https://doi.org/10.1016/j.jastp.2018.05.014), 2018.
362. Tang, C., B. Wu, Y. Wei, C. Qing, C. Dai, J. Li, and H. Wei, The responses of ozone density to solar activity in the mesopause region and the mutual relationship based on SABER

- measurements during 2002–2016, *J. Geophys. Res. Space Physics*, *123*, 3039–3049, doi:[10.1002/2017JA025126](https://doi.org/10.1002/2017JA025126), 2018.
363. Tang, C., Y. Wei, D. Liu, T. Luo, C. Dai, and H. Wei, Reply to comments by Jia Yue on “Global distribution and variations of NO infrared radiative flux and its responses to solar activity and geomagnetic activity in the thermosphere”, *J. Geophys. Res. Space Physics*, *123*, doi:[10.1029/2018JA025483](https://doi.org/10.1029/2018JA025483), 2018.
364. Taori, A., V. Kamalakar, and K. Raghunath, Estimation of trends and nonlinear variability in the middle atmospheric temperatures over Indian low latitudes, *e-Journal Earth Science India*, *11*, 201–215, doi:[10.31870/ESI.11.4.2018.13](https://doi.org/10.31870/ESI.11.4.2018.13), 2018.
365. Thiéblemont, R., S. Bekki, M. Marchand, S. Bossay, H. Schmidt, M. Meftah, and A. Hauchecorne, Nighttime mesospheric/lower thermospheric tropical ozone response to the 27-day solar rotational cycle: ENVISAT-GOMOS satellite observations versus HAMMONIA idealized chemistry-climate model simulations, *J. Geophys. Res. Atmos.*, *123*, 8883–8896, doi:[10.1029/2017JD027789](https://doi.org/10.1029/2017JD027789), 2018.
366. Trinh, Q. T., M. Ern, E. Doornbos, P. Preusse, and M. Riese, Satellite observations of middle atmosphere–thermosphere vertical coupling by gravity waves, *Ann. Geophys.*, *36*, 425–444, doi:[10.5194/angeo-36-425-2018](https://doi.org/10.5194/angeo-36-425-2018), 2018.
367. Triplett, C. C., J. Li, R. L. Collins, G. A. Lehmacher, A. Barjatya, D. C. Fritts, B. Strelnikov, F.-J. Lübken, B. Thurairajah, V. L. Harvey, D. L. Hampton, and R. H. Varney, Observations of reduced turbulence and wave activity in the Arctic middle atmosphere following the January 2015 sudden stratospheric warming, *J. Geophys. Res. Atmos.*, *123*, 13,259–13,276, doi:[10.1029/2018JD028788](https://doi.org/10.1029/2018JD028788), 2018.
368. Vaishnav, R., C. Jacobi, J. Berdermann, E. Schmolter, and M. Codrescu, Ionospheric response to solar EUV variations: Preliminary results, *Adv. Radio Sci.*, *16*, 157–165, doi:[10.5194/ars-16-157-2018](https://doi.org/10.5194/ars-16-157-2018), 2018.
369. Varotsos, C. A., and M. N. Efstathiou, The observational and empirical thermospheric CO₂ and NO power do not exhibit power-law behavior; an indication of their reliability, *J. Atmos. Solar-Terr. Phys.*, *168*, 1–7, doi:[10.1016/j.jastp.2018.01.006](https://doi.org/10.1016/j.jastp.2018.01.006), 2018.
370. Varotsos, P. K., M. N. Efstathiou, and C. A. Varotsos, Anomalous mesospheric ozone variability is not a precursor to earthquakes: A case study in Greece, *J. Atmos. Solar-Terr. Phys.*, *179*, 181–184, doi:[10.1016/j.jastp.2018.07.014](https://doi.org/10.1016/j.jastp.2018.07.014), 2018.
371. Venturini, M. S., J. V. Bageston, N. R. Caetano, L. V. Peres, H. Bencherif, and N. J. Schuch, Mesopause region temperature variability and its trend in southern Brazil, *Ann. Geophys.*, *36*, 301–310, doi:[10.5194/angeo-36-301-2018](https://doi.org/10.5194/angeo-36-301-2018), 2018.
372. Vergados, P., G. Liu, A. J. Mannucci, and D. Janches, Equatorial intraseasonal temperature oscillations in the lower thermosphere from SABER, *Geophys. Res. Lett.*, *45*, 10,893–10,902, doi:[10.1029/2018GL079467](https://doi.org/10.1029/2018GL079467), 2018.
373. Wang, C. M., Q. Z. Li, J. Y. Xu, L. C. Sun, and Y. Wei, The study of wave sources of gravity wave events observed by OH airglow imager located at Donggang station, *Chin. J. Geophys.*, doi:[10.6038/cjg2018L0088](https://doi.org/10.6038/cjg2018L0088), 2018.
374. Wang, C., Recent Advances in Observation and Research of the Chinese Meridian Project, *Chin. J. Space Sci.*, *38*, 640–649, doi:[10.11728/cjss2018.05.640](https://doi.org/10.11728/cjss2018.05.640), 2018.
375. Wang, J. C., R. Tsai-Lin, L. C. Chang, Q. Wu, C. C. H. Lin, and J. Yue, Modeling study of the ionospheric responses to the quasi-biennial oscillations of the sun and stratosphere, *J. Atmos. Solar-Terr. Phys.*, *171*, 119–130, doi:[10.1016/j.jastp.2017.07.024](https://doi.org/10.1016/j.jastp.2017.07.024), 2018.
376. Wang, L., X. Luan, J. Lei, and X. Dou, An empirical dayglow model for the Lyman-Birge-Hopfield-long band derived from the Polar ultraviolet imager data, *Space Weather*, *16*, 1101–1113, doi:[10.1029/2018SW001954](https://doi.org/10.1029/2018SW001954), 2018.
377. Weimer, D. R., M. G. Mlynczak, J. T. Emmert, E. Doornbos, E. K. Sutton, and L. A. Hunt, Correlations Between the Thermosphere's Semiannual Density Variations and Infrared

- Emissions Measured With the SABER Instrument, *J. Geophys. Res. Space Physics*, 123, 8850-8864, doi:[10.1029/2018JA025668](https://doi.org/10.1029/2018JA025668), 2018.
378. Wen, Y., Q. Zhang, H. Gao, J. Xu, and Q. Li, A Case Study of the Stratospheric and Mesospheric Concentric Gravity Waves Excited by Thunderstorm in Northern China, *Atmosphere*, 9(12), 489, doi:[10.3390/atmos9120489](https://doi.org/10.3390/atmos9120489), 2018.
379. Wing, R., A. Hauchecorne, P. Keckhut, S. Godin-Beekmann, S. Khaykin, E. M. McCullough, J.-F. Mariscal, and É. d'Almeida, Lidar temperature series in the middle atmosphere as a reference data set. Part A: Improved retrievals and a 20 year cross-validation of two co-located French lidars, *Atmos. Meas. Tech. Discuss.*, in review, doi:[10.5194/amt-2018-133](https://doi.org/10.5194/amt-2018-133), 2018.
380. Wing, R., A. Hauchecorne, P. Keckhut, S. Godin-Beekmann, S. Khaykin, and E. M. McCullough, Lidar temperature series in the middle atmosphere as a reference data set. Part B: Assessment of temperature observations from MLS/Aura and SABER/TIMED satellites, *Atmos. Meas. Tech. Discuss.*, in review, doi:[10.5194/amt-2018-139](https://doi.org/10.5194/amt-2018-139), 2018.
381. Wing, R., A. Hauchecorne, P. Keckhut, S. Godin-Beekmann, S. Khaykin, E. M. McCullough, J.-F. Mariscal, and É. d'Almeida, 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, *Atmos. Meas. Tech.*, 11, 5531-5547, doi:[10.5194/amt-11-5531-2018](https://doi.org/10.5194/amt-11-5531-2018), 2018.
382. Wing, R., A. Hauchecorne, P. Keckhut, S. Godin-Beekmann, S. Khaykin, and E. M. McCullough, Lidar temperature series in the middle atmosphere as a reference data set – Part 2: Assessment of temperature observations from MLS/Aura and SABER/TIMED satellites, *Atmos. Meas. Tech.*, 11, 6703-6717, doi:[10.5194/amt-11-6703-2018](https://doi.org/10.5194/amt-11-6703-2018), 2018.
383. Woods, T. N., F. G. Eparvier, J. Harder, and M. Snow, Decoupling Solar Variability and Instrument Trends using the Multiple Same-Irradiance-Level (MuSIL) Analysis Technique, *Sol. Phys.*, 293, 76, doi:[10.1007/s11207-018-1294-5](https://doi.org/10.1007/s11207-018-1294-5), 2018.
384. Wright, C. J., and N. P. Hindley, How well do stratospheric reanalyses reproduce high-resolution satellite temperature measurements?, *Atmos. Chem. Phys.*, 18, 13703-13731, doi:[10.5194/acp-18-13703-2018](https://doi.org/10.5194/acp-18-13703-2018), 2018.
385. Wu, K., D. Fu, Y. Feng, J. Li, X. Hao, and F. Li, Simulation and application of the emission line O₁₉P₁₈ of O₂(a¹Δ_g) dayglow near 1.27 μm for wind observations from limb-viewing satellites, *Opt. Express*, 26, 16984-16999, doi:[10.1364/OE.26.016984](https://doi.org/10.1364/OE.26.016984), 2018.
386. Wüst, S., T. Offenwanger, C. Schmidt, M. Bittner, C. Jacobi, G. Stober, J.-H. Yee, M. G. Mlynczak, and J. M. Russell III, Derivation of gravity wave intrinsic parameters and vertical wavelength using a single scanning OH(3-1) airglow spectrometer, *Atmos. Meas. Tech.*, 11, 2937-2947, doi:[10.5194/amt-11-2937-2018](https://doi.org/10.5194/amt-11-2937-2018), 2018.
387. Xing, Z., Q. Zhang, D. Han, Y. Zhang, N. Sato, S. Zhang, Z. Hu, Y. Wang, and Y. Ma, Conjugate observations of the evolution of polar cap arcs in both hemispheres, *J. Geophys. Res. Space Physics*, 123, 1794–1805, doi:[10.1002/2017JA024272](https://doi.org/10.1002/2017JA024272), 2018.
388. Xiong, C., H. Lühr, M. Schmidt, M. Bloßfeld, and S. Rudenko, An empirical model of the thermospheric mass density derived from CHAMP satellite, *Ann. Geophys.*, 36, 1141–1152, doi: [10.5194/angeo-36-1141-2018](https://doi.org/10.5194/angeo-36-1141-2018), 2018.
389. Xiong, J., W. Wan, F. Ding, L. Liu, L. Hu, and C. Yan, Two day wave traveling westward with wave number 1 during the sudden stratospheric warming in January 2017, *J. Geophys. Res. Space Physics*, 123, 3005–3013, doi:[10.1002/2017JA025171](https://doi.org/10.1002/2017JA025171), 2018.
390. Yan, X., Y. Sun, T. Yu, J.-Y. Liu, Y. Qi, C. Xia, X. Zuo, and N. Yang, Stratosphere perturbed by the 2011 Mw9.0 Tohoku earthquake, *Geophys. Res. Lett.*, 45, 10,050–10,056, doi:[10.1029/2018GL079046](https://doi.org/10.1029/2018GL079046), 2018.
391. Yang, Y., Y. Yang, Y. Xia, X. Lin, L. Zhang, H. Jiang, X. Cheng, L. Liu, K. Ji, and F. Li, Solid-state 589 nm seed laser based on Raman fiber amplifier for sodium wind/temperature lidar in Tibet, China, *Opt. Express*, 26, 16226-16235, doi:[10.1364/OE.26.016226](https://doi.org/10.1364/OE.26.016226), 2018.

392. Yankovsky, V. A., and R. Manuilova, Possibility of simultaneous [O₃] and [CO₂] altitude distribution retrievals from the daytime emissions of electronically-vibrationally excited molecular oxygen in the mesosphere, *J. Atmos. Solar-Terr. Phys.*, 179, 22-33, doi:[10.1016/j.jastp.2018.06.008](https://doi.org/10.1016/j.jastp.2018.06.008), 2018.
393. Yasui, R., K. Sato, and Y. Miyoshi, The Momentum Budget in the Stratosphere, Mesosphere, and Lower Thermosphere. Part II: The In Situ Generation of Gravity Waves, *J. Atmos. Sci.*, 76, 3635-3651, doi:[10.1175/JAS-D-17-0337.1](https://doi.org/10.1175/JAS-D-17-0337.1), 2018.
394. Yasyukevich, A. S., M. V. Klimenk, Y. Y. Kulikov, V. V. Klimenko, F. S. Bessarab, Y. N. Korenkov, V. N. Marichev, K. G. Ratovsky, and S. A. Kolesnik, Changes in the middle and upper atmosphere parameters during the January 2013 sudden stratospheric warming, *Solar-Terrestrial Physics*, 4, 48-58, doi:[10.12737/stp-44201807](https://doi.org/10.12737/stp-44201807), 2018.
395. Yasyukevich, A. S., Variations in ionospheric peak electron density during sudden stratospheric warmings in the Arctic region, *J. Geophys. Res. Space Physics*, 123, 3027-3038, doi:[10.1002/2017JA024739](https://doi.org/10.1002/2017JA024739), 2018.
396. Yi, W., X. Xue, I. M. Reid, J. P. Younger, J. Chen, T. Chen, and N. Li, Estimation of mesospheric densities at low latitudes using the Kunming meteor radar together with SABER temperatures, *J. Geophys. Res. Space Physics*, 123, 3183–3195, doi:[10.1002/2017JA025059](https://doi.org/10.1002/2017JA025059), 2018.
397. Yizengaw, E., and K. M. Groves, Longitudinal and seasonal variability of equatorial ionospheric irregularities and electrodynamics, *Space Weather*, 16, 946–968, doi:[10.1029/2018SW001980](https://doi.org/10.1029/2018SW001980), 2018.
398. Yue, J., Comments on “Global Distribution and Variations of NO Infrared Radiative Flux and Its Responses to Solar Activity and Geomagnetic Activity in the Thermosphere” by Tang et al., *J. Geophys. Res. Space Physics*, 123, 10416-10418, doi:[10.1029/2018JA025386](https://doi.org/10.1029/2018JA025386), 2018.
399. Zakharenkova, I. E., I. V. Cherniak, I. I. Shagimuratov, and M. V. Klimenko, Features of High-Latitude Ionospheric Irregularities Development as Revealed by Ground-Based GPS Observations, Satellite-Borne GPS Observations and Satellite In Situ Measurements over the Territory of Russia during the Geomagnetic Storm on March 17–18, 2015, *Geomagn. Aeron.*, 58, 70–82, doi:[10.1134/S0016793217050176](https://doi.org/10.1134/S0016793217050176), 2018..txt
400. Zarbo, A., S. Bender, J. P. Burrows, J. Orphal, and M. Sinnhuber, Retrieval of O₂(¹Σ) and O₂(¹Δ) volume emission rates in the mesosphere and lower thermosphere using SCIAMACHY MLT limb scans, *Atmos. Meas. Tech.*, 11, 473-487, doi:[10.5194/amt-11-473-2018](https://doi.org/10.5194/amt-11-473-2018), 2018.
401. Zhang, K., W. Wang, H. Wang, T. Dang, J. Liu, and Q. Wu, The longitudinal variations of upper thermospheric zonal winds observed by the CHAMP satellite at low and midlatitudes, *J. Geophys. Res. Space Physics*, 123, 9652–9668, doi:[10.1029/2018JA025463](https://doi.org/10.1029/2018JA025463), 2018.
402. Zhang, Y., L. J. Paxton, and J. C. Jones, Introduction to NASA Living With a Star Institute Special Section on Low Earth Orbit Satellite Drag: Science and Operational Impact, *Space Weather*, 16, 939-945, doi:[10.1029/2018SW001983](https://doi.org/10.1029/2018SW001983), 2018.
403. Zhang, Y., L. J. Paxton, D. Morrison, and B. Schaefer, Storm-time variations of atomic nitrogen 149.3 nm emission, *J. Atmos. Solar-Terr. Phys.*, 169, 78-82, doi:[10.1016/j.jastp.2018.01.023](https://doi.org/10.1016/j.jastp.2018.01.023), 2018.
404. Zhou, X., W. Wan, Y. Yu, B. Ning, L. Hu, and X. Yue, X., New approach to estimate tidal climatology from ground- and space-based observations, *J. Geophys. Res. Space Physics*, 123, 5087–5101, doi:[10.1029/2017JA024967](https://doi.org/10.1029/2017JA024967), 2018.
405. Zhu, Y., and M. Kaufmann, Atomic oxygen abundance retrieved from SCIAMACHY hydroxyl nightglow measurements, *Geophys. Res. Lett.*, 45, 9314–9322, doi:[10.1029/2018GL079259](https://doi.org/10.1029/2018GL079259), 2018.

406. Ageyeva, V. Y., and A. N. Gruzdev, Seasonal features of quasi-biennial variations of NO₂ stratospheric content derived from ground-based measurements, *Izv. Atmos. Ocean. Phys.*, *53*, 65–75, doi:[10.1134/S0001433817010029](https://doi.org/10.1134/S0001433817010029), 2017.
407. Airapetian, V. S., C. H. Jackman, M. G. Mlynczak, W. Danchi, and L. Hunt, Atmospheric Beacons of Life from Exoplanets Around G and K Stars, *Sci. Rep.*, *14141*, doi:[10.1038/s41598-017-14192-4](https://doi.org/10.1038/s41598-017-14192-4), 2017.
408. Ammosova, A. M., G. Gavriilyeva, P. Ammosov, and I. Koltovskoi, Comparing temperature of subauroral mesopause over Yakutia with SABER radiometer data for 2002–2014, *Solar-Terrestrial Physics*, *3*, 54–59, doi:[10.12737/stp-3220179](https://doi.org/10.12737/stp-3220179), 2017.
409. Barton, C., and M. Cai, Equatorial Wave Expansion of Instantaneous Flows for Diagnosis of Equatorial Waves from Data: Formulation and Illustration, *Adv. Atmos. Sci.*, *34*, 1219–1234, doi:[10.1007/s00376-017-6323-z](https://doi.org/10.1007/s00376-017-6323-z), 2017.
410. Bègue, N., N. Mbatha, H. Bencherif, R. T. Loua, V. Sivakumar, and T. Leblanc, Statistical analysis of the mesospheric inversion layers over two symmetrical tropical sites: Réunion (20.8° S, 55.5° E) and Mauna Loa (19.5° N, 155.6° W), *Ann. Geophys.*, *35*, 1177–1194, doi:[10.5194/angeo-35-1177-2017](https://doi.org/10.5194/angeo-35-1177-2017), 2017.
411. Blanc, E., L. Ceranna, A. Hauchecorne, A. Charlton-Perez, E. Marchetti, L. G. Evers, T. Kvaerna, J. Lastovicka, L. Eliasson, N. B. Crosby, P. Blanc-Benon, A. Le Pichon, N. Brachet, C. Pilger, P. Keckhut, J. D. Assink, P. S. M. Smets, C. F. Lee, J. Kero, T. Sindelarova, N. Kämpfer, R. Rüfenacht, T. Farges, C. Millet, S. P. Näsholm, S. J. Gibbons, P. J. Espy, R. E. Hibbins, P. Heinrich, M. Ripepe, S. Khaykin, N. Mze, and J. Chum, Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project, *Surv. Geophys.*, *3*, 171–225, doi:[10.1007/s10712-017-9444-0](https://doi.org/10.1007/s10712-017-9444-0), 2018.
412. Brahmanandam, P. S., G. Uma, T. K. Pant, Ionosphere VHF scintillations over Vaddeswaram (Geographic Latitude 16.31°N, Geographic Longitude 80.30°E, Dip 18°N), a latitude Indian station – A case study, *Adv. Space Res.*, *60*, 1688–1697, doi:[10.1016/j.asr.2017.06.051](https://doi.org/10.1016/j.asr.2017.06.051), 2017.
413. Bravo, M. A., I. S. Batista, J. R. Souza, and A. J. Foppiano, Equatorial ionospheric response to different estimated disturbed electric fields as investigated using Sheffield University Plasmasphere Ionosphere Model at INPE, *J. Geophys. Res. Space Physics*, *122*, 10,511–10,527, doi:[10.1002/2017JA024265](https://doi.org/10.1002/2017JA024265), 2017.
414. Cai, X., T. Yuan, and H.-L. Liu, Large-scale gravity wave perturbations in the mesopause region above Northern Hemisphere midlatitudes during autumnal equinox: a joint study by the USU Na lidar and Whole Atmosphere Community Climate Model, *Ann. Geophys.*, *35*, 181–188, doi:[10.5194/angeo-35-181-2017](https://doi.org/10.5194/angeo-35-181-2017), 2017.
415. Carvalho, A. J. A., I. Paulino, A. F. Medeiros, L. M. Lima, R. A. Buriti, A. R. Paulino, C. M. Wrasse, and H. Takahashi, Case study of convective instability observed in airglow images over the Northeast of Brazil, *J. Atmos. Solar-Terr. Phys.*, *154*, 33–42, doi:[10.1016/j.jastp.2016.12.003](https://doi.org/10.1016/j.jastp.2016.12.003), 2017.
416. Chadney, J. M., D. K. Whiter, and B. S. Lanchester, Effect of water vapour absorption on hydroxyl temperatures measured from Svalbard, *Ann. Geophys.*, *35*, 481–491, doi:[10.5194/angeo-35-481-2017](https://doi.org/10.5194/angeo-35-481-2017), 2017.
417. Chou, M.-Y., C. C. H. Lin, H.-F. Tsai, and C.-Y. Lin, Ionospheric electron density inversion for GNSS radio occultation using aided Abel inversions, *J. Geophys. Res. Space Physics*, *122*, doi:[10.1002/2016JA023027](https://doi.org/10.1002/2016JA023027), 2017.
418. de Araújo, L. R., L. M. Lima, C. Jacobi, and P.P. Batista, Quasi-biennial oscillation signatures in the diurnal tidal winds over Cachoeira Paulista, Brazil, *J. Atmos. Solar-Terr. Phys.*, *155*, 71–78, doi:[10.1016/j.jastp.2017.02.001](https://doi.org/10.1016/j.jastp.2017.02.001), 2017.
419. Deminov, M. G., and G. F. Deminova, Winter Anomaly of the E-Layer Critical Frequency in the Nighttime Auroral Zone, *Geomagn. Aeronomy*, *57*, 584–590, doi:[10.1134/S0016793217050061](https://doi.org/10.1134/S0016793217050061), 2017.

420. Ding, G.-X., F. He, X.-X. Zhang, and B. Chen, A new auroral boundary determination algorithm based on observations from TIMED/GUVI and DMSP/SSUSI, *J. Geophys. Res. Space Physics*, 122, 2162–2173, doi:[10.1002/2016JA023295](https://doi.org/10.1002/2016JA023295), 2017.
421. Dong, Y., X. Fang, D. A. Brain, J. P. McFadden, J. S. Halekas, J. E. P. Connerney, F. Eparvier, L. Andersson, D. Mitchell, and B. M. Jakosky, Seasonal variability of Martian ion escape through the plume and tail from MAVEN observations, *J. Geophys. Res.*, 122, 4009–4022, doi:[10.1002/2016JA023517](https://doi.org/10.1002/2016JA023517), 2017.
422. Dubinin, E., M. Fraenz, M. Patzold, J. McFadden, P. R. Mahaffy, F. Eparvier, J. S. Halekas, J. E. P. Connerney, D. Brain, B. M. Jakosky, O. Vaisberg, and L. Zelenyi, Effects of solar irradiance on the upper ionosphere and oxygen ion escape at Mars: MAVEN observations, *J. Geophys. Res.*, 122, 7142–7152, doi:[10.1002/2017JA024126](https://doi.org/10.1002/2017JA024126), 2017.
423. Durgonics, T., A. Komjathy, O. Verkhoglyadova, E. B. Shume, H.-H. Benzoni, A. J. Mannucci, M. D. Butala, P. Høeg, and R. B. Langley, Multiinstrument observations of a geomagnetic storm and its effects on the Arctic ionosphere: A case study of the 19 February 2014 storm, *Radio Sci.*, 52, 146–165, doi:[10.1002/2016RS006106](https://doi.org/10.1002/2016RS006106), 2017.
424. Eastes, R. W., W. E. McClintock, A. G. Burns, D. N. Anderson, L. Andersson, M. Codrescu, J. T. Correia, R. E. Daniell, S. L. England, J. S. Evans, J. Harvey, A. Krywonos, J. D. Lumpe, A. D. Richmond, D. W. Rusch, O. Siegmund, S. C. Solomon, D. J. Strickland, T. N. Woods, A. Aksnes, S. A. Budzien, K. F. Dymond, F. G. Eparvier, C. R. Martinis, and J. Oberheide, The Global-Scale Observations of the Limb and Disk (GOLD) Mission, *Space Sci. Rev.*, 212, 383–408, doi:[10.1007/s11214-017-0392-2](https://doi.org/10.1007/s11214-017-0392-2), 2017.
425. Ehard, B., B. Kaifler, A. Dörnbrack, P. Preusse, S. D. Eckermann, M. Bramberger, S. Gisinger, N. Kaifler, B. Liley, J. Wagner, and M. Rapp, Horizontal propagation of large-amplitude mountain waves into the polar night jet, *J. Geophys. Res. Atmos.*, 122, 1423–1436, doi:[10.1002/2016JD025621](https://doi.org/10.1002/2016JD025621), 2017.
426. Eriksson, S., M. Maimaiti, J. B. H. Baker, K. J. Trattner, D. J. Knipp, and F. D. Wilder, Dual $E \times B$ flow responses in the dayside ionosphere to a sudden IMF By rotation, *Geophys. Res. Lett.*, 44, 6525–6533, doi:[10.1002/2017GL073374](https://doi.org/10.1002/2017GL073374), 2017.
427. Eswarajah, S., Y. H. Kim, H. Liu, M. V. Ratnam, and J. Lee, Do minor sudden stratospheric warmings in the Southern Hemisphere (SH) impact coupling between stratosphere and mesosphere–lower thermosphere (MLT) like major warmings?, *Earth Planets Space*, 69, 119, doi:[10.1186/s40623-017-0704-5](https://doi.org/10.1186/s40623-017-0704-5), 2017.
428. Feltz, M. L., R. O. Knuteson, and H. E. Revercomb, Assessment of COSMIC radio occultation and AIRS hyperspectral IR sounder temperature products in the stratosphere using observed radiances, *J. Geophys. Res. Atmos.*, 122, 8593–8616, doi:[10.1002/2017JD026704](https://doi.org/10.1002/2017JD026704), 2017.
429. Feng, W., B. Kaifler, D. R. Marsh, J. Höffner, U.-P. Hoppe, B. P. Williams, and J. M. C. Plane, Impacts of a sudden stratospheric warming on the mesospheric metal layers, *J. Atmos. Solar-Terr. Phys.*, 162, 162–171, doi:[10.1016/j.jastp.2017.02.004](https://doi.org/10.1016/j.jastp.2017.02.004), 2017.
430. Fontenla, J. M., M. Codrescu, M. Ferizzi, T. Fuller-Rowell, F. Hill, E. Landi, and T. Woods, Five Years of Synthesis of Solar Spectral Irradiance from SDID/SISA and SDO/AIA Images, *Astrophys. J.*, 834, A54, doi:[10.3847/1538-4357/834/1/54](https://doi.org/10.3847/1538-4357/834/1/54), 2017.
431. Forbes, J. M., and X. Zhang, The quasi-6 day wave and its interactions with solar tides, *J. Geophys. Res. Space Physics*, 122, 4764–4776, doi:[10.1002/2017JA023954](https://doi.org/10.1002/2017JA023954), 2017.
432. Forbes, J. M., Wave Coupling and Nonlinear Interactions in the Atmospheres of Earth and Mars, *Quarterly Physics Review*, 3:3, <https://journals.ke-i.org/index.php/qpr/article/view/1439>, 2017.
433. Forbes, J. M., X. Zhang, M. E. Hagan, S. L. England, G. Liu, and F. Gasperini, On the Specification of Upward-Propagating Tides for ICON Science Investigations, *Space Sci. Rev.*, 212, 697–713, doi:[10.1007/s11214-017-0401-5](https://doi.org/10.1007/s11214-017-0401-5), 2017.

434. Friedrich, M., C. Pock, and K. Torkar, Long-term trends in the D- and E-region based on rocket-borne measurements, *J. Atmos. Solar-Terr. Phys.*, *163*, 78-84, doi:[10.1016/j.jastp.2017.04.009](https://doi.org/10.1016/j.jastp.2017.04.009), 2017.
435. Funke, B., W. Ball, S. Bender, A. Gardini, V. L. Harvey, A. Lambert, M. Lopez-Puertas, D. R. Marsh, K. Meraner, H. Nieder, S.-M. Pääviranta, K. Perot, C. E. Randall, T. Reddmann, E. Rozanov, H. Schmidt, A. Seppälä, M. Sinnhuber, T. Sukhodolov, G. P. Stiller, N. D. Tsvetkova, P. T. Verronen, S. Versick, T. von Clarmann, K. A. Walker, and V. Yushkov, HEPPA-II model-measurement intercomparison project : EPP indirect effects during the dynamically perturbed NH winter 2008-2009, *Atmos. Chem. Phys.*, *17*:5, 3573-3604, doi:[10.5194/acp-17-3573-2017](https://doi.org/10.5194/acp-17-3573-2017), 2017.
436. Gan, Q., J. Du, V. I. Fomichev, W. E. Ward, S. R. Beagley, S. Zhang, and J. Yue, Temperature responses to the 11 year solar cycle in the mesosphere from the 31 year (1979–2010) extended Canadian Middle Atmosphere Model simulations and a comparison with the 14 year (2002–2015) TIMED/SABER observations, *J. Geophys. Res. Space Physics*, *122*, 4801–4818, doi:[10.1002/2016JA023564](https://doi.org/10.1002/2016JA023564), 2017.
437. Gao, H., G. G. Shepherd, Y. Tang, L. Bu, and Z. Wang, Double-layer structure in polar mesospheric clouds observed from SOFIE/AIM, *Ann. Geophys.*, *35*, 295–309, doi:[10.5194/angeo-35-295-2017](https://doi.org/10.5194/angeo-35-295-2017), 2017.
438. Gao, H., J. Xu, A. K. Smith, and G.-M. Chen, Effects of solar proton events on dayglow observed by the TIMED/SABER satellite, *J. Geophys. Res. Space Physics*, *122*, 7619–7635, doi:[10.1002/2017JA023966](https://doi.org/10.1002/2017JA023966), 2017.
439. García-Comas, M., M. J. López-González, F. González-Galindo, J. L. de la Rosa, M. López-Puertas, M. G. Shepherd, and G. G. Shepherd, Mesospheric OH layer altitude at midlatitudes: variability over the Sierra Nevada Observatory in Granada, Spain (37° N, 3° W), *Ann. Geophys.*, *35*, 1151-1164, doi:[10.5194/angeo-35-1151-2017](https://doi.org/10.5194/angeo-35-1151-2017), 2017.
440. Gardner, C. S., A. Z. Liu, and Y. Guo, Vertical and horizontal transport of mesospheric Na: Implications for the mass influx of cosmic dust, *J. Atmos. Solar-Terr. Phys.*, *162*, 192-202, doi:[10.1016/j.jastp.2016.07.013](https://doi.org/10.1016/j.jastp.2016.07.013), 2017.
441. Gasperini, F., J. M. Forbes, and M. E. Hagan, Wave coupling from the lower to the middle thermosphere: Effects of mean winds and dissipation, *J. Geophys. Res. Space Physics*, *122*, 7781–7797, doi:[10.1002/2017JA024317](https://doi.org/10.1002/2017JA024317), 2017.
442. Gu, S.-Y., H.-L. Liu, N. M. Pedatella, X. Dou, and Y. Liu, On the wave number 2 eastward propagating quasi 2 day wave at middle and high latitudes, *J. Geophys. Res. Space Physics*, *122*, 4489-4499, doi:[10.1002/2016JA023353](https://doi.org/10.1002/2016JA023353), 2017.
443. Gupta, S., and A. K. Upadhyaya, Preearthquake anomalous ionospheric signatures observed at low-mid latitude Indian station, Delhi, during the year 2015 to early 2016: Preliminary results, *J. Geophys. Res. Space Physics*, *122*, 8694–8719, doi:[10.1002/2017JA024192](https://doi.org/10.1002/2017JA024192), 2017.
444. Habarulema, J. B., Z. T. Katamzi, P. Sibanda, and T. M. Matamba, Assessing ionospheric response during some strong storms in solar cycle 24 using various data sources, *J. Geophys. Res. Space Physics*, *122*, 1064-1082, doi:[10.1002/2016JA023066](https://doi.org/10.1002/2016JA023066), 2017.
445. Heale, C. J., K. Bossert, J. B. Snively, D. C. Fritts, P.-D. Pautet, and M. J. Taylor, Numerical modeling of a multiscale gravity wave event and its airglow signatures over Mount Cook, New Zealand during the DEEPWAVE campaign., *J. Geophys. Res. Atmos.*, *122*, doi:[10.1002/2016JD025700](https://doi.org/10.1002/2016JD025700), 2017.
446. Ho, S.-P., L. Peng, and H. Vöme, Characterization of the long-term radiosonde temperature biases in the upper troposphere and lower stratosphere using COSMIC and Metop-A/GRAS data from 2006 to 2014, *Atmos. Chem. Phys.*, *17*, 4493–4511, doi:[10.5194/acp-17-4493-2017](https://doi.org/10.5194/acp-17-4493-2017), 2017.

447. Hoffmann, L., R. Spang, A. Orr, M. J. Alexander, L. A. Holt, and O. Stein, A decadal satellite record of gravity wave activity in the lowerstratosphere to study polar stratospheric cloud formation, *Atmos. Chem. Phys.*, *17*, 2901–2920, doi:[10.5194/acp-17-2901-2017](https://doi.org/10.5194/acp-17-2901-2017), 2017.
448. Huang, J., Y. Hao, D. Zhang, and Z. Xiao, Revisiting interminima solar EUV change using adjusted SOHO SEM data, *J. Geophys. Res. Space Physics*, *122*, 3420–3429, doi:[10.1002/2016JA023664](https://doi.org/10.1002/2016JA023664), 2017.
449. Huang, Y. Y., S. D. Zhang, C. Y. Li, H. J. Li, K. M. Huang, and C. M. Huang, Annual and interannual variations in global 6.5DWs from 20 to 110 km during 2002–2016 observed by TIMED/SABER, *J. Geophys. Res. Space Physics*, *122*, 8985–9002, doi:[10.1002/2017JA023886](https://doi.org/10.1002/2017JA023886), 2017.
450. Jacobi, C., A. Krug, and E. Merzlyakov, Radar observations of the quarterdiurnal tide at midlatitudes: Seasonal and long-term variations, *J. Atmos. Solar-Terr. Phys.*, *163*, 70–77, doi:[10.1016/j.jastp.2017.05.014](https://doi.org/10.1016/j.jastp.2017.05.014), 2017.
451. Jin, S., R. Jin, and H. Kutoglu, Positive and negative ionospheric responses to the March 2015 geomagnetic storm from BDS observations, *J. Geod.*, *91*, 613–626, doi:[10.1007/s00190-016-0988-4](https://doi.org/10.1007/s00190-016-0988-4), 2017.
452. Johansson, F. L., E. Odelstad, J. J. P. Paulsson, S. S. Harang, A. I. Eriksson, T. Mannel, E. Vigren, N. J. T. Edberg, W. J. Miloch, C. Simon Wedlund, E. Thiemann, F. Eparvier, and L. Andersson, Rosetta photoelectron emission and solar ultraviolet flux at comet 67P, *Mon. Not. Royal Astron. Soc.*, *469*, S626–635, doi:[10.1093/mnras/stx2369](https://doi.org/10.1093/mnras/stx2369), 2017.
453. Kaifler, B., C. Büdenbender, P. Mahnke, M. Damm, D. Sauder, N. Kaifler, and M. Rapp, Demonstration of an iron fluorescence lidar operating at 372 nm wavelength using a newly-developed Nd:YAG laser, *Opt. Lett.*, *42*, 2858–2861, doi:[10.1364/OL.42.002858](https://doi.org/10.1364/OL.42.002858), 2017.
454. Kaifler, N., B. Kaifler, B. Ehard, S. Gisinger, A. Dörnbrack, M. Rapp, R. Kivi, A. Kozlovsky, M. Lester, and B. Liley, Observational indications of downward-propagating gravity waves in middle atmosphere lidar data, *J. Atmos. Solar-Terr. Phys.*, *162*, 16–27, doi:[10.1016/j.jastp.2017.03.003](https://doi.org/10.1016/j.jastp.2017.03.003), 2017.
455. Kakoti, G., P. K. Bhuyan, and R. Hazarika, Seasonal and solar cycle effects on TEC at 95°E in the ascending half (2009–2014) of the subdued solar cycle 24: Consistent underestimation by IRI 2012, *Adv. Space Res.*, *60*, 2, 257–275, doi:[10.1016/j.asr.2016.09.002](https://doi.org/10.1016/j.asr.2016.09.002), 2017.
456. Kalita, B. R., and P. K. Bhuyan, Variations of the ionospheric parameters and vertical electron density distribution at the northern edge of the EIA from 2010 to 2015 along 95°E and comparison with the IRI-2012, *Adv. Space Res.*, *60*, 2, 295–306, doi:[10.1016/j.asr.2016.06.041](https://doi.org/10.1016/j.asr.2016.06.041), 2017.
457. Khaykin, S. M., B. M. Funatsu, A. Hauchecorne, S. Godin-Beekmann, C. Claud, P. Keckhut, A. Pazmino, H. Gleisner, J. K. Nielsen, S. Syndergaard, and K. B. Lauritsen, Postmillennium changes in stratospheric temperature consistently resolved by GPS radio occultation and AMSU observations, *Geophys. Res. Lett.*, *44*, 7510–7518, doi:[10.1002/2017GL074353](https://doi.org/10.1002/2017GL074353), 2017.
458. Kim, K., J.-H. Kim, Y. H. Kim, and Y. S. Lee, Long-term trend of mesospheric temperatures over Kiruna (68°N, 21°E) during 2003–2014, *J. Atmos. Solar-Terr. Phys.*, *161*, 83–87, doi:[10.1016/j.jastp.2017.06.018](https://doi.org/10.1016/j.jastp.2017.06.018), 2017.
459. Knipp, D. J., D. V. Pette, L. M. Kilcommons, T. L. Isaacs, A. A. Cruz, M. G. Mlynczak, L. A. Hunt, and C. Y. Lin, Thermospheric nitric oxide response to shock-led storms, *Space Weather*, *15*, 325–342, doi:[10.1002/2016SW001567](https://doi.org/10.1002/2016SW001567), 2017.
460. Koren'kov, Y. N., N. A. Koren'kova, F.S. Bessarab, and V. S. Lechshenko, Quasi-wave variations in foEs during stratospheric warmings of 2008–2010 according to data from Kaliningrad ionospheric station, *Geomagn. Aeron.* *57*, 451–460, doi:[10.1134/S0016793217030082](https://doi.org/10.1134/S0016793217030082), 2017.
461. Kotova, D. S., M. V. Klimenko, V. V. Klimenko, and V. E. Zakharov, Influence of geomagnetic storms of September 26–30, 2011, on the ionosphere and HF radiowave

- propagation. II. radiowave propagation, *Geomagn. Aeron.* 57, 288–300, doi:[10.1134/S0016793217030100](https://doi.org/10.1134/S0016793217030100), 2017.
462. Kozubek, M., P. Krizan, and J. Lastovicka, Comparison of the long-term trends in stratospheric dynamics of four reanalyses, *Ann. Geophys.*, 35, 279–294, doi:[10.5194/angeo-35-279-2017](https://doi.org/10.5194/angeo-35-279-2017), 2017.
463. Kren, A. C., P. Pilewskie, and O. Coddington, Where does Earth's atmosphere get its energy?, *J. Space Weather & Space Clim.*, 7, A10, doi:[10.1051/swsc/2017007](https://doi.org/10.1051/swsc/2017007), 2017.
464. Krisch, I., P. Preusse, J. Ungermann, A. Dörnbrack, S. D. Eckermann, M. Ern, F. Friedl-Vallon, M. Kaufmann, H. Oelhaf, M. Rapp, C. Strube, and M. Riese, First tomographic observations of gravity waves by the infrared limb imager GLORIA, *Atmos. Chem. Phys.*, 17, 14937–14953, doi:[10.5194/acp-17-14937-2017](https://doi.org/10.5194/acp-17-14937-2017), 2017.
465. Kuai, J., L. Liu, J. Lei, J. Liu, B. Zhao, Y. Chen, H. Le, Y. Wang, and L. Hu, Regional differences of the ionospheric response to the July 2012 geomagnetic storm, *J. Geophys. Res. Space Physics*, 122, 4654–4668, doi:[10.1002/2016JA023844](https://doi.org/10.1002/2016JA023844), 2017.
466. Kulikov, M. Y., M. V. Belikov, M. Grygalashvyly, G. R. Sonnemann, T. S. Ermakova, A. A. Nechaev, and A. M. Feigin, Daytime ozone loss term in the mesopause region, *Ann. Geophys.*, 35, 677–682, doi:[10.5194/angeo-35-677-2017](https://doi.org/10.5194/angeo-35-677-2017), 2017.
467. Kuribayashi, K., N. Yoshida, H. Jin, Y. J. Orsolini, and Y. Kasaiba, Optimal retrieval method to estimate ozone vertical profile in the mesosphere and lower thermosphere (MLT) region from submillimeter-wave limb emission spectra, *J. Quant. Spectrosc. Ra.*, 192, 42–52, doi:[10.1016/j.jqsrt.2017.01.033](https://doi.org/10.1016/j.jqsrt.2017.01.033), 2017.
468. Kushnarenko, G. P., O. E. Yakovleva, and G. M. Kuznetsova, Long-term variations in the neutral gas composition of the thermosphere over Norilsk (2003–2013), *Solar-Terrestrial Physics*, 2:4, doi:[10.12737/21465](https://doi.org/10.12737/21465), 2017.
469. Kutepov, A. A., L. Rezac, and A. G. Feofilov, Evidence of a significant rotational non-LTE effect in the CO₂ 4.3 μm PFS-MEX limb spectra, *Atmos. Meas. Tech.*, 10, 265–271, doi:[10.5194/amt-10-265-2017](https://doi.org/10.5194/amt-10-265-2017), 2017.
470. Laštovička, J., A review of recent progress in trends in the upper atmosphere, *J. Atmos. Solar-Terr. Phys.*, 163, 2–13, doi:[10.1016/j.jastp.2017.03.009](https://doi.org/10.1016/j.jastp.2017.03.009), 2017.
471. Lednyts'kyy, O., C. von Savigny, and M. Weber, Sensitivity of equatorial atomic oxygen in the MLT region to the 11-year and 27-day solar cycles, *J. Atmos. Solar-Terr. Phys.*, 162, 136–150, doi:[10.1016/j.jastp.2016.11.003](https://doi.org/10.1016/j.jastp.2016.11.003), 2017.
472. Lee, C. O., T. Hara, J. S. Halekas, E. Thiemann, P. Chamberlin, F. Eparvier, R. J. Lillis, D. E. Larson, P. A. Dunn, J. R. Espley, J. Gruesbeck, S. M. Curry, J. G. Lhmann, and B. M. Jakosky, MAVEN observations of the solar cycle 24 space weather conditions at Mars, *J. Geophys. Res.*, 122, 2768–2791, doi:[10.1002/2017JA023495](https://doi.org/10.1002/2017JA023495), 2017.
473. Li, J. W., Z. Sheng, Z. Q. Fan, S. D. Zhou, and W. L. Shi, Data Analysis of Upper Atmosphere Temperature Detected by Sounding Rockets in China, *J. Atmos. Oceanic Technol.*, 0, doi:[10.1175/JTECH-D-16-0104.1](https://doi.org/10.1175/JTECH-D-16-0104.1), 2017.
474. Li, X., W. Wan, Z. Ren, and Y. Yu, The variability of SE2 tide extracted from TIMED/SABER observations, *J. Geophys. Res. Space Physics*, 122, 2136–2150, doi:[10.1002/2016JA023435](https://doi.org/10.1002/2016JA023435), 2017.
475. Li, Y., X. Lin, Y. Yang, Y. Xia, J. Xiong, S. Song, L. Liu, Z. Chen, X. Cheng, and F. Li, Temperature characteristics at altitudes of 5–80 km with a self-calibrated Rayleigh–rotational Raman lidar: A summer case study, *J. Quant. Spectrosc. Radiat. Transf.*, 188, 94–102, doi:[10.1016/j.jqsrt.2016.05.007](https://doi.org/10.1016/j.jqsrt.2016.05.007), 2017.
476. Lieberman, R. S., D. M. Riggin, V. Nguyen, S. E. Palo, D. E. Siskind, N. J. Mitchell, G. Stober, S. Wilhelm, and N. J. Livesey, Global observations of 2 day wave coupling to the diurnal tide in a high-altitude forecast-assimilation system, *J. Geophys. Res. Atmos.*, 122, 4135–4149, doi:[10.1002/2016JD025144](https://doi.org/10.1002/2016JD025144), 2017.

477. Liu, G., and H. Shen, A severe negative response of the ionosphere to the intense geomagnetic storm on March 17, 2015 observed at mid- and low-latitude stations in the China zone, *Adv. Space Res.*, 59, 2301-2312, doi:[10.1016/j.asr.2017.02.021](https://doi.org/10.1016/j.asr.2017.02.021), 2017.
478. Liu, H., J. Thayer, Y. Zhang, and W. K. Lee, The non-storm time corrugated upper thermosphere: What is beyond MSIS?, *Space Weather*, 15, 746-760, doi:[10.1002/2017SW001618](https://doi.org/10.1002/2017SW001618), 2017.
479. Liu, H., Y.-Y. Sun, Y. Miyoshi, and H. Jin, ENSO effects on MLT diurnal tides: A 21 year reanalysis data-driven GAIA model simulation, *J. Geophys. Res. Space Physics*, 122, 5539-5549, doi:[10.1002/2017JA024011](https://doi.org/10.1002/2017JA024011), 2017.
480. Liu, L., H. Liu, H. Le, Y. Chen, Y.-Y. Sun, B. Ning, L. Hu, W. Wan, Na Li, and J. Xiong, Mesospheric temperatures estimated from the meteor radar observations at Mohe, China, *J. Geophys. Res. Space Physics*, 122, 2, 2249-2259, doi:[10.1002/2016JA023776](https://doi.org/10.1002/2016JA023776), 2017.
481. Liu, L., H. Liu, Y. Chen, H. Le, Y.-Y. Sun, B. Ning, L. Hu, and W. Wan, Variations of the meteor echo heights at Beijing and Mohe, China, *J. Geophys. Res. Space Physics*, 122, 1117-1127, doi:[10.1002/2016JA023448](https://doi.org/10.1002/2016JA023448), 2017.
482. Liu, X., J. Yue, J. Xu, R. R. Garcia, J. M. Russell III, M. G. Mlynczak, D. L. Wu, and T. Nakamura, Variations of global gravity waves derived from 14 years of SABER temperature observations, *J. Geophys. Res. Atmos.*, 122, 6231-6249, doi:[10.1002/2017JD026604](https://doi.org/10.1002/2017JD026604), 2017.
483. López-González, M. J., E. Rodríguez, M. García-Comas, M. López-Puertas, I. Olivares, J. A. Ruiz-Bueno, M. G. Shepherd, G. G. Shepherd, and S. Sargoytchev, Semidiurnal tidal activity of the middle atmosphere at mid-latitudes derived from O₂ atmospheric and OH(6-2) airglow SATI observations, *J. Atmos. Solar-Terr. Phys.*, 164, 116-126, doi:[10.1016/j.jastp.2017.08.014](https://doi.org/10.1016/j.jastp.2017.08.014), 2017.
484. López-Puertas, M., B. Funke, Á. A. Jurado-Navarro, M. García-Comas, A. Gardini, C. D. Boone, L. Rezac, and R. R. Garcia, Validation of the MIPAS CO₂ volume mixing ratio in the mesosphere and lower thermosphere and comparison with WACCM simulations, *J. Geophys. Res. Atmos.*, 122, 8345-8366, doi:[10.1002/2017JD026805](https://doi.org/10.1002/2017JD026805), 2017.
485. Luan, X., W. Wang, A. Burns, and X. Dou, Solar cycle variations of thermospheric O/N₂ longitudinal pattern from TIMED/GUVI, *J. Geophys. Res. Space Physics*, 122, 2605-2618, doi:[10.1002/2016JA023696](https://doi.org/10.1002/2016JA023696), 2017.
486. Ma, Z., Y. Gong, S. Zhang, Q. Zhou, C. Huang, K. Huang, Y. Yu, G. Li, B. Ning, and C. Li, Responses of quasi 2 day waves in the MLT region to the 2013 SSW revealed by a meteor radar chain, *Geophys. Res. Lett.*, 44, 9142-9150, doi:[10.1002/2017GL074597](https://doi.org/10.1002/2017GL074597), 2017.
487. Martyshenko, K. V., and V. A. Yankovsky, IR band of O₂ at 1.27 μ m as the tracer of O₃ in the mesosphere and lower thermosphere: Correction of the method, *Geomagn. Aeron.*, 57, 229-241, doi:[10.1134/S0016793217020098](https://doi.org/10.1134/S0016793217020098), 2017.
488. McCormack, J., K. Hoppel, D. Kuhl, R. de Wit, G. Stober, P. Espy, N. Baker, P. Brown, D. Fritts, C. Jacobi, D. Janches, N. Mitchell, B. Ruston, S. Swadley, K. Viner, T. Whitcomb, and R. Hibbins, Comparison of mesospheric winds from a high-altitude meteorological analysis system and meteor radar observations during the boreal winters of 2009-2010 and 2012-2013, *J. Atmos. Solar-Terr. Phys.*, 154, 132-166, doi:[10.1016/j.jastp.2016.12.007](https://doi.org/10.1016/j.jastp.2016.12.007), 2017.
489. Mende, S. B., H. U. Frey, K. Rider, C. Chou, S. E. Harris, O. H. W. Siegmund, S. L. England, C. Wilkins, W. Craig, T. J. Immel, P. Turin, N. Darling, J. Loicq, P. Blain, E. Syrstad, B. Thompson, R. Burt, J. Champagne, P. Sevilla, and S. Ellis, The Far Ultra-Violet Imager on the Icon Mission, *Space Sci. Rev.*, 212, 655-696, doi:[10.1007/s11214-017-0386-0](https://doi.org/10.1007/s11214-017-0386-0), 2017.
490. Mendillo, M., C. Narvaez, M. F. Vogt, M. Mayyasi, J. Forbes, M. Galand, E. Thiemann, M. Benna, F. Eparvier, P. Chamberlin, P. Mahaffy, and L. Andersson, Sources of Ionospheric Variability at Mars, *J. Geophys. Res.*, 122, 9670-9684, doi:[10.1002/2017JA024366](https://doi.org/10.1002/2017JA024366), 2017.
491. Mills, M. J., J. H. Richter, S. Tilmes, B. Kravitz, D. G. MacMartin, A. A. Glanville, J. J. Tribbia, J.-F. Lamarque, F. Vitt, A. Schmidt, A. Gettelman, C. Hannay, J. T. Bacmeister, and

- D. E. Kinnison, Radiative and chemical response to interactive stratospheric sulfate aerosols in fully coupled CESM1(WACCM), *J. Geophys. Res. Atmos.*, 122, 13,061–13,078, doi:[10.1002/2017JD027006](https://doi.org/10.1002/2017JD027006), 2017.
492. Miyoshi, Y., D. Panchev, P. Mukhtarov, H. Jin, H. Fujiwara, and H. Shinagawa, Excitation mechanism of non-migrating tides, *J. Atmos. Solar-Terr. Phys.*, 156, 24-36, doi:[10.1016/j.jastp.2017.02.012](https://doi.org/10.1016/j.jastp.2017.02.012), 2017.
493. Negreti, P. M., E. R. de Paula, and C. M. N. Candido, Total electron content responses to HILDCAs and geomagnetic storms over South America, *Ann. Geophys.*, 35, 1309-1326, doi:[10.5194/angeo-35-1309-2017](https://doi.org/10.5194/angeo-35-1309-2017), 2017.
494. Nischal, N., J. Oberheide, M. G. Mlynczak, L. A. Hunt, and A. Maute, Nonmigrating tidal impact on the CO₂ 15 μ m infrared cooling of the lower thermosphere during solar minimum conditions, *J. Geophys. Res. Space Physics*, 122, 6761-6775, doi:[10.1002/2017JA024273](https://doi.org/10.1002/2017JA024273), 2017.
495. Noll, S., S. Kimeswenger, B. Proxauf, S. Unterguggenberger, W. Kausch, and A. M. Jones, 15 years of VLT/UVES OH intensities and temperatures in comparison with TIMED/SABER data, *J. Atmos. Solar-Terr. Phys.*, 163, 54-69, doi:[10.1016/j.jastp.2017.05.012](https://doi.org/10.1016/j.jastp.2017.05.012), 2017.
496. Ogunjobi, O., V. Sivakumar, J. A. E. Stephenson, and Z. Mtumela, PMSE long term observations using SuperDARN SANA HF radar measurements, *Terr. Atmos. Ocean. Sci.*, 28,371-383, doi:[10.3319/TAO.2016.09.19.01](https://doi.org/10.3319/TAO.2016.09.19.01), 2017.
497. Olwendo, O. J., C. Cesaroni, Y. Yamazaki, and P. Cilliersde, Equatorial ionospheric disturbances over the East African sector during the 2015 St. Patrick's day storm, *Adv. Space Res.*, 60, 8, 1817-1826, doi:[10.1016/j.asr.2017.06.037](https://doi.org/10.1016/j.asr.2017.06.037), 2017.
498. Orsolini, Y. J., V. Limpasuvan, K. Pérot, P. Espy, R. Hibbins, S. Lossow, K. Raaholt Larsson, and D. Murtagh, Modelling the descent of nitric oxide during the elevated stratopause event of January 2013, *J. Atmos. Solar-Terr. Phys.*, 155, 50-61, doi:[10.1016/j.jastp.2017.01.006](https://doi.org/10.1016/j.jastp.2017.01.006), 2017.
499. Ortland, D. A., Daily estimates of the migrating tide and zonal mean temperature in the mesosphere and lower thermosphere derived from SABER data, *J. Geophys. Res. Atmos.*, 122, 3754-3785, doi:[10.1002/2016JD025573](https://doi.org/10.1002/2016JD025573), 2017.
500. Pal, S., Y. Hobara, S. K. Chakrabarti, and P. W. Schnoor, Effects of the major sudden stratospheric warming event of 2009 on the subionospheric very low frequency/low frequency radio signals, *J. Geophys. Res. Space Physics*, 122, 7555–7566, doi:[10.1002/2016JA023813](https://doi.org/10.1002/2016JA023813), 2017.
501. Panka, P. A., A. A. Kutepov, K. S. Kalogerakis, D. Janches, J. M. Russell III, L. Rezac, A. G. Feofilov, M. G. Mlynczak, and E. Yiğit, Resolving the mesospheric nighttime 4.3 μ m emission puzzle: comparison of the CO₂(v₃) and OH(v) emission models, *Atmos. Chem. Phys.*, 17, 9751-9760, doi:[10.5194/acp-17-9751-2017](https://doi.org/10.5194/acp-17-9751-2017), 2017.
502. Parihar, N., D. Singh, and S. Gurubaran, A comparison of ground-based hydroxyl airglow temperatures with SABER/TIMED measurements over 23° N, India, *Ann. Geophys.*, 35, 353-363, doi:[10.5194/angeo-35-353-2017](https://doi.org/10.5194/angeo-35-353-2017), 2017.
503. Paulino, A. R., L. M. Lima, S. L. Almeida, P. P. Batista, I. S. Batista, I. Paulino, H. Takahashi, and C. M. Wrasse, *J. Geophys. Res. Space Physics*, 122, 7519-7529, doi:[10.1002/2017JA024052](https://doi.org/10.1002/2017JA024052), 2017.
504. Paxton, L. J., R. K. Schaefer, Y. Zhang, and H. Kil, Far ultraviolet instrument technology, *J. Geophys. Res. Space Physics*, 122, 2706-2733, doi:[10.1002/2016JA023578](https://doi.org/10.1002/2016JA023578), 2017.
505. Perlongo, N. J., A. J. Ridley, M. W. Liemohn, and R. M. Katus, The effect of ring current electron scattering rates on magnetosphere-ionosphere coupling, *J. Geophys. Res. Space Physics*, 122, 4168–4189, doi:[10.1002/2016JA023679](https://doi.org/10.1002/2016JA023679), 2017.
506. Polavarapu, S., and M. Pulido, Stratospheric and Mesospheric Data Assimilation: The Role of Middle Atmospheric Dynamics, In: Park S., Xu L. (eds) *Data Assimilation for Atmospheric*,

- Oceanic and Hydrologic Applications (Vol. III)*, Springer, Cham, doi:[10.1007/978-3-319-43415-5_19](https://doi.org/10.1007/978-3-319-43415-5_19), 2017.
507. Polekh, N. M., N. Zolotukhina, V. Kurkin, G. Zherebtsov, J. Shi, G. Wang, and Z. Wang, Dynamics of ionospheric disturbances during the 17–19 March 2015 geomagnetic storm over East Asia, *Adv. Space Res.*, 60, 2464–2476, doi:[10.1016/j.asr.2017.09.030](https://doi.org/10.1016/j.asr.2017.09.030), 2017.
508. Qian, L., A. Burns, and J. Yue, Evidence of the lower thermospheric winter-to-summer circulation from SABER CO₂ observations, *Geophys. Res. Lett.*, 44, 10,100–10,107, doi:[10.1002/2017GL075643](https://doi.org/10.1002/2017GL075643), 2017.
509. Qian, L., A. G. Burns, S. C. Solomon, and W. Wang, Carbon dioxide trends in the mesosphere and lower thermosphere, *J. Geophys. Res. Space Physics*, 122:4, 4474–4488, doi:[10.1002/2016JA023825](https://doi.org/10.1002/2016JA023825), 2017.
510. Qian, L., and J. Yue, Impact of the lower thermospheric winter-to-summer residual circulation on thermospheric composition, *Geophys. Res. Lett.*, 44, 3971–3979, doi:[10.1002/2017GL073361](https://doi.org/10.1002/2017GL073361), 2017.
511. Qin, J., L. Waldrop, and J. J. Makela, Redistribution of H atoms in the upper atmosphere during geomagnetic storms, *J. Geophys. Res. Space Physics*, 122, 10,686–10,693, doi:[10.1002/2017JA024489](https://doi.org/10.1002/2017JA024489), 2017.
512. Ramesh, K., S. Sridharan, K. Raghunath, and S. V. B. Rao, A chemical perspective of day and night tropical (10°N–15°N) mesospheric inversion layers, *J. Geophys. Res. Space Physics*, 122, 3650–3664, doi:[10.1002/2016JA023721](https://doi.org/10.1002/2016JA023721), 2017.
513. Reid, I. M., A. J. Spargo, J. M. Woithe, A. R. Klekociuk, J. P. Younger, and G. G. Sivjee, Seasonal MLT-region nightglow intensities, temperatures, and emission heights at a Southern Hemisphere midlatitude site, *Ann. Geophys.*, 35, 567–582, doi:[10.5194/angeo-35-567-2017](https://doi.org/10.5194/angeo-35-567-2017), 2017.
514. Reisin, E. R., and J. Scheer, Unexpected East-West effect in mesopause region SABER temperatures over El Leoncito, *J. Atmos. Solar-Terr. Phys.*, 157–158, 35–41, doi:[10.1016/j.jastp.2017.03.016](https://doi.org/10.1016/j.jastp.2017.03.016), 2017.
515. Richards, P. G., R. R. Meier, S.-P. Chen, D. P. Drob, and P. Dandenault, Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea Anomaly, *J. Geophys. Res. Space Physics*, 122, 6562–6582, doi:[10.1002/2016JA023565](https://doi.org/10.1002/2016JA023565), 2017.
516. Rodas, C., and M. Pulido, A climatology of Rossby wave generation in the middle atmosphere of the Southern hemisphere from MERRA reanalysis, *J. Geophys. Res. Atmos.*, 122, 8982–8997, doi:[10.1002/2017JD026597](https://doi.org/10.1002/2017JD026597), 2017.
517. Rourke, S., F. J. Mulligan, W. J. R. French, and D. J. Murphy, A climatological study of short-period gravity waves and ripples at Davis Station, Antarctica (68°S, 78°E), during the (austral winter February–October) period 1999–2013, *J. Geophys. Res. Atmos.*, 122, 11,388–11,404, doi:[10.1002/2017JD026998](https://doi.org/10.1002/2017JD026998), 2017.
518. Rüfenacht, R., and N. Kämpfer, The importance of signals in the Doppler broadening range for middle-atmospheric microwave wind and ozone radiometry, *J. Quant. Spectrosc. Radiat. Transf.*, 199, 77–88, doi:[10.1016/j.jqsrt.2017.05.028](https://doi.org/10.1016/j.jqsrt.2017.05.028), 2017.
519. Rusch, D. W., G. Thomas, A. Merkel, J. Olivero, A. Chandran, J. Lumpe, J. Carstans, C. Randall, S. Bailey, and J. M. Russell III, Large ice particles associated with small ice water content observed by AIM CIPS imagery of polar mesospheric clouds: Evidence for microphysical coupling with small-scale dynamics, *J. Atmos. Solar-Terr. Phys.*, 162, 97–105, doi:[10.1016/j.jastp.2016.04.018](https://doi.org/10.1016/j.jastp.2016.04.018), 2017.
520. Sathishkumar, S., S. Sridharan, P. V. M. Kutty, and S. Gurubaran, Long term variabilities and tendencies of mesospheric lunar semidiurnal tide over Tirunelveli (8.7°N, 77.8°E), *J. Atmos. Solar-Terr. Phys.*, 163, 46–53, doi:[10.1016/j.jastp.2017.05.015](https://doi.org/10.1016/j.jastp.2017.05.015), 2017.
521. Schäfer, R., G. Schmidtke, T. Strahl, M. Pfeifer, and R. Brunner, EUV data processing methods of the Solar Auto-Calibrating EUV Spectrometers (SolACES) aboard the

- International Space Station, *Adv. Space Res.*, 59, 9, 2207-2228, doi:[10.1016/j.asr.2017.02.036](https://doi.org/10.1016/j.asr.2017.02.036), 2017.
522. Semenov, A. I., I. V. Medvedeva, V. I. Perminov, and Y. A. Zheleznov, Spatial and temporal variations in infrared emissions of the upper atmosphere. 2. 15- μ m carbon dioxide emission, *Geomagn. Aeron.*, 57, 597-601, doi:[10.1134/S0016793217040168](https://doi.org/10.1134/S0016793217040168), 2017.
523. Sharma, S., P. Kumar, C. Jethva, R. Vaishnav, and H. Bencherif, Investigations of the middle atmospheric thermal structure and oscillations over sub-tropical regions in the Northern and Southern Hemispheres, *Clim. Dyn.*, 48, 3671-3684, doi:[10.1007/s00382-016-3293-2](https://doi.org/10.1007/s00382-016-3293-2), 2017.
524. Sharma, S., P. Kumar, R. Vaishnav, C. Jethva, and G. Beig, A study of the middle atmospheric thermal structure over western India: Satellite data and comparisons with models, *Adv. Space Res.*, 60, 2402-2413, doi:[10.1016/j.asr.2017.09.021](https://doi.org/10.1016/j.asr.2017.09.021), 2017.
525. Sharma, S., P. Kumar, R. Vaishnav, H. Chandra, H. Gadhavi, S. Sridharan, and A. Jayaraman, Study of Stratospheric Sudden Warming (SSW) over the tropical and subtropical regions of India using Rayleigh lidar, *Int. J. Remote Sens.*, 38:15, 4285-4302, doi:[10.1080/01431161.2017.1317935](https://doi.org/10.1080/01431161.2017.1317935), 2017.
526. Shebanits, O., E. Vigren, J.-E. Wahlund, M. K. G. Holmberg, M. Morooka, N. J. T. Edberg, K. E. Mandt, and J. H. Waite, Titan's ionosphere: A survey of solar EUV influences, *J. Geophys. Res. Space Physics*, 122, 7491-7503, doi:[10.1002/2017JA023987](https://doi.org/10.1002/2017JA023987), 2017.
527. Sheng, C., G. Lu, S. C. Solomon, W. Wang, E. Doornbos, L. A. Hunt, and M. G. Mlynczak, Thermospheric recovery during the 5 April 2010 geomagnetic storm, *J. Geophys. Res. Space Physics*, 122, 4588-4599, doi:[10.1002/2016JA023520](https://doi.org/10.1002/2016JA023520), 2017.
528. Shepherd, G. G., and Y.-M. Cho, Stationary depletions in thermospheric atomic oxygen concentration and mass density observed with WINDII, GUVI, GOCE and simulated by NRLMSISE-00, *J. Atmos. Solar-Terr. Phys.*, 164, 29-38, doi:[10.1016/j.jastp.2017.07.016](https://doi.org/10.1016/j.jastp.2017.07.016), 2017.
529. Shim, J. S., L. Rastätter, M. Kuznetsova, D. Bilitza, M. Codrescu, A. J. Coster, B. A. eMERY, M. Fedrizzi, M. Förster, T. J. Fuller-Rowell, L. C. Gardner, L. Goncharenko, J. Huba, S. E. McDonald, A. J. Mannucci, A. A. Namgaladze, X. Pi, B. E. Prokhorov, A. J. Ridley, L. Scherliess, R. W. Schunk, J. J. Sojka, and L. Zhu, CEDAR-GEM challenge for systematic assessment of Ionosphere/thermosphere models in predicting TEC during the 2006 December storm event, *Space Weather*, 15, 1238-1256, doi:[10.1002/2017SW001649](https://doi.org/10.1002/2017SW001649), 2017.
530. Shreedevi, P. R., and R. K. Choudhary, Impact of Oscillating IMF B_z During 17 March 2013 Storm on the Distribution of Plasma Over Indian Low-Latitude and Mid-Latitude Ionospheric Regions, *J. Geophys. Res. Space Physics*, 122, 11,607-11,623, doi:[10.1002/2017JA023980](https://doi.org/10.1002/2017JA023980), 2017.
531. Siddiqui, T. A., C. Stolle, and H. Lühr, Longitude-dependent lunar tidal modulation of the equatorial electrojet during stratospheric sudden warmings, *J. Geophys. Res. Space Physics*, 122, 3760-3776, doi:[10.1002/2016JA023609](https://doi.org/10.1002/2016JA023609), 2017.
532. Silber, I., C. Price, C. Schmidt, S. Wüst, M. Bittner, and E. Pecora, First ground-based observations of mesopause temperatures above the Eastern-Mediterranean Part I: Multi-day oscillations and tides, *J. Atmos. Solar-Terr. Phys.*, 155, 95-103, doi:[10.1016/j.jastp.2016.08.014](https://doi.org/10.1016/j.jastp.2016.08.014), 2017.
533. Singh, D., and S. Gurubaran, Variability of diurnal tide in the MLT region over Tirunelveli (8.7°N), India: Consistency between ground- and space-based observations, *J. Geophys. Res. Atmos.*, 122, 2696-2713, doi:[10.1002/2016JD025910](https://doi.org/10.1002/2016JD025910), 2017.
534. Singh, R. P., and D. Pallamraju, Near InfraRed Imaging Spectrograph (NIRIS) for ground-based mesospheric OH(6-2) and O₂(0-1) intensity and temperature measurements, *J. Earth Syst. Sci.*, 126:88, doi:[10.1007/s12040-017-0865-4](https://doi.org/10.1007/s12040-017-0865-4), 2017.

535. Siskind, D. E., K. A. Zawdie, F. Sassi, D. Drob, and M. Friedrich, Global modeling of the low- and middle-latitude ionospheric D and lower E regions and implications for HF radio wave absorption, *Space Weather*, *15*, 115-130, doi:[10.1002/2016SW001546](https://doi.org/10.1002/2016SW001546), 2017.
536. Sivavaraprasad, G., D. V. Ratnam, R. S. Padmaja, V. Sharvani, G. Saiteja, Y. S. R. Mounika, and P. B. S. Harsha, Detection of ionospheric anomalies during intense space weather over a low-latitude GNSS station, *Acta Geod. Geophys.*, *52*, 535-553, doi:[10.1007/s40328-016-0190-4](https://doi.org/10.1007/s40328-016-0190-4), 2017.
537. Sjöberg, J. P., T. Birner, and R. H. Johnson, Intraseasonal to interannual variability of Kelvin wave momentum fluxes as derived from high-resolution radiosonde data, *Atmos. Chem. Phys.*, *17*, 8971-8986, doi:[10.5194/acp-17-8971-2017](https://doi.org/10.5194/acp-17-8971-2017), 2017.
538. Smith, A. K., N. M. Pedatella, D. R. Marsh, and T. Matsuo, On the dynamical control of the mesosphere-lower thermosphere by the lower and middle atmosphere, *J. Atmos. Sci.*, *0*, doi:[10.1175/JAS-D-16-0226.1](https://doi.org/10.1175/JAS-D-16-0226.1), 2017.
539. Smith, A. K., R. R. Garcia, A. C. Moss, and N. J. Mitchell, The Semiannual Oscillation of the Tropical Zonal Wind in the Middle Atmosphere Derived from Satellite Geopotential Height Retrievals, *Bulletin of the American Meteorological Society*, *74*, 2413-2425, doi:[10.1175/JAS-D-17-0067.1](https://doi.org/10.1175/JAS-D-17-0067.1), 2017.
540. Smith, S. M., G. Stober, C. Jacobi, J. L. Chau, M. Gerding, M. G. Mlynczak, J. M. Russell III, J. L. Baumgardner, Michael Mendillo, M. Lazzarin, and G. Umbriaco, Characterization of a Double Mesospheric Bore Over Europe, *J. Geophys. Res. Space Physics*, *122*, 9738-9750, doi:[10.1002/2017JA024225](https://doi.org/10.1002/2017JA024225), 2017.
541. Sojka, J. J., Locations Where Space Weather Energy Impacts the Atmosphere, *Space Sci. Rev.*, *212*, 1041-1067, doi:[10.1007/s11214-017-0379-z](https://doi.org/10.1007/s11214-017-0379-z), 2017.
542. Solomon, S. C., Global modeling of thermospheric airglow in the far ultraviolet, *J. Geophys. Res. Space Physics*, *122*, 7834-7848, doi:[10.1002/2017JA024314](https://doi.org/10.1002/2017JA024314), 2017.
543. Song, R., M. Kaufmann, J. Ungermann, M. Ern, G. Liu, and M. Riese, Tomographic reconstruction of atmospheric gravity wave parameters from airglow observations, *Atmos. Meas. Tech.*, *10*, 4601-4612, doi:[10.5194/amt-10-4601-2017](https://doi.org/10.5194/amt-10-4601-2017), 2017.
544. Sridharan, S., Variabilities of low-latitude migrating and nonmigrating tides in GPS-TEC and TIMED-SABER temperature during the sudden stratospheric warming event of 2013. *J. Geophys. Res. Space Physics*, *122*, 10,748-10,761, doi:[10.1002/2017JA024283](https://doi.org/10.1002/2017JA024283), 2017.
545. Steinbrecht, W., L. Froidevaux, R. Fuller, R. Wang, J. Anderson, C. Roth, A. Bourassa, D. Degenstein, R. Damadeo, J. Zawodny, S. Frith, R. McPeters, P. Bhartia, J. Wild, C. Long, S. Davis, K. Rosenlof, V. Sofieva, K. Walker, N. Rahpoe, A. Rozanov, M. Weber, A. Laeng, T. von Clarmann, G. Stiller, N. Kramarova, S. Godin-Beekmann, T. Leblanc, R. Querel, D. Swart, I. Boyd, K. Hocke, N. Kämpfer, E. M. Barras, L. Moreira, G. Nedoluha, C. Vigouroux, T. Blumenstock, M. Schneider, O. García, N. Jones, E. Mahieu, D. Smale, M. Kotkamp, J. Robinson, I. Petropavlovskikh, N. Harris, B. Hassler, D. Hubert, and F. Tummon, An update on ozone profile trends for the period 2000 to 2016, *Atmos. Chem. Phys.*, *17*, 10675-10690, doi:[10.5194/acp-17-10675-2017](https://doi.org/10.5194/acp-17-10675-2017), 2017.
546. Tang, C., Y. Wei, D. Liu, T. Luo, C. Dai, and H. Wei, Global Distribution and Variations of NO Infrared Radiative Flux and Its Responses to Solar Activity and Geomagnetic Activity in the Thermosphere, *J. Geophys. Res. Space Physics*, *122*, 12,534-12,543, doi:[10.1002/2017JA024758](https://doi.org/10.1002/2017JA024758), 2017.
547. Teiser, G., and C. Savigny, Variability of OH(3-1) and OH(6-2) emission altitude and volume emission rate from 2003 to 2011, *J. Atmos. Solar-Terr. Phys.*, *161*, 28-42, doi:[10.1016/j.jastp.2017.04.010](https://doi.org/10.1016/j.jastp.2017.04.010), 2017.
548. Thiemann, E. M. B., P. C. Chamberlin, F. Eparvier, B. Templeman, T. N. Woods, S. W. Bougher, and B. M. Jakosky, The MAVEN EUVM model of solar spectral irradiance

- variability at Mars: Algorithms and results, *J. Geophys. Res.*, *122*, 2748-2767, doi:[10.1002/2016JA023512](https://doi.org/10.1002/2016JA023512), 2017.
549. Thurairajah, B., D. E. Siskind, S. M. Bailey, J. N. Carstens, J. M. Russell III, and M. G. Mlynczak, Oblique propagation of monsoon gravity waves during the northern hemisphere 2007 summer, *J. Geophys. Res. Atmos.*, *122*:10 5063-5075, doi:[10.1002/2016JD026008](https://doi.org/10.1002/2016JD026008), 2017.
550. Thurairajah, B., G. E. Thomas, C. von Savigny, M. Snow, M. E. Hervig, S. M. Bailey, and C. E. Randall, Solar-induced 27-day variations of polar mesospheric clouds from the AIM SOFIE and CIPS experiments, *J. Atmos. Solar-Terr. Phys.*, *162*, 122-135, doi:[10.1016/j.jastp.2016.09.008](https://doi.org/10.1016/j.jastp.2016.09.008), 2017.
551. Ugolnikov, O. S., and I. A. Maslov, Analysis of the direction of the twilight sky background polarization as a tool for selecting single scattering, *Cosm. Res.*, *55*, 169-177, doi:[10.1134/S001095251703008X](https://doi.org/10.1134/S001095251703008X), 2017.
552. Unterguggenberger, S., S. Noll, W. Feng, J. M. C. Plane, W. Kausch, S. Kimeswenger, A. Jones, and S. Moehler, Measuring FeO variation using astronomical spectroscopic observations, *Atmos. Chem. Phys.*, *17*, 4177-4187, doi:[10.5194/acp-17-4177-2017](https://doi.org/10.5194/acp-17-4177-2017), 2017.
553. Varotsos, C. A., and M. N. Efsthathiou, Consistency between observational and empirical data of the thermospheric CO₂ and NO power, [arXiv:1709.03197v1](https://arxiv.org/abs/1709.03197v1), *submitted*, 2017.
554. Verkhoglyadova, O. P., A. Komjathy, A. J. Mannucci, M. G. Mlynczak, L. A. Hunt, and L. J. Paxton, Revisiting Ionosphere-Thermosphere Responses to Solar Wind Driving in Superstorms of November 2003 and 2004, *J. Geophys. Res. Space Physics*, *133*:10, 10,824-10,850, doi:[10.1002/2017JA024542](https://doi.org/10.1002/2017JA024542), 2017.
555. Verkhoglyadova, O. P., X. Meng, A. J. Mannucci, M. G. Mlynczak, L. A. Hunt, and G. Lu, Ionosphere-thermosphere energy budgets for the ICME storms of March 2013 and 2015 estimated with GITM and observational proxies, *Space Weather*, *15*, 1102-1124, doi:[10.1002/2017SW001650](https://doi.org/10.1002/2017SW001650), 2017.
556. Virgili-Llop, J., P. C. E. Roberts, and Z. Hao, Using the attitude response of aerostable spacecraft to measure thermospheric wind, *CEAS Space J*, *1-13*, doi:[10.1007/s12567-017-0153-9](https://doi.org/10.1007/s12567-017-0153-9), 2017.
557. Wang, H., and K. Zhang, Longitudinal structure in electron density at mid-latitudes: upward-propagating tidal effects, *Earth, Planets and Space*, *69*:11, doi:[10.1186/s40623-016-0596-9](https://doi.org/10.1186/s40623-016-0596-9), 2017.
558. Wang, J. C., L. C. Chang, J. Yue, W. Wang, and D. E. Siskind, The quasi 2 day wave response in TIME-GCM nudged with NOGAPS-ALPHA, *J. Geophys. Res. Space Physics*, *122*, 5709-5732, doi:[10.1002/2016JA023745](https://doi.org/10.1002/2016JA023745), 2017.
559. Wright, C. J., N. P. Hindley, L. Hoffmann, M. J. Alexander, and N. J. Mitchell, Exploring gravity wave characteristics in 3-D using a novel S-transform technique: AIRS/Aqua measurements over the Southern Andes and Drake Passage, *Atmos. Chem. Phys.*, *17*, 8553-8575, doi:[10.5194/acp-17-8553-2017](https://doi.org/10.5194/acp-17-8553-2017), 2017.
560. Wu, Q., W. S. Schreiner, S.-P. Ho, H.-L. Liu, and L. Qian, Observations and simulations of eddy diffusion and tidal effects on the semiannual oscillation in the ionosphere, *J. Geophys. Res. Space Physics*, *122*, 10,502-10,510, doi:[10.1002/2017JA024341](https://doi.org/10.1002/2017JA024341), 2017.
561. Wu, Y. J., E. Williams, S. C. Chang, J. K. Chou, R. R. Hsu, M. Friedrich, C. L. Kuo, A. B. Chen, K. M. Peng, H. T. Su, H. U. Frey, S. B. Mende, Y. Takahashi, and L. C. Lee, The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the low-latitude mesosphere, *J. Geophys. Res. Space Physics*, *122*, 5550-5567, doi:[10.1002/2016JA023681](https://doi.org/10.1002/2016JA023681), 2017.
562. Wüst, S., C. Schmidt, M. Bittner, I. Silber, C. Price, J.-H. Yee, M. G. Mlynczak, and J. M. Russell III, First ground-based observations of mesopause temperatures above the Eastern-Mediterranean Part II: OH*-climatology and gravity wave activity, *J. Atmos. Solar-Terr. Phys.*, *155*, 104-111, doi:[10.1016/j.jastp.2017.01.003](https://doi.org/10.1016/j.jastp.2017.01.003), 2017.

563. Wüst, S., M. Bittner, J.-H. Yee, M. G. Mlynczak, and J. M. Russell III, Variability of the Brunt–Väisälä frequency at the OH* layer height, *Atmos. Meas. Tech.*, *10*, 4895-4903, doi:[10.5194/amt-10-4895-2017](https://doi.org/10.5194/amt-10-4895-2017), 2017.
564. Wüst, S., V. Wendt, R. Linz, and M. Bittner, Smoothing data series by means of cubic splines: quality of approximation and introduction of a repeating spline approach, *Atmos. Meas. Tech.*, *10*, 3453-3462, doi:[10.5194/amt-10-3453-2017](https://doi.org/10.5194/amt-10-3453-2017), 2017.
565. Xia, Y., L. Du, X. Cheng, F. Li, J. Wang, Z. Wang, Y. Yang, X. Lin, Y. Xun, S. Gong, and G. Yang, Development of a solid-state sodium Doppler lidar using an all-fiber-coupled injection seeding unit for simultaneous temperature and wind measurements in the mesopause region, *Opt. Express*, *25*:5, 5264-5278, doi:[10.1364/OE.25.005264](https://doi.org/10.1364/OE.25.005264), 2017.
566. Yamazaki, Y., C. Stolle, J. Matzka, T. A. Siddiqui, H. Lühr, and P. Alken, Longitudinal variation of the lunar tide in the equatorial electrojet, *J. Geophys. Res. Space Physics*, *122*, 12,445–12,463, doi:[10.1002/2017JA024601](https://doi.org/10.1002/2017JA024601), 2017.
567. Yamazaki, Y., H. Liu, Y.-Y. Sun, Y. Miyoshi, M. J. Kosch, and M. G. Mlynczak, Quasi-biennial oscillation of the ionospheric wind dynamo, *J. Geophys. Res. Space Physics*, *122*, 3553-3569, doi:[10.1002/2016JA023684](https://doi.org/10.1002/2016JA023684), 2017.
568. Yan, Z., X. Hu, W. Guo, S. Guo, Y. Cheng, J. Gong, and J. Yue, Development of a mobile Doppler lidar system for wind and temperature measurements at 30–70 km, *J. Quant. Spectrosc. Radiat. Transf.*, *188*, 52-59, doi:[10.1016/j.jqsrt.2016.04.024](https://doi.org/10.1016/j.jqsrt.2016.04.024), 2017.
569. Ye, Q.-Z., and S. X. Han, Ozone measurements with meteors: a revisit, *Monthly Notices of the Royal Astronomical Society*, *472*, 1, 2–7, doi:[10.1093/mnras/stx1851](https://doi.org/10.1093/mnras/stx1851), 2017.
570. Yela, M., M. Gil-Ojeda, M. Navarro-Comas, D. Gonzalez-Bartolomé, O. Puentedura, B. Funke, J. Iglesias, S. Rodríguez, O. García, H. Ochoa, and G. Deferrari, Hemispheric asymmetry in stratospheric NO₂ trends, *Atmos. Chem. Phys.*, *17*, 13373–13389, doi:[10.5194/acp-17-13373-2017](https://doi.org/10.5194/acp-17-13373-2017), 2017.
571. Yiğit, E., and A. S. Medvedev, Influence of parameterized small-scale gravity waves on the migrating diurnal tide in Earth's thermosphere, *J. Geophys. Res. Space Physics*, *122*, 4846–4864, doi:[10.1002/2017JA024089](https://doi.org/10.1002/2017JA024089), 2017.
572. Yu, T., X. Zuo, C. Xia, M. Li, C. Huang, T. Mao, X. Zhang, B. Zhao, and L. Liu, Peak height of OH airglow derived from simultaneous observations a Fabry-Perot interferometer and a meteor radar, *J. Geophys. Res. Space Physics*, *122*, 4628-4637, doi:[10.1002/2016JA023743](https://doi.org/10.1002/2016JA023743), 2017.
573. Yu, Y., W. Wan, I. M. Reid, J. Chen, R. A. Vincent, B. Ning, D. J. Murphy, G. Yang, X. Xue, A. D. MacKinnon, N. Li, C. Yan, L. Liu, L. Hu, Z. Ren, and Y. Zhang, Global tidal mapping from observations of a radar campaign, *Adv. Space Res.*, *60*, 1, 130-143, doi:[10.1016/j.asr.2017.03.037](https://doi.org/10.1016/j.asr.2017.03.037), 2017.
574. Zhang, R., L. Liu, H. Lem, Y. Chen, and J. Kuai, The Storm Time Evolution of the Ionospheric Disturbance Plasma Drifts, *J. Geophys. Res. Space Physics*, *122*, 11,665-11,676, doi:[10.1002/2017JA024637](https://doi.org/10.1002/2017JA024637), 2017.
575. Zhang, Y., Z. Sheng, H. Shi, S. Zhou, W. Shi, H. Du, and Z. Fan, Properties of the Long-Term Oscillations in the Middle Atmosphere Based on Observations from TIMED/SABER Instrument and FPI over Kelan, *Atmosphere*, *8*, 1, 7, doi:[10.3390/atmos8010007](https://doi.org/10.3390/atmos8010007), 2017.
576. Zhou, L, Z. Sheng, Z. Fan, and Q. Liao, Data Analysis of the TK-1G Sounding Rocket Installed with a Satellite Navigation System, *Atmosphere*, *8*, 199; doi:[10.3390/atmos8100199](https://doi.org/10.3390/atmos8100199), 2017.
577. Zhu, Z., W. Luo, J. Lan, and S. Chang, Features of 3–7-day planetary-wave-type oscillations in F-layer vertical drift and equatorial spread F observed over two low-latitude stations in China, *Ann. Geophys.*, *35*, 763–776, doi:[10.5194/angeo-35-763-2017](https://doi.org/10.5194/angeo-35-763-2017), 2017.

578. Abdu, M. A., Electrodynamics of ionospheric weather over low latitudes, *Geoscience Letters*, 3.1, 1, doi:[10.1186/s40562-016-0043-6](https://doi.org/10.1186/s40562-016-0043-6), 2016.
579. Adekoya, B. J., and V. U. Chukwuma, Ionospheric F2 layer responses to total solar eclipses at low and mid-latitude, *J. Atmos. Solar-Terr. Phys.*, 138-139, 136-160, doi:[10.1016/j.jastp.2016.01.006](https://doi.org/10.1016/j.jastp.2016.01.006), 2016.
580. Alexander, S. P., K. Sato, S. Watanabe, Y. Kawatani, and D. J. Murphy, Southern Hemisphere extra-tropical gravity wave sources and intermittency revealed by a middle atmosphere General Circulation Model, *J. Atmos. Sci.*, 73, 3, 1335-1349, doi:[10.1175/JAS-D-15-0149.1](https://doi.org/10.1175/JAS-D-15-0149.1), 2016.
581. Ammosova, A. M., G. A. Gavrilyeva, P. P. Ammosov, and I. I. Koltovskoi, The influence of solar activity on the seasonal variation of the temperature of high latitude mesopause over Yakutia, *Proc. SPIE* 10035, 22nd International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics, 1003560, doi:[10.1117/12.2248797](https://doi.org/10.1117/12.2248797), 2016.
582. Anderson, P. C., and J. M. Hawkins, Topside ionospheric response to solar EUV variability, *J. Geophys. Res. Space Physics*, 121, 2, 1518-1529, doi:[10.1002/2015JA021202](https://doi.org/10.1002/2015JA021202), 2016.
583. Aruna, K., T. V. L. Kumar, B. V. K. Murthy, S. Suresh Babu, M. V. Ratnam, and D. N. Rao, Short wave Aerosol Radiative Forcing estimates over a semi urban coastal environment in south-east India and validation with surface flux measurements, *Atmos. Environ.*, 125, Part B, 418-428, doi:[10.1016/j.atmosenv.2015.08.085](https://doi.org/10.1016/j.atmosenv.2015.08.085), 2016.
584. Astafyeva, E., I. Zakharenkova, and P. Alken, Prompt penetration electric fields and the extreme topside ionospheric response to the June 22–23, 2015 geomagnetic storm as seen by the Swarm constellation, *Earth, Planets and Space*, 68.1, 152, doi:[10.1186/s40623-016-0526-x](https://doi.org/10.1186/s40623-016-0526-x), 2016.
585. Azeem, I., R. L. Walterscheid, G. Crowley, R. L. Bishop, and A. B. Christensen, Observations of the migrating semidiurnal and quaddiurnal tides from the RAIDS/NIRS instrument, *J. Geophys. Res. Space Physics*, 121, 5, 4626–4637, doi:[10.1002/2015JA022240](https://doi.org/10.1002/2015JA022240), 2016.
586. Ball, W. T., A. Kuchař, E. V. Rozanov, J. Staehelin, F. Tummon, A. K. Smith, T. Sukhodolov, A. Stenke, L. Revell, A. Coulon, W. Schmutz, and T. Peter, An upper-branch Brewer–Dobson circulation index for attribution of stratospheric variability and improved ozone and temperature trend analysis, *Atmos. Chem. Phys.*, 16, 24, 15485-15500, doi:[10.5194/acp-16-15485-2016](https://doi.org/10.5194/acp-16-15485-2016), 2016.
587. Carter, J. A., S. E. Milan, J. C. Coxon, M.-T. Walach, and B. J. Anderson, Average field-aligned current configuration parameterized by solar wind conditions, *J. Geophys. Res. Space Physics*, 121, 1294–1307, doi:[10.1002/2015JA021567](https://doi.org/10.1002/2015JA021567), 2016.
588. Cessateur, G., J. D. Keyser, R. Maggiolo, A. Gibbons, G. Gronoff, H. Gunell, F. Dhooghe, J. Loreau, N. Vaeck, K. Altwegg, A. Bieler, C. Briois, U. Calmonte, M. R. Combo, B. Fiethe, S. A. Fuselier, T. I. Gombosi, M. Hässig, L. Le Roy, E. Neefs, M. Rubin, and T. Sémon, Photochemistry of forbidden oxygen lines in the inner coma of 67P/Churyumov-Gerasimenko, *J. Geophys. Res. Space Physics*, 121, 804–816, doi:[10.1002/2015JA022013](https://doi.org/10.1002/2015JA022013), 2016.
589. Cessateur, G., M. Barthelemy, and I. Peinke, Photochemistry-emission coupled model for Europa and Ganymede, *J. Space Weather & Space Clim.*, 6, A17, doi:[10.1051/swsc/2016009](https://doi.org/10.1051/swsc/2016009), 2016.
590. Chang, L. C., Y.-Y. Sun, J. Yue, J. C. Wang, and S.-H. Chien, Coherent seasonal, annual, and quasi-biennial variations in ionospheric tidal/SPW amplitudes, *J. Geophys. Res. Space Physics*, 121, 6970–6985, doi:[10.1002/2015JA022249](https://doi.org/10.1002/2015JA022249), 2016.
591. Chartier, A. T., T. Matsuo, J. L. Anderson, N. Collins, T. J. Hoar, G. Lu, C. N. Mitchell, A. J. Coster, L. J. Paxton, and G. S. Bust, Ionospheric Data Assimilation and Forecasting During Storms, *J. Geophys. Res. Space Physics*, 121, 764-778, doi:[10.1002/2014JA020799](https://doi.org/10.1002/2014JA020799), 2016.

592. Chen, C. H., C. H. Lin, T. Matsuo, W. H. Chen, I. T. Lee, J. Y. Liu, J. T. Lin, and C. T. Hsu, Ionospheric data assimilation with thermosphere-ionosphere-electrodynamics general circulation model and GPS-TEC during geomagnetic storm conditions, *J. Geophys. Res. Space Physics*, *121*, 5708–5722, doi:[10.1002/2015JA021787](https://doi.org/10.1002/2015JA021787), 2016.
593. Chen, Y., W. Wang, N. Qiu, S. Liu, J. Gong, and W. Huang, The observation and simulation of ionospheric response to CIR/high-speed streams-induced geomagnetic activity on 4 April 2005, *Radio Sci.*, *51*, 1297–1311, doi:[10.1002/2015RS005937](https://doi.org/10.1002/2015RS005937), 2016.
594. Chen, Z., J. Xu, X. Hu, H. Chen, W. Chen, K. Wei, J. Bian, W. Tian, S. Zhang, R. Ren, and X. Dou, Advances in the Researches of the Middle and Upper Atmosphere in China in 2014–2016, *Chinese Journal of Space Science*, *36*, 5, 738–752, doi:[10.11728/cjss2016.05.738](https://doi.org/10.11728/cjss2016.05.738), 2016.
595. Cherniak, I., and I. Zakharenkova, High-latitude ionospheric irregularities: differences between ground-and space-based GPS measurements during the 2015 St. Patrick’s Day storm, *Earth, Planets and Space*, *68*, 1, 136, doi:[10.1186/s40623-016-0506-1](https://doi.org/10.1186/s40623-016-0506-1), 2016.
596. Cullens, C. Y., S. L. England, and R. R. Garcia, The 11 year solar cycle signature on wave-driven dynamics in WACCM, *J. Geophys. Res. Space Physics*, *121*, 4, 3484–3496, doi:[10.1002/2016JA022455](https://doi.org/10.1002/2016JA022455), 2016.
597. Dalin, P., N. Gavrilov, N. Pertsev, V. Perminov, A. Pogoreltsev, N. Shevchuk, A. Dubietis, P. Völger, M. Zalcik, A. Ling, S. Kulikov, A. Zadorozhny, G. Salakhutdinov, and I. Grigoryeva, A case study of long gravity wave crests in noctilucent clouds and their origin in the upper tropospheric jet stream, *J. Geophys. Res. Atmos.*, *121*, 14, 102–14, 116, doi:[10.1002/2016JD025422](https://doi.org/10.1002/2016JD025422), 2016.
598. Dawkins, E. C. M., J. M. C. Plane, M. P. Chipperfield, W. Feng, D. R. Marsh, J. Höffner, and D. Janches, Solar cycle response and long-term trends in the mesospheric metal layers, *J. Geophys. Res. Space Physics*, *121*, 7153–7165, doi:[10.1002/2016JA022522](https://doi.org/10.1002/2016JA022522), 2016.
599. de Wit, R. J., D. Janches, D. C. Fritts, and R. E. Hibbins, QBO modulation of the mesopause gravity wave momentum flux over Tierra del Fuego, *Geophys. Res. Lett.*, *43*, 8, 4049–4055, doi:[10.1002/2016GL068599](https://doi.org/10.1002/2016GL068599), 2016.
600. Denton, M. H., and J. E. Borovsky, The response of the inner magnetosphere to the trailing edges of high-speed solar-wind streams, *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA023592](https://doi.org/10.1002/2016JA023592), 2016.
601. Eckermann, S. D., D. Broutman, J. Ma, J. D. Doyle, P.-D. Pautet, M. J. Taylor, K. Bossert, B. P. Williams, D. C. Fritts, and R. B. Smith, Dynamics of Orographic Gravity Waves Observed in the Mesosphere over the Auckland Islands during the Deep Propagating Gravity Wave Experiment (DEEPWAVE), *J. Atmos. Sci.*, *73*, 10, 3855–3876, doi:[10.1175/JAS-D-16-0059.1](https://doi.org/10.1175/JAS-D-16-0059.1), 2016.
602. Elhaway, R., and J. M. Forbes, Planetary wave variability of Sq currents, *J. Geophys. Res. Space Physics*, *121*, 11, 11, 316–11, 332, doi:[10.1002/2016JA023242](https://doi.org/10.1002/2016JA023242), 2016.
603. Ern, M., Q. T. Trinh, M. Kaufmann, I. Krisch, P. Preusse, J. Ungermann, Y. Zhu, J. C. Gille, M. G. Mlynczak, J. M. Russell III, M. J. Schwartz, and M. Riese, Satellite observations of middle atmosphere gravity wave absolute momentum flux and of its vertical gradient during recent stratospheric warmings, *Atmos. Chem. Phys.*, *16*, 15, 9983–10019, doi:[10.5194/acp-16-9983-2016](https://doi.org/10.5194/acp-16-9983-2016), 2016.
604. Eswaraiyah, S., Y. H. Kim, J. Hong, J.-H. Kim, M. V. Ratnam, A. Chandran, S. V. B. Rao, and D. Riggan, Mesospheric signatures observed during 2010 minor stratospheric warming at King Sejong Station (62°S, 59°W), *J. Atmos. Solar-Terr. Phys.*, *140*, 55–64, doi:[10.1016/j.jastp.2016.02.007](https://doi.org/10.1016/j.jastp.2016.02.007), 2016.
605. Fadnavis, S., W. Feng, G. G. Shepherd, J. M. C. Plane, S. Sonbawne, C. Roy, S. Dhomse, and S. D. Ghude, Preliminary observations and simulation of nocturnal variations of airglow temperature and emission rates at Pune (18.5°N), India, *J. Atmos. Solar-Terr. Phys.*, *149*, 59–68, doi:[10.1016/j.jastp.2016.10.002](https://doi.org/10.1016/j.jastp.2016.10.002), 2016.

606. Fagundes, P. R., F. A. Cardoso, B. G. Fejer, K. Venkatesh, B. A. G. Ribeiro, and V. G. Pillat, Positive and negative GPS-TEC ionospheric storm effects during the extreme space weather event of March 2015 over the Brazilian sector, *J. Geophys. Res. Space Physics*, *121*, 5613–5625, doi:[10.1002/2015JA022214](https://doi.org/10.1002/2015JA022214), 2016.
607. Fan, Z. Q., Z. Sheng, H. Q. Shi, X. H. Zhang, and C. J. Zhou, A Characterization of the Quality of the Stratospheric Temperature Distributions from SABER based on Comparisons with COSMIC Data, *J. Atmos. Oceanic Technol.*, *33*, 11, 2401–2413, doi:[10.1175/JTECH-D-16-0085.1](https://doi.org/10.1175/JTECH-D-16-0085.1), 2016.
608. Fritts, D. C., R. B. Smith, M. J. Taylor, J. D. Doyle, S. D. Eckermann, A. Dörnbrack, M. Rapp, B. P. Williams, P.-D. Pautet, K. Bossert, N. R. Criddle, C. A. Reynolds, P. A. Reinecke, M. Uddstrom, M. J. Revell, R. Turner, B. Kaifler, J. S. Wagner, T. Mixa, C. G. Kruse, A. D. Nugent, C. D. Watson, S. Gisinger, S. M. Smith, R. S. Lieberman, B. Laughman, J. J. Moore, W. O. Brown, J. A. Haggerty, A. Rockwell, G. J. Stossmeister, S. F. Williams, G. Hernandez, D. J. Murphy, A. R. Klekociuk, I. M. Reid, and J. Ma, The Deep Propagating Gravity Wave Experiment (DEEPWAVE): An Airborne and Ground-Based Exploration of Gravity Wave Propagation and Effects from their Sources throughout the Lower and Middle Atmosphere, *Bulletin of the American Meteorological Society*, *97*, 3, 425–453, doi:[10.1175/BAMS-D-14-00269.1](https://doi.org/10.1175/BAMS-D-14-00269.1), 2016.
609. Funatsu, B. M., C. Claud, P. Keckhut, A. Hauchecorne, and T. Leblanc, Regional and seasonal stratospheric temperature trends in the last decade (2002–2014) from AMSU observations, *J. Geophys. Res. Atmos.*, *121*, 14, 8172–8185, doi:[10.1002/2015JD024305](https://doi.org/10.1002/2015JD024305), 2016.
610. Gao, H., J. Xu, and G.-M. Chen, The responses of the nightglow emissions observed by the TIMED/SABER satellite to solar radiation, *J. Geophys. Res. Space Physics*, *121*, 2, 1627–1642, doi:[10.1002/2015JA021624](https://doi.org/10.1002/2015JA021624), 2016.
611. Garcia, R. R., A. K. Smith, D. E. Kinnison, Á. de la Cámara, and D. J. Murphy, Modification of the Gravity Wave Parameterization in the Whole Atmosphere Community Climate Model: Motivation and Results, *J. Atmos. Sci.*, *74*, 1, 275–291, doi:[10.1175/JAS-D-16-0104.1](https://doi.org/10.1175/JAS-D-16-0104.1), 2016.
612. Garcia, R. R., M. López-Puertas, B. Funke, D. E. Kinnison, D. R. Marsh, and L. Qian, On the secular trend of CO_x and CO₂ in the lower thermosphere, *J. Geophys. Res. Atmos.*, *121*, 7, 3634–3644, doi:[10.1002/2015JD024553](https://doi.org/10.1002/2015JD024553), 2016.
613. García-Comas, M., F. González-Galindo, B. Funke, A. Gardini, A. Jurado-Navarro, M. López-Puertas, and W. E. Ward, MIPAS observations of longitudinal oscillations in the mesosphere and the lower thermosphere: climatology of odd-parity daily frequency modes, *Atmos. Chem. Phys.*, *16*, 17, 11019–11041, doi:[10.5194/acp-16-11019-2016](https://doi.org/10.5194/acp-16-11019-2016), 2016.
614. García-Comas, M., M. López-Puertas, B. Funke, Á. A. Jurado-Navarro, A. Gardini, G. P. Stiller, T. von Clarmann, and M. Höpfner, Measurements of global distributions of polar mesospheric clouds during 2005–2012 by MIPAS/Envisat, *Atmos. Chem. Phys.*, *16*, 11, 6701–6719, doi:[10.5194/acp-16-6701-2016](https://doi.org/10.5194/acp-16-6701-2016), 2016.
615. Gardner, C. S., and A. Z. Liu, Chemical transport of neutral atmospheric constituents by waves and turbulence: Theory and observations, *J. Geophys. Res. Atmos.*, *121*, 494–520, doi:[10.1002/2015JD023145](https://doi.org/10.1002/2015JD023145), 2016.
616. Gardner, C. S., and F. A. Vargas, OH* imager response to turbulence-induced temperature fluctuations, *J. Geophys. Res. Atmos.*, *121*, 13, 919–13,935, doi:[10.1002/2016JD025453](https://doi.org/10.1002/2016JD025453), 2016.
617. Gardner, C. S., and W. Huang, Impact of horizontal transport, temperature, and PMC uptake on mesospheric Fe at high latitudes, *J. Geophys. Res. Atmos.*, *121*, 11, 6564–6580, doi:[10.1002/2015JD024674](https://doi.org/10.1002/2015JD024674), 2016.
618. Ghodpage, R. N., M. P. Hickey, A. K. Taori, D. Siingh, and P. T. Patil, Response of OH airglow emissions to mesospheric gravity waves and comparisons with full-wave model simulation at a low-latitude Indian station, *Atmos. Chem. Phys.*, *16*, 9, 5611–5621, doi:[10.5194/acp-16-5611-2016](https://doi.org/10.5194/acp-16-5611-2016), 2016.

619. Gordillo-Vázquez, F. J., A. Luque, and C. Haldoupis, Upper D region chemical kinetic modeling of LORE relaxation times, *J. Geophys. Res. Space Physics*, *121*, 4, 3525–3544, doi:[10.1002/2015JA021408](https://doi.org/10.1002/2015JA021408), 2016.
620. Gu, S.-Y., H. L. Liu, X. Dou, and T. Li, Influence of the sudden stratospheric warming on quasi-2-day waves, *Atmos. Chem. Phys.*, *16*, 4885–4896, doi:[10.5194/acp-16-4885-2016](https://doi.org/10.5194/acp-16-4885-2016), 2016.
621. Gu, S.-Y., H.-L. Liu, N. M. Pedatella, X. Dou, T. Li, and T. Chen, The quasi 2 day wave activities during 2007 austral summer period as revealed by Whole Atmosphere Community Climate Model, *J. Geophys. Res. Space Physics*, *121*, 2743–2754, doi:[10.1002/2015JA022225](https://doi.org/10.1002/2015JA022225), 2016.
622. Hervig, M. E., M. Gerding, M. H. Stevens, R. Stockwell, S. M. Bailey, J. M. Russell III, and G. Stober, Mid-latitude mesospheric clouds and their environment from SOFIE observations, *J. Atmos. Solar-Terr. Phys.*, *149*, 1–14, doi:[10.1016/j.jastp.2016.09.004](https://doi.org/10.1016/j.jastp.2016.09.004), 2016.
623. Hocke, K., M. Lainer, L. Moreira, J. Hagen, S. F. Vidal, and F. Schranz, Atmospheric inertia-gravity waves retrieved from level-2 data of the satellite microwave limb sounder Aura/MLS, *Ann. Geophys.*, *34*, 9, 781–788, doi:[10.5194/angeo-34-781-2016](https://doi.org/10.5194/angeo-34-781-2016), 2016.
624. Hocking, W. K., R. E. Silber, J. M. C. Plane, W. Feng, and M. Garbanzo-Salas, Decay times of transitionally dense specularly reflecting meteor trails and potential chemical impact on trail lifetimes, *Ann. Geophys.*, *34*, 12, 1119–1144, doi:[10.5194/angeo-34-1119-2016](https://doi.org/10.5194/angeo-34-1119-2016), 2016.
625. Huang, C. Y., Y. Huang, Y.-J. Su, E. K. Sutton, M. R. Hairston, and W. R. Coley, Ionosphere-thermosphere (IT) response to solar wind forcing during magnetic storms, *J. Space Weather & Space Clim.*, *6*, A4, doi:[10.1051/swsc/2015041](https://doi.org/10.1051/swsc/2015041), 2016.
626. Huang, C.-S., G. R. Wilson, M. R. Hairston, Y. Zhang, W. Wang, and J. Liu, Equatorial ionospheric plasma drifts and O⁺ concentration enhancements associated with disturbance dynamo during the 2015 St. Patrick's Day magnetic storm, *J. Geophys. Res. Space Physics*, *121*, 7961–7973, doi:[10.1002/2016JA023072](https://doi.org/10.1002/2016JA023072), 2016.
627. Huang, F. T., H. G. Mayr, J. M. Russell III, and M. G. Mlynczak, Ozone and temperature decadal responses to solar variability in the stratosphere and lower mesosphere, based on measurements from SABER on TIMED, *Ann. Geophys.*, *34*, 9, 801–813, doi:[10.5194/angeo-34-801-2016](https://doi.org/10.5194/angeo-34-801-2016), 2016.
628. Huang, J., Y. Hao, D. Zhang, and Z. Xiao, Changes of solar extreme ultraviolet spectrum in solar cycle 24, *J. Geophys. Res. Space Physics*, *121*, 6844–6854, doi:[10.1002/2015JA022231](https://doi.org/10.1002/2015JA022231), 2016.
629. Huang, T.-Y., Simulations of airglow variations induced by the CO₂ increase and solar cycle variation from 1980 to 1991, *J. Atmos. Solar-Terr. Phys.*, *147*, 138–147, doi:[10.1016/j.jastp.2016.07.014](https://doi.org/10.1016/j.jastp.2016.07.014), 2016.
630. Jacobi, C., N. Jakowski, G. Schmidtke, and T. N. Woods, Delayed response of global total electron content to solar EUV variations, *Adv. Radio Sci.*, *14*, 175–180, doi:[10.5194/ars-14-175-2016](https://doi.org/10.5194/ars-14-175-2016), 2016.
631. Jia, M., X. Xue, X. Dou, Y. Tang, C. Yu, J. Wu, J. Xu, G. Yang, B. Ning, and L. Hoffmann, A case study of A mesoscale gravity wave in the MLT region using simultaneous multi-instruments in Beijing, *J. Atmos. Solar-Terr. Phys.*, *140*, 1–9, doi:[10.1016/j.jastp.2016.01.007](https://doi.org/10.1016/j.jastp.2016.01.007), 2016.
632. Jia, Y., S. D. Zhang, F. Yi, C. Ming H., K. M. Huang, Y. Gong, and Q. Gan, Variations of Kelvin waves around the TTL region during the stratospheric sudden warming events in the Northern Hemisphere winter, *Ann. Geophys.*, *34*, 3, 331–345, doi:[10.5194/angeo-34-331-2016](https://doi.org/10.5194/angeo-34-331-2016), 2016.
633. Jiao, J., G. T. Yang, J. Wang, Z. Wang, and Y. Yang, Occurrence and characteristics of sporadic K layer observed by lidar over Beijing, China, *Science China Earth Sciences*, *59*, 3, 540–547, doi:[10.1007/s11430-015-5201-8](https://doi.org/10.1007/s11430-015-5201-8), 2016.

634. Jin, Y., X. Zhou, J. I. Moen, and M. Hairston, The auroral ionosphere TEC response to an interplanetary shock, *Geophys. Res. Lett.*, *43*, 1810–1818, doi:[10.1002/2016GL067766](https://doi.org/10.1002/2016GL067766), 2016.
635. John, S. R., and K. K. Kumar, Global normal mode planetary wave activity: a study using TIMED/SABER observations from the stratosphere to the mesosphere-lower thermosphere, *Climate Dynamics*, *47*, 12, 3863–3881, doi:[10.1007/s00382-016-3046-2](https://doi.org/10.1007/s00382-016-3046-2), 2016.
636. John, S. R., and K. K. Kumar, HIRDLS observations of global gravity wave absolute momentum fluxes: A wavelet based approach, *J. Atmos. Solar-Terr. Phys.*, *138–139*, 74–86, doi:[10.1016/j.jastp.2015.12.004](https://doi.org/10.1016/j.jastp.2015.12.004), 2016.
637. Jones, M., J. M. Forbes, and M. E. Hagan, Solar cycle variability in mean thermospheric composition and temperature induced by atmospheric tides, *J. Geophys. Res. Space Physics*, *121*, 6, 5837–5855, doi:[10.1002/2016JA022701](https://doi.org/10.1002/2016JA022701), 2016.
638. Jones, M., J. T. Emmert, D. P. Drob, and D. E. Siskind, Middle atmosphere dynamical sources of the semiannual oscillation in the thermosphere and ionosphere, *Geophys. Res. Lett.*, *43*, doi:[10.1002/2016GL071741](https://doi.org/10.1002/2016GL071741), 2016.
639. Kalisch, S., H.-Y. Chun, M. Ern, P. Preusse, Q. T. Trinh, S. D. Eckermann, and M. Riese, Comparison of simulated and observed convective gravity waves, *J. Geophys. Res. Atmos.*, *121*, 22, 13,474–13,492, doi:[10.1002/2016JD025235](https://doi.org/10.1002/2016JD025235), 2016.
640. Kalita, B. R., R. Hazarika, G. Kakoti, P. K. Bhuyan, D. Chakrabarty, G. K. Seemala, K. Wang, S. Sharma, T. Yokoyama, P. Supnithi, T. Komolmis, C. Y. Yatini, M. Le Huy, and P. Roy, Conjugate hemisphere ionospheric response to the St. Patrick's Day storms of 2013 and 2015 in the 100°E longitude sector, *J. Geophys. Res. Space Physics*, *121*, 11,364–11,390, doi:[10.1002/2016JA023119](https://doi.org/10.1002/2016JA023119), 2016.
641. Kalogerakis, K. S., D. Matsiev, R. D. Sharma, and P. P. Wintersteiner, Resolving the mesospheric nighttime 4.3 μm emission puzzle: Laboratory demonstration of new mechanism for OH(v) relaxation, *Geophys. Res. Lett.*, *43*, 17, 8835–8843, doi:[10.1002/2016GL069645](https://doi.org/10.1002/2016GL069645), 2016.
642. Kil, H., E. S. Miller, G. Jee, Y.-S. Kwak, Y. Zhang, and M. Nishioka, Comment on “The night when the auroral and equatorial ionospheres converged” by Martinis, C., et al., *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA022662](https://doi.org/10.1002/2016JA022662), 2016.
643. Kishore, P., I. Velicogna, M. V. Ratnam, G. Basha, T. B. M. J. Ouarda, S. P. Namboothiri, J. H. Jiang, T. C. Sutterley, G. N. Madhavi, and S. V. B. Rao, Sudden stratospheric warmings observed in the last decade by satellite measurements, *Remote Sensing of Environment*, *184*, 263–275, doi:[10.1016/j.rse.2016.07.008](https://doi.org/10.1016/j.rse.2016.07.008), 2016.
644. Kramer, R., S. Wüst, and M. Bittner, Investigation of gravity wave activity based on operational radiosonde data from 13 years (1997–2009): Climatology and possible induced variability, *J. Atmos. Solar-Terr. Phys.*, *140*, 23–33, doi:[10.1016/j.jastp.2016.01.014](https://doi.org/10.1016/j.jastp.2016.01.014), 2016.
645. Krivolutsky, A. A., and A. A. Kukoleva, Results of Russian investigations into the middle atmosphere (2011–2014), *Izvestiya, Atmospheric and Oceanic Physics*, *52*, 5, 497–511, doi:[10.1134/S000143381605008X](https://doi.org/10.1134/S000143381605008X), 2016.
646. Kutiev, I., P. Marinov, and A. Belehaki, Real time 3-D electron density reconstruction over Europe by using TaD profiler, *Radio Sci.*, *51*, 1176–1187, doi:[10.1002/2015RS005932](https://doi.org/10.1002/2015RS005932), 2016.
647. Laundal, K. M., I. Cnossen, S. E. Milan, S. E. Haaland, J. Coxon, N. M. Pedatella, M. Förster, and J. P. Reistad, North–South Asymmetries in Earth’s Magnetic Field, *Space Sci. Rev.*, *206*, 225–257., doi:[10.1007/s11214-016-0273-0](https://doi.org/10.1007/s11214-016-0273-0), 2016.
648. Lee, J. N., R. F. Cahalan, and D. L. Wu, Solar rotational modulations of spectral irradiance and correlations with the variability of total solar irradiance, *J. Space Weather & Space Clim.*, *6*, 27, A33, doi:[10.1051/swsc/2016028](https://doi.org/10.1051/swsc/2016028), 2016.
649. Li, H. Y., C. M. Huang, S. D. Zhang, K. M. Huang, Y. Zhang, Y. Gong, Q. Gan, and Y. Jia, Low-frequency oscillations of the gravity wave energy density in the lower atmosphere at low

- latitudes revealed by U.S. radiosonde data, *J. Geophys. Res. Atmos.*, *121*, 22, 13,458–13,473, doi:[10.1002/2016JD025435](https://doi.org/10.1002/2016JD025435), 2016.
650. Li, Q., J. Xu, X. Liu, W. Yuan, and J. Chen, Characteristics of mesospheric gravity waves over the southeastern Tibetan Plateau region, *J. Geophys. Res. Space Physics*, *121*, 9, 9204–922, doi:[10.1002/2016JA022823](https://doi.org/10.1002/2016JA022823), 2016.
651. Li, T., N. Calvo, J. Yue, J. M. Russell III, A. K. Smith, M. G. Mlynczak, A. Chandran, X. Dou, and A. Z. Liu, Southern Hemisphere Summer Mesopause Responses to El Niño–Southern Oscillation, *J. Climate*, *29*, 17, 6319–6328, doi:[10.1175/JCLI-D-15-0816.1](https://doi.org/10.1175/JCLI-D-15-0816.1), 2016.
652. Li, Y., X. Lin, S. Song, Y. Yang, X. Cheng, Z. Chen, L. Liu, Y. Xia, J. Xiong, S. Gong, and F. Li, A Combined Rotational Raman-Rayleigh Lidar for Atmospheric Temperature Measurements Over 5–80 km With Self-Calibration, *IEEE Transactions on Geoscience and Remote Sensing*, *54*, 12, 7055–7065, doi:[10.1109/TGRS.2016.2594828](https://doi.org/10.1109/TGRS.2016.2594828), 2016.
653. Limpasuvan, V., Y. J. Orsolini, A. Chandran, R. R. Garcia, and A. K. Smith, On the composite response of the MLT to major sudden stratospheric warming events with elevated stratopause, *J. Geophys. Res. Atmos.*, *121*, 9, 4518–4537, doi:[10.1002/2015JD024401](https://doi.org/10.1002/2015JD024401), 2016.
654. Lin, C. Y., S. M. Bailey, A. Jones, D. Woodraska, A. Caspi, T. N. Woods, F. G. Eparvier, S. R. Wieman, and L. V. Didkovsky, Soft X-ray irradiance measured by the Solar Aspect Monitor on the Solar Dynamic Observatory Extreme ultraviolet Variability Experiment, *J. Geophys. Res. Space Physics*, *121*, 3648–3664, doi:[10.1002/2015JA021726](https://doi.org/10.1002/2015JA021726), 2016.
655. Liu, H.-L., Variability and predictability of the space environment as related to lower atmosphere forcing, *Space Weather*, *14*, 634–658, doi:[10.1002/2016SW001450](https://doi.org/10.1002/2016SW001450), 2016.
656. Liu, M., J. Xu, H. Liu, and X. Liu, Possible modulation of migrating diurnal tide by latitudinal gradient of zonal wind observed by SABER/TIMED, *Science China Earth Sciences*, *59*, 2, 408–417, doi:[10.1007/s11430-015-5185-4](https://doi.org/10.1007/s11430-015-5185-4), 2016.
657. Liu, X., J. Yue, J. Xu, W. Yuan, J. M. Russell III, M. E. Hervig, and T. Nakamura, Persistent longitudinal variations in 8 years of CIPS/AIM polar mesospheric clouds, *J. Geophys. Res. Atmos.*, *121*, 8390–8409, doi:[10.1002/2015JD024624](https://doi.org/10.1002/2015JD024624), 2016.
658. Liu, Y., J. Peng, K. Reppert, S. Callahan, and G. P. Smith, Laser Measurements of the H Atom + Ozone Rate Constant at Mesospheric Temperatures, *The Journal of Physical Chemistry A*, *120*, 22, 3855–3860, doi:[10.1021/acs.jpca.6b02986](https://doi.org/10.1021/acs.jpca.6b02986), 2016.
659. Love, P. T., and D. J. Murphy, Gravity wave momentum flux in the mesosphere measured by VHF radar at Davis, Antarctica, *J. Geophys. Res. Atmos.*, *121*, 21, 12,723–12,736, doi:[10.1002/2016JD025627](https://doi.org/10.1002/2016JD025627), 2016.
660. Lu, G., A. D. Richmond, H. Lühr, and L. J. Paxton, High-latitude energy input and its impact on the thermosphere, *J. Geophys. Res. Space Physics*, *121*, 7108–7124, doi:[10.1002/2015JA022294](https://doi.org/10.1002/2015JA022294), 2016.
661. Luan, X., W. Wang, A. Burns, and X. Dou, Universal time variations of the auroral hemispheric power and their interhemispheric asymmetry from TIMED/GUVI observations, *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA022730](https://doi.org/10.1002/2016JA022730), 2016.
662. Mangogna, A., G. Swenson, F. Vargas, and A. Liu, A mesospheric airglow multichannel photometer and an optical method to measure mesospheric AGW intrinsic parameters, *J. Atmos. Solar-Terr. Phys.*, *142*, 108–119, doi:[10.1016/j.jastp.2016.02.018](https://doi.org/10.1016/j.jastp.2016.02.018), 2016.
663. Mann, I., I. Häggström, A. Tjulin, S. Rostami, C. C. Anyairo, and P. Dalin, First wind shear observation in PMSE with the tristatic EISCAT VHF radar, *J. Geophys. Res. Space Physics*, *121*, 11, 11,271–11,281, doi:[10.1002/2016JA023080](https://doi.org/10.1002/2016JA023080), 2016.
664. Mansilla, G. A., and M. M. Zossi, Some ionospheric storm effects at an antarctic station, *Adv. Space Res.*, *57*, 6, 1319–1327, doi:[10.1016/j.asr.2015.05.028](https://doi.org/10.1016/j.asr.2015.05.028), 2016.
665. Martinis, C., J. Baumgardner, M. Mendillo, J. Wroten, A. J. Coster, and L. J. Paxton, Reply to comment by Kil et al. on “The night when the auroral and equatorial ionospheres converged, *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA022914](https://doi.org/10.1002/2016JA022914), 2016.

666. Masutti, D., G. March, A. J. Ridley, and J. Thoenel, Effect of the solar activity variation on the Global Ionosphere Thermosphere Model (GITM), *Ann. Geophys.*, *34*, 9, 725-736, doi:[10.5194/angeo-34-725-2016](https://doi.org/10.5194/angeo-34-725-2016), 2016.
667. Matamba, T. M., J. B. Habarulema, and D. Burešová, Midlatitude ionospheric changes to four great geomagnetic storms of solar cycle 23 in Southern and Northern Hemispheres, *Space Weather*, *14*, 1155–1171, doi:[10.1002/2016SW001516](https://doi.org/10.1002/2016SW001516), 2016.
668. McGranaghan, R., D. J. Knipp, T. Matsuo, and E. Cousins, Optimal interpolation analysis of high-latitude ionospheric Hall and Pedersen conductivities: Application to assimilative ionospheric electrodynamics reconstruction, *J. Geophys. Res. Space Physics*, *121*, 4898–4923, doi:[10.1002/2016JA022486](https://doi.org/10.1002/2016JA022486), 2016.
669. Medeiros, A. F., I. Paulino, M. J. Taylor, J. Fechine, H. Takahashi, R. A. Buriti, L. M. Lima, and C. M. Wrasse, Twin mesospheric bores observed over Brazilian equatorial region, *Ann. Geophys.*, *34*, 1, 91-96, doi:[10.5194/angeo-34-91-2016](https://doi.org/10.5194/angeo-34-91-2016), 2016.
670. Megner, L., O. M. Christensen, B. Karlsson, S. Benze, and V. I. Fomichev, Comparison of retrieved noctilucent cloud particle properties from Odin tomography scans and model simulations, *Atmos. Chem. Phys.*, *16*, 23, 15135-15146, doi:[10.5194/acp-16-15135-2016](https://doi.org/10.5194/acp-16-15135-2016), 2016.
671. Meraner, K., and H. Schmidt, Transport of nitrogen oxides through the winter mesopause in HAMMONIA, *J. Geophys. Res. Atmos.*, *121*, 6, 2556–2570, doi:[10.1002/2015JD024136](https://doi.org/10.1002/2015JD024136), 2016.
672. Mlynczak, M. G., L. A. Hunt, J. M. Russell III, B. T. Marshall, C. J. Mertens, and R. E. Thompson, The global infrared energy budget of the thermosphere from 1947 to 2016 and implications for solar variability, *Geophys. Res. Lett.*, *11*, 934–11,940, doi:[10.1002/2016GL070965](https://doi.org/10.1002/2016GL070965), 2016.
673. Moreira, L., K. Hocke, F. Navas-Guzmán, E. Eckert, T. von Clarmann, and N. Kämpfer, The natural oscillations in stratospheric ozone observed by the GROMOS microwave radiometer at the NDACC station Bern, *Atmos. Chem. Phys.*, *16*, 16, 10455-10467, doi:[10.5194/acp-16-10455-2016](https://doi.org/10.5194/acp-16-10455-2016), 2016.
674. Moro, J., C. M. Denardini, L. C. A. Resende, S. S. Chen, and N. J. Schuch, Equatorial *E* region electric fields at the dip equator: 1. Variabilities in eastern Brazil and Peru, *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA022751](https://doi.org/10.1002/2016JA022751), 2016.
675. Nava, B., J. Rodríguez-Zuluaga, K. Alazo-Cuartas, A. Kashcheyev, Y. Migoya-Orué, S. M. Radicella, C. Amory-Mazaudier, and R. Fleury, Middle- and low-latitude ionosphere response to 2015 St. Patrick's Day geomagnetic storm, *J. Geophys. Res. Space Physics*, *121*, 3421–3438, doi:[10.1002/2015JA022299](https://doi.org/10.1002/2015JA022299), 2016.
676. Nayak, C., L.-C. Tsai, S.-Y. Su, I. A. Galkin, A. T. K. Tan, E. Nofri, and P. Jamjareegulgarn, Peculiar features of the low-latitude and midlatitude ionospheric response to the St. Patrick's Day geomagnetic storm of 17 March 2015, *J. Geophys. Res. Space Physics*, *121*, 7941–7960, doi:[10.1002/2016JA022489](https://doi.org/10.1002/2016JA022489), 2016.
677. Nesterov, I. A., A. M. Padokhin, E. S. Andreeva, and S. A. Kalashnikova, Modeling the problem of low-orbital satellite UV-tomography of the ionosphere, *Moscow Univ. Phys.*, *71*, 329-338, doi:[10.3103/S0027134916030103](https://doi.org/10.3103/S0027134916030103), 2016.
678. Newnham, D. A., G. P. Ford, T. Moffat-Griffin, and H. C. Pumphrey, Simulation study for measurement of horizontal wind profiles in the polar stratosphere and mesosphere using ground-based observations of ozone and carbon monoxide lines in the 230–250 GHz region, *Atmospheric Measurement Techniques*, *9*, 3309-3323, doi:[10.5194/amt-9-3309-2016](https://doi.org/10.5194/amt-9-3309-2016), 2016.
679. Nguyen, V. A., S. E. Palo, R. S. Lieberman, J. M. Forbes, D. A. Ortland, and D. E. Siskind, Generation of secondary waves arising from nonlinear interaction between the quasi 2-day wave and the migrating diurnal tide, *J. Geophys. Res. Atmos.*, *121*, 13, 7762–7780, doi:[10.1002/2016JD024794](https://doi.org/10.1002/2016JD024794), 2016.

680. Noll, S., W. Kausch, S. Kimeswenger, S. Unterguggenberger, and A. M. Jones, Comparison of VLT/X-shooter OH and O₂ rotational temperatures with consideration of TIMED/SABER emission and temperature profiles, *Atmos. Chem. Phys.*, *16*, 5021–5042, doi:[10.5194/acp-16-5021-2016](https://doi.org/10.5194/acp-16-5021-2016), 2016.
681. Nossal, S. M., L. Qian, S. C. Solomon, A. G. Burns, and W. Wang, Thermospheric hydrogen response to increases in greenhouse gases, *J. Geophys. Res. Space Physics*, *121*, 3545–3554, doi:[10.1002/2015JA022008](https://doi.org/10.1002/2015JA022008), 2016.
682. Ohyama, H., T. Nagahama, A. Mizuno, H. Nakane, and H. Ogawa, Observations of stratospheric and mesospheric O₃ with a millimeter-wave radiometer at Rikubetsu, Japan, *Earth, Planets and Space*, *68*, *1*, 34, doi:[10.1186/s40623-016-0406-4](https://doi.org/10.1186/s40623-016-0406-4), 2016.
683. Oyama, K. I., M. Devi, K. Ryu, C. H. Chen, J. Y. Liu, H. Liu, L. Bankov, and T. Kodama, Modifications of the ionosphere prior to large earthquakes: report from the Ionosphere Precursor Study Group, *Geoscience Letters*, *3*, *1*, 6, doi:[10.1186/s40562-016-0038-3](https://doi.org/10.1186/s40562-016-0038-3), 2016.
684. Päivärinta, S.-M., P. T. Verronen, B. Funke, A. Gardini, A. Seppälä, and M. E. Andersson, Transport versus energetic particle precipitation: Northern polar stratospheric NO_x and ozone in January–March 2012, *J. Geophys. Res. Atmos.*, *121*, *10*, 6085–6100, doi:[10.1002/2015JD024217](https://doi.org/10.1002/2015JD024217), 2016.
685. Pancheva, D., P. Mukhtarov, and B. Andonov, Global structure of ionospheric TEC anomalies driven by geomagnetic storms, *J. Atmos. Solar-Terr. Phys.*, *145*, 170–182, doi:[10.1016/j.jastp.2016.04.015](https://doi.org/10.1016/j.jastp.2016.04.015), 2016.
686. Pancheva, D., P. Mukhtarov, D. E. Siskind, and A. K. Smith, Global distribution and variability of quasi 2 day waves based on the NOGAPS-ALPHA reanalysis model, *J. Geophys. Res. Space Physics*, *121*, *11*, 11,422–11,449, doi:[10.1002/2016JA023381](https://doi.org/10.1002/2016JA023381), 2016.
687. Pautet, P.-D., M. J. Taylor, D. C. Fritts, K. Bossert, B. P. Williams, D. Broutman, J. Ma, S. Eckermann, and J. Doyle, Large Amplitude Mesospheric Response to an Orographic Wave Generated Over the Southern Ocean Auckland Islands (50.7°S) During the DEEPWAVE Project, *J. Geophys. Res. Atmos.*, *121*, 1431–1441, doi:[10.1002/2015JD024336](https://doi.org/10.1002/2015JD024336), 2016.
688. Pedatella, N. M., J. Oberheide, E. K. Sutton, H.-L. Liu, J. L. Anderson, and K. Raeder, Short-term nonmigrating tide variability in the mesosphere, thermosphere, and ionosphere, *J. Geophys. Res. Space Physics*, *121*, *4*, 3621–3633, doi:[10.1002/2016JA022528](https://doi.org/10.1002/2016JA022528), 2016.
689. Perna, L., and M. Pezzopane, *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, *J. Atmos. Solar-Terr. Phys.*, *148*, 13–21, doi:[10.1016/j.jastp.2016.08.003](https://doi.org/10.1016/j.jastp.2016.08.003), 2016.
690. Peterson, W. K., E. M. B. Thiemann, F. G. Eparvier, L. Anderson, C. M. Fowler, D. Larson, D. Mitchell, C. Mazelle, J. Fontenia, J. S. Evans, S. Xu, M. Liemohn, S. Bougher, S. Sakai, T. E. Cravens, M. K. Elrod, M. Benna, P. Mahaffy, and B. Jakosky, Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations, *J. Geophys. Res. Space Physics*, *121*, 8859–8870, doi:[10.1002/2016JA022677](https://doi.org/10.1002/2016JA022677), 2016.
691. Picone, J. M., J. T. Emmert, and D. P. Drob, Consistent Static Models of Local Thermospheric Composition Profiles, [arXiv:1607.03370](https://arxiv.org/abs/1607.03370), submitted, 2016.
692. Polekh, N. M., N. A. Zolotukhina, E. B. Romanova, S. N. Ponomarchuk, V. I. Kurkin, and A. V. Podlesnyi, Ionospheric Effects of Magnetospheric and Thermospheric Disturbances on March 17–19, 2015, *Geomagn. Aeron.*, *56*, 557–571, doi:[10.1134/S0016793216040174](https://doi.org/10.1134/S0016793216040174), 2016.
693. Qian, L., A. G. Burns, S. C. Solomon, W. Wang, and Y. Zhang, Solar cycle variations of thermospheric composition at the solstices, *J. Geophys. Res. Space Physics*, *121*, 3740–3749, doi:[10.1002/2016JA022390](https://doi.org/10.1002/2016JA022390), 2016.
694. Qian, L., A. G. Burns, W. Wang, S. C. Solomon, and Y. Zhang, Longitudinal variations of thermospheric composition at the solstices, *J. Geophys. Res. Space Physics*, *121*, 6818–6829, doi:[10.1002/2016JA022898](https://doi.org/10.1002/2016JA022898), 2016.

695. Qian, L., A. G. Burns, W. Wang, S. C. Solomon, Y. Zhang, and V. Hsu, Effects of the equatorial ionosphere anomaly on the interhemispheric circulation in the thermosphere, *J. Geophys. Res. Space Physics*, *121*, 2522–2530, doi:[10.1002/2015JA022169](https://doi.org/10.1002/2015JA022169), 2016.
696. Qin, J., and L. Waldrop, Non-thermal hydrogen atoms in the terrestrial upper thermosphere, *Nat. Commun.* *7*, 13655, doi:[10.1038/ncomms13655](https://doi.org/10.1038/ncomms13655), 2016.
697. Qiu, S., Y. Tang, M. Jia, X. Xue, X. Dou, T. Li, and Y. Wang, A review of latitudinal characteristics of sporadic sodium layers, including new results from the Chinese Meridian Project, *Earth-Science Reviews*, *162*, 83–106, doi:[10.1016/j.earscirev.2016.07.004](https://doi.org/10.1016/j.earscirev.2016.07.004), 2016.
698. Randel, W. J., A. K. Smith, F. Wu, C.-Z. Zou, and H. Qian, Stratospheric Temperature Trends over 1979–2015 Derived from Combined SSU, MLS, and SABER Satellite Observations, *J. Climate*, *29*, 13, 4843–4859, doi:[10.1175/JCLI-D-15-0629.1](https://doi.org/10.1175/JCLI-D-15-0629.1), 2016.
699. Riggins, D. M., T. Tsuda, and A. Shinbori, Evaluation of momentum flux with radar, *J. Atmos. Solar-Terr. Phys.*, *142*, 98–107, doi:[10.1016/j.jastp.2016.01.013](https://doi.org/10.1016/j.jastp.2016.01.013), 2016.
700. Rüfenacht, R., K. Hocke, and N. Kämpfer, First continuous ground-based observations of long period oscillations in the vertically resolved wind field of the stratosphere and mesosphere, *Atmos. Chem. Phys.*, *16*, 4915–4925, doi:[10.5194/acp-16-4915-2016](https://doi.org/10.5194/acp-16-4915-2016), 2016.
701. Šácha, P., F. Lilienthal, C. Jacobi, and P. Pišoft, Influence of the spatial distribution of gravity wave activity on the middle atmospheric dynamics, *Atmos. Chem. Phys.*, *16*, 24, 15755–15775, doi:[10.5194/acp-16-15755-2016](https://doi.org/10.5194/acp-16-15755-2016), 2016.
702. Salinas, C. C. J. H., L. C. Chang, M.-C. Liang, J. Yue, J. M. Russell III, and M. Mlynczak, Impacts of SABER CO₂-based eddy diffusion coefficients in the lower thermosphere on the ionosphere/thermosphere, *J. Geophys. Res. Space Physics*, *121*, 080–12,092, doi:[10.1002/2016JA023161](https://doi.org/10.1002/2016JA023161), 2016.
703. Schmidt, T., P. Alexander, and A. de la Torre, Stratospheric gravity wave momentum flux from radio occultations, *J. Geophys. Res. Atmos.*, *121*, 9, 4443–4467, doi:[10.1002/2015JD024135](https://doi.org/10.1002/2015JD024135), 2016.
704. Selvaraj, D., A. K. Patra, S. Sathishkumar, K. K. Kumar, and D. N. Rao, On the governing dynamics of the VHF radar echoes from the mesosphere and collision dominated lower E region over Gadanki (13.5°N, 79.2°E), *J. Geophys. Res. Space Physics*, *accepted*, doi:[10.1002/2016JA023297](https://doi.org/10.1002/2016JA023297), 2016.
705. Semenov, A. I., I. V. Medvedeva, V. I. Perminov, and V. Yu Khomich, Spatial and temporal variations in infrared emissions of the upper atmosphere. 1. Atomic oxygen (λ 63 μ m) emission, *Geomagn. Aeron.*, *56*, 5, 616–620, doi:[10.1134/S0016793216050121](https://doi.org/10.1134/S0016793216050121), 2016.
706. Sharma, S., H. Chandra, G. Beig, P. Kumar, and R. Vaishnav, Investigations of mesospheric temperature inversions over sub-tropical location using lidar and satellites measurements, *J. Atmos. Solar-Terr. Phys.*, *138–139*, 54–65, doi:[10.1016/j.jastp.2015.12.007](https://doi.org/10.1016/j.jastp.2015.12.007), 2016.
707. She, C.-Y., D. A. Krueger, T. Yuan, and J. Oberheide, On the polarization relations of diurnal and semidiurnal tide in the mesopause region, *J. Atmos. Solar-Terr. Phys.*, *142*, 60–71, doi:[10.1016/j.jastp.2016.02.024](https://doi.org/10.1016/j.jastp.2016.02.024), 2016.
708. Shepherd, G. G., Y.-M. Cho, V. I. Fomichev, and O. V. Martynenko, Thermospheric atomic oxygen concentrations from WINDII O⁺(²P→²D) 732nm emission: Comparisons with the NRLMSISE-00 and C-IAM models and with GUVI observations, *J. Atmos. Solar-Terr. Phys.*, *147*, 50–58, doi:[10.1016/j.jastp.2016.06.015](https://doi.org/10.1016/j.jastp.2016.06.015), 2016.
709. Shreedevi, P. R., S. V. Thampi, D. Chakrabarty, R. K. Choudhary, T. K. Pant, A. Bhardwaj, and S. Mukherjee, On the latitudinal changes in ionospheric electrodynamics and composition based on observations over the 76–77°E meridian from both hemispheres during a geomagnetic storm, *J. Geophys. Res. Space Physics*, *121*, 1557–1568, doi:[10.1002/2015JA021841](https://doi.org/10.1002/2015JA021841), 2016.

710. Sidorova, L. N., and S. V. Filippov, Longitudinal statistics of plasma bubbles: Possible tropospheric influence, *Geomagn. Aeron.*, 56, 4, 482-492, doi:[10.1134/S0016793216040198](https://doi.org/10.1134/S0016793216040198), 2016.
711. Silber, I., C. Price, and C. J. Rodger, Semi-annual oscillation (SAO) of the nighttime ionospheric D region as detected through ground-based VLF receivers, *Atmos. Chem. Phys.*, 16, 5, 3279-3288, doi:[10.5194/acp-16-3279-2016](https://doi.org/10.5194/acp-16-3279-2016), 2016.
712. Singh, R. P., and D. Pallamraju, Effect of cyclone Nilofar on mesospheric wave dynamics as inferred from optical nightglow observations from Mount Abu, India, *J. Geophys. Res. Space Physics*, 121, 5856–5867, doi:[10.1002/2016JA022412](https://doi.org/10.1002/2016JA022412), 2016.
713. Sivakandan, M., T. K. Ramkumar, A. Taori, V. Rao, and K. Niranjana, Long-term variation of OH peak emission altitude and volume emission rate over Indian low latitudes, *J. Atmos. Solar-Terr. Phys.*, 138-139, 161-168, doi:[10.1016/j.jastp.2016.01.012](https://doi.org/10.1016/j.jastp.2016.01.012), 2016.
714. Sripathi, S., R. Singh, S. Banola, D. Singh, and S. Sathish, The response of the equatorial ionosphere to fast stream solar coronal holes during 2008 deep solar minimum over Indian region, *J. Geophys. Res. Space Physics*, 121, 841-853, doi:[10.1002/2015JA021534](https://doi.org/10.1002/2015JA021534), 2016.
715. Stephan, A. W., Advances in remote sensing of the daytime ionosphere with EUV airglow, *J. Geophys. Res. Space Physics*, 121, 9284–9292, doi:[10.1002/2016JA022629](https://doi.org/10.1002/2016JA022629), 2016.
716. Suess, K., M. Snow, R. Viereck, and J. Machol, Solar Spectral Proxy Irradiance from GOES (SSPRING): a model for solar EUV irradiance, *J. Space Weather & Space Clim.*, 6, 27, A10, doi:[10.1051/swsc/2016003](https://doi.org/10.1051/swsc/2016003), 2016.
717. Talaat, E. R., and X. Zhu, Spatial and temporal variation of total electron content as revealed by principal component analysis, *Ann. Geophys.*, 34, 12, 1109-1117, doi:[10.5194/angeo-34-1109-2016](https://doi.org/10.5194/angeo-34-1109-2016), 2016.
718. Tang, C., D. Liu, H. Wei, Y. Wang, C. Dai, P. Wu, W. Zhu, and R. Rao, The response of the temperature of cold-point mesopause to solar activity based on SABER data set, *J. Geophys. Res. Space Physics*, 121, 7, 7245–7255, doi:[10.1002/2016JA022538](https://doi.org/10.1002/2016JA022538), 2016.
719. Thampi, S. V., P. R. Shreedevi, R. K. Choudhary, T. K. Pant, D. Chakrabarty, S. Sunda, S. Mukherjee, and A. Bhardwaj, Direct observational evidence for disturbance dynamo on the daytime low-latitude ionosphere: A case study based on the 28 June 2013 space weather event, *J. Geophys. Res. Space Physics*, 121, 10, 1064–10,074, doi:[10.1002/2016JA023037](https://doi.org/10.1002/2016JA023037), 2016.
720. Trinh, Q. T., S. Kalisch, P. Preusse, M. Ern, H.-Y. Chun, S. D. Eckermann, M.-J. Kang, and M. Riese, Tuning of a convective gravity wave source scheme based on HIRDLS observations, *Atmos. Chem. Phys.*, 16, 11, 7335-7356, doi:[10.5194/acp-16-7335-2016](https://doi.org/10.5194/acp-16-7335-2016), 2016.
721. Ugolnikov, O. S., and B. V. Kozelov, Study of the mesosphere using wide-field twilight polarization measurements: Early results beyond the polar circle, *Cosm. Res.*, 54, 4, 279-284, doi:[10.1134/S0010952516040079](https://doi.org/10.1134/S0010952516040079), 2016.
722. Upadhyaya, A. K., S. Gupta, and P. S. Brahmanandam, F2 region response to geomagnetic disturbances across Indian latitudes: O(1S) dayglow emission, *J. Geophys. Res. Space Physics*, 121, 2595–2620, doi:[10.1002/2015JA021366](https://doi.org/10.1002/2015JA021366), 2016.
723. Vargas, F., G. Swenson, A. Liu, and D. Pautet, Evidence of the excitation of a ring-like gravity wave in the mesosphere over the Andes Lidar Observatory, *J. Geophys. Res. Atmos.*, 121, 15, 2016JD024799, doi:[10.1002/2016JD024799](https://doi.org/10.1002/2016JD024799), 2016.
724. Venkataramani, K., J. D. Yonker, and S. M. Bailey, Contribution of chemical processes to infrared emissions from nitric oxide in the thermosphere: Chemiluminescence from Nitric Oxide, *J. Geophys. Res. Space Physics*, 121, 3, 2450-2461, doi:[10.1002/2015JA022055](https://doi.org/10.1002/2015JA022055), 2016.
725. Verkhoglyadova, O. P., B. T. Tsurutani, A. J. Mannucci, M. G. Mlynczak, L. A. Hunt, L. J. Paxton, and A. Komjathy, Solar wind driving of ionosphere-thermosphere responses in three storms near St. Patrick's Day in 2012, 2013, and 2015, *J. Geophys. Res. Space Physics*, 121, 8900–8923, doi:[10.1002/2016JA022883](https://doi.org/10.1002/2016JA022883), 2016.

726. Verkhoglyadova, O. P., J. M. Wissing, S. Wang, M.-B. Kallenrode, and G. P. Zank, Nighttime mesospheric hydroxyl enhancements during SEP events and accompanying geomagnetic storms: Ionization rate modeling and Aura satellite observations, *J. Geophys. Res. Space Physics*, *121*, 7, 6017–6030, doi:[10.1002/2015JA022217](https://doi.org/10.1002/2015JA022217), 2016.
727. Verkhoglyadova, O. P., X. Meng, A. J. Mannucci, B. T. Tsurutani, L. A. Hunt, M. G. Mlynczak, R. Hajra, and B. A. Emery, Estimation of energy budget of ionosphere-thermosphere system during two CIR-HSS events: observations and modeling, *J. Space Weather & Space Clim.*, *6*, A20, doi:[10.1051/swsc/2016013](https://doi.org/10.1051/swsc/2016013), 2016.
728. Walterscheid, R. L., and A. B. Christensen, Low-latitude gravity wave variances in the mesosphere and lower thermosphere derived from SABER temperature observation and compared with model simulation of waves generated by deep tropical convection, *J. Geophys. Res. Atmos.*, *121*, 20, 11,900–11,912, doi:[10.1002/2016JD024843](https://doi.org/10.1002/2016JD024843), 2016.
729. Wang, C., Main Science Results from Chinese Meridian Project (2014–2015), *Chin. J. Space Sci.*, *36*, 5, 620-625, doi:[10.11728/cjss2016.05.620](https://doi.org/10.11728/cjss2016.05.620), 2016.
730. Wang, H. M., and Y. M. Wang, Airglow simulation based on the Atmospheric Ultraviolet Radiance Integrated Code of 2012, *Sci. China Earth Sci.*, *59*, 2, 425-435, doi:[10.1007/s11430-015-5166-7](https://doi.org/10.1007/s11430-015-5166-7), 2016.
731. Wang, H. M., Y. Wang, and J. Fu, A New Ground-based Fabry-Perot Interferometer for Measurement of the Thermospheric Wind, *Chin. J. Space Sci.*, *36*, 3, 352-357, doi:[10.11728/cjss2016.03.352](https://doi.org/10.11728/cjss2016.03.352), 2016.
732. Wang, W., D. Jin, F. Shao, H. Hu, Y. Shi, J. Song, Y. Zhang, and L. Yong, The reconnaissance and early-warning optical system design for dual field of space-based "solar blind ultraviolet", *Proc. SPIE 9912, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation II*, 991279, doi:[10.1117/12.2236440](https://doi.org/10.1117/12.2236440), 2016.
733. Weimer, D. R., E. K. Sutton, M. G. Mlynczak, and L. A. Hunt, Intercalibration of neutral density measurements for mapping the thermosphere, *J. Geophys. Res. Space Physics*, *121*, 6, 5975–5990, doi:[10.1002/2016JA022691](https://doi.org/10.1002/2016JA022691), 2016.
734. Wieman, S. R., L. Didkovsky, T. Woods, A. Jones, and C. Moore, Sounding Rocket Observations of Active Region Soft X-Ray Spectra between 0.5 and 2.5 nm using a Modified SDO/EVE Instrument, *Sol. Physics, Open Access*, doi:[10.1007/s11207-016-0999-6](https://doi.org/10.1007/s11207-016-0999-6), 2016.
735. Wright, C. J., N. P. Hindley, A. C. Moss, and N. J. Mitchell, Multi-instrument gravity-wave measurements over Tierra del Fuego and the Drake Passage – Part 1: Potential energies and vertical wavelengths from AIRS, COSMIC, HIRDLS, MLS-Aura, SAAMER, SABER and radiosondes, *Atmos. Meas. Tech.*, *9*, 3, 877-908, doi:[10.5194/amt-9-877-2016](https://doi.org/10.5194/amt-9-877-2016), 2016.
736. Wright, C. J., N. P. Hindley, and N. J. Mitchell, Combining AIRS and MLS Observations for Three-Dimensional Gravity Wave Measurement, *Geophys. Res. Lett.*, *43*, 884-893, doi:[10.1002/2015GL067233](https://doi.org/10.1002/2015GL067233), 2016.
737. Wu, D. L., J.-H. Yee, E. Schlecht, I. Mehdi, J. Siles, and B. J. Drouin, THz limb sounder (TLS) for lower thermospheric wind, oxygen density, and temperature, *J. Geophys. Res. Space Physics*, *121*, 7301–7315, doi:[10.1002/2015JA022314](https://doi.org/10.1002/2015JA022314), 2016.
738. Wu, Q., A. Maute, V. Yudin, L. Goncharenko, J. Noto, R. Kerr, and C. Jacobi, Observations and simulations of midlatitude ionospheric and thermospheric response to the January 2013 stratospheric sudden warming event, *J. Geophys. Res. Space Physics*, *121*, 8995–9011, doi:[10.1002/2016JA023043](https://doi.org/10.1002/2016JA023043), 2016.
739. Wüst, S., V. Wendt, C. Schmidt, S. Lichtenstern, M. Bittner, J.-H. Yee, M. G. Mlynczak, and J. M. Russell III, Derivation of gravity wave potential energy density from NDMC measurements, *J. Atmos. Solar-Terr. Phys.*, *138-139*, 32-46, doi:[10.1016/j.jastp.2015.12.003](https://doi.org/10.1016/j.jastp.2015.12.003), 2016.

740. Xiong, C., C. Stolle, H. Lühr, J. Park, B. G. Fejer, and G. N. Kervalishvili, Scale analysis of equatorial plasma irregularities derived from Swarm constellation, *Earth, Planets and Space*, 68, 1, 121, doi:[10.1186/s40623-016-0502-5](https://doi.org/10.1186/s40623-016-0502-5), 2016.
741. Yadav, S., S. Sunda, and R. Sridharan, The impact of the 17 March 2015 St. Patrick's Day storm on the evolutionary pattern of equatorial ionization anomaly over the Indian longitudes using high-resolution spatiotemporal TEC maps: New insights, *Space Weather*, 14, doi:[10.1002/2016SW001408](https://doi.org/10.1002/2016SW001408), 2016.
742. Yamazaki, Y., K. Häusler, and J. A. Wild, Day-to-day variability of midlatitude ionospheric currents due to magnetospheric and lower atmospheric forcing, *J. Geophys. Res. Space Physics*, 121, 7067–7086, doi:[10.1002/2016JA022817](https://doi.org/10.1002/2016JA022817), 2016.
743. Yang, Y.-M., O. Verkhoglyadova, M. G. Mlynczak, A. J. Mannucci, X. Meng, R. B. Langley, and L. A. Hunt, Satellite-based observations of tsunami-induced mesosphere airglow perturbations, *Geophys. Res. Lett.*, 44, 522-532, doi:[10.1002/2016GL070764](https://doi.org/10.1002/2016GL070764), 2016.
744. Yankovsky, V. A., K. V. Martyshenko, R. O. Manuilova, and A. G. Feofilov, Oxygen dayglow emissions as proxies for atomic oxygen and ozone in the mesosphere and lower thermosphere, *Journal of Molecular Spectroscopy*, 327, 209-231, doi:[10.1016/j.jms.2016.03.006](https://doi.org/10.1016/j.jms.2016.03.006), 2016.
745. Yao, Y., L. Liu, J. Kong, and C. Zhai, Analysis of the global ionospheric disturbances of the March 2015 great storm, *J. Geophys. Res. Space Physics*, 121, 12, 157–12,170, doi:[10.1002/2016JA023352](https://doi.org/10.1002/2016JA023352), 2016.
746. Yi, W., X. Xue, J. Chen, X. Dou, T. Chen, and N. Li, Estimation of mesopause temperatures at low latitudes using the Kunming meteor radar, *Radio Sci.*, 51, 3, 130–141, doi:[10.1002/2015RS005722](https://doi.org/10.1002/2015RS005722), 2016.
747. Yiğit, E., and A. S. Medvedev, Role of gravity waves in vertical coupling during sudden stratospheric warmings, *Geoscience Letters*, 3, 1, 27, doi:[10.1186/s40562-016-0056-1](https://doi.org/10.1186/s40562-016-0056-1), 2016.
748. Yiğit, E., P. K. Knizova, K. Georgieva, and W. Ward, A review of vertical coupling in the Atmosphere-Ionosphere system: Effects of waves, sudden stratospheric warmings, space weather, and of solar activity, *J. Atmos. Solar-Terr. Phys.*, 141, 1-12, doi:[10.1016/j.jastp.2016.02.011](https://doi.org/10.1016/j.jastp.2016.02.011), 2016.
749. Yin, M., Bias Characterization of CrIS Shortwave Temperature Sounding Channels Using Fast NLTE Model and GFS Forecast Field, *J. Geophys. Res. Atmos.*, 121, 1248-1263, doi:[10.1002/2015JD023876](https://doi.org/10.1002/2015JD023876), 2016.
750. Yu, L., GADICON spectrometer for ionosphere far-ultraviolet observation: prototype design, manufacturing, and testing, *Appl. Opt.*, 55, 24, 6662-6670, doi:[10.1364/AO.55.006662](https://doi.org/10.1364/AO.55.006662), 2016.
751. Yue, J., W. Wang, H. Ruan, L. C. Chang, and J. Lei, Impact of the interaction between the quasi-2 day wave and tides on the ionosphere and thermosphere, *J. Geophys. Res. Space Physics*, 121, 3555–3563, doi:[10.1002/2016JA022444](https://doi.org/10.1002/2016JA022444), 2016.
752. Yue, X., Q. Zhou, F. Yi, J. Friedman, S. Raizada, and C. Tepley, Simultaneous and common-volume lidar observations of K/Na layers and temperature at Arecibo Observatory (18°N, 67°W), *J. Geophys. Res. Atmos.*, 121, 13, 8038–8054, doi:[10.1002/2015JD024494](https://doi.org/10.1002/2015JD024494), 2016.
753. Yue, X., W. Wang, J. Lei, A. Burns, Y. Zhang, W. Wan, L. Liu, L. Hu, B. Zhao, and W. S. Schreiner, Long-lasting negative ionospheric storm effects in low and middle latitudes during the recovery phase of the 17, *J. Geophys. Res. Space Physics*, 121, 9, doi:[10.1002/2016JA022984](https://doi.org/10.1002/2016JA022984), 2016.
754. Žagar, N., J. Boyd, A. Kasahara, J. Tribbia, E. Källén, H. Tanaka, and J. Yano, Normal Modes of Atmospheric Variability in Observations, Numerical Weather Prediction, and Climate Models, *Bulletin of the American Meteorological Society*, 97, 6, ES125-ES128, doi:[10.1175/BAMS-D-15-00325.1](https://doi.org/10.1175/BAMS-D-15-00325.1), 2016.
755. Zalcik, M. S., T. W. Lohvinenko, P. Dalin, and W. F. Denig, North American Noctilucent Cloud Observations in 1964-77 and 1988-2014: Analysis and Comparisons, *J. Royal Astron. Soc. Can.*, [110, 61, 8-15](https://doi.org/10.1186/110-61-8-15), 2016.

756. Zhang, R., L. Liu, H. Le, and Y. Chen, Evidence and effects of the sunrise enhancement of the equatorial vertical plasma drift in the F region ionosphere, *J. Geophys. Res. Space Physics*, *121*, 4826–4834, doi:[10.1002/2016JA022491](https://doi.org/10.1002/2016JA022491), 2016.
757. Zhang, Y., L. J. Paxton, and H. Kil, Solar flare impact on FUV based thermospheric O/N 2 estimation, *J. Atmos. Solar-Terr. Phys.*, *147*, 37-40, doi:[10.1016/j.jastp.2016.06.014](https://doi.org/10.1016/j.jastp.2016.06.014), 2016.
758. Zhang, Y., L. J. Paxton, Q. Zhang, and Z. Xing, Polar cap arcs: Sun-aligned or cusp-aligned?, *J. Atmos. Solar-Terr. Phys.*, *146*, 123-128, doi:[10.1016/j.jastp.2016.06.001](https://doi.org/10.1016/j.jastp.2016.06.001), 2016.
759. Zhao, H.-S., J. Feng, Z.-W. Xu, J. Wu, Z.-S. Wu, B. Xu, K. Xue, T. Xu, and Y.-L. Hu, A temporal three-dimensional simulation of samarium release in the ionosphere, *J. Geophys. Res. Space Physics*, *121*, doi:[10.1002/2016JA022425](https://doi.org/10.1002/2016JA022425), 2016.
760. Zhong, J., W. Wang, X. Yue, A. G. Burns, X. Dou, and J. Lei, Long-duration depletion in the topside ionospheric total electron content during the recovery phase of the March 2015 strong storm, *J. Geophys. Res. Space Physics*, *121*, 4733–4747, doi:[10.1002/2016JA022469](https://doi.org/10.1002/2016JA022469), 2016.
761. Zhou, S., X. Luan, and X. Dou, Solar activity dependence of nightside aurora in winter conditions, *J. Geophys. Res. Space Physics*, *121*, 1619–1626, doi:[10.1002/2015JA021865](https://doi.org/10.1002/2015JA021865), 2016.
762. Zhou, Y.-L., L. Wang, C. Xiong, H. Lüher, and S.-Y. Ma, The solar activity dependence of nonmigrating tides in electron density at low and middle latitudes observed by CHAMP and GRACE, *Ann. Geophys.*, *34*, 4, 463-472, doi:[10.5194/angeo-34-463-2016](https://doi.org/10.5194/angeo-34-463-2016), 2016.
763. Zhu, X., J.-H. Yee, M. Cai, W. H. Swartz, L. Coy, V. Aquila, R. Garcia, and E. R. Talaat, Diagnosis of Middle-Atmosphere Climate Sensitivity by the Climate Feedback-Response Analysis Method, *J. Atmos. Sci.*, *73*, 1, 3-23, doi:[10.1175/JAS-D-15-0013.1](https://doi.org/10.1175/JAS-D-15-0013.1), 2016.
764. Zou, C.-Z., and H. Qian, Stratospheric Temperature Climate Data Record from Merged SSU and AMSU-A Observations, *J. Atmos. Oceanic Technol.*, *33*, 9, 1967-1984, doi:[10.1175/JTECH-D-16-0018.1](https://doi.org/10.1175/JTECH-D-16-0018.1), 2016.

2015

765. Abdu, M. A., C. G. M. Brum, P. P. Batista, S. Gurubaran, D. Pancheva, J. V. Bageston, I. S. Batista, and H. Takahashi, Fast and ultrafast Kelvin wave modulations of the equatorial evening F region vertical drift and spread F development, *Earth, Planets and Space*, *67*, 1, doi:[10.1186/s40623-014-0143-5](https://doi.org/10.1186/s40623-014-0143-5), 2015.
766. Akhil Raj, S. T., M. V. Ratnam, D. N. Rao, and B. V. K. Murthy, Vertical distribution of ozone over a tropical station: Seasonal variation and comparison with satellite (MLS, SABER) and ERA-Interim products, *Atmos. Environ.*, *116*, 281-292, doi:[10.1016/j.atmosenv.2015.06.047](https://doi.org/10.1016/j.atmosenv.2015.06.047), 2015.
767. Alexander, P., A. de la Torre, T. Schmidt, P. Llamedo, and R. Hierro, Limb sounders tracking topographic gravity wave activity from the stratosphere to the ionosphere around midlatitude Andes, *J. Geophys. Res. Space Physics*, *120*, 10, 9014-9022, doi:[10.1002/2015JA021409](https://doi.org/10.1002/2015JA021409), 2015.
768. Alexander, P., D. Luna, A. de la Torre, and T. Schmidt, Distribution functions and statistical parameters that may be used to characterize limb sounders gravity wave climatologies in the stratosphere, *Adv. Space Res.*, *56*, 4, 619-633, doi:[10.1016/j.asr.2015.05.007](https://doi.org/10.1016/j.asr.2015.05.007), 2015.
769. Astafyeva, E., I. Zakharenkova, and M. Förster, Ionospheric response to the 2015 St. Patrick's Day storm: A global multi-instrumental overview, *J. Geophys. Res. Space Physics*, *120*, 9023-9037, doi:[10.1002/2015JA021629](https://doi.org/10.1002/2015JA021629), 2015.
770. Azeem, I., G. Crowley, and C. Honniball, Global ionospheric response to the 2009 sudden stratospheric warming event using Ionospheric Data Assimilation Four-Dimensional (IDA4D) algorithm. *J. Geophys. Res. Space Physics*, *120*, 4009-4019, doi:[10.1002/2015JA020993](https://doi.org/10.1002/2015JA020993), 2015.

771. Bag, T., M. V. Sunil Krishna, and Vir Singh, Modeling of Na airglow emission and first results on the nocturnal variation at midlatitude, *J. Geophys. Res. Space Physics*, 2015JA022031, doi:[10.1002/2015JA022031](https://doi.org/10.1002/2015JA022031), 2015.
772. Ban, C., T. Li, X. Fang, X. Dou, and J. Xiong, Sodium lidar-observed gravity wave breaking followed by an upward propagation of sporadic sodium layer over Hefei, China, *J. Geophys. Res. Space Physics*, 120, 9, 2015JA021339, doi:[10.1002/2015JA021339](https://doi.org/10.1002/2015JA021339), 2015.
773. Becker, E., R. Knöpfel, and F.-J. Lübken, Dynamically induced hemispheric differences in the seasonal cycle of the summer polar mesopause, *J. Atmos. Solar-Terr. Phys.*, 129, 128-141, doi:[10.1016/j.jastp.2015.04.014](https://doi.org/10.1016/j.jastp.2015.04.014), 2015.
774. Belehaki, A., I. Tsagouri, I. Kutiev, P. Marinov, B. Zolesi, M. Pietrella, K. Themelis, P. Elias, and K. Tziotziou, The European Ionosonde Service: nowcasting and forecasting ionospheric conditions over Europe for the ESA Space Situational Awareness services, *J. Space Weather & Space Clim.*, 5, A25, doi:[10.1051/swsc/2015026](https://doi.org/10.1051/swsc/2015026), 2015.
775. BenMoussa, A., B. Giordanengo, S. Gissot, I. E. Dammasch, M. Dominique, J.-F. Hochedez, A. Soltani, N. Bourzgui, T. Saito, U. Schühle, A. Gottwald, U. Kroth, and A. R. Jones, Degradation assessment of LYRA after 5 years on orbit-Technology Demonstration, *Experimental Astronomy*, 1-15, doi:[10.1007/s10686-014-9437-7](https://doi.org/10.1007/s10686-014-9437-7), 2015.
776. Bessarab, F. S., Y. N. Korenkov, V. V. Klimenko, M. V. Klimenko, and Y. Zhang, E-region ionospheric storm on May 1-3, 2010: GSM TIP model representation and suggestions for IRI improvement, *Adv. Space Res.*, 55, 2124-2130, doi:[10.1016/j.asr.2014.08.003](https://doi.org/10.1016/j.asr.2014.08.003), 2015.
777. Bhattacharyya, A., and Ki. C. Okpala, Principal components of quiet time temporal variability of equatorial and low-latitude geomagnetic fields, *J. Geophys. Res. Space Physics*, 120, 8799-8809, doi:[10.1002/2015JA021673](https://doi.org/10.1002/2015JA021673), 2015.
778. Bilitza, D., The International Reference Ionosphere – Status 2013, *Adv. Space Res.*, 55, 8, 1914-1927, doi:[10.1016/j.asr.2014.07.032](https://doi.org/10.1016/j.asr.2014.07.032), 2015.
779. Bossert, K., D. C. Fritts, P.-D. Pautet, B. P. Williams, M. J. Taylor, B. Kaifler, A. Dörnbrack, I. M. Reid, D. J. Murphy, A. J. Spargo, and A. D. MacKinnon, Momentum flux estimates accompanying multiscale gravity waves over Mount Cook, New Zealand, on 13 July 2014 during the DEEPWAVE campaign, *J. Geophys. Res. Atmos.*, 120, 9323-9337, doi:[10.1002/2015JD023197](https://doi.org/10.1002/2015JD023197), 2015.
780. Bougher, S. W., D. Pawlowski, J. M. Bell, S. Nelli, T. McDunn, J. R. Murphy, M. Chizek, and A. Ridley, Mars Global Ionosphere-Thermosphere Model: Solar cycle, seasonal, and diurnal variations of the Mars upper atmosphere, *J. Geophys. Res. Planets*, 120, 311–342. doi:[10.1002/2014JE004715](https://doi.org/10.1002/2014JE004715), 2015.
781. Buhari, S. M., M. Abdullah, T. Yokoyama, A. M. Hasbi, Y. Otsuka, M. Nishioka, S. A. Bahari, and T. Tsugawa, Climatology of equatorial plasma bubble observed by MyRTKnet over the years 2008-2013, *2015 International Conference on Space Science and Communication (IconSpace)*, 101-105, doi:[10.1109/IconSpace.2015.7283752](https://doi.org/10.1109/IconSpace.2015.7283752), 2015.
782. Burns, A. G., S. C. Solomon, W. Wang, L. Qian, Y. Zhang, L. J. Paxton, X. Yue, J. P. Thayer, and H. L. Liu, Explaining solar cycle effects on composition as it relates to the winter anomaly, *J. Geophys. Res. Space Physics*, 120, 5890-5898, doi:[10.1002/2015JA021220](https://doi.org/10.1002/2015JA021220), 2015.
783. Caspi, A., T. N. Woods, and H. P. Warren, New observations of the solar 0.5-5 keV soft X-ray spectrum, *Astrophys. J. Lett.*, 802, L2, doi:[10.1088/2041-8205/802/1/L2](https://doi.org/10.1088/2041-8205/802/1/L2), 2015.
784. Cecchini, M. R., and K. J. Castle, Vibrational relaxation of $^{13}\text{CO}_2(\nu_2)$ by atomic oxygen, *Chemical Physics Letters*, 638, 149-152, doi:[10.1016/j.cplett.2015.08.051](https://doi.org/10.1016/j.cplett.2015.08.051), 2015.
785. Chakraborty, M., S. Kumar, B. K. De, and A. Guha, Effects of geomagnetic storm on low latitude ionospheric total electron content: A case study from Indian sector, *J. Earth Syst. Sci.*, 124, 1115-1126, doi:[10.1007/s12040-015-0588-3](https://doi.org/10.1007/s12040-015-0588-3), 2015.

786. Chau, J. L., P. Hoffmann, N. M. Pedatella, V. Matthias, and G. Stober, Upper mesospheric lunar tides over middle and high latitudes during sudden stratospheric warming events, *J. Geophys. Res. Space Physics*, 120, 4, 2015JA020998, doi:[10.1002/2015JA020998](https://doi.org/10.1002/2015JA020998), 2015.
787. Chen, G., C. Wu, S. Zhang, B. N., X. Huang, D. Zhong, H. Qi, J. Wang, and L. Huang, Mid-latitude ionospheric responses to the 2013 SSW under high solar activity, *J. Geophys. Res. Space Physics*, 121, 790-803, doi:[10.1002/2015JA021980](https://doi.org/10.1002/2015JA021980), 2015.
788. Chen, Y., W. Wang, A. G. Burns, S. Liu, J. Gong, X. Yue, G. Jiang, and A. Coster, Ionospheric response to CIR-induced recurrent geomagnetic activity during the declining phase of solar cycle 23. *J. Geophys. Res. Space Physics*, 120: 1394-1418, doi:[10.1002/2014JA020657](https://doi.org/10.1002/2014JA020657), 2015.
789. Cherniak, I., and I. Zakharenkova, Dependence of the high-latitude plasma irregularities on the auroral activity indices: a case study of 17 March 2015 geomagnetic storm, *Earth, Planets and Space*, 67, 1-12, doi:[10.1186/s40623-015-0316-x](https://doi.org/10.1186/s40623-015-0316-x), 2015.
790. Cherniak, I., I. Zakharenkova, and R. J. Redmon, Dynamics of the high-latitude ionospheric irregularities during the 17 March 2015 St. Patrick's Day storm: Ground-based GPS measurements, *Space Weather*, 13, 585-597, doi:[10.1002/2015SW001237](https://doi.org/10.1002/2015SW001237), 2015.
791. Cho, Y.-M., and G. Shepherd, Resolving daily wave 4 nonmigrating tidal winds at equatorial and midlatitudes with WINDII: DE3 and SE2, *J. Geophys. Res. Space Physics*, 120, 11, 2015JA021903, doi:[10.1002/2015JA021903](https://doi.org/10.1002/2015JA021903), 2015.
792. Costantino, L., P. Heinrich, N. Mzé, and A. Hauchecorne, Convective gravity wave propagation and breaking in the stratosphere: comparison between WRF model simulations and lidar data, *Ann. Geophys.*, 33, 9, 1155-1171, doi:[10.5194/angeo-33-1155-2015](https://doi.org/10.5194/angeo-33-1155-2015), 2015.
793. Cullens, C. Y., S. L. England, and T. J. Immel, Global responses of gravity waves to planetary waves during stratospheric sudden warming observed by SABER, *J. Geophys. Res. Atmos.*, 120, 23, 2015JD023966, doi:[10.1002/2015JD023966](https://doi.org/10.1002/2015JD023966), 2015.
794. Danilov, A. D., Seasonal and diurnal variations in foF2 trends, *J. Geophys. Res. Space Physics*, 120, 5, 2014JA020971, doi:[10.1002/2014JA020971](https://doi.org/10.1002/2014JA020971), 2015.
795. de Wit, R. J., R. E. Hibbins, and P. J. Espy, The seasonal cycle of gravity wave momentum flux and forcing in the high latitude northern hemisphere mesopause region, *J. Atmos. Solar-Terr. Phys.*, 127, 21-29, doi:[10.1016/j.jastp.2014.10.002](https://doi.org/10.1016/j.jastp.2014.10.002), 2015.
796. Del Zanna, G., and V. Andretta, The EUV spectrum of the Sun: Irradiances during 1998-2014, *Astron. & Astrophys.*, 584, A29, doi:[10.1051/0004-6361/201526804](https://doi.org/10.1051/0004-6361/201526804), 2015.
797. DeLand, M. T., and G. E. Thomas, Updated PMC trends derived from SBUV data, *J. Geophys. Res. Atmos.*, 120, 5, 2014JD022253, doi:[10.1002/2014JD022253](https://doi.org/10.1002/2014JD022253), 2015.
798. Drob, D. P., J. T. Emmert, J. W. Meriwether, J. J. Makela, E. Doombos, M. Conde, G. Hernandez, J. Noto, K. A. Zawdie, S. E. McDonald, J. D. Huba, and J. H. Klenzing, An update to the Horizontal Wind Model (HWM): the quiet time thermosphere, *Earth and Space Science*, 2, 301-319, doi:[10.1002/2014EA000089](https://doi.org/10.1002/2014EA000089), 2015.
799. Emmert, J. T., Altitude and solar activity dependence of 1967-2005 thermospheric density trends derived from orbital drag, *J. Geophys. Res. Space Physics*, 120, 4, 2015JA021047, doi:[10.1002/2015JA021047](https://doi.org/10.1002/2015JA021047), 2015.
800. Emmert, J. T., Thermospheric mass density: A review, *Adv. Space Res.*, 56, 5, 773-824, doi:[10.1016/j.asr.2015.05.038](https://doi.org/10.1016/j.asr.2015.05.038), 2015.
801. Eparvier, F. G., P. C. Chamberlin, T. N. Woods, and E. M. B. Thiemann, The Solar Extreme Ultraviolet Monitor for MAVEN, *Space Sci. Rev.*, 195, 293-301, doi:[10.1007/s11214-015-0195-2](https://doi.org/10.1007/s11214-015-0195-2), 2015.
802. Fan, Z. Q., Z. Sheng, H. Q. Shi, X. Yi, Y. Jiang, and E. Z. Zhu, Comparative Assessment of COSMIC Radio Occultation Data and TIMED/SABER Satellite Data over China, *J. Appl. Meteorol.*, 54, 9, 1931-1943, doi:[10.1175/JAMC-D-14-0151.1](https://doi.org/10.1175/JAMC-D-14-0151.1), 2015.

803. Forbes, J. M., and X. Zhang, Quasi-10-day wave in the atmosphere, *J. Geophys. Res. Atmos.*, 120, 21, 2015JD023327, doi:[10.1002/2015JD023327](https://doi.org/10.1002/2015JD023327), 2015.
804. France, J. A., V. L. Harvey, C. E. Randall, R. L. Collins, A. K. Smith, E. D. Peck, and X. Fang, A climatology of planetary wave-driven mesospheric inversion layers in the extratropical winter, *J. Geophys. Res. Atmos.*, 120, 2, 399-413, doi:[10.1002/2014JD022244](https://doi.org/10.1002/2014JD022244), 2015.
805. Fu, L., R. Peng, E. Shi, J. Peng, T. Wang, F. Jiang, N. Jia, X. Li, and Y. M. Wang, Far ultraviolet nighttime ionospheric photometer, *Astrophys. Space Sci.*, 355: 0, 1-7, doi:[10.1007/s10509-014-2139-9](https://doi.org/10.1007/s10509-014-2139-9), 2015.
806. Fytterer, T., M. G. Mlynczak, H. Nieder, K. Pérot, M. Sinnhuber, G. Stiller, and J. Urban, Energetic particle induced intra-seasonal variability of ozone inside the Antarctic polar vortex observed in satellite data, *Atmos. Chem. Phys.*, 15, 6, 3327-3338, doi:[10.5194/acp-15-3327-2015](https://doi.org/10.5194/acp-15-3327-2015), 2015.
807. Gan, Q., J. Yue, L. C. Chang, W. B. Wang, S. D. Zhang, and J. Du, Observations of thermosphere and ionosphere changes due to the dissipative 6.5-day wave in the lower thermosphere, *Ann. Geophys.*, 33, 7, 913-922, doi:[10.5194/angeo-33-913-2015](https://doi.org/10.5194/angeo-33-913-2015), 2015.
808. Gao, H., J. Xu, W. Ward, A. K. Smith, and G.-M. Chen, Double-layer structure of OH dayglow in the mesosphere, *J. Geophys. Res. Space Physics*, 120, 7, 2015JA021208, doi:[10.1002/2015JA021208](https://doi.org/10.1002/2015JA021208), 2015.
809. Gasperini, F., J. M. Forbes, E. N. Doornbos, and S. L. Bruinsma, Wave coupling between the lower and middle thermosphere as viewed from TIMED and GOCE, *J. Geophys. Res. Space Physics*, 120, 7, 2015JA021300, doi:[10.1002/2015JA021300](https://doi.org/10.1002/2015JA021300), 2015.
810. Gavrilov, N. M., A. V. Koval, A. I. Pogoreltsev, and E. N. Savenkova, Simulating influences of QBO phases and orographic gravity wave forcing on planetary waves in the middle atmosphere, *Earth, Planets and Space*, 67, 1, 86, doi:[10.1186/s40623-015-0259-2](https://doi.org/10.1186/s40623-015-0259-2), 2015.
811. Geller, M. A., T. Zhou, and P. T. Love, Tropical Gravity Wave Momentum Fluxes and Latent Heating Distributions, *J. Atmos. Sci.*, 72, 7, 2762-2768, doi:[10.1175/JAS-D-15-0020.1](https://doi.org/10.1175/JAS-D-15-0020.1), 2015.
812. Girazian, Z., and P. Withers, An empirical model of the extreme ultraviolet solar spectrum as a function of F10.7, *J. Geophys. Res. Space Physics*, 120, 6779-6794, doi:[10.1002/2015JA021436](https://doi.org/10.1002/2015JA021436), 2015.
813. Gong, J., J. Yue, and D. L. Wu, Global survey of concentric gravity waves in AIRS images and ECMWF analysis, *J. Geophys. Res. Atmos.*, 120, 2210-2228, doi:[10.1002/2014JD022527](https://doi.org/10.1002/2014JD022527), 2015.
814. Gopalswamy, N., B. Tsurutani, and Y. Yan, Short-term variability of the Sun-Earth system: an overview of progress made during the CAUSES-II period, *Progress in Earth and Planetary Science*, 2, 1, 13, doi:[10.1186/s40645-015-0043-8](https://doi.org/10.1186/s40645-015-0043-8), 2015.
815. Green, J. R., and T. Robinson, Measuring noise equivalent irradiance of a digital short-wave infrared imaging system using a broadband source to simulate the night spectrum, *Proc. SPIE* 9452, Infrared Imaging Systems: Design, Analysis, Modeling, and Testing XXVI, 945207, doi:[10.1117/12.2180285](https://doi.org/10.1117/12.2180285), 2015.
816. Grygalashvyly, M., Several notes on the OH* layer, *Ann. Geophys.*, 33, 7, 923-930, doi:[10.5194/angeo-33-923-2015](https://doi.org/10.5194/angeo-33-923-2015), 2015.
817. Gu, S.-Y., H. L. Liu, T. Li, X. Dou, Q. Wu, and J. M. Russell III, Evidence of nonlinear interaction between quasi-2 day wave and quasi-stationary wave. *J. Geophys. Res. Space Physics*, 120, doi:[10.1002/2014JA020919](https://doi.org/10.1002/2014JA020919), 2015.
818. Gu, S.-Y., H.-L. Liu, T. Li, and X. Dou, Ionospheric vertical plasma drift perturbations due to the quasi 2 day wave, *J. Geophys. Res. Space Physics*, 120, 5, 2015JA021029, doi:[10.1002/2015JA021029](https://doi.org/10.1002/2015JA021029), 2015.

819. Guharay, A., P. P. Batista, and B. R. Clemesha, Variability of the quasi-2-day wave and interaction with longer period planetary waves in the MLT at Cachoeira Paulista (22.7°S, 45°W), *J. Atmos. Solar-Terr. Phys.*, 130-131, 57-67, doi:[10.1016/j.jastp.2015.05.010](https://doi.org/10.1016/j.jastp.2015.05.010), 2015.
820. Häusler, K., M. E. Hagan, J. M. Forbes, X. Zhang, E. Doornbos, S. Bruinsma, and G. Lu, Intraannual variability of tides in the thermosphere from model simulations and in situ satellite observations, *J. Geophys. Res. Space Physics*, 120, 751-765, doi:[10.1002/2014JA020579](https://doi.org/10.1002/2014JA020579), 2015.
821. Hecht, J. H., A. B. Christensen, J.-H. Yee, G. Crowley, R. L. Bishop, S. A. Budzien, A. W. Stephan, and J. S. Evans, A new technique for remote sensing of O₂ density from 140 to 180 km, *Geophys. Res. Lett.*, 42, 2, 233-240, doi:[10.1002/2014GL062355](https://doi.org/10.1002/2014GL062355), 2015.
822. Henney, C. J., R. A. Hock, A. K. Schooley, W. A. Toussaint, S. M. White, and C. N. Arge, Forecasting Solar Extreme and Far Ultraviolet Irradiance, *Space Weather*, 13, 141-153, doi:[10.1002/2014SW001118](https://doi.org/10.1002/2014SW001118), 2015.
823. Horvath, I., and B. C. Lovell, Positive and negative ionospheric storms occurring during the 15 May 2005 geomagnetic superstorm, *J. Geophys. Res. Space Physics*, 120, 7822-7837, doi:[10.1002/2015JA021206](https://doi.org/10.1002/2015JA021206), 2015.
824. Huang, K. M., A. Z. Liu, S. D. Zhang, F. Yi, C. M. Huang, Q. Gan, Y. Gong, Y. H. Zhang, and R. Wang, Observational evidence of quasi-27-day oscillation propagating from the lower atmosphere to the mesosphere over 20° N, *Ann. Geophys.*, 33, 10, 1321-1330, doi:[10.5194/angeo-33-1321-2015](https://doi.org/10.5194/angeo-33-1321-2015), 2015.
825. Iimura, H., D. C. Fritts, D. Janches, W. Singer, and N. J. Mitchell, Interhemispheric structure and variability of the 5-day planetary wave from meteor radar wind measurements, *Ann. Geophys.*, 33, 11, 1349-1359, doi:[10.5194/angeo-33-1349-2015](https://doi.org/10.5194/angeo-33-1349-2015), 2015.
826. Immel, T. J., G. Liu, S. L. England, L. P. Goncharenko, P. J. Erickson, M. V. Lyashenko, M. Milla, J. Chau, H. U. Frey, S. B. Mende, Q. Zhou, A. Stromme, and L. J. Paxton, The August 2011 URSI World Day campaign: Initial results, *J. Atmos. Solar-Terr. Phys.*, 134, 47-55, doi:[10.1016/j.jastp.2015.09.005](https://doi.org/10.1016/j.jastp.2015.09.005), 2015.
827. Jain, S. K., and A. Bhardwaj, Production of N₂ Vegard–Kaplan and Lyman–Birge–Hopfield emissions on Pluto, *Icarus*, 246, 285-290, doi:[10.1016/j.icarus.2014.08.032](https://doi.org/10.1016/j.icarus.2014.08.032), 2015.
828. Jewtoukoff, V., A. Hertzog, R. Plougonven, A. de la Cámara, and F. Lott, Comparison of Gravity Waves in the Southern Hemisphere Derived from Balloon Observations and the ECMWF Analyses, *J. Atmos. Sci.*, 72, 9, 3449-3468, doi:[10.1175/JAS-D-14-0324.1](https://doi.org/10.1175/JAS-D-14-0324.1), 2015.
829. Jurado-Navarro, Á. A., M. López-Puertas, B. Funke, M. García-Comas, A. Gardini, G. P. Stiller, and T. von Clarmann, Vibrational-vibrational and vibrational-thermal energy transfers of CO₂ with N₂ from MIPAS high-resolution limb spectra, *J. Geophys. Res. Atmos.*, 120, 15, 2015JD023429, doi:[10.1002/2015JD023429](https://doi.org/10.1002/2015JD023429), 2015.
830. Kaifler, B., N. Kaifler, B. Ehard, A. Dörnbrack, M. Rapp, and D. C. Fritts, Influences of source conditions on mountain wave penetration into the stratosphere and mesosphere, *J. Geophys. Res.*, 42, 21, 2015GL066465, doi:[10.1002/2015GL066465](https://doi.org/10.1002/2015GL066465), 2015.
831. Kalita, B. R., P. K. Bhuyan, and A. Yoshikawa, NmF₂ and hmF₂ measurements at 95°E and 127°E around the EIA northern crest during 2010-2014, *Earth, Planets and Space*, 67, 1-22, doi:[10.1186/s40623-015-0355-3](https://doi.org/10.1186/s40623-015-0355-3), 2015.
832. Keckhut, P., Y. Courcoux, J.-L. Baray, J. Porteneuve, H. Vèrèmes, A. Hauchecorne, D. Dionisi, F. Posny, J.-P. Cammas, G. Payen, F. Gabarrot, S. Evan, S. Khaykin, R. Rüfenacht, B. Tschanz, N. Kämpfer, P. Ricaud, A. Abchiche, J. Leclair-de-Bellevue, and V. Duflot, Introduction to the Maïdo Lidar Calibration Campaign dedicated to the validation of upper air meteorological parameters, *J. Appl. Remote Sens.*, 9, 1, 094099-094099, doi:[10.1117/1.JRS.9.094099](https://doi.org/10.1117/1.JRS.9.094099), 2015.

833. Khaykin, S. M., A. Hauchecorne, N. Mzé, and P. Keckhut, Seasonal variation of gravity wave activity at midlatitudes from 7-years of COSMIC GPS and Rayleigh lidar temperature observations, *J. Geophys. Res.*, *42*, 4, 2014GL062891, doi:[10.1002/2014GL062891](https://doi.org/10.1002/2014GL062891), 2015.
834. Kil, H., The Morphology of Equatorial Plasma Bubbles - a review, *J. Astronomy and Space Sciences*, *32*, 1, 13-19, doi:[10.5140/JASS.2015.32.1.13](https://doi.org/10.5140/JASS.2015.32.1.13), 2015.
835. Kil, H., Y.-S. Kwak, W. K. Lee, J. Krall, J. D. Huba, and S.-J. Oh, Nonmigrating tidal signature in the distributions of equatorial plasma bubbles and prereversal enhancement, *J. Geophys. Res. Space Physics*, *120*, 4, 2014JA020908, doi:[10.1002/2014JA020908](https://doi.org/10.1002/2014JA020908), 2015.
836. Kim, Y.-H., and H.-Y. Chun, Contributions of equatorial wave modes and parameterized gravity waves to the tropical QBO in HadGEM2, *J. Geophys. Res. Atmos.*, *120*, 3, 1065-1090, doi:[10.1002/2014JD022174](https://doi.org/10.1002/2014JD022174), 2015.
837. Kim, Y.-H., and H.-Y. Chun, Momentum forcing of the quasi-biennial oscillation by equatorial waves in recent reanalyses, *Atmos. Chem. Phys.*, *15*, 12, 6577-6587, doi:[10.5194/acp-15-6577-2015](https://doi.org/10.5194/acp-15-6577-2015), 2015.
838. Klimenko, M. V., V. V. Klimenko, F. S. Bessarab, Y. N. Korenkov, H. Liu, L. P. Goncharenko, and M. V. Tolstikov, Study of the thermospheric and ionospheric response to the 2009 sudden stratospheric warming using TIME-GCM and GSM TIP models: First results, *J. Geophys. Res. Space Physics*, *120*, 9, 2014JA020861, doi:[10.1002/2014JA020861](https://doi.org/10.1002/2014JA020861), 2015.
839. Klimenko, M. V., V. V. Klimenko, I. E. Zakharenkova, and I. V. Cherniak, The global morphology of the plasmaspheric electron content during Northern winter 2009 based on GPS/COSMIC observation and GSM TIP model results, *Adv. Space Res.*, *55*, 8, 2077-2085, doi:[10.1016/j.asr.2014.06.027](https://doi.org/10.1016/j.asr.2014.06.027), 2015.
840. Kopp, M., M. Gerding, J. Höffner, and F.-J. Lübken, Tidal signatures in temperatures derived from daylight lidar soundings above Kühlungsborn (54°N, 12°E), *J. Atmos. Solar-Terr. Phys.*, *127*, 37-50, doi:[10.1016/j.jastp.2014.09.002](https://doi.org/10.1016/j.jastp.2014.09.002), 2015.
841. Kotova, D. S., M. V. Klimenko, V. V. Klimenko, V. E. Zakharov, K. G. Ratovsky, I. A. Nosikov, and B. Zhaod, Using IRI and GSM TIP model results as environment for HF radio wave propagation model during the geomagnetic storm occurred on September 26–29, 2011, *Adv. Space Res.*, *56*, 9, 2012-2029, doi:[10.1016/j.asr.2015.05.009](https://doi.org/10.1016/j.asr.2015.05.009), 2015.
842. Kramer, R., S. Wüst, C. Schmidt, and M. Bittner, Gravity wave characteristics in the middle atmosphere during the CESAR campaign at Palma de Mallorca in 2011/2012: Impact of extratropical cyclones and cold fronts, *J. Atmos. Solar-Terr. Phys.*, *128*, 8-23, doi:[10.1016/j.jastp.2015.03.001](https://doi.org/10.1016/j.jastp.2015.03.001), 2015.
843. Kuai, J., L. Liu, J. Liu, B. Zhao, Y. Chen, H. Le, and W. Wan, The long-duration positive storm effects in the equatorial ionosphere over Jicamarca. *J. Geophys. Res. Space Physics*, *120*: 1311-1324, doi:[10.1002/2014JA020552](https://doi.org/10.1002/2014JA020552), 2015.
844. Kumar, G. K., K. K. Kumar, G. Baumgarten, and G. Ramkumar, Validation of MERRA reanalysis upper-level winds over low latitudes with independent rocket sounding data, *J. Atmos. Solar-Terr. Phys.*, *123*, 48-54, doi:[10.1016/j.jastp.2014.12.001](https://doi.org/10.1016/j.jastp.2014.12.001), 2015.
845. Kwon, H.-J., K.-H. Kim, G. Jee, J.-S. Park, H. Jin, and Y. Nishimura, Plasmapause location under quiet geomagnetic conditions ($K_p \leq 1$): THEMIS observations, *Geophys. Res. Lett.*, *42*, 7303–7310, doi:[10.1002/2015GL066090](https://doi.org/10.1002/2015GL066090), 2015.
846. Laštovička, J., Comment on “Long-term trends in thermospheric neutral temperatures and density above Millstone Hill” by W. L. Oliver et al., *J. Geophys. Res. Space Physics*, *120*, 3, 2014JA020864, doi:[10.1002/2014JA020864](https://doi.org/10.1002/2014JA020864), 2015.
847. Le Pichon, A., J. D. Assink, P. Heinrich, E. Blanc, A. Charlton-Perez, C. F. Lee, P. Keckhut, A. Hauchecorne, R. Rüfenacht, N. Kämpfer, D. P. Drob, P. S. M. Smets, L. G. Evers, L. Ceranna, C. Pilger, O. Ross, and C. Claud, Comparison of co-located independent ground-based middle atmospheric wind and temperature measurements with numerical weather

- prediction models, *J. Geophys. Res. Atmos.*, *120*, 16, 8318-8331, doi:[10.1002/2015JD023273](https://doi.org/10.1002/2015JD023273), 2015.
848. Lednyts'kyy, O., C. von Savigny, K.-U. Eichmann, and M. G. Mlynczak, Atomic oxygen retrievals in the MLT region from SCIAMACHY nightglow limb measurements, *Atmospheric Measurement Techniques*, *8*, 3, 1021-1041, doi:[10.5194/amt-8-1021-2015](https://doi.org/10.5194/amt-8-1021-2015), 2015.
849. Lee, W. K., H. Kil, Y.-S. Kwak, and L. J. Paxton, Morphology of the postsunset vortex in the equatorial ionospheric plasma drift, *J. Geophys. Res.*, *42*, 9-14, doi:[10.1002/2014GL062019](https://doi.org/10.1002/2014GL062019), 2015.
850. Lemaire, P., J.-C. Vial, W. Curdt, U. Schühle, and K. Wilhelm, Hydrogen Ly-alpha and Ly-beta full Sun line profiles observed with SUMER/SOHO (1996-2009), *Astron. & Astrophys.*, *581*, A26, doi:[10.1051/0004-6361/201526059](https://doi.org/10.1051/0004-6361/201526059), 2015.
851. Li, X., W. Wan, Y. Yu, and Z. Ren, Yearly Variations of the stratospheric tides seen in the CFSR reanalysis data, *Adv. Space Res.*, *56*, 9 1822-1832, doi:[10.1016/j.asr.2015.01.014](https://doi.org/10.1016/j.asr.2015.01.014), 2015.
852. Li, X., W. Wan, Z. Ren, L. Liu, and B. Ning, The variability of nonmigrating tides detected from TIMED/SABER observations, *J. Geophys. Res. Space Physics*, 2015JA021577, doi:[10.1002/2015JA021577](https://doi.org/10.1002/2015JA021577), 2015.
853. Lieberman, R. S., D. C. Fritts, N. Pedatella, E. Doornbos, and D. A. Ortland, Global observations of thermospheric lunar tidal winds, *J. Atmos. Solar-Terr. Phys.*, *136*, Part B, 126-133, doi:[10.1016/j.jastp.2015.05.019](https://doi.org/10.1016/j.jastp.2015.05.019), 2015.
854. Lilienthal, F., and Ch. Jacobi, Meteor radar quasi 2-day wave observations over 10 years at Collm (51.3° N, 13.0° E), *Atmos. Chem. Phys.*, *15*, 17, 9917-9927, doi:[10.5194/acp-15-9917-2015](https://doi.org/10.5194/acp-15-9917-2015), 2015.
855. Liu, G., S. L. England, T. J. Immel, H. U. Frey, A. J. Mannucci, and N. J. Mitchell, A comprehensive survey of atmospheric quasi 3-day planetary-scale waves and their impacts on the day-to-day variations of the equatorial ionosphere, *J. Geophys. Res. Space Physics*, *120*, 4, 2014JA020805, doi:[10.1002/2014JA020805](https://doi.org/10.1002/2014JA020805), 2015.
856. Liu, W., J. Xu, A. K. Smith, and W. Yuan, Comparison of rotational temperature derived from ground-based OH airglow observations with TIMED/SABER to evaluate the Einstein coefficients, *J. Geophys. Res. Space Physics*, *120*, 11, 2015JA021886, doi:[10.1002/2015JA021886](https://doi.org/10.1002/2015JA021886), 2015.
857. Liu, X., J. Yue, J. Xu, W. Yuan, J. M. Russell III, and M. E. Hervig, Five-day waves in polar stratosphere and mesosphere temperature and mesospheric ice water measured by SOFIE/AIM, *J. Geophys. Res. Atmos.*, *120*, 9, 2015JD023119, doi:[10.1002/2015JD023119](https://doi.org/10.1002/2015JD023119), 2015.
858. Lu, X., X. Chu, W. Fong, C. Chen, Z. Yu, . R. Roberts, and A. J. McDonald, 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), *J. Geophys. Res. Atmos.*, *120*, 7, 2014JD022751, doi:[10.1002/2014JD022751](https://doi.org/10.1002/2014JD022751), 2015.
859. Luan, X., W. Wang, X. Dou, A. Burns, and X. Yue, Longitudinal variations of the nighttime E layer electron density in the auroral zone, *J. Geophys. Res. Space Physics*, *120*, 825-833, doi:[10.1002/2014JA020610](https://doi.org/10.1002/2014JA020610), 2015.
860. Lukianova, R., A. Kozlovsky, S. Shalimov, T. Ulich, and M. Lester, Thermal and dynamical perturbations in the winter polar mesosphere-lower thermosphere region associated with sudden stratospheric warmings under conditions of low solar activity, *J. Geophys. Res. Space Physics*, *120*, 6, 2015JA021269, doi:[10.1002/2015JA021269](https://doi.org/10.1002/2015JA021269), 2015.
861. Luo, W., Z. Zhu, J. Lan, and X. Li, Characteristics of ionospheric north-south asymmetry and their relationship with irregularity, *Wuhan Univ. J. Nat. Sci.*, *20*, 3, 240-246, doi:[10.1007/s11859-015-1088-7](https://doi.org/10.1007/s11859-015-1088-7), 2015.

862. Ma, R., J. Xu, W. Wang, G. Chen, W. Yuan, J. Lei, A. G. Burns, and G. Jiang, Characteristics and mechanisms of the annual asymmetry of thermospheric mass density, *Sci. China Earth Sci.*, 58, 540-550, doi:[10.1007/s11430-014-5020-3](https://doi.org/10.1007/s11430-014-5020-3), 2015.
863. Madhavi, G. N., P. Kishore, S. V. B. Rao, I. Velicogna, and G. Basha, Two-day wave observations over the middle and high latitudes in the NH and SH using COSMIC GPSRO measurements, *Adv. Space Res.*, 55, 2, 722-731, doi:[10.1016/j.asr.2014.09.032](https://doi.org/10.1016/j.asr.2014.09.032), 2015.
864. Maes, L., R. Maggiolo, J. De Keyser, I. Dandouras, R. C. Fear, D. Fontaine, and S. Haaland, Solar illumination control of ionospheric outflow above polar cap arcs, *Geophys. Res. Lett.*, 42: 1304–1311, doi:[10.1002/2014GL062972](https://doi.org/10.1002/2014GL062972), 2015.
865. Mailyan, B., Q. Q. Shi, A. Kullen, R. Maggiolo, Y. Zhang, R. C. Fear, Q.-G. Zong, S. Y. Fu, X. C. Gou, X. Cao, Z. H. Yao, W. J. Sun, Y. Wei, and Z. Y. Pu, Transpolar arc observation after solar wind entry into the high-latitude magnetosphere. *J. Geophys. Res. Space Physics*, 120, 3525-3534, doi:[10.1002/2014JA020912](https://doi.org/10.1002/2014JA020912), 2015.
866. Manju, G., and M. K. M. Haridas, On the equinoctial asymmetry in the threshold height for the occurrence of equatorial spread F, 2015, *J. Atmos. Solar-Terr. Phys.*, 124, 56-62, doi:[10.1016/j.jastp.2015.01.008](https://doi.org/10.1016/j.jastp.2015.01.008), 2015.
867. Mannucci, A. J., B. T. Tsurutani, O. Verkhoglyadova, A. Komjathy, and X. Pi, Use of radio occultation to probe the high-latitude ionosphere, *Atmos. Meas. Tech.*, 8, 7, 2789-2800, doi:[10.5194/amt-8-2789-2015](https://doi.org/10.5194/amt-8-2789-2015), 2015.
868. Manuilova, R. O., A. G. Feofilov, A. A. Kutepov, and V. A. Yankovsky, Effect of updated relaxation rate constants on the H₂O vibrational level populations and ro-vibrational spectra in the mesosphere and lower thermosphere, *Adv. Space Res.*, 56, 9, 1806-1814, doi:[10.1016/j.asr.2014.12.002](https://doi.org/10.1016/j.asr.2014.12.002), 2015.
869. Mao, T., L. Sun, . Hu, Y. Wang, and Z. Wang, A case study of ionospheric storm effects in the Chinese sector during the October 2013 geomagnetic storm, *Adv. Space Res.*, 56, 9, 2030-2039, doi:[10.1016/j.asr.2015.05.045](https://doi.org/10.1016/j.asr.2015.05.045), 2015.
870. Marchaudon, A., and P.-L. Blelly, A new interhemispheric 16-moment model of the plasmasphere-ionosphere system: IPIM, *J. Geophys. Res. Space Physics*, 120, 5728–5745, doi:[10.1002/2015JA021193](https://doi.org/10.1002/2015JA021193), 2015.
871. Marsal, S., Conductivities consistent with Birkeland currents in the AMPERE-driven TIE-GCM, *J. Geophys. Res. Space Physics*, 120, 8045–8065, doi:[10.1002/2015JA021385](https://doi.org/10.1002/2015JA021385), 2015.
872. Martinis, C., J. Baumgardner, M. Mendillo, J. Wroten, A. Coster, and L. J. Paxton, The night when the auroral and equatorial ionospheres converged, *J. Geophys. Res. Space Physics*, 120, 8085-8095, doi:[10.1002/2015JA021555](https://doi.org/10.1002/2015JA021555), 2015.
873. Matamba, T. M., J. B. Habarulema, and L.-A. McKinnell, Statistical analysis of the ionospheric response during geomagnetic storm conditions over South Africa using ionosonde and GPS data, *Space Weather*, 13, 536-547, doi:[10.1002/2015SW001218](https://doi.org/10.1002/2015SW001218), 2015.
874. Maute, A., M. E. Hagan, V. Yudin, H.-L. Liu, and E. Yizengaw, Causes of the longitudinal differences in the equatorial vertical $E \times B$ drift during the 2013 SSW period as simulated by the TIME-GCM, *J. Geophys. Res. Space Physics*, 120, 6, 2015JA021126, doi:[10.1002/2015JA021126](https://doi.org/10.1002/2015JA021126), 2015.
875. McDonald, S. E., F. Sassi, and A. J. Mannucci, SAMI3/SD-WACCM-X simulations of ionospheric variability during northern winter 2009, *Space Weather*, 13, 9, 2015SW001223, doi:[10.1002/2015SW001223](https://doi.org/10.1002/2015SW001223), 2015.
876. McIntosh, S. W., R. J. Leamon, L. D. Krista, A. M. Title, H. Hudson, P. Riley, J. W. Harder, G. Kopp, M. Snow, T. N. Woods, J. C. Kasper, M. L. Stevens, and R. K. Ulrich, The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability, [Nature Comm.](https://doi.org/10.1038/ncomms7491), 6, 6491, doi:10.1038/ncomms7491, 2015.
877. Medvedev, A. S., F. González-Galindo, E. Yiğit, A. G. Feofilov, F. Forget, and P. Hartogh, Cooling of the Martian thermosphere by CO₂ radiation and gravity waves: An

- intercomparison study with two general circulation models, *J. Geophys. Res. Planets*, 120, 5, 913-927, doi:[10.1002/2015JE004802](https://doi.org/10.1002/2015JE004802), 2015.
878. Medvedeva, I. V., A. Medvedev, K. Ratovsky, A. Shcherbakov, and M. Tolstikov, Comprehensive study of disturbances of the neutral atmosphere and ionosphere parameters over Eastern Siberia during the 2013 January major sudden stratospheric warming, *Adv. Space Res.*, 56, 9, 1877-1885, doi:[10.1016/j.asr.2015.06.008](https://doi.org/10.1016/j.asr.2015.06.008), 2015.
879. Merzlyakov, E. G., C. Jacobi, and T. V. Solovjova, The year-to-year variability of the autumn transition dates in the mesosphere/lower thermosphere wind regime and its coupling with the dynamics of the stratosphere and troposphere, *J. Atmos. Solar-Terr. Phys.*, 122, 9-17, doi:[10.1016/j.jastp.2014.11.002](https://doi.org/10.1016/j.jastp.2014.11.002), 2015.
880. Migliorini, A., J. C. Gérard, L. Soret, G. Piccioni, F. Capaccioni, G. Filacchione, M. Snels, and F. Tosi, Terrestrial OH nightglow measurements during the Rosetta flyby, *J. Geophys. Res.*, 42, 13, 2015GL064485, doi:[10.1002/2015GL064485](https://doi.org/10.1002/2015GL064485), 2015.
881. Mikhailov, A. V., and L. Perrone, The annual asymmetry in the F 2 layer during deep solar minimum (2008-2009): December anomaly, *J. Geophys. Res. Space Physics*, 120, 2, 1341-1354, doi:[10.1002/2014JA020929](https://doi.org/10.1002/2014JA020929), 2015.
882. Milligan, R. O., Extreme Ultra-Violet Spectroscopy of the Flaring Solar Chromosphere, *Sol. Phys.*, 290, 3399-3423, doi:[10.1007/s11207-015-0748-2](https://doi.org/10.1007/s11207-015-0748-2), 2015.
883. Mlynczak, M. G., L. A. Hunt, B. T. Marshall, J. M. Russell III, C. J. Mertens, R. E. Thompson, and L. L. Gordley, A combined solar and geomagnetic index for thermospheric climate, *J. Geophys. Res.*, 42, 10, 2015GL064038, doi:[10.1002/2015GL064038](https://doi.org/10.1002/2015GL064038), 2015.
884. Mohammad, S., G. Dutta, B. V. Rao, and P. V. Kumar, Equatorial wave activity during 2007 over Gadanki, a tropical station, *J. Earth Syst. Sci.*, 124, 4, 897-908, doi:[10.1007/s12040-015-0566-9](https://doi.org/10.1007/s12040-015-0566-9), 2015.
885. Moreira, L., K. Hocke, E. Eckert, T. von Clarmann, and N. Kämpfer, Trend analysis of the 20-year time series of stratospheric ozone profiles observed by the GROMOS microwave radiometer at Bern, *Atmos. Chem. Phys.*, 15, 19, 10999-11009, doi:[10.5194/acp-15-10999-2015](https://doi.org/10.5194/acp-15-10999-2015), 2015.
886. Motoba, T., K. Takahashi, A. Ukhorskiy, M. Gkioulidou, D. G. Mitchell, L. J. Lanzerotti, G. I. Korotova, E. Donovan, J. R. Wygant, C. A. Kletzin, W. Kurth, and J. B. Blake, Link between pre-midnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probes spacecraft and a THEMIS all-sky imager, *J. Geophys. Res. Space Physics*, 120, 1814-1831, doi:[10.1002/2014JA020863](https://doi.org/10.1002/2014JA020863), 2015.
887. Mukhtarov, P., and D. Pancheva, Winter-time dependence of the global TEC on the stratospheric temperature and solar radiation, *J. Atmos. Solar-Terr. Phys.*, 136, Part B, 134-149, doi:[10.1016/j.jastp.2015.05.021](https://doi.org/10.1016/j.jastp.2015.05.021), 2015.
888. Nath, O., S. Sridharan, and H. Gadhavi, Equatorial stratospheric thermal structure and ozone variations during the sudden stratospheric warming of 2013, *J. Atmos. Solar-Terr. Phys.*, 122, 129-137, doi:[10.1016/j.jastp.2014.11.003](https://doi.org/10.1016/j.jastp.2014.11.003), 2015.
889. Negrea, C., N. Zabolotin, T. Bullett, M. Codrescu, and T. Fuller-Rowell, Ionospheric response to tidal waves measured by Dynasonde techniques, *J. Geophys. Res. Space Physics*, 121, 602-611, doi:[10.1002/2015JA021574](https://doi.org/10.1002/2015JA021574), 2015.
890. Noll, S., W. Kausch, S. Kimeswenger, S. Unterguggenberger, and A. M. Jones, OH populations and temperatures from simultaneous spectroscopic observations of 25 bands, *Atmos. Chem. Phys.*, 15, 7, 3647-3669, doi:[10.5194/acp-15-3647-2015](https://doi.org/10.5194/acp-15-3647-2015), 2015.
891. Nygrén, T., A. T. Aikio, M. Voiculescu, and L. Cai, Radar observations of simultaneous traveling ionospheric disturbances and atmospheric gravity waves. *J. Geophys. Res. Space Physics*, 120, 3949-3960, doi:[10.1002/2014JA020794](https://doi.org/10.1002/2014JA020794), 2015.

892. Oberheide, J., K. Shiokawa, S. Gurubaran, W. E. Ward, H. Fujiwara, M. J. Kosch, J. J. Makela, and H. Takahashi, The geospace response to variable inputs from the lower atmosphere: a review of the progress made by Task Group 4 of CAWSES-II, *Progress in Earth and Planetary Science*, 2, 1, doi:[10.1186/s40645-014-0031-4](https://doi.org/10.1186/s40645-014-0031-4), 2015.
893. Offermann, D., O. Goussev, C. Kalicinsky, R. Koppmann, K. Matthes, H. Schmidt, W. Steinbrecht, and J. Wintel, A case study of multi-annual temperature oscillations in the atmosphere: Middle Europe, *J. Atmos. Solar-Terr. Phys.*, 135, 1-11, doi:[10.1016/j.jastp.2015.10.003](https://doi.org/10.1016/j.jastp.2015.10.003), 2015.
894. Ogorzalek, B., S. Osterman, U. Carlsson, M. Grey, J. Hicks, R. Hourani, S. Kerem, K. Marcotte, C. Parker, and L. J. Paxton, SSUSI-Lite: a far-ultraviolet hyper-spectral imager for space weather remote sensing, Proc. SPIE 9604, *Sol. Physics and Space Weather Instrumentation VI*, 960402, doi:[10.1117/12.2191701](https://doi.org/10.1117/12.2191701), 2015.
895. Pal, S., S. Chakraborty, and S. K. Chakrabarti, On the use of Very Low Frequency transmitter data for remote sensing of atmospheric gravity and planetary waves, *Adv. Space Res.*, 55, 4, 1190-1198, doi:[10.1016/j.asr.2014.11.023](https://doi.org/10.1016/j.asr.2014.11.023), 2015.
896. Paul, A., H. Haralambous, and C. Oikonomou, Characteristics of post-midnight L-band scintillation in the transition region from the equatorial to mid-latitudes over the Indian longitude sector using COSMIC, C/NOFS and GPS measurements, *Radio Sci.*, 50, 1246-1255, doi:[10.1002/2015RS005807](https://doi.org/10.1002/2015RS005807), 2015.
897. Paulino, A. R., P. P. Batista, L. M. Lima, B. R. Clemesha, R. A. Buriti, and N. Schuch, The lunar tides in the mesosphere and lower thermosphere over Brazilian sector, *J. Atmos. Solar-Terr. Phys.*, 133, 129-138, doi:[10.1016/j.jastp.2015.08.011](https://doi.org/10.1016/j.jastp.2015.08.011), 2015.
898. Pearlman, A. J., F. Padula, C. Cao, and X. Wu, The GOES-R Advanced Baseline Imager: detector spectral response effects on thermal emissive band calibration, Proc. SPIE 9639, Sensors, Systems, and Next-Generation Satellites XIX, 963917, doi:[10.1117/12.2195195](https://doi.org/10.1117/12.2195195), 2015.
899. Pendlebury, D., D. Plummer, J. Scinocca, P. Sheese, K. Strong, K. Walker, and D. Degenstein, Comparison of the CMAM30 data set with ACE-FTS and OSIRIS: polar regions, *Atmos. Chem. Phys. Discuss.*, 15, 8, 11179-11221, doi:[10.5194/acpd-15-11179-2015](https://doi.org/10.5194/acpd-15-11179-2015), 2015.
900. Perwitasari, S., T. Sakanoi, A. Yamazaki, Y. Otsuka, Y. Hozumi, Y. Akiya, A. Saito, K. Shiokawa, and S. Kawamura, Coordinated airglow observations between IMAF/VISI and a ground-based all-sky imager on concentric gravity wave in the mesopause, *J. Geophys. Res. Space Physics*, 120, 11, 2015JA021424, doi:[10.1002/2015JA021424](https://doi.org/10.1002/2015JA021424), 2015.
901. Pilinski, M. D., and G. Crowley, Seasonal variability in global eddy diffusion and the effect on neutral density. *J. Geophys. Res. Space Physics*, 120, 3097-3117, doi:[10.1002/2015JA021084](https://doi.org/10.1002/2015JA021084), 2015.
902. Placke, M., P. Hoffmann, and M. Rapp, First experimental verification of summertime mesospheric momentum balance based on radar wind measurements at 69N, *Ann. Geophys.*, 33, 9, doi:[10.5194/angeo-33-1091-2015](https://doi.org/10.5194/angeo-33-1091-2015), 1091-1096, 2015.
903. Placke, M., P. Hoffmann, R. Latteck, and M. Rapp, Gravity wave momentum fluxes from MF and meteor radar measurements in the polar MLT region, *J. Geophys. Res. Space Physics*, 120, 1, 736-750, doi:[10.1002/2014JA020460](https://doi.org/10.1002/2014JA020460), 2015.
904. Polekh, N. M., E. B. Romanova, K. G. Ratovsky, J. K. Shi, X. Wang, and G. J. Wang, Studying the G condition occurrence in different latitudes under solar minimum: Observation and modeling, *J. Atmos. Solar-Terr. Phys.*, 130-131, 132-141, doi:[10.1016/j.jastp.2015.06.001](https://doi.org/10.1016/j.jastp.2015.06.001), 2015.
905. Pramitha, M., M. V. Ratnam, A. Taori, B. V. K. Murthy, D. Pallamraju, and S. V. B. Rao, Evidence for tropospheric wind shear excitation of high-phase-speed gravity waves reaching the mesosphere using the ray-tracing technique, *Atmos. Chem. Phys.*, 15, 5, 2709-2721, doi:[10.5194/acp-15-2709-2015](https://doi.org/10.5194/acp-15-2709-2015), 2015.

906. Prikryl, P., R. Ghoddousi-Fard, E. G. Thomas, J. M. Ruohoniemi, S. G. Shepherd, P. T. Jayachandran, D. W. Danskin, E. Spanswick, Y. Zhang, Y. Jiao, and Y. T. Morton, GPS phase scintillation at high latitudes during geomagnetic storms of 7–17 March 2012—Part 1: The North American sector, *Ann. Geophys.*, *33*, 6, 637-656, doi:[10.5194/angeo-33-637-2015](https://doi.org/10.5194/angeo-33-637-2015), 2015.
907. Qin, J., J. J. Makela, F. Kamalabadi, and R. R. Meier, Radiative transfer modeling of the OI 135.6 nm emission in the nighttime ionosphere, *J. Geophys. Res. Space Physics*, *120*, 10116-10135, doi:[10.1002/2015JA021687](https://doi.org/10.1002/2015JA021687), 2015.
908. Qiu, S. C., Y. H. Tang, and X. K. Dou, Temperature controlled icy dust reservoir of sodium: a possible mechanism for the formation of sporadic sodium layers, *Adv. Space Res.*, *55*, 11, 2543-2565, doi:[10.1016/j.asr.2015.02.011](https://doi.org/10.1016/j.asr.2015.02.011), 2015.
909. Ramesh, K., S. Sridharan, and S. Vijaya Bhaskara Rao, Influence of solar cycle and chemistry on tropical (10°N-15°N) mesopause variabilities, *J. Geophys. Res. Space Physics*, *120*, 5, 2014JA020930, doi:[10.1002/2014JA020930](https://doi.org/10.1002/2014JA020930), 2015.
910. Ramsingh, S. S., S. Sreekumar, S. Banola, K. Emperumal, P. Tiwari, and B. S. Kumar, Low-latitude ionosphere response to super geomagnetic storm of 17/18 March 2015: Results from a chain of ground-based observations over Indian sector, *J. Geophys. Res. Space Physics*, *120*, doi:[10.1002/2015JA021509](https://doi.org/10.1002/2015JA021509), 2015.
911. Randall, C. E., V. L. Harvey, L. A. Holt, D. R. Marsh, D. Kinnison, B. Funke, and P. F. Bernath, Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter, *J. Geophys. Res. Space Physics*, *120*, 6, 2015JA021196, doi:[10.1002/2015JA021196](https://doi.org/10.1002/2015JA021196), 2015.
912. Rezac, L., A. Kutepov, J. M. Russell III, A. G. Feofilov, J. Yue, and R. A. Goldberg, Simultaneous retrieval of T(p) and CO₂ VMR from two-channel non-LTE limb radiances and application to daytime SABER/TIMED measurements, *J. Atmos. Solar-Terr. Phys.*, *130-131*, 23-42, doi:[10.1016/j.jastp.2015.05.004](https://doi.org/10.1016/j.jastp.2015.05.004), 2015.
913. Rezac, L., Y. Jian, J. Yue, J. M. Russell III, A. Kutepov, R. Garcia, K. Walker, and P. Bernath, Validation of the global distribution of CO₂ volume mixing ratio in the mesosphere and lower thermosphere from SABER, *J. Geophys. Res. Atmos.*, *120*, 23, 2015JD023955, doi:[10.1002/2015JD023955](https://doi.org/10.1002/2015JD023955), 2015.
914. Ribstein, B., U. Achatz, and F. Senf, The interaction between gravity waves and solar tides: Results from 4-D ray tracing coupled to a linear tidal model, *J. Geophys. Res. Space Physics*, *120*, 8, 2015JA021349, doi:[10.1002/2015JA021349](https://doi.org/10.1002/2015JA021349), 2015.
915. Richmond, A. D., and T.-W. Fang, Electrodynamics of the equatorial evening ionosphere: 2. Conductivity influences on convection, current, and electrodynamic energy flow, *J. Geophys. Res. Space Physics*, *120*, 2133–2147, doi:[10.1002/2014JA020935](https://doi.org/10.1002/2014JA020935), 2015.
916. Ruan, H., J. Du, M. Cook, W. Wang, J. Yue, Q. Gan, X. Dou, and J. Lei, A numerical study of the effects of migrating tides on thermosphere midnight density maximum, *J. Geophys. Res. Space Physics*, *120*, 8, 2015JA021190, doi:[10.1002/2015JA021190](https://doi.org/10.1002/2015JA021190), 2015.
917. Ryskin, V. G., and A. T. Orozobakov, Microwave ground-based measurements of ozone diurnal variations in the upper stratosphere over Kirgizia, *Izvestiya, Atmospheric and Oceanic Physics*, *51*, 1, 75-81, doi:[10.1134/S0001433815010090](https://doi.org/10.1134/S0001433815010090), 2015.
918. Šácha, P., A. Kuchař, C. Jacobi, and P. Pišoft, Enhanced internal gravity wave activity and breaking over the northeastern Pacific-eastern Asian region, *Atmos. Chem. Phys.*, *15*, 22, 13097-13112, doi:[10.5194/acp-15-13097-2015](https://doi.org/10.5194/acp-15-13097-2015), 2015.
919. Sakazaki, T., K. Sato, Y. Kawatani, and S. Watanabe, Three-dimensional structures of tropical nonmigrating tides in a high-vertical-resolution global circulation model, *J. Geophys. Res. Atmos.*, *120*, 1759-1775, doi:[10.1002/2014JD022464](https://doi.org/10.1002/2014JD022464), 2015.
920. Sakazaki, T., M. Shiotani, M. Suzuki, D. Kinnison, J. M. Zawodny, M. McHugh, and K. A. Walker, Sunset-sunrise difference in solar occultation ozone measurements (SAGE II,

- HALOE, and ACE-FTS) and its relationship to tidal vertical winds, *Atmos. Chem. Phys.*, *15*, 2, doi:[10.5194/acp-15-829-2015](https://doi.org/10.5194/acp-15-829-2015), 2015.
921. Sakazaki, T., T. Sasaki, M. Shiotani, Y. Tomikawa, and D. Kinnison, Zonally uniform tidal oscillations in the tropical stratosphere, *J. Geophys. Res.*, *42*, 21, 2015GL066054, doi:[10.1002/2015GL066054](https://doi.org/10.1002/2015GL066054), 2015.
922. Sarkhel, S., J. D. Mathews, S. Raizada, R. Sekar, D. Chakrabarty, A. Guharay, G. Jee, J.-H. Kim, R. B. Kerr, G. Ramkumar, S. Sridharan, Q. Wu, M. G. Mlynczak, and J. M. Russell III, A case study on occurrence of an unusual structure in the sodium layer over Gadanki, India, *Earth, Planets and Space*, *67*, 1, 19, doi:[10.1186/s40623-015-0183-5](https://doi.org/10.1186/s40623-015-0183-5), 2015.
923. Sato, K., and M. Nomoto, Gravity Wave-Induced Anomalous Potential Vorticity Gradient Generating Planetary Waves in the Winter Mesosphere, *J. Atmos. Sci.*, *72*, 9, 3609-3624, doi:[10.1175/JAS-D-15-0046.1](https://doi.org/10.1175/JAS-D-15-0046.1), 2015.
924. Schmidtke, G., S. V. Avakyan, J. Berdermann, V. Bothmer, G. Cessateur, L. Ciraol, L. Didkovsky, T. Dudok de Wit, F. G. Eparvier, A. Gottwald, M. Haberreiter, R. Hammer, C. Jacobi, N. Jakowski, M. Kretschmar, J. Lilensten, M. Pfeifer, S. M. Radicella, R. Schäfer, W. Schmidt, S. C. Solomon, G. Thuillier, W. K. Tobiska, S. Wieman, and T. N. Woods, Where does the Thermospheric Ionospheric GEospheric Research (TIGER) Program go?, *Adv. Space Res.*, *56*, 8, 1547-1577, doi:[10.1016/j.asr.2015.07.043](https://doi.org/10.1016/j.asr.2015.07.043), 2015.
925. Sharma, R. D., P. P. Wintersteiner, and K. S. Kalogerakis, A new mechanism for OH vibrational relaxation leading to enhanced CO₂ emissions in the nocturnal mesosphere, *J. Geophys. Res.*, *42*, 11, 2015GL063724, doi:[10.1002/2015GL063724](https://doi.org/10.1002/2015GL063724), 2015.
926. Sharma, R. D., Technical Note: On the possibly missing mechanism of 15 μm emission in the mesosphere–lower thermosphere (MLT), *Atmos. Chem. Phys.*, *15*, 4, doi:[10.5194/acp-15-1661-2015](https://doi.org/10.5194/acp-15-1661-2015), 2015.
927. Sharma, S., H. Chandra, S. Lal, Y. B. Acharya, A. Jayaraman, H. Gadhavi, S. Sridharan, and S. Chandra, Study of thermal structure differences from coordinated lidar observations over Mt. Abu (24.5° N, 72.7° E) and Gadanki (13.5° N, 79.2° E), *Earth, Planets and Space*, *67*, 1, 104, doi:[10.1186/s40623-015-0258-3](https://doi.org/10.1186/s40623-015-0258-3), 2015.
928. Sheng, Z., Y. Jiang, L. Wan, and Z. Q. Fan, A Study of Atmospheric Temperature and Wind Profiles Obtained from Rocketsondes in the Chinese Midlatitude Region, *J. Atmos. Oceanic Technol.*, *32*, 4, 722-735, doi:[10.1175/JTECH-D-14-00163.1](https://doi.org/10.1175/JTECH-D-14-00163.1), 2015.
929. Shimeis, A., C. Borries, C. Amory-Mazaudier, R. Fleury, A. M. Mahrous, A. F. Hassan, and S. Nawar, TEC Variations along an East Euro-African Chain during 5th April 2010 Geomagnetic Storm, *Adv. Space Res.*, *55*, 9, 2239-2247, doi:[10.1016/j.asr.2015.01.005](https://doi.org/10.1016/j.asr.2015.01.005), 2015.
930. Siddiqui, T. A., C. Stolle, H. Lühr, and J. Matzka, On the relationship between weakening of the northern polar vortex and the lunar tidal amplification in the equatorial electrojet, *J. Geophys. Res. Space Physics*, *120*, 11, 2015JA021683, doi:[10.1002/2015JA021683](https://doi.org/10.1002/2015JA021683), 2015.
931. Singh, R. P., and D. Pallamraju, On the latitudinal distribution of mesospheric temperatures during sudden stratospheric warming events, *J. Geophys. Res. Space Physics*, *120*, 4, 2014JA020355, doi:[10.1002/2014JA020355](https://doi.org/10.1002/2014JA020355), 2015.
932. Siskind, D. E., M. G. Mlynczak, T. Marshall, M. Friedrich, and J. Gumbel, Implications of odd oxygen observations by the TIMED/SABER instrument for lower D region ionospheric modeling, *J. Atmos. Solar-Terr. Phys.*, *124*, doi:[10.1016/j.jastp.2015.01.014](https://doi.org/10.1016/j.jastp.2015.01.014), 2015.
933. Sivakandan, M., A. Taori, S. Sathishkumar, and A. Jayaraman, Multi-instrument investigation of a mesospheric gravity wave event absorbed into background, *J. Geophys. Res. Space Physics*, *120*, 4, 2014JA020896, doi:[10.1002/2014JA020896](https://doi.org/10.1002/2014JA020896), 2015.
934. Smith, A. K., M. López-Puertas, J. Xu, and M. G. Mlynczak, The heating efficiency of the exothermic reaction H + O₃ in the mesosphere, *J. Geophys. Res. Atmos.*, *120*, 12739-12747, 2015JD024061, doi:[10.1002/2015JD024061](https://doi.org/10.1002/2015JD024061), 2015.

935. Solomentsev, D., Y. Cherniak, A. Titov, B. Khattatov, and V. Khattatov, Towards estimation of atmospheric tidal effects on the ionosphere via data assimilation, *Adv. Space Res.*, *56*, 1854-1862, doi:[10.1016/j.asr.2015.07.014](https://doi.org/10.1016/j.asr.2015.07.014), 2015.
936. Solomon, S. C., L. Qian, and R. G. Roble, New 3-D simulations of climate change in the thermosphere, *J. Geophys. Res. Space Physics*, *120*, 3, doi:[10.1002/2014JA020886](https://doi.org/10.1002/2014JA020886), 2015.
937. Stevens, M. H., J. S. Evans, J. Lumpe, J. H. Westlake, J. M. Ajello, E. T. Bradley, and L. W. Esposito, Molecular nitrogen and methane density retrievals from Cassini UVIS dayglow observations of Titan's upper atmosphere, *Icarus*, *247*, 301-312, doi:[10.1016/j.icarus.2014.10.008](https://doi.org/10.1016/j.icarus.2014.10.008), 2015.
938. Sumod, S. G., T. K. Pant, C. Vineeth, and M. M. Hossain, Unusual depletion of OI 630.0-nm dayglow and simultaneous mesopause heating during the penetration of interplanetary electric field over dip equator, *J. Geophys. Res. Space Physics*, *120*, 3, 2014JA020584, doi:[10.1002/2014JA020584](https://doi.org/10.1002/2014JA020584), 2015.
939. Tesema, F., B. Damtie, and M. Nigussie, The response of the ionosphere to intense geomagnetic storms in 2012 using GPS-TEC data from East Africa longitudinal sector, *J. Atmos. Solar-Terr. Phys.*, *135*, 143-151, doi:[10.1016/j.jastp.2015.10.021](https://doi.org/10.1016/j.jastp.2015.10.021), 2015.
940. Trinh, Q. T., S. Kalisch, P. Preusse, H.-Y. Chun, S. D. Eckermann, M. Ern, and M. Riese, A comprehensive observational filter for satellite infrared limb sounding of gravity waves, *Atmospheric Measurement Techniques*, *8*, 3, 1491-1517, doi:[10.5194/amt-8-1491-2015](https://doi.org/10.5194/amt-8-1491-2015), 2015.
941. Tu, C., X. Hu, Q. Xu, L. Song, and H. Li, Space-borne imager of mesospheric gravity waves, *Proc. SPIE 9678*, AOPC 2015: Telescope and Space Optical Instrumentation, 96780E (October 8, 2015), doi:[10.1117/12.2197894](https://doi.org/10.1117/12.2197894), 2015.
942. Verkhoglyadova, O. P., A. J. Mannucci, B. T. Tsurutani, M. G. Mlynczak, L. A. Hunt, R. J. Redmon, and J. C. Green, Localized thermosphere ionization events during the high-speed stream interval of 29 April to 5 May 2011, *J. Geophys. Res. Space Physics*, *120*, 1, doi:[10.1002/2014JA020535](https://doi.org/10.1002/2014JA020535), 2015.
943. Verkhoglyadova, O. P., S. Wang, M. G. Mlynczak, L. A. Hunt, and G. P. Zank, Effects of two large solar energetic particle events on middle atmosphere nighttime odd hydrogen and ozone content: Aura/MLS and TIMED/SABER measurements, *J. Geophys. Res. Space Physics*, *120*, 1, doi:[10.1002/2014JA020609](https://doi.org/10.1002/2014JA020609), 2015.
944. Vigren, E., M. Galand, A. I. Eriksson, N. J. T. Edberg, E. Odelstad, and S. J. Schwartz, On the Electron-to-Neutral Number Density Ratio in the Coma of Comet 67P/Churyumov-Gerasimenko: Guiding Expression and Sources for Deviations, *Astrophys. J.*, *812*, 54, doi:[10.1088/0004-637X/812/1/54](https://doi.org/10.1088/0004-637X/812/1/54), 2015.
945. Vincent, R. A., The dynamics of the mesosphere and lower thermosphere: a brief review, *Progress in Earth and Planetary Science*, *2*, 1, 4, doi:[10.1186/s40645-015-0035-8](https://doi.org/10.1186/s40645-015-0035-8), 2015.
946. von Savigny, C., O. Lednyts'kyy, J. M. Forbes, and X. Zhang, Lunar semidiurnal tide in the terrestrial airglow, *J. Geophys. Res.*, *42*, 9, 2015GL063567, doi:[10.1002/2015GL063567](https://doi.org/10.1002/2015GL063567), 2015.
947. von Savigny, C., Variability of OH(3-1) emission altitude from 2003 to 2011: Long-term stability and universality of the emission rate-altitude relationship, *J. Atmos. Solar-Terr. Phys.*, *127*, 120-128, doi:[10.1016/j.jastp.2015.02.001](https://doi.org/10.1016/j.jastp.2015.02.001), 2015.
948. Walterscheid, R. L., J. H. Hecht, L. J. Gelinas, A. MacKinnon, R. A. Vincent, I. M. Reid, S. J. Franke, Y. Zhao, M. J. Taylor, and P. D. Pautet, Simultaneous observations of the phase-locked 2 day wave at Adelaide, Cerro Pachon, and Darwin, *J. Geophys. Res. Atmos.*, *120*, 1808-1825, doi:[10.1002/2014JD022016](https://doi.org/10.1002/2014JD022016), 2015.
949. Wang, S., S. Huang, and H. Fang, Wave-3 and wave-4 patterns in the low- and mid-latitude ionospheric TEC, *J. Atmos. Solar-Terr. Phys.*, *132*, 82-91, doi:[10.1016/j.jastp.2015.07.002](https://doi.org/10.1016/j.jastp.2015.07.002), 2015.

950. Weimer, D. R., M. G. Mlynczak, L. A. Hunt, and W. K. Tobiska, High correlations between temperature and nitric oxide in the thermosphere, *J. Geophys. Res. Space Physics*, 120, 7, 2015JA021461, doi:[10.1002/2015JA021461](https://doi.org/10.1002/2015JA021461), 2015.
951. Wood, B. E., H.-R. Müller, and M. Witte, Revisiting Ulysses Observations of Interstellar Helium, *Astrophys. J.*, 801, 62-76, doi:[10.1088/0004-637X/801/1/62](https://doi.org/10.1088/0004-637X/801/1/62), 2015.
952. Woods, T. N., M. Snow, J. Harder, G. Chapman, and A. Cookson, A different view of solar spectral irradiance variations: Modeling total energy of six-month intervals, *Sol. Phys.*, 290, 2649-2676, doi:[10.1007/s11207-015-0766-0](https://doi.org/10.1007/s11207-015-0766-0), 2015.
953. Wright, C. J., N. P. Hindley, A. C. Moss, and N. J. Mitchell, Multi-instrument gravity-wave measurements over Tierra del Fuego and the Drake Passage - Part 1: Potential energies and vertical wavelengths from AIRS, COSMIC, HIRDLS, MLS-Aura, SAAMER, SABER and radiosondes, *Atmospheric Measurement Techniques Discussions*, 8, 6797-6876, doi:[10.5194/amtd-8-6797-2015](https://doi.org/10.5194/amtd-8-6797-2015), 2015.
954. Wright, C. J., S. M. Osprey, and J. C. Gille, Global distributions of overlapping gravity waves in HIRDLS data, *Atmos. Chem. Phys.*, 15, 14, 8459-8477, doi:[10.5194/acp-15-8459-2015](https://doi.org/10.5194/acp-15-8459-2015), 2015.
955. Wu, Q., and S. Nozawab, Mesospheric and thermospheric observations of the January 2010 stratospheric warming event, *J. Atmos. Solar-Terr. Phys.*, 123, 22-38, doi:[10.1016/j.jastp.2014.11.006](https://doi.org/10.1016/j.jastp.2014.11.006), 2015.
956. Xiao, F., Q. Zhou, Y. He, C. Yang, S. Liu, D. N. Baker, H. E. Spence, G. D. Reeves, H. O. Funsten, and J. B. Blake, Penetration of magnetosonic waves into the plasmasphere observed by the Van Allen Probes, *Geophys. Res. Lett.*, 42, 7287-7294, doi:[10.1002/2015GL065745](https://doi.org/10.1002/2015GL065745), 2015.
957. Xiong, C., Y.-L. Zhou, H. Lühr, and S.-Y. Ma, Tidal signatures of the thermospheric mass density and zonal wind at midlatitude: CHAMP and GRACE observations, *Ann. Geophys.*, 33, 2, doi:[10.5194/angeo-33-185-2015](https://doi.org/10.5194/angeo-33-185-2015), 2015.
958. Xu, J., Q. Li, J. Yue, L. Hoffmann, W. C. Straka, C. Wang, M. Liu, W. Yuan, S. Han, S. D. Miller, L. Sun, X. Liu, W. Liu, J. Yang, and B. Ning, Concentric gravity waves over northern China observed by an airglow imager network and satellites, *J. Geophys. Res. Atmos.*, 120, 21, 2015JD023786, doi:[10.1002/2015JD023786](https://doi.org/10.1002/2015JD023786), 2015.
959. Xu, J., W. Wang, S. Zhang, X. Liu, and W. Yuan, Multiday thermospheric density oscillations associated with variations in solar radiation and geomagnetic activity. *J. Geophys. Res. Space Physics*, 120, 3829-3846, doi:[10.1002/2014JA020830](https://doi.org/10.1002/2014JA020830), 2015.
960. Xu, S., M. W. Liemohn, W. K. Peterson, J. Fontenla, and P. Chamberlin, Comparison of different solar irradiance models for the superthermal electron transport model for Mars, *Planetary & Space Science*, 119, 62-68, doi:[10.1016/j.pss.2015.09.008](https://doi.org/10.1016/j.pss.2015.09.008), 2015.
961. Yamazaki, Y., M. J. Kosch, and J. T. Emmert, Evidence for stratospheric sudden warming effects on the upper thermosphere derived from satellite orbital decay data during 1967-2013, *J. Geophys. Res.*, 42, 15, 2015GL065395, doi:[10.1002/2015GL065395](https://doi.org/10.1002/2015GL065395), 2015.
962. Yang, S.-S., C. J. Pan, U. Das, and H. C. Lai, Analysis of synoptic scale controlling factors in the distribution of gravity wave potential energy, *J. Atmos. Solar-Terr. Phys.*, 135, 126-135, doi:[10.1016/j.jastp.2015.10.020](https://doi.org/10.1016/j.jastp.2015.10.020), 2015.
963. Yeo, K. L., W. T. Ball, N. A. Krivova, S. K. Solanki, Y. C. Unruh, and J. Morrill, UV solar irradiance in observations and the NRLSSI and SATIRE-S models, *J. Geophys. Res. Space Physics*, 120(8), 6055-6070, doi:[10.1002/2015JA021277](https://doi.org/10.1002/2015JA021277), 2015.
964. Yiğit, E., and A. S. Medvedev, Internal wave coupling processes in Earth's atmosphere, *Adv. Space Res.*, 55, 4, 983-1003, doi:[10.1016/j.asr.2014.11.020](https://doi.org/10.1016/j.asr.2014.11.020), 2015.
965. Yiğit, E., H. U. Frey, M. B. Moldwin, T. J. Immel, and A. J. Ridley, Hemispheric differences in the response of the upper atmosphere to the August 2011 geomagnetic storm: A simulation study, *J. Atmos. Solar-Terr. Phys.*, 141, 13-26, doi:[10.1016/j.jastp.2015.10.002](https://doi.org/10.1016/j.jastp.2015.10.002), 2015.

966. Yu, Y., W. Wan, Z. Ren, B. Xiong, Y. Zhang, L. Hu, B. Ning, and L. Liu, Seasonal variations of MLT tides revealed by a meteor radar chain based on Hough mode decomposition, *J. Geophys. Res. Space Physics*, *120*, 8, 2015JA021276, doi:[10.1002/2015JA021276](https://doi.org/10.1002/2015JA021276), 2015.
967. Yuan, T., Y. Zhang, X. Cai, C.-Y. She, and L. J. Paxton, Impacts of CME-induced geomagnetic storms on the midlatitude mesosphere and lower thermosphere observed by a sodium lidar and TIMED/GUVI, *J. Geophys. Res.*, *42*, 18, 2015GL064860, doi:[10.1002/2015GL064860](https://doi.org/10.1002/2015GL064860), 2015.
968. Yue, J., J. M. Russell III, Y. Jian, L. Rezac, R. Garcia, M. López-Puertas, and M. G. Mlynczak, Increasing carbon dioxide concentration in the upper atmosphere observed by SABER, *J. Geophys. Res.*, *42*, 17, 2015GL064696, doi:[10.1002/2015GL064696](https://doi.org/10.1002/2015GL064696), 2015.
969. Yue, X., W. S. Schreiner, Y.-H. Kuo, and J. Lei, Ionosphere equatorial ionization anomaly observed by GPS radio occultations during 2006-2014, *J. Atmos. Solar-Terr. Phys.*, *129*, 30-40, doi:[10.1016/j.jastp.2015.04.004](https://doi.org/10.1016/j.jastp.2015.04.004), 2015.
970. Zhang, B., W. Lotko, O. Brambles, M. Wiltberger, and J. Lyon, Electron precipitation models in global magnetosphere simulations, *J. Geophys. Res. Space Physics*, *120*, 2, 1035-1056, doi:[10.1002/2014JA020615](https://doi.org/10.1002/2014JA020615), 2015.
971. Zhang, H., Y. Liu, J. Wu, T. Xu, and D. Sheng, Observations and modeling of UHF-band scintillation occurrence probability over the low-latitude region of China during the maximum activity of solar cycle 24, *Ann. Geophys.*, *33*, 93-100, doi:[10.5194/angeo-33-93-2015](https://doi.org/10.5194/angeo-33-93-2015), 2015.
972. Zhang, S.-R., J. M. Holt, P. J. Erickson, and L. P. Goncharenko, Day-to-day variability and solar preconditioning of thermospheric temperature over Millstone Hill, *J. Geophys. Res. Space Physics*, *120*, 3913-3927, doi:[10.1002/2014JA020578](https://doi.org/10.1002/2014JA020578), 2015.
973. Zhang, X.-X., F. He, W. Wang, and B. Chen, Hemispheric asymmetry of subauroral ion drifts: Statistical results, *J. Geophys. Res. Space Physics*, *120*, 4544-4554, doi:[10.1002/2015JA021016](https://doi.org/10.1002/2015JA021016), 2015.
974. Zhao, Y., M. J. Taylor, C. E. Randall, J. D. Lumpe, D. E. Siskind, S. M. Bailey, and J. M. Russell III, Investigating seasonal gravity wave activity in the summer polar mesosphere, *J. Atmos. Solar-Terr. Phys.*, *127*, 8-20, doi:[10.1016/j.jastp.2015.03.008](https://doi.org/10.1016/j.jastp.2015.03.008), 2015.
975. Zhu, Y., M. Kaufmann, M. Ern, and M. Riese, Nighttime atomic oxygen in the mesopause region retrieved from SCIAMACHY O(1S) green line measurements and its response to solar cycle variation, *J. Geophys. Res. Space Physics*, *120*, 10, 2015JA021405, doi:[10.1002/2015JA021405](https://doi.org/10.1002/2015JA021405), 2015.
976. Zolotukhina, N., N. Polekh, V. Kurkin, and E. Romanova, Ionospheric effects of solar flares and their associated particle ejections in March 2012, *Adv. Space Res.*, *55*, 12, 2851-2862, doi:[10.1016/j.asr.2015.03.004](https://doi.org/10.1016/j.asr.2015.03.004), 2015.

2014

977. Adebisi, S. J., I. A. Adimula, O. A. Oladipo, B. W. Joshua, B. O. Adebisin, and S. O. Ikubanni, Ionospheric response to magnetic activity at low and mid-latitude stations, *Acta Geophys.*, *62*, 4, 973-989, doi:[10.2478/s11600-014-0205-x](https://doi.org/10.2478/s11600-014-0205-x), 2014.
978. Adebisi, S. J., O. O. Odeyemi, I. A. Adimula, O. A. Oladipo, S. O. Ikubanni, B. O. Adebisin, and B. W. Joshua, GPS derived TEC and foF2 variability at an equatorial station and the performance of IRI-model, *Adv. Space Res.*, *54*, 4, 565-575, doi:[10.1016/j.asr.2014.03.026](https://doi.org/10.1016/j.asr.2014.03.026), 2014.
979. Ammosov, P. P., G. Gavrilyeva, A. Ammosova, and I. Koltovskoi, Response of the mesopause temperatures to solar activity over Yakutia in 1999-2013, *Adv. Space Res.*, *54*, 12, doi:[10.1016/j.asr.2014.06.007](https://doi.org/10.1016/j.asr.2014.06.007), 2014.

980. Andretta, V., and G. D. Zanna, The EUV spectrum of the Sun: SOHO CDS NIS radiances during solar cycle 23, *Astron. & Astrophys.*, 563, A26, doi:[10.1051/0004-6361/201322841](https://doi.org/10.1051/0004-6361/201322841), 2014.
981. Anisetty, S. K., P. S. Brahmanandam, G. Uma, A. N. Babu, C.-Y. Huang, G. A. Kumar, S. T. Ram, H.-L. Wang, and Y.-H. Chu, Planetary-scale wave structures of the earth's atmosphere revealed from the COSMIC observations, *J. Meteorol. Res.*, 28, 2, doi:[10.1007/s13351-014-0101-y](https://doi.org/10.1007/s13351-014-0101-y), 2014.
982. Bagiya, M. S., R. Hazarika, F. I. Laskar, S. Sunda, S. Gurubaran, D. Chakrabarty, P. K. Bhuyan, R. Sridharan, B. Veenadhari, and D. Pallamraju, Effects of prolonged southward interplanetary magnetic field on low-latitude ionospheric electron density, *J. Geophys. Res. Space Physics*, 119, 7, 5764-5776, doi:[10.1002/2014JA020156](https://doi.org/10.1002/2014JA020156), 2014.
983. Bailey, S. M., B. Thuraiajah, C. E. Randall, L. Holt, D. E. Siskind, V. L. Harvey, K. Venkataramani, M. E. Hervig, P. Rong, and J. M. Russell III, A multi tracer analysis of thermosphere to stratosphere descent triggered by the 2013 Stratospheric Sudden Warming, *Geophys. Res. Lett.*, 41, 5216-5222, doi:[10.1002/2014GL059860](https://doi.org/10.1002/2014GL059860), 2014.
984. Ball, W. T., D. J. Mortlock, J. S. Egerton, and J. D. Haigh, Assessing the relationship between spectral solar irradiance and stratospheric ozone using Bayesian inference, *J. Space Weather & Space Clim.*, 4 A25, doi:[10.1051/swsc/2014023](https://doi.org/10.1051/swsc/2014023), 2014.
985. Barthélemy, M., and G. Cessateur, Sensitivity of upper atmospheric emissions calculations to solar/stellar UV flux, *J. Space Weather & Space Clim.*, 4, A35, doi:[10.1051/swsc/2014033](https://doi.org/10.1051/swsc/2014033), 2014.
986. Barthélemy, M., L. Lamy, H. Menager, M. Schulik, D. Bernard, H. Abgrall, E. Roueff, G. Cessateur, R. Prange, and J. Lilensten, Dayglow and auroral emissions of Uranus in H 2 FUV bands, *Icarus*, 239, 160-167, doi:[10.1016/j.icarus.2014.05.035](https://doi.org/10.1016/j.icarus.2014.05.035), 2014.
987. Bernhardt, P. A., M. A. Hei, C. L. Siefring, and M. R. Wilkens, Predictions of HF system performance for propagation through disturbed ionospheres measured using low-Earth-orbit satellite radio beacon tomography, *Radio Sci.*, 49, 7, 506-517, doi:[10.1002/2014RS005409](https://doi.org/10.1002/2014RS005409), 2014.
988. Bilitza, D., D. Altadill, Y. Zhang, C. Mertens, V. Truhlik, P. Richards, L.-A. McKinnell, and B. Reinisch, The International Reference Ionosphere 2012 - a model of international collaboration, *J. Space Weather & Space Clim.*, 4 A07, doi:[10.1051/swsc/2014004](https://doi.org/10.1051/swsc/2014004), 2014.
989. Bilitza, D., The International Reference Ionosphere: Rawer's IRI and its status today, *Adv. Radio Sci.*, 12, 231-236, doi:[10.5194/ars-12-231-2014](https://doi.org/10.5194/ars-12-231-2014), 2014.
990. Bisht, R. S., A. K. Hait, P. N. Babu, S. S. Sarkar, A. Benerji, A. Biswas, A. K. Saji, D. R. M. Samudraiah, A. S. Kirankumar, T. K. Pant, and T. Parimalarangan, Limb Viewing Hyper Spectral Imager (LiVHySI) for airglow measurements onboard YOUTHSAT-1, *Adv. Space Res.*, 54, 3, 554-563, doi:[10.1016/j.asr.2014.01.016](https://doi.org/10.1016/j.asr.2014.01.016), 2014.
991. Blanc, E., T. Farges, A. Le Pichon, and P. Heinrich, Ten year observations of gravity waves from thunderstorms in western Africa: Gravity waves from Thunderstorms, *J. Geophys. Res. Atmos.*, 119, 6409-6418, doi:[10.1002/2013JD020499](https://doi.org/10.1002/2013JD020499), 2014.
992. Bochslers, P., H. Kucharek, E. Möbius, M. Bzowski, J. M. Sokół, L. Didkovsky, and S. Wieman, Solar photoionization rates for interstellar neutrals in the inner heliosphere: H, He, O, and Ne, *Astrophys. J. Supplement Series*, 210(1), 12, doi:[10.1088/0067-0049/210/1/12](https://doi.org/10.1088/0067-0049/210/1/12), 2014.
993. Buhari, S. M., M. Abdullah, A. M. Hasbi, Y. Otsuka, T. Yokoyama, M. Nishioka, and T. Tsugawa, Continuous generation, and two-dimensional structure of equatorial plasma bubbles observed by high-density GPS receivers in Southeast Asia, *J. Geophys. Res. Space Physics*, 119, 12, 10569-10580, doi:[10.1002/2014JA020433](https://doi.org/10.1002/2014JA020433), 2014.

994. Burns, A. G., W. Wang, L. Qian, S. C. Solomon, Y. Zhang, L. J. Paxton, and X. Yue, On the solar cycle variation of the winter anomaly, *J. Geophys. Res. Space Physics*, 119, 6, 4938-4949, doi:[10.1002/2013JA019552](https://doi.org/10.1002/2013JA019552), 2014.
995. Carter, B. A., E. Yizengaw, J. M. Retterer, M. Francis, M. Terkildsen, R. Marshall, R. Norman, and K. Zhang, An analysis of the quiet time day-to-day variability in the formation of postsunset equatorial plasma bubbles in the Southeast Asian region, *J. Geophys. Res. Space Physics*, 119, 4, 3206-3223, doi:[10.1002/2013JA019570](https://doi.org/10.1002/2013JA019570), 2014.
996. Carter, B. A., J. M. Retterer, E. Yizengaw, K. Groves, R. Caton, L. McNamara, C. Bridgwood, M. Francis, M. Terkildsen, R. Norman, and K. Zhang, Geomagnetic control of equatorial plasma bubble activity modeled by the TIEGCM with Kp , *Geophys. Res. Lett.*, 41, 15, 5331-5339, doi:[10.1002/2014GL060953](https://doi.org/10.1002/2014GL060953), 2014.
997. Castle, K. J., L. A. Black, and T. J. Pedersen, Vibrational Relaxation of $O_3(v_2)$ by $O(^3P)$, *J. Phys. Chem. A*, 118, 25, 4548-4553, doi:[10.1021/jp500224j](https://doi.org/10.1021/jp500224j), 2014.
998. Chaffin, M. S., J. Y. Chaufray, I. Stewart, F. Montmessin, N. M. Schneider, and J. L. Bertaux, Unexpected variability of Martian hydrogen escape, *Geophys. Res. Lett.*, 41(2), 314-320, doi:[10.1002/2013GL058578](https://doi.org/10.1002/2013GL058578), 2014.
999. Chandran, A., R. L. Collins, and V. L. Harvey, Stratosphere-mesosphere coupling during stratospheric sudden warming events, *Adv. Space Res.*, 53, 9, 1265-1289, doi:[10.1016/j.asr.2014.02.005](https://doi.org/10.1016/j.asr.2014.02.005), 2014.
1000. Chandrasekhar, N. P., K. Arora, and N. Nagarajan, Characterization of seasonal and longitudinal variability of EEJ in the Indian region, *J. Geophys. Res. Space Physics*, 119, 12, 2014JA020183, doi:[10.1002/2014JA020183](https://doi.org/10.1002/2014JA020183), 2014.
1001. Chang, L. C., J. Yue, W. Wang, Q. Wu, and R. R. Meier, Quasi two day wave-related variability in the background dynamics and composition of the mesosphere/thermosphere and the ionosphere, *J. Geophys. Res. Space Physics*, 119, 6, 4786-4804, doi:[10.1002/2014JA019936](https://doi.org/10.1002/2014JA019936), 2014.
1002. Chatterjee, S., S. K. Chakraborty, B. Veenadhari, and S. Banola, A study on ionospheric scintillation near the EIA crest in relation to equatorial electrodynamics, *J. Geophys. Res. Space Physics*, 119, 2, 1250-1261, doi:[10.1002/2013JA019466](https://doi.org/10.1002/2013JA019466), 2014.
1003. Chen, G.-M., J.-Y. Xu, W. Wang, J. Lei, and S.-R. Zhang, The responses of ionospheric topside diffusive fluxes to two geomagnetic storms in October 2002, *J. Geophys. Res. Space Physics*, 119, 8, 6806-6820, doi:[10.1002/2014JA020013](https://doi.org/10.1002/2014JA020013), 2014.
1004. Chen, T. A., Y. Tang, L. J. Zhang, Y. E. Chang, and C. Zheng, Correction of astigmatism and coma using analytic theory of aberrations in imaging spectrometer based on concentric off-axis dual reflector system, *Appl. Opt.*, 53, 4, 565, doi:[10.1364/AO.53.000565](https://doi.org/10.1364/AO.53.000565), 2014.
1005. Chen, Y., L. Liu, H. Le, and W. Wan, Geomagnetic activity effect on the global ionosphere during the 2007–2009 deep solar minimum, *J. Geophys. Res. Space Physics*, 119(5), 3747-3754, doi:[10.1002/2013JA019692](https://doi.org/10.1002/2013JA019692), 2014.
1006. Chen, Z., C. Hongbin, X. Jiyao, B. Jianchun, Q. Xiushu, L. Daren, C. Wen, R. Rongcai, Z. Shaodong, L. T., H. Xiong, H. Yongyun, and T. Wenshou, Advances in the Researches of the Middle and Upper Atmosphere in China in 2012-2014, *Chin. J. Space Sci.*, 34(5), 669-687, doi:[10.11728/cjss2014.05.669](https://doi.org/10.11728/cjss2014.05.669), 2014.
1007. Christensen, O. M., P. Eriksson, J. Urban, D. Murtagh, K. Hultgren, and J. Gumbel, Tomographic retrieval of water vapour and temperature around polar mesospheric clouds using Odin-SMR, *Atmospheric Measurement Techniques Discussions*, 7, 11, doi:[10.5194/amtd-7-11853-2014](https://doi.org/10.5194/amtd-7-11853-2014), 2014.
1008. Coy, L., and C. A. Reynolds, Singular vectors and their nonlinear evolution during the January 2009 stratospheric sudden warming: Singular vectors and their nonlinear evolution, *Q. J. R. Meteorol. Soc.*, 140, 680, doi:[10.1002/qj.2181](https://doi.org/10.1002/qj.2181), 2014.

1009. Cushley, A. C., and J.-M. Noël, Ionospheric tomography using ADS-B signals, *Radio Sci.*, 49, 7, 549-563, doi:[10.1002/2013RS005354](https://doi.org/10.1002/2013RS005354), 2014.
1010. Damiani, A., B. Funke, M. López-Puertas, A. Gardini, T. von Clarmann, M. L. Santee, L. Froidevaux, and R. R. Cordero, Changes in the composition of the northern polar upper stratosphere in February 2009 after a sudden stratospheric warming, *J. Geophys. Res. Atmos.*, 119, 19, 11,429-11,444, doi:[10.1002/2014JD021698](https://doi.org/10.1002/2014JD021698), 2014.
1011. Das, T., B. Roy, and A. Paul, Effects of transionospheric signal decorrelation on Global Navigation Satellite Systems (GNSS) performance studied from irregularity dynamics around the northern crest of the EIA, *Radio Sci.*, 49, 10, 851-860, doi:[10.1002/2014RS005406](https://doi.org/10.1002/2014RS005406), 2014.
1012. de Araújo, L. R., L. M. Lima, P. P. Batista, B. R. Clemesha, and H. Takahashi, Planetary wave seasonality from meteor wind measurements at 7.4° S and 22.7° S, *Ann. Geophys.*, 32, 5, doi:[10.5194/angeo-32-519-2014](https://doi.org/10.5194/angeo-32-519-2014), 2014.
1013. de Wit, T. D., S. Bruinsma, and K. Shibasaki, Synoptic radio observations as proxies for upper atmosphere modelling, *J. Space Weather & Space Clim.*, 4, A06, doi:[10.1051/swsc/2014003](https://doi.org/10.1051/swsc/2014003), 2014.
1014. Du, J., W. E. Ward, and F. C. Cooper, The character of polar tidal signatures in the extended Canadian Middle Atmosphere Model, *J. Geophys. Res. Atmos.*, 119, 10, doi:[10.1002/2014JD021562](https://doi.org/10.1002/2014JD021562), 2014.
1015. Ebojje, F., C. von Savigny, A. Ladstätter-Weissenmayer, A. Rozanov, M. Weber, K.-U. Eichmann, S. Bötzel, N. Rähpö, H. Bovensmann, and J. P. Burrows, Tropospheric column amount of ozone retrieved from SCIAMACHY limb-nadir-matching observations, *Atmospheric Measurement Techniques*, 7, 7, doi:[10.5194/amt-7-2073-2014](https://doi.org/10.5194/amt-7-2073-2014), 2014.
1016. Eckert, E., T. von Clarmann, M. Kiefer, G. P. Stiller, S. Lossow, N. Glatthor, D. A. Degenstein, L. Froidevaux, S. Godin-Beekmann, T. Leblanc, S. McDerimid, M. Pastel, W. Steinbrecht, D. P. J. Swart, K. A. Walker, and P. F. Bernath, Drift-corrected trends and periodic variations in MIPAS IMK/IAA ozone measurements, *Atmos. Chem. Phys.*, 14, 5, doi:[10.5194/acp-14-2571-2014](https://doi.org/10.5194/acp-14-2571-2014), 2014.
1017. Ehard, B., P. Achtert, and J. Gumbel, Long-term lidar observations of wintertime gravity wave activity over northern Sweden, *Ann. Geophys.*, 32, 11, doi:[10.5194/angeo-32-1395-2014](https://doi.org/10.5194/angeo-32-1395-2014), 2014.
1018. Emmert, J. T., S. E. McDonald, D. P. Drob, R. R. Meier, J. L. Lean, and J. M. Picone, Attribution of interminima changes in the global thermosphere and ionosphere, *J. Geophys. Res. Space Physics*, 119, 8, 6657-6688, doi:[10.1002/2013JA019484](https://doi.org/10.1002/2013JA019484), 2014.
1019. Ern, M., F. Ploeger, P. Preusse, J. C. Gille, L. J. Gray, S. Kalisch, M. G. Mlynarczyk, J. M. Russell III, and M. Riese, Interaction of gravity waves with the QBO: A satellite perspective, *J. Geophys. Res. Atmos.*, 119, 5, doi:[10.1002/2013JD020731](https://doi.org/10.1002/2013JD020731), 2014.
1020. Fan, X., L. Weng, J. Zhang, H. Fang, and Y. Xie, Investigation of the mesospheric temperature over Fort Collins region, *Science China Technological Sciences*, 57, 8, doi:[10.1007/s11431-014-5593-2](https://doi.org/10.1007/s11431-014-5593-2), 2014.
1021. Fontenla, J. M., E. Landi, M. Snow, and T. Woods, Far- and Extreme-UV Solar Spectral Irradiance and Radiance from Simplified Atmospheric Physical Models, *Sol. Phys.*, 289, 2, 515-544, doi:[10.1007/s11207-013-0431-4](https://doi.org/10.1007/s11207-013-0431-4), 2014.
1022. Forbes, J. M., X. Zhang, and S. L. Bruinsma, New perspectives on thermosphere tides: 2. Penetration to the upper thermosphere, *Earth, Planets and Space*, 66:122, doi:[10.1186/1880-5981-66-122](https://doi.org/10.1186/1880-5981-66-122), 2014.
1023. Fritts, D. C., P.-D. Pautet, K. Bossert, M. J. Taylor, B. P. Williams, H. Iimura, T. Yuan, N. J. Mitchell, and G. Stober, Quantifying gravity wave momentum fluxes with Mesosphere Temperature Mappers and correlative instrumentation, *J. Geophys. Res. Atmos.*, 119, 24, doi:[10.1002/2014JD022150](https://doi.org/10.1002/2014JD022150), 2014.

1024. Funke, B., M. López-Puertas, G. P. Stiller, and T. von Clarmann, Mesospheric and stratospheric NO_y produced by energetic particle precipitation during 2002-2012, *J. Geophys. Res. Atmos.*, 119, 7, doi:[10.1002/2013JD021404](https://doi.org/10.1002/2013JD021404), 2014.
1025. Funke, B., M. López-Puertas, L. Holt, C. E. Randall, G. P. Stiller, and T. von Clarmann, Hemispheric distributions and interannual variability of NO_y produced by energetic particle precipitation in 2002-2012, *J. Geophys. Res. Atmos.*, 119, 23, doi:[10.1002/2014JD022423](https://doi.org/10.1002/2014JD022423), 2014.
1026. Fytterer, T., C. Arras, P. Hoffmann, and C. Jacobi, Global distribution of the migrating terdiurnal tide seen in sporadic E occurrence frequencies obtained from GPS radio occultations, *Earth, Planets and Space*, 66, 79, doi:[10.1186/1880-5981-66-79](https://doi.org/10.1186/1880-5981-66-79), 2014.
1027. Fytterer, T., M. G. Mlynczak, H. Nieder, K. Pérot, M. Sinnhuber, G. Stiller, and J. Urban, Energetic particle induced inter-annual variability of ozone inside the Antarctic polar vortex observed in satellite data, *Atmos. Chem. Phys. Discuss.*, 14, 22, doi:[10.5194/acpd-14-31249-2014](https://doi.org/10.5194/acpd-14-31249-2014), 2014.
1028. Garcia, R. R., M. López-Puertas, B. Funke, D. R. Marsh, D. E. Kinnison, A. K. Smith, and F. González-Galindo, On the distribution of CO₂ and CO in the mesosphere and lower thermosphere, *J. Geophys. Res. Atmos.*, 119, 9, doi:[10.1002/2013JD021208](https://doi.org/10.1002/2013JD021208), 2014.
1029. García-Comas, M., B. Funke, A. Gardini, M. López-Puertas, A. Jurado-Navarro, T. von Clarmann, G. Stiller, M. Kiefer, C. D. Boone, T. Leblanc, B. T. Marshall, M. J. Schwartz, and P. E. Sheese, MIPAS temperature from the stratosphere to the lower thermosphere: comparison of version vM21 with ACE-FTS, MLS, OSIRIS, SABER, SOFIE and lidar measurements, *Atmos. Meas. Tech.*, 7, 3633–3651, doi:[10.5194/amtd-7-6651-2014](https://doi.org/10.5194/amtd-7-6651-2014), 2014.
1030. Gebhardt, C., A. Rozanov, R. Hommel, M. Weber, H. Bovensmann, J. P. Burrows, D. Degenstein, L. Froidevaux, and A. M. Thompson, Stratospheric ozone trends and variability as seen by SCIAMACHY from 2002 to 2012, *Atmos. Chem. Phys.*, 14, 2, doi:[10.5194/acp-14-831-2014](https://doi.org/10.5194/acp-14-831-2014), 2014.
1031. Gille, J., S. Karol, D. Kinnison, J.-F. Lamarque, and V. Yudin, The role of midlatitude mixing barriers in creating the annual variation of total ozone in high northern latitudes, *J. Geophys. Res. Atmos.*, 119, 15, doi:[10.1002/2013JD021416](https://doi.org/10.1002/2013JD021416), 2014.
1032. Grygalashvyly, M., G. R. Sonnemann, F.-J. Lübken, P. Hartogh, and U. Berger, Hydroxyl layer: Mean state and trends at midlatitudes: Hydroxyl layer: mean state and trends, *J. Geophys. Res. Atmos.*, 119, 21, doi:[10.1002/2014JD022094](https://doi.org/10.1002/2014JD022094), 2014.
1033. Gu, S.-Y., H.-L. Liu, T. Li, X. Dou, Q. Wu, and J. M. Russell III, Observation of the neutral-ion coupling through 6 day planetary wave, *J. Geophys. Res. Space Physics*, 119, 10, 376–383, doi:[10.1002/2014JA020530](https://doi.org/10.1002/2014JA020530), 2014.
1034. Gu, S.-Y., X. Dou, J. Lei, T. Li, X. Luan, W. Wan, and J. M. Russell III, Ionospheric response to the ultrafast Kelvin wave in the MLT region: Ionospheric response to UFKW in MLT, *J. Geophys. Res. Space Physics*, 119, 1369–1380, doi:[10.1002/2013JA019086](https://doi.org/10.1002/2013JA019086), 2014.
1035. Guharay, A., P. P. Batista, B. R. Clemesha, and S. Sarkhel, Response of the extratropical middle atmosphere to the September 2002 major stratospheric sudden warming, *Adv. Space Res.*, 53, 2, doi:[10.1016/j.asr.2013.11.002](https://doi.org/10.1016/j.asr.2013.11.002), 2014.
1036. Guryanov, V. V., and A. N. Fahrutdinova, Height-latitude structure of stationary planetary waves in the stratosphere and lower mesosphere, *Adv. Space Res.*, 53, 4, 674–688, doi:[10.1016/j.asr.2013.12.010](https://doi.org/10.1016/j.asr.2013.12.010), 2014.
1037. Haberreiter, M., V. Delouille, B. Mampaey, C. Verbeek, G. D. Zanna, and S. Wieman, Reconstruction of the solar EUV irradiance from 1996 to 2010 based on SOHO/EIT images, *J. Space Weather & Space Clim.*, 4, A30, doi:[10.1051/swsc/2014027](https://doi.org/10.1051/swsc/2014027), 2014.
1038. Häusler, K., M. E. Hagan, A. J. G. Baumgaertner, A. Maute, G. Lu, E. Doornbos, S. Bruinsma, J. M. Forbes, and F. Gasperini, Improved short-term variability in the thermosphere-

- ionosphere-mesosphere-electrodynamics general circulation model, *J. Geophys. Res. Space Physics*, 119, 8, doi:[10.1002/2014JA020006](https://doi.org/10.1002/2014JA020006), 2014.
1039. Hazarika, R., and P. K. Bhuyan, Spatial distribution of TEC across India in 2005: Seasonal asymmetries and IRI prediction, *Adv. Space Res.*, 54, 9, 1751-1767, doi:[10.1016/j.asr.2014.07.011](https://doi.org/10.1016/j.asr.2014.07.011), 2014.
1040. Hoffmann, L., M. J. Alexander, C. Clerbaux, A. W. Grimsdell, C. I. Meyer, T. Rößler, and B. Tournier, Intercomparison of stratospheric gravity wave observations with AIRS and IASI, *Atmospheric Measurement Techniques*, 7, 12, 4517-4537, doi:[10.5194/amt-7-4517-2014](https://doi.org/10.5194/amt-7-4517-2014), 2014.
1041. Holmen, S. E., M. E. Dyrland, and F. Sigernes, Long-term trends and the effect of solar cycle variations on mesospheric winter temperatures over Longyearbyen, Svalbard (78°N), *J. Geophys. Res. Atmos.*, 119, 11, doi:[10.1002/2013JD021195](https://doi.org/10.1002/2013JD021195), 2014.
1042. Hossain, M. M., C. N. Vineeth, S. N. Sumod, and T. K. Pant, Highly varying daytime sodium airglow emissions over an equatorial station: a case study based on the measurements using a grating monochromator, *Earth, Planets and Space*, 66, 1, doi:[10.1186/1880-5981-66-56](https://doi.org/10.1186/1880-5981-66-56), 2014.
1043. Huang, F. T., H. G. Mayr, J. M. Russell III, and M. G. Mlynczak, Ozone and temperature decadal trends in the stratosphere, mesosphere and lower thermosphere, based on measurements from SABER on TIMED, *Ann. Geophys.*, 32, 935-949, doi:[10.5194/angeo-32-935-2014](https://doi.org/10.5194/angeo-32-935-2014), 2014.
1044. Huang, L., J. Wang, Y. Jiang, Z. Chen, and K. Zhao, A study of GPS ionospheric scintillations observed at Shenzhen, *Adv. Space Res.*, 54, 11, 2208-2217, doi:[10.1016/j.asr.2014.08.023](https://doi.org/10.1016/j.asr.2014.08.023), 2014.
1045. Huang, Y. Y., A. D. Richmond, Y. Deng, P. C. Chamberlin, L. Qian, S. C. Solomon, R. G. Roble, and Z. Xiaoe, Wavelength dependence of solar irradiance enhancement during X-class flares and its influence on the upper atmosphere, *J. Atmos. Solar-Terr. Phys.*, 115, 87-94, doi:[10.1016/j.jastp.2013.10.011](https://doi.org/10.1016/j.jastp.2013.10.011), 2014.
1046. Huang, Y. Y., C. Y. Huang, Y.-J. Su, Y. Deng, and X. Fang, Ionization due to electron and proton precipitation during the August 2011 storm, *J. Geophys. Res. Space Physics*, 119, 4, 3106-3116, doi:[10.1002/2013JA019671](https://doi.org/10.1002/2013JA019671), 2014.
1047. Iimura, H., D. C. Fritts, R. S. Lieberman, Q. Wu, and W. R. Skinner, Interannual variability of the nonmigrating semidiurnal tide at high latitudes and stationary planetary wave in the opposite hemispheres, *J. Atmos. Solar-Terr. Phys.*, 110-111, doi:[10.1016/j.jastp.2014.01.003](https://doi.org/10.1016/j.jastp.2014.01.003), 2014.
1048. Irving, B. K., R. L. Collins, R. S. Lieberman, B. Thuraiajah, and K. Mizutani, Mesospheric Inversion Layers at Chatanika, Alaska (65°N, 147°W): Rayleigh lidar observations and analysis, *J. Geophys. Res. Atmos.*, 119, 19, doi:[10.1002/2014JD021838](https://doi.org/10.1002/2014JD021838), 2014.
1049. Jia, J. Y., P. Preusse, M. Ern, H.-Y. Chun, J. C. Gille, S. D. Eckermann, and M. Riese, Sea surface temperature as a proxy for convective gravity wave excitation: a study based on global gravity wave observations in the middle atmosphere, *Ann. Geophys.*, 32, 11, doi:[10.5194/angeo-32-1373-2014](https://doi.org/10.5194/angeo-32-1373-2014), 2014.
1050. Jiang, G.-Y., W. Wang, J. Xu, J. Yue, A. G. Burns, J. Lei, M. G. Mlynczak, and J. M. Russell III, Responses of the lower thermospheric temperature to the 9-day and 13.5-day oscillations of recurrent geomagnetic activity, *J. Geophys. Res. Space Physics*, 119, 6, 4841-4859, doi:[10.1002/2013JA019406](https://doi.org/10.1002/2013JA019406), 2014.
1051. Jiang, Y., Z. Sheng, and H. Q. Shi, Modes of zonal mean temperature variability 20-100 km from the TIMED/SABER observations, *Ann. Geophys.*, 32, 285-292, doi:[10.5194/angeo-32-285-2014](https://doi.org/10.5194/angeo-32-285-2014), 2014.

1052. Jones, M., J. M. Forbes, M. E. Hagan, and A. Maute, Impacts of vertically propagating tides on the mean state of the ionosphere-thermosphere system, *J. Geophys. Res. Space Physics*, 119, 3, doi:[10.1002/2013JA019744](https://doi.org/10.1002/2013JA019744), 2014.
1053. Kalisch, S., P. Preusse, M. Ern, S. D. Eckermann, and M. Riese, Differences in gravity wave drag between realistic oblique and assumed vertical propagation, *J. Geophys. Res. Atmos.*, 119, 17, doi:[10.1002/2014JD021779](https://doi.org/10.1002/2014JD021779), 2014.
1054. Katamzi, Z. T., and J. B. Habarulema, Traveling ionospheric disturbances observed at South African midlatitudes during the 29-31 October 2003 geomagnetically disturbed period, *Adv. Space Res.*, 53, 1, 48-62, doi:[10.1016/j.asr.2013.10.019](https://doi.org/10.1016/j.asr.2013.10.019), 2014.
1055. Kaufmann, M., Y. Zhu, M. Ern, and M. Riese, Global distribution of atomic oxygen in the mesopause region as derived from SCIAMACHY O(¹S) green line measurements, *Geophys. Res. Lett.*, 41, 17, 6274-6280, doi:[10.1002/2014GL060574](https://doi.org/10.1002/2014GL060574), 2014.
1056. Kelly, M. A., J. M. Comberiate, E. S. Miller, and L. J. Paxton, Progress toward forecasting of space weather effects on UHF SATCOM after Operation Anaconda, *Space Weather*, 12, 601-611, doi:[10.1002/2014SW001081](https://doi.org/10.1002/2014SW001081), 2014.
1057. Kishore, P., M. V. Ratnam, I. Velicogna, V. Sivakumar, H. Bencherif, B. R. Clemesha, D. M. Simonich, P. P. Batista, and G. Beig, Long-term trends observed in the middle atmosphere temperatures using ground based LIDARs and satellite borne measurements, *Ann. Geophys.*, 32, 3, doi:[10.5194/angeo-32-301-2014](https://doi.org/10.5194/angeo-32-301-2014), 2014.
1058. Kleinknecht, N. H., P. J. Espy, and R. E. Hibbins, The climatology of zonal wave numbers 1 and 2 planetary wave structure in the MLT using a chain of Northern Hemisphere SuperDARN radars, *J. Geophys. Res. Atmos.*, 119, 3, 1292-1307, doi:[10.1002/2013JD019850](https://doi.org/10.1002/2013JD019850), 2014.
1059. Korth, H., Y. Zhang, B. J. Anderson, T. Sotirelis, and C. L. Waters, Statistical relationship between large-scale upward field-aligned currents and electron precipitation, *J. Geophys. Res. Space Physics*, 119, 6715-6731, doi:[10.1002/2014JA019961](https://doi.org/10.1002/2014JA019961), 2014.
1060. Kowalewski, S., C. von Savigny, M. Palm, I. C. McDade, and J. Notholt, On the impact of the temporal variability of the collisional quenching process on the mesospheric OH emission layer: a study based on SD-WACCM4 and SABER, *Atmos. Chem. Phys.*, 14, 18, doi:[10.5194/acp-14-10193-2014](https://doi.org/10.5194/acp-14-10193-2014), 2014.
1061. Kozyra, J. U., M. W. Liemohn, C. Cattell, D. De Zeeuw, C. P. Escoubet, D. S. Evans, X. Fang, M.-C. Fok, H. U. Frey, W. D. Gonzalez, M. Hairston, R. Heelis, G. Lu, W. B. Manchester, S. Mende, L. J. Paxton, L. Rastaetter, A. Ridley, M. Sandanger, F. Soraas, T. Sotirelis, M. W. Thomsen, B. T. Tsurutani, and O. Verkhoglyadova, Solar filament impact on 21 January 2005: Geospace consequences, *J. Geophys. Res. Space Physics*, 119, 7, 5401-5448, doi:[10.1002/2013JA019748](https://doi.org/10.1002/2013JA019748), 2014.
1062. Krauss, S., M. Pflieger, and H. Lammer, Satellite-based analysis of thermosphere response to extreme solar flares, *Ann. Geophys.*, 32, 1305-1309, doi:[10.5194/angeo-32-1305-2014](https://doi.org/10.5194/angeo-32-1305-2014), 2014.
1063. Kumar, G. K., W. Singer, J. Oberheide, N. Grieger, P. P. Batista, D. M. Riggin, H. Schmidt, and B. R. Clemesha, Diurnal tides at low latitudes: Radar, satellite, and model results, *J. Atmos. Solar-Terr. Phys.*, 118, Part A, 96-105, doi:[10.1016/j.jastp.2013.07.005](https://doi.org/10.1016/j.jastp.2013.07.005), 2014.
1064. Laskar, F. I., and D. Pallamraju, Does sudden stratospheric warming induce meridional circulation in the mesosphere thermosphere system?, *J. Geophys. Res. Space Physics*, 119, 10, 133-10, 143, doi:[10.1002/2014JA020086](https://doi.org/10.1002/2014JA020086), 2014.
1065. Laštovička, J., G. Beig, and D. R. Marsh, Response of the mesosphere-thermosphere-ionosphere system to global change - CAWSES-II contribution, *Progress in Earth and Planetary Science*, 1, 1, doi:[10.1186/s40645-014-0021-6](https://doi.org/10.1186/s40645-014-0021-6), 2014.
1066. Lean, J. L., S. E. McDonald, J. D. Huba, J. T. Emmert, D. P. Drob, and C. L. Siefring, Geospace variability during the 2008-2009 Whole Heliosphere Intervals, *J. Geophys. Res. Space Physics*, 119(5), 3755-3776, doi:[10.1002/2013JA019485](https://doi.org/10.1002/2013JA019485), 2014.

1067. Lee, Y.-S., S. Kirkwood, Y.-S. Kwak, K.-C. Kim, and G. G. Shepherd, Polar summer mesospheric extreme horizontal drift speeds during interplanetary corotating interaction regions (CIRs) and high-speed solar wind streams: Coupling between the solar wind and the mesosphere, *J. Geophys. Res. Space Physics*, *119*, 3883-3894, doi:[10.1002/2014JA019790](https://doi.org/10.1002/2014JA019790), 2014.
1068. Lei, J., W. Wang, J. P. Thayer, X. Luan, X. Dou, A. G. Burns, and S. C. Solomon, Simulations of the equatorial thermosphere anomaly: Geomagnetic activity modulation, *J. Geophys. Res. Space Physics*, *119*, 8, 6821-6832, doi:[10.1002/2014JA020152](https://doi.org/10.1002/2014JA020152), 2014.
1069. Ling, C., Z. Chen, and H. Chen, Annual and semi-annual oscillations of zonal mean winds in the mesopause region, *J. Climatic and Environmental Research*, *19*(3), 383-392, doi:[10.3878/j.issn.1006-9585.2013.13072](https://doi.org/10.3878/j.issn.1006-9585.2013.13072), 2014.
1070. Linsky, J. L., J. Fontenla, and K. France, The intrinsic extreme ultraviolet fluxes of F5 V to M5 V stars, *Astrophys. J.*, *780*(1), 61, doi:[10.1088/0004-637X/780/1/61](https://doi.org/10.1088/0004-637X/780/1/61), 2014.
1071. Liu, H.-L., J. M. McInerney, S. Santos, S., P. H. Lauritzen, M. A. Taylor, and N. M. Pedatella, Gravity waves simulated by high-resolution Whole Atmosphere Community Climate Model, *J. Geophys. Res.*, *41*, 24, 9106-9112, doi:[10.1002/2014GL062468](https://doi.org/10.1002/2014GL062468), 2014.
1072. Liu, J., L. Liu, T. Nakamura, B. Zhao, B. Ning, and A. Yoshikawa, A case study of ionospheric storm effects during long-lasting southward IMF B_z -driven geomagnetic storm, *J. Geophys. Res. Space Physics*, *119*, 9, 7716-7731, doi:[10.1002/2014JA020273](https://doi.org/10.1002/2014JA020273), 2014.
1073. Liu, J., R. Chen, J. An, Z. Wang, and J. Hyyppa, Spherical cap harmonic analysis of the Arctic ionospheric TEC for one solar cycle, *J. Geophys. Res. Space Physics*, *119*, 1, 601-619, doi:[10.1002/2013JA019501](https://doi.org/10.1002/2013JA019501), 2014.
1074. Liu, L., Y. Chen, H. Le, J. Lie, and W. Wan, Some Investigations on the Ionosphere during 2012–2014. in China, *Chin. J. Space Sci.*, *34*, 5, 648-668, doi:[10.11728/cjss2014.05.648](https://doi.org/10.11728/cjss2014.05.648), 2014.
1075. Liu, X., J. Xu, H.-L. Liu, J. Yue, and W. Yuan, Simulations of large winds and wind shears induced by gravity wave breaking in the mesosphere and lower thermosphere (MLT) region, *Ann. Geophys.*, *32*, 5, doi:[10.5194/angeo-32-543-2014](https://doi.org/10.5194/angeo-32-543-2014), 2014.
1076. Liu, X., J. Yue, J. Xu, L. Wang, W. Yuan, J. M. Russell III, and M. E. Hervig, Gravity wave variations in the polar stratosphere and mesosphere from SOFIE/AIM temperature observations, *J. Geophys. Res. Atmos.*, *119*, 12, doi:[10.1002/2013JD021439](https://doi.org/10.1002/2013JD021439), 2014.
1077. Mailyan, B., Q. Q. Shi, and X. Gou, Polar cap arcs correlated with solar wind entry at the high latitude magnetosphere, *General Assembly, and Scientific Symposium (URSI GASS) 2014*, Beijing, China, doi:[10.1109/URSIGASS.2014.6929926](https://doi.org/10.1109/URSIGASS.2014.6929926), 2014.
1078. Mannucci, A. J., G. Crowley, B. T. Tsurutani, O. P. Verkhoglyadova, A. Komjathy, and P. Stephens, Interplanetary magnetic field By control of prompt total electron content increases during superstorms, *J. Atmos. Solar-Terr. Phys.*, *115-116*, 7-16, doi:[10.1016/j.jastp.2014.01.001](https://doi.org/10.1016/j.jastp.2014.01.001), 2014.
1079. Maury, P., and F. Lott, On the presence of equatorial waves in the lower stratosphere of a general circulation model, *Atmos. Chem. Phys.*, *14*, 4, doi:[10.5194/acp-14-1869-2014](https://doi.org/10.5194/acp-14-1869-2014), 2014.
1080. Maute, A., M. E. Hagan, A. D. Richmond, and R. G. Roble, TIME-GCM study of the ionospheric equatorial vertical drift changes during the 2006 stratospheric sudden warming, *J. Geophys. Res. Space Physics*, *119*, 1287-1305, doi:[10.1002/2013JA019490](https://doi.org/10.1002/2013JA019490), 2014.
1081. McCormack, J. P., L. Coy, and W. Singer, Intraseasonal and interannual variability of the quasi 2 day wave in the Northern Hemisphere summer mesosphere, *J. Geophys. Res. Atmos.*, *119*, 6, doi:[10.1002/2013JD020199](https://doi.org/10.1002/2013JD020199), 2014.
1082. McGranaghan, R., D. J. Knipp, R. L. McPherron, and L. A. Hunt, Impact of equinoctial high-speed stream structures on thermospheric responses, *Space Weather*, *12*, 277–297, doi:[10.1002/2014SW001045](https://doi.org/10.1002/2014SW001045), 2014.

1083. Meier, R. R., J. M. Picone, D. Drob, J. Bishop, J. T. Emmert, J. L. Lean, A. W. Stephan, D. J. Strickland, A. B. Christensen, L. J. Paxton, D. Morrison, H. Kil, B. Wolven, T. N. Woods, G. Crowley, and S. T. Gibson, Remote Sensing of Earth's Limb by TIMED/GUVI: Retrieval of thermospheric composition and temperature, *Earth and Space Science*, 2, 1–37, doi:[10.1002/2014EA000035](https://doi.org/10.1002/2014EA000035), 2014.
1084. Ming, F. C., C. Ibrahim, C. Barthe, S. Jolivet, P. Keckhut, Y.-A. Liou, and Y. Kuleshov, Observation and a numerical study of gravity waves during tropical cyclone Ivan (2008), *Atmos. Chem. Phys.*, 14, 2, doi:[10.5194/acp-14-641-2014](https://doi.org/10.5194/acp-14-641-2014), 2014.
1085. Mlynczak, M. G., L. A. Hunt, B. T. Marshall, C. J. Mertens, D. R. Marsh, A. K. Smith, J. M. Russell III, D. E. Siskind, and L. L. Gordley, Atomic hydrogen in the mesopause region derived from SABER: Algorithm theoretical basis, measurement uncertainty, and results, *J. Geophys. Res. Atmos.*, 119, 6, doi:[10.1002/2013JD021263](https://doi.org/10.1002/2013JD021263), 2014.
1086. Mlynczak, M. G., L. A. Hunt, C. J. Mertens, B. T. Marshall, J. M. Russell III, T. Woods, R. E. Thompson, and L. L. Gordley, Influence of Solar Variability on the Infrared Radiative Cooling of the Thermosphere from 2002 to 2014, *Geophys. Res. Lett.*, 41, 2508-2513, doi:[10.1002/2014GL059556](https://doi.org/10.1002/2014GL059556), 2014.
1087. Mo, X. H., D. H. Zhang, L. P. Goncharenko, Y. Q. Hao, and Z. Xiao, Quasi-16-day periodic meridional movement of the equatorial ionization anomaly, *Ann. Geophys.*, 32, 2, doi:[10.5194/angeo-32-121-2014](https://doi.org/10.5194/angeo-32-121-2014), 2014.
1088. Moudden, Y., and J. M. Forbes, Quasi-two-day wave structure, interannual variability, and tidal interactions during the 2002-2011 decade, *J. Geophys. Res. Atmos.*, 119, 5, doi:[10.1002/2013JD020563](https://doi.org/10.1002/2013JD020563), 2014.
1089. Muella, M. T. A. H., E. R. de Paula, and O. F. Jonah, GPS L1-Frequency Observations of Equatorial Scintillations and Irregularity Zonal Velocities, *Surv. Geophys.*, 35, 2, 335-357, doi:[10.1007/s10712-013-9252-0](https://doi.org/10.1007/s10712-013-9252-0), 2014.
1090. Mz e, N., A. Hauchecorne, P. Keckhut, and M. Th etis, Vertical distribution of gravity wave potential energy from long-term Rayleigh lidar data at a northern middle-latitude site, *J. Geophys. Res. Atmos.*, 119, 21, doi:[10.1002/2014JD022035](https://doi.org/10.1002/2014JD022035), 2014.
1091. Nath, D., W. Chen, and A. Guharay, Climatology of stratospheric gravity waves and their interaction with zonal mean wind over the tropics using GPS RO and ground-based measurements in the two phases of QBO, *Theoretical and Applied Climatology*, 119, 3-4, doi:[10.1007/s00704-014-1146-7](https://doi.org/10.1007/s00704-014-1146-7), 2014.
1092. Nath, O., and S. Sridharan, Long-term variabilities and tendencies in zonal mean TIMED–SABER ozone and temperature in the middle atmosphere at 10–15°N, *J. Atmos. Solar-Terr. Phys.*, 120, 1-8, doi:[10.1016/j.jastp.2014.08.010](https://doi.org/10.1016/j.jastp.2014.08.010), 2014.
1093. Nee, J.-B., Observations of non-migrating tides and ionospheric perturbations of O (1 D) airglow by ISUAL instrument. *Adv. Space Res.*, 54(3), 409-416, doi:[10.1016/j.asr.2013.09.011](https://doi.org/10.1016/j.asr.2013.09.011), 2014.
1094. Newell, P. T., and J. W. Gjerloev, Local Geomagnetic Indices and the Prediction of Auroral Power, *J. Geophys. Res. Space Physics*, 119, 9790–9803, doi:[10.1002/2014JA020524](https://doi.org/10.1002/2014JA020524), 2014.
1095. Newell, P. T., K. Liou, Y. Zhang, T. Sotirelis, L. J. Paxton, and E. J. Mitchell, OVATION Prime-2013: Extension of auroral precipitation model to higher disturbance levels, *Space Weather*, 12, 6, 368-379, doi:[10.1002/2014SW001056](https://doi.org/10.1002/2014SW001056), 2014.
1096. Nozawa, S., T. D. Kawahara, N. Saito, C. M. Hall, T. T. Tsuda, T. Kawabata, S. Wada, A. Brekke, T. Takahashi, H. Fujiwara, Y. Ogawa, and R. Fujii, 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, *J. Geophys. Res. Space Physics*, 119, 441-451, doi:[10.1002/2013JA019520](https://doi.org/10.1002/2013JA019520), 2014.

1097. Ogunjobi, O., V. Sivakumar, and W. T. Sivla, A superposed epoch study of the effects of solar wind stream interface events on the upper mesospheric and lower thermospheric temperature, *Adv. Space Res.*, 54, 9, 1732-1742, doi:[10.1016/j.asr.2014.07.005](https://doi.org/10.1016/j.asr.2014.07.005), 2014.
1098. Pallamraju, D., J. Baumgardner, R. P. Singh, F. I. Laskar, C. Mendillo, T. Cook, S. Lockwood, R. Narayanan, T. K. Pant, and S. Chakrabarti, Daytime wave characteristics in the mesosphere lower thermosphere region: Results from the Balloon-borne Investigations of Regional-atmospheric Dynamics experiment, *J. Geophys. Res. Space Physics*, 119, 3, doi:[10.1002/2013JA019368](https://doi.org/10.1002/2013JA019368), 2014.
1099. Pancheva, D., P. Mukhtarov, and A. K. Smith, Nonmigrating tidal variability in the SABER/TIMED mesospheric ozone, *Geophys. Res. Lett.*, 41, 11, doi:[10.1002/2014GL059844](https://doi.org/10.1002/2014GL059844), 2014.
1100. Park, J., H. Lühr, C. Lee, Y. H. Kim, G. Jee, and J.-H. Kim, A climatology of medium-scale gravity wave activity in the midlatitude/low-latitude daytime upper thermosphere as observed by CHAMP, *J. Geophys. Res. Space Physics*, 119, 3, 2187-2196, doi:[10.1002/2013JA019705](https://doi.org/10.1002/2013JA019705), 2014.
1101. Parrish, A., I. S. Boyd, G. E. Nedoluha, P. K. Bhartia, S. M. Frith, N. A. Kramarova, B. J. Connor, G. E. Bodeker, L. Froidevaux, M. Shiotani, and T. Sakazaki, Diurnal variations of stratospheric ozone measured by ground-based microwave remote sensing at the Mauna Loa NDACC site: measurement validation and GEOSCCM model comparison, *Atmos. Chem. Phys.*, 14, 14, doi:[10.5194/acp-14-7255-2014](https://doi.org/10.5194/acp-14-7255-2014), 2014.
1102. Pedatella, N. M., K. Raeder, J. L. Anderson, and H.-L. Liu, Ensemble data assimilation in the Whole Atmosphere Community Climate Model, *J. Geophys. Res. Atmos.*, 119, 16, doi:[10.1002/2014JD021776](https://doi.org/10.1002/2014JD021776), 2014.
1103. Peevey, T. R., J. C. Gille, C. R. Homeyer, and G. L. Manney, The double tropopause and its dynamical relationship to the tropopause inversion layer in storm track regions, *J. Geophys. Res. Atmos.*, 119, 17, 10,194-10,212, doi:[10.1002/2014JD021808](https://doi.org/10.1002/2014JD021808), 2014.
1104. Perminov, V. I., A. I. Semenov, I. V. Medvedeva, and Y. A. Zheleznov, Variability of mesopause temperature from the hydroxyl airglow observations over mid-latitude sites, Zvenigorod and Tory, Russia, *Adv. Space Res.*, 54, 12, 2511-2517, doi:[10.1016/j.asr.2014.01.027](https://doi.org/10.1016/j.asr.2014.01.027), 2014.
1105. Peters, D. H. W., K. Hallgren, F.-J. Lübken, and P. Hartogh, Subseasonal variability of water vapor in the upper stratosphere/lower mesosphere over Northern Europe in winter 2009/2010, *J. Atmos. Solar-Terr. Phys.*, 114, 9-18, doi:[10.1016/j.jastp.2014.03.007](https://doi.org/10.1016/j.jastp.2014.03.007), 2014.
1106. Phanikumar, D. V., K. N. Kumar, and S. Kumar, Signatures of ultra fast Kelvin waves in low latitude ionospheric TEC during January 2009 stratospheric warming event, *J. Atmos. Solar-Terr. Phys.*, 117, doi:[10.1016/j.jastp.2014.05.006](https://doi.org/10.1016/j.jastp.2014.05.006), 2014.
1107. Plougonven, R., and F. Zhang, Internal gravity waves from atmospheric jets and fronts, *Rev. Geophys.*, 52, 1, doi:[10.1002/2012RG000419](https://doi.org/10.1002/2012RG000419), 2014.
1108. Preusse, P., M. Ern, P. Bechtold, S. D. Eckermann, S. Kalisch, Q. T. Trinh, and M. Riese, Characteristics of gravity waves resolved by ECMWF, *Atmos. Chem. Phys.*, 14, 19, doi:[10.5194/acp-14-10483-2014](https://doi.org/10.5194/acp-14-10483-2014), 2014.
1109. Ramesh, K., S. Sridharan, and S. V. B. Rao, Causative mechanisms for the occurrence of a triple layered mesospheric inversion event over low latitudes: Causative mechanisms of MILs, *J. Geophys. Res. Space Physics*, 119, 5, doi:[10.1002/2013JA019750](https://doi.org/10.1002/2013JA019750), 2014.
1110. Ratnam, M. V., N. V. Rao, C. Vedavathi, B. V. K. Murthy, and S. V. B. Rao, Diurnal tide in the low-latitude troposphere and stratosphere: Long-term trends and role of the extended solar minimum, *J. Atmos. Solar-Terr. Phys.*, 121, Part B, 168-176, doi:[10.1016/j.jastp.2014.06.004](https://doi.org/10.1016/j.jastp.2014.06.004), 2014.
1111. Ratnam, M. V., S. V. Sunilkumar, K. Parameswaran, B. V. K. Murthy, G. Ramkumar, K. Rajeev, G. Basha, S. R. Babu, M. Muhsin, M. K. Mishra, A. H. Kumar, S. T. A. Raj, and M.

- Pramitha, Tropical tropopause dynamics (TTD) campaigns over Indian region: An overview, *J. Atmos. Solar-Terr. Phys.*, 121, Part B, 229-239, doi:[10.1016/j.jastp.2014.05.007](https://doi.org/10.1016/j.jastp.2014.05.007), 2014.
1112. Reid, I. M., A. J. Spargo, and J. M. Woithe, Seasonal variations of the nighttime O(1S) and OH (8-3) airglow intensity at Adelaide, Australia, *J. Geophys. Res. Atmos.*, 119, 11, doi:[10.1002/2013JD020906](https://doi.org/10.1002/2013JD020906), 2014.
1113. Reisin, E. R., J. Scheer, M. E. Dyrland, F. Sigernes, C. S. Deehr, C. Schmidt, K. Höppner, M. Bittner, P. P. Ammosov, G. A. Gavriljeva, J. Stegman, V. I. Perminov, A. I. Semenov, P. Knieling, R. Koppmann, K. Shiokawa, R. P. Lowe, M. J. López-González, E. Rodríguez, Y. Zhao, M. J. Taylor, R. A. Buriti, P. J. Espy, W. J. R. French, K.-U. Eichmann, J. P. Burrows, and C. von Savigny, Traveling planetary wave activity from mesopause region airglow temperatures determined by the Network for the Detection of Mesospheric Change (NDMC), *J. Atmos. Solar-Terr. Phys.*, 119, doi:[10.1016/j.jastp.2014.07.002](https://doi.org/10.1016/j.jastp.2014.07.002), 2014.
1114. Ren, Z., W. Wan, J. Xiong, and L. Liu, Influence of DE3 tide on the equinoctial asymmetry of the zonal mean ionospheric electron density, *Earth, Planets and Space*, 66, 1, doi:[10.1186/1880-5981-66-117](https://doi.org/10.1186/1880-5981-66-117), 2014.
1115. Richards, P. G., M. J. Nicolls, J. P. St-Maurice, L. Goodwin, and J. M. Ruohoniemi, Investigation of sudden electron density depletions observed in the dusk sector by the Poker Flat, Alaska incoherent scatter radar in summer, *J. Geophys. Res. Space Physics*, doi:[10.1002/2014JA020541](https://doi.org/10.1002/2014JA020541), 2014.
1116. Riese, M., H. Oelhaf, P. Preusse, J. Blank, M. Ern, F. Friedl-Vallon, H. Fischer, T. Guggenmoser, M. Höpfner, P. Hoor, M. Kaufmann, J. Orphal, F. Plöger, R. Spang, O. Suminska-Ebersoldt, J. Ungermann, B. Vogel, and W. Woiwode, Gimballing Limb Observer for Radiance Imaging of the Atmosphere (GLORIA) scientific objectives, *Atmospheric Measurement Techniques*, 7, 7, doi:[10.5194/amt-7-1915-2014](https://doi.org/10.5194/amt-7-1915-2014), 2014.
1117. Rong, P. P., J. M. Russell III, C. E. Randall, S. M. Bailey, and A. Lambert, Northern PMC brightness zonal variability and its correlation with temperature and water vapor, *J. Geophys. Res. Atmos.*, 119, 5, doi:[10.1002/2013JD020513](https://doi.org/10.1002/2013JD020513), 2014.
1118. Rüfenacht, R., A. Murk, N. Kämpfer, P. Eriksson, and S. A. Buehler, Middle-atmospheric zonal and meridional wind profiles from polar, tropical and midlatitudes with the ground-based microwave Doppler wind radiometer WIRA, *Atmospheric Measurement Techniques*, 7(12), 4491-4505, doi:[10.5194/amt-7-4491-2014](https://doi.org/10.5194/amt-7-4491-2014), 2014.
1119. Russell III, J. M., P. Rong, M. E. Hervig, D. E. Siskind, M. I. H. Stevens, S. M. Bailey, and J. Gumbel, Analysis of northern midlatitude noctilucent cloud occurrences using satellite data and modeling, *J. Geophys. Res. Atmos.*, 119, 6, doi:[10.1002/2013JD021017](https://doi.org/10.1002/2013JD021017), 2014.
1120. Scheiben, D., B. Tschanz, K. Hocke, N. Kämpfer, S. Ka, and J. J. Oh, The quasi 16-day wave in mesospheric water vapor during boreal winter 2011/2012, *Atmos. Chem. Phys.*, 14, 13, doi:[10.5194/acp-14-6511-2014](https://doi.org/10.5194/acp-14-6511-2014), 2014.
1121. Schmidtke, G., B. Nikutowski, C. Jacobi, R. Brunner, C. Erhardt, S. Knecht, J. Scherle, and J. Schlagenhaut, Solar EUV Irradiance Measurements by the Auto-Calibrating EUV Spectrometers (SolACES) Aboard the International Space Station (ISS), *Sol. Phys.*, 289(5), 1863-1883, doi:[10.1007/s11207-013-0430-5](https://doi.org/10.1007/s11207-013-0430-5), 2014.
1122. Schmidtke, G., C. Jacobi, B. Nikutowski, and C. Erhardt, Extreme ultraviolet (EUV) solar spectral irradiance (SSI) for ionospheric application—history and contemporary state-of-art, *Adv. Radio Sci.*, 12(17), 251-260, doi:[10.5194/ars-12-251-2014](https://doi.org/10.5194/ars-12-251-2014), 2014.
1123. Sharma, R. D., Technical Note: A new mechanism of 15 μm emission in the mesosphere-lower thermosphere (MLT), *Atmos. Chem. Phys. Discuss.*, 14, 18, doi:[10.5194/acpd-14-25083-2014](https://doi.org/10.5194/acpd-14-25083-2014), 2014.
1124. Sharp, W. E., T. S. Zaccheo, E. V. Browell, S. Ismail, J. T. Dobler, and E. J. Llewellyn, Impact of ambient O₂(a¹ Δ _g) on satellite-based laser remote sensing of O₂ columns using

- absorption lines in the 1.27 μm region, *J. Geophys. Res. Atmos.*, 119, 12, doi:[10.1002/2013JD021324](https://doi.org/10.1002/2013JD021324), 2014.
1125. Sheese, P. E., E. J. Llewellyn, R. L. Gattinger, and K. Strong, OH Meinel band nightglow profiles from OSIRIS observations, *J. Geophys. Res. Atmos.*, 119, 19, doi:[10.1002/2014JD021617](https://doi.org/10.1002/2014JD021617), 2014.
1126. Sheng, C., Y. Deng, X. Yue, and Y. Huang, Height-integrated Pedersen conductivity in both E and F regions from COSMIC observations, *J. Atmos. Solar-Terr. Phys.*, 115-116, 79-86, doi:[10.1016/j.jastp.2013.12.013](https://doi.org/10.1016/j.jastp.2013.12.013), 2014.
1127. Shepherd, M. G., S. R. Beagley, and V. I. Fomichev, Stratospheric warming influence on the mesosphere/lower thermosphere as seen by the extended CMAM, *Ann. Geophys.*, 32, 6, doi:[10.5194/angeo-32-589-2014](https://doi.org/10.5194/angeo-32-589-2014), 2014.
1128. Shpynev, B. G., A. V. Oinats, V. P. Lebedev, M. A. Chernigovskaya, I. I. Orlov, A. Yu Belinskaya, and O. M. Grekhov, Manifestation of gravitational tides and planetary waves in long-term variations in geophysical parameters, *Geomagn. Aeron.*, 54, 4, doi:[10.1134/S001679321404015X](https://doi.org/10.1134/S001679321404015X), 2014.
1129. Shuai, J., C.-M. Huang, S.-D. Zhang, F. Yi, K.-M. Huang, Q. Gan, and Y. Gong, Elevated Stratopause Events During 2003-2011 Revealed by SABER/TIMED Temperature Observations, *Chinese Journal of Geophysics*, 57, 4, doi:[10.1002/cjg2.20114](https://doi.org/10.1002/cjg2.20114), 2014.
1130. Shuai, J., S. Zhang, C. Huang, F. Yi, K. Huang, Q. Gan, and Y. Gong, Climatology of global gravity wave activity and dissipation revealed by SABER/TIMED temperature observations, *Sci. China Technol. Sci.*, 57, 5, doi:[10.1007/s11431-014-5527-z](https://doi.org/10.1007/s11431-014-5527-z), 2014.
1131. Sigernes, F., S. E. Holmen, D. Biles, H. Bjørklund, X. Chen, M. Dyrland, D. A. Lorentzen, L. Baddeley, T. Trondsen, U. Brändström, E. Trondsen, B. Lybekk, J. Moen, S. Chernouss, and C. S. Deehr, Auroral all-sky camera calibration, *Geosci. Instrum. Method. Data Syst.*, 3, 241-245, doi:[10.5194/gi-3-241-2014](https://doi.org/10.5194/gi-3-241-2014), 2014.
1132. Siskind, D. E., and J. P. McCormack, Summer mesospheric warmings and the quasi 2 day wave, *Geophys. Res. Lett.*, 41, 2, doi:[10.1002/2013GL058875](https://doi.org/10.1002/2013GL058875), 2014.
1133. Siskind, D. E., D. P. Drob, K. F. Dymond, and J. P. McCormack, Simulations of the effects of vertical transport on the thermosphere and ionosphere using two coupled models, *J. Geophys. Res. Space Physics*, 119, 2, doi:[10.1002/2013JA019116](https://doi.org/10.1002/2013JA019116), 2014.
1134. Sivakandan, M., D. Kapasi, and A. Taori, The occurrence altitudes of middle atmospheric temperature inversions and mesopause over low-latitude Indian sector, *Ann. Geophys.*, 32, 967-974, doi:[10.5194/angeo-32-967-2014](https://doi.org/10.5194/angeo-32-967-2014), 2014.
1135. Slominska, E., J. Blecki, J.-P. Lebreton, M. Parrot, and J. Slominski, Seasonal trends of nighttime plasma density enhancements in the topside ionosphere, *J. Geophys. Res. Space Physics*, 119, 8, 6902-6912, doi:[10.1002/2014JA020181](https://doi.org/10.1002/2014JA020181), 2014.
1136. Smith, A. K., M. López-Puertas, B. Funke, M. García-Comas, M. G. Mlynczak, and L. A. Holt, Nighttime ozone variability in the high latitude winter mesosphere, *J. Geophys. Res. Atmos.*, 119, 23, doi:[10.1002/2014JD021987](https://doi.org/10.1002/2014JD021987), 2014.
1137. Smith, L. L., and J. C. Gille, Validation of the Aura High Resolution Dynamics Limb Sounder geopotential heights, *Atmospheric Measurement Techniques*, 7, 8, doi:[10.5194/amt-7-2775-2014](https://doi.org/10.5194/amt-7-2775-2014), 2014.
1138. Smith, S. M., The identification of mesospheric frontal gravity-wave events at a mid-latitude site, *Adv. Space Res.*, 54, 3, 417-424, doi:[10.1016/j.asr.2013.08.014](https://doi.org/10.1016/j.asr.2013.08.014), 2014.
1139. Sojka, J. J., J. B. Jensen, M. David, R. W. Schunk, T. Woods, F. Eparvier, M. P. Sulzer, S. A. Gonzalez, and J. V. Eccles, Ionospheric model-observation comparisons: E layer at Arecibo Incorporation of SDO-EVE solar irradiances, *J. Geophys. Res. Space Physics*, 119(5), 3844-3856, doi:[10.1002/2013JA019528](https://doi.org/10.1002/2013JA019528), 2014.

1140. Stephan, A. W., S. A. Budzien, S. C. Finn, T. A. Cook, S. Chakrabarti, S. P. Powell, and M. L. Psiaki, Ionospheric imaging using merged ultraviolet airglow and radio occultation data, *Proc. SPIE* 9222, Imaging Spectrometry XIX, doi:[10.1117/12.2061420](https://doi.org/10.1117/12.2061420), 2014.
1141. Stevens, M. H., S. Lossow, D. E. Siskind, R. R. Meier, C. E. Randall, J. M. Russell III, J. Urban, and D. Murtagh, Space shuttle exhaust plumes in the lower thermosphere: Advective transport and diffusive spreading, *J. Atmos. Solar-Terr. Phys.*, 108, 50-60, doi:[10.1016/j.jastp.2013.12.004](https://doi.org/10.1016/j.jastp.2013.12.004), 2014.
1142. Stubbs, T. J., W. M. Farrell, J. S. Halekas, J. K. Burchill, M. R. Collier, M. I. Zimmerman, R. R. Vondrak, G. T. Delory, and R. F. Pfaff, Dependence of lunar surface charging on solar wind plasma conditions and solar irradiation, *Planetary & Space Science*, 90, 10-27, doi:[10.1016/j.pss.2013.07.008](https://doi.org/10.1016/j.pss.2013.07.008), 2014.
1143. Studer, S., K. Hocke, A. Schanz, H. Schmidt, and N. Kämpfer, A climatology of the diurnal variations in stratospheric and mesospheric ozone over Bern, Switzerland, *Atmos. Chem. Phys.*, 14, 12, doi:[10.5194/acp-14-5905-2014](https://doi.org/10.5194/acp-14-5905-2014), 2014.
1144. Su, C. L., H. C. Chen, Y. H. Chu, M. Z. Chung, R. M. Kuong, T. H. Lin, K. J. Tzeng, C. Y. Wang, K. H. Wu, and K. F. Yang, Meteor radar wind over Chung-Li (24.9°N, 121°E), Taiwan, for the period 10-25 November 2012 which includes Leonid meteor shower: Comparison with empirical model and satellite measurements, *Radio Sci.*, 49, 597-615, doi:[10.1002/2013RS005273](https://doi.org/10.1002/2013RS005273), 2014.
1145. Tao, C., Y. Miyoshi, N. Achilleos, and H. Kita, Response of the Jovian thermosphere to variations in solar EUV flux, *J. Geophys. Res. Space Physics*, 119(5), 3664-3682, doi:[10.1002/2013JA019411](https://doi.org/10.1002/2013JA019411), 2014.
1146. Thuillier, G., D. Bolsée, G. Schmidtke, T. Foujols, B. Nikutowski, A. I. Shapiro, R. Brunner, M. Weber, C. Erhardt, M. Hersé, D. Gillotay, W. Peetermans, W. Decuyper, N. Pereira, M. Haberreiter, H. Mandel, and W. Schmutz, The solar irradiance spectrum at solar activity minimum between solar cycles 23 and 24, *Sol. Phys.*, 289(6), 1931-1958, doi:[10.1007/s11207-013-0461-y](https://doi.org/10.1007/s11207-013-0461-y), 2014.
1147. Thuillier, G., G. Schmidtke, C. Erhardt, B. Nikutowski, A. I. Shapiro, C. Bolduc, J. L. Lean, N. Krivova, P. Charbonneau, G. Cessateur, M. Haberreiter, S. Melo, V. Delouille, B. Mampaey, K. L. Yeo, and W. Schmutz, Solar spectral irradiance variability in November/December 2012: comparison of observations by instruments on the International Space Station and models, *Sol. Phys.*, 289(12), 4433-4452, doi:[10.1007/s11207-014-0588-5](https://doi.org/10.1007/s11207-014-0588-5), 2014.
1148. Thurairajah, B., S. M. Bailey, C. Y. Cullens, M. E. Hervig, and J. M. Russell III, Gravity wave activity during recent stratospheric sudden warming events from SOFIE temperature measurements, *J. Geophys. Res. Atmos.*, 119, 13, doi:[10.1002/2014JD021763](https://doi.org/10.1002/2014JD021763), 2014.
1149. Truskowski, A. O., J. M. Forbes, X. Zhang, and S. E. Palo, New perspectives on thermosphere tides: 1. Lower thermosphere spectra and seasonal-latitudinal structures, *Earth, Planets and Space*, 66, 1, doi:[10.1186/s40623-014-0136-4](https://doi.org/10.1186/s40623-014-0136-4), 2014.
1150. Tsidu, G. M., and G. Abraha, Moderate geomagnetic storms of January 22–25, 2012 and their influences on the wave components in ionosphere and upper stratosphere-mesosphere regions, *Adv. Space Res.*, 54, 9, 1793-1812, doi:[10.1016/j.asr.2014.07.029](https://doi.org/10.1016/j.asr.2014.07.029), 2014.
1151. Verkhoglyadova, O. P., B. T. Tsurutani, A. J. Mannucci, M. G. Mlynczak, L. A. Hunt, and L. J. Paxton, Ionospheric TEC, thermospheric cooling and $\Sigma[\text{O}/\text{N}_2]$ compositional changes during the 6-17 March 2012 magnetic storm interval (CAWSES II), *J. Atmos. Solar-Terr. Phys.*, 115-116, 41-51, doi:[10.1016/j.jastp.2013.11.009](https://doi.org/10.1016/j.jastp.2013.11.009), 2014.
1152. Wan, W., and J. Xu, Recent investigation on the coupling between the ionosphere and upper atmosphere, *Sci. China Earth Sci.*, 57, 9, 1995-2012, doi:[10.1007/s11430-014-4923-3](https://doi.org/10.1007/s11430-014-4923-3), 2014.

1153. Wang, H., H. Lühr, J.-H. Shue, H. U. Frey, G. Kervalishvili, T. Huang, X. Cao, G. Pi, and A. J. Ridley, Strong ionospheric field-aligned currents for radial interplanetary magnetic fields, *J. Geophys. Res. Space Physics*, 119, 5, 3979-3995, doi:[10.1002/2014JA019951](https://doi.org/10.1002/2014JA019951), 2014.
1154. Wang, N., T. Li, and X. Dou, Quasi-stationary planetary waves in the middle atmosphere of Mars, *Sci. China Earth Sci.*, 58, 2, doi:[10.1007/s11430-014-4990-5](https://doi.org/10.1007/s11430-014-4990-5), 2014.
1155. Ward, H. C., J. G. Evans, and C. S. B. Grimmond, Infrared and millimetre-wave scintillometry in the suburban environment – Part 2: Large-area sensible and latent heat fluxes. *Atmos. Meas. Tech. Discuss.*, 7, 11221-11264, doi:[10.5194/amtd-7-11221-2014](https://doi.org/10.5194/amtd-7-11221-2014), 2014.
1156. Warner, K., and J. Oberheide, Nonmigrating tidal heating and MLT tidal wind variability due to the El Niño–Southern Oscillation. *J. Geophys. Res. Atmos.*, 119(3), 1249-1265, doi:[10.1002/2013JD020407](https://doi.org/10.1002/2013JD020407), 2014.
1157. Wen, Y., C. Jin-Song, M. Chun-Bo, L. Na, and Z. Zhen-Wei, Observation of Upper Atmospheric Temperature by Kunming All-Sky Meteor Radar, *Chinese Journal of Geophysics*, 57, 750–760, doi:[10.1002/cjg2.20138](https://doi.org/10.1002/cjg2.20138), 2014.
1158. Wieman, S. R., L. V. Didkovsky, and D. L. Judge, Resolving differences in absolute irradiance measurements between the SOHO/CELIAS/SEM and the SDO/EVE, *Sol. Phys.*, 289, 8, 2907-2925, doi:[10.1007/s11207-014-0519-5](https://doi.org/10.1007/s11207-014-0519-5), 2014.
1159. Woods, T. N., Extreme ultraviolet late-phase flares: before and during the solar dynamics observatory mission, *Sol. Phys.*, 289(9), 3391-3401, doi:[10.1007/s11207-014-0483-0](https://doi.org/10.1007/s11207-014-0483-0), 2014.
1160. Xiong, C., and H. Lühr, The Midlatitude Summer Night Anomaly as observed by CHAMP and GRACE: Interpreted as tidal features, *J. Geophys. Res. Space Physics*, 119, 6, doi:[10.1002/2014JA019959](https://doi.org/10.1002/2014JA019959), 2014.
1161. Xiong, C., H. Lühr, and C. Stolle, Seasonal and latitudinal variations of the electron density nonmigrating tidal spectrum in the topside ionospheric F region as resolved from CHAMP observations, *J. Geophys. Res. Space Physics*, 119, 12, doi:[10.1002/2014JA020354](https://doi.org/10.1002/2014JA020354), 2014.
1162. Yamazaki, Y., A. D. Richmond, A. Maute, Q. Wu, D. A. Ortland, A. Yoshikawa, I. A. Adimula, B. Rabiou, M. Kunitake, and T. Tsugawa, Ground magnetic effects of the equatorial electrojet simulated by the TIE-GCM driven by TIMED satellite data, *J. Geophys. Res. Space Physics*, 119(4), 3150-3161, doi:[10.1002/2013JA019487](https://doi.org/10.1002/2013JA019487), 2014.
1163. Yamazaki, Y., and M. J. Kosch, Geomagnetic lunar and solar daily variations during the last 100 years, *J. Geophys. Res. Space Physics*, 119, 8, 6732-6744, doi:[10.1002/2014JA020203](https://doi.org/10.1002/2014JA020203), 2014.
1164. Yamazaki, Y., Solar and lunar ionospheric electrodynamic effects during stratospheric sudden warmings, *J. Atmos. Solar-Terr. Phys.*, 119, 138-146, doi:[10.1016/j.jastp.2014.08.001](https://doi.org/10.1016/j.jastp.2014.08.001), 2014.
1165. Yelle, R. V., A. Mahieux, S. Morrison, V. Vuitton, and S. M. Hörst, Perturbation of the Mars atmosphere by the near-collision with Comet C/2013 A1 (Siding Spring), *Icarus*, 237, 202-210, doi:[10.1016/j.icarus.2014.03.030](https://doi.org/10.1016/j.icarus.2014.03.030), 2014.
1166. Yizengaw, E., M. B. Moldwin, E. Zesta, C. M. Biouele, B. Damtie, A. Mebrahtu, B. Rabiou, C. F. Valladares, and R. Stoneback, The longitudinal variability of equatorial electrojet and vertical drift velocity in the African and American sectors, *Ann. Geophys.*, 32, 3, doi:[10.5194/angeo-32-231-2014](https://doi.org/10.5194/angeo-32-231-2014), 2014.
1167. Younger, J. P., C. S. Lee, I. M. Reid, R. A. Vincent, Y. H. Kim, and D. J. Murphy, The effects of deionization processes on meteor radar diffusion coefficients below 90 km, *J. Geophys. Res. Atmos.*, 119, 16, 10027-10043, doi:[10.1002/2014JD021787](https://doi.org/10.1002/2014JD021787), 2014.
1168. Yuan, T., C. Y. She, J. Oberheide, and D. A. Krueger, Vertical tidal wind climatology from full-diurnal-cycle temperature and Na density lidar observations at Ft. Collins, CO (41°N, 105°W), *J. Geophys. Res. Atmos.*, 119, 8, doi:[10.1002/2013JD020338](https://doi.org/10.1002/2013JD020338), 2014.
1169. Yuan, T., P.-D. Pautet, Y. Zhao, X. Cai, N. R. Criddle, M. J. Taylor, and W. R. Pendleton, Coordinated investigation of midlatitude upper mesospheric temperature inversion layers and

- the associated gravity wave forcing by Na lidar and Advanced Mesospheric Temperature Mapper in Logan, Utah, *J. Geophys. Res. Atmos.*, 119, 7, doi:10.1002/2013JD020586, 2014.
1170. Yue, C., G. Yang, J. Wang, S. Guan, L. Du, X. Cheng, and Y. Yang, Lidar observations of the middle atmospheric thermal structure over north China and comparisons with TIMED/SABER, *J. Atmos. Solar-Terr. Phys.*, 120, doi:[10.1016/j.jastp.2014.08.017](https://doi.org/10.1016/j.jastp.2014.08.017), 2014.
1171. Zhang, X., and J. M. Forbes, Lunar tide in the thermosphere and weakening of the northern polar vortex, *Geophys. Res. Lett.*, 41, 23, doi:[10.1002/2014GL062103](https://doi.org/10.1002/2014GL062103), 2014.
1172. Zhang, Y., L. J. Paxton, D. Morrison, D. Marsh, and H. Kil, Storm-time behaviors of O/N₂ and NO variations, *J. Atmos. Solar-Terr. Phys.*, 114, 42-49, doi:[10.1016/j.jastp.2014.04.003](https://doi.org/10.1016/j.jastp.2014.04.003), 2014.
1173. Zhu, J., and A. Ridley, The effect of background conditions on the ionospheric response to solar flares, *J. Geophys. Res. Space Physics*, 119(6), 5060-5075, doi:[10.1002/2014JA019887](https://doi.org/10.1002/2014JA019887), 2014.
1174. Zou, C.-Z., H. Qian, W. Wang, L. Wang, and C. Long, Recalibration and merging of SSU observations for stratospheric temperature trend studies, *J. Geophys. Res. Atmos.*, 119, 23, doi:[10.1002/2014JD021603](https://doi.org/10.1002/2014JD021603), 2014.

2013

1175. Bailey, S. M., B. Thurairajah, W. A. Scales, M. DeLand, J. M. Russell III, and F.-J. Lübken, Science results from the 10th Layered Phenomena in the Mesopause Region Workshop, *J. Atmos. Solar-Terr. Phys.*, 104, 148-150, doi:10.1016/j.jastp.2013.10.004, 2013.
1176. Balan, N., Y. Otsuka, M. Nishioka, J. Y. Liu, and G. J. Bailey, Physical mechanisms of the ionospheric storms at equatorial and higher latitudes during the recovery phase of geomagnetic storms, *J. Geophys. Res. Space Physics*, 118, 5, 2660-2669, doi:[10.1002/jgra.50275](https://doi.org/10.1002/jgra.50275), 2013.
1177. BenMoussa, A., S. Gissot, U. Schühle, G. D. Zanna, F. Auchère, S. Mekaoui, A. R. Jones, D. Walton, C. J. Eyles, G. Thuillier, D. Seaton, I. E. Dammasch, G. Cessateur, M. Meftah, V. Andretta, D. Berghmans, D. Bewsher, D. Bolsée, L. Bradley, D. S. Brown, P. C. Chamberlin, S. Dewitte, L. V. Didkovsky, M. Dominique, F. G. Eparvier, T. Foujols, D. Gillotay, B. Giordanengo, J. P. Halain, R. A. Hock, A. Irbah, C. Jeppesen, D. L. Judge, W. Schmutz, G. Ucker, S. Wieman, D. Woodraska, and T. N. Woods, On-Orbit Degradation of Solar Instruments, *Sol. Phys.*, 288, 389-434, doi:[10.1007/s11207-013-0290-z](https://doi.org/10.1007/s11207-013-0290-z), 2013.
1178. Bertoni, F. C. P., J.-P. Raulin, H. R. Gavilán, P. Kaufmann, R. Rodriguez, M. Clilverd, J. S. Cardenas, and G. Fernandez, Lower ionosphere monitoring by the South America VLF Network (SAVNET): C region occurrence and atmospheric temperature variability, *J. Geophys. Res. Space Physics*, 118, 10, 2013JA019065, doi:[10.1002/jgra.50559](https://doi.org/10.1002/jgra.50559), 2013.
1179. Bhuyan, P. K., and R. Hazarika, GPS TEC near the crest of the EIA at 95°E during the ascending half of solar cycle 24 and comparison with IRI simulations, *Adv. Space Res.*, 52, 7, 1247-1260, doi:[10.1016/j.asr.2013.06.029](https://doi.org/10.1016/j.asr.2013.06.029), 2013.
1180. Caridade, P. J., J.-Z. J. Horta, and A. J. C. Varandas, Implications of the O + OH reaction in hydroxyl nightglow modeling, *Atmos. Chem. Phys.*, 13, 1-13, doi:[10.5194/acp-13-1-2013](https://doi.org/10.5194/acp-13-1-2013), 2013.
1181. Chandran, A., R. R. Garcia, R. L. Collins, and L. C. Chang, Secondary planetary waves in the middle and upper atmosphere following the stratospheric sudden warming event of January 2012, *Geophys. Res. Lett.*, 40, 1861-1867, doi:[10.1002/grl.50373](https://doi.org/10.1002/grl.50373), 2013.
1182. Chang, L. C., C.-H. Lin, J. Yue, J.-Y. Liu, and J.-T. Lin, Stationary planetary wave and nonmigrating tidal signatures in ionospheric wave 3 and wave 4 variations in 2007-2011 FORMOSAT-3/COSMIC observations, *J. Geophys. Res. Space Physics*, 118, 6651-6665, doi:[10.1002/jgra.50583](https://doi.org/10.1002/jgra.50583), 2013.

1183. Chang, L. C., C.-H. Lin, J.-Y. Liu, N. Balan, J. Yue, and J.-T. Lin, Seasonal and local time variation of ionospheric migrating tides in 2007–2011 FORMOSAT-3/COSMIC and TIE-GCM total electron content, *J. Geophys. Res. Space Physics*, 118, 5, 2545-2564, doi:[10.1002/jgra.50268](https://doi.org/10.1002/jgra.50268), 2013.
1184. Chen, C. H., C. H. Lin, L. C. Chang, J. D. Huba, J. T. Lin, A. Saito, and J. Y. Liu, Thermospheric tidal effects on the ionospheric midlatitude summer nighttime anomaly using SAMI3 and TIEGCM, *J. Geophys. Res. Space Physics*, 118, 6, 3836-3845, doi:[10.1002/jgra.50340](https://doi.org/10.1002/jgra.50340), 2013.
1185. Chen, J. H., E. Möbius, G. Gloeckler, P. Bochsler, M Bzowski, P. A. Isenberg, and J. M. Sokół, Observational study of the cooling behavior of interstellar helium pickup ions in the inner heliosphere, *J. Geophys. Res. Space Physics*, 118(7), 3946-3953, doi:[10.1002/jgra.50391](https://doi.org/10.1002/jgra.50391), 2013.
1186. Christensen, A. B., R. L. Bishop, S. A. Budzien, J. H. Hecht, M. G. Mlynczak, J. M. Russell III, A. W. Stephan, and R. W. Walterscheid, Altitude profiles of lower thermospheric temperature from RAIDS/NIRS and TIMED/SABER remote sensing experiments, *J. Geophys. Res. Space Physics*, 118, 6, doi:[10.1002/jgra.50317](https://doi.org/10.1002/jgra.50317), 2013.
1187. Clemmons, J. H., R. L. Walterscheid, A. B. Christensen, and R. L. Bishop, Rapid, highly structured meridional winds and their modulation by non migrating tides: Measurements from the Streak mission, *J. Geophys. Res. Space Physics*, 118, 2, 866-877, doi:[10.1029/2012JA017661](https://doi.org/10.1029/2012JA017661), 2013.
1188. Cong, H.-F., C. Wang, and Y. Wang, “Study on near-far ultraviolet imaging spectrometer with high resolution”, *Proc. SPIE* 8910, International Symposium on Photoelectronic Detection and Imaging 2013: Imaging Spectrometer Technologies and Applications, 89100X, doi:[10.1117/12.2032920](https://doi.org/10.1117/12.2032920), 2013.
1189. Dalin, P., M. Connors, I. Schofield, A. Dubietis, N. Pertsev, V. Perminov, M. Zalcik, A. Zadorozhny, T. McEwan, I. McEachran, J. Grønne, O. Hansen, H. Andersen, S. Frandsen, D. Melnikov, V. Romejko, and I. Grigoryeva, First common volume ground-based and space measurements of the mesospheric front in noctilucent clouds, *Geophys. Res. Lett.*, 40, 6399–6404, doi:[10.1002/2013GL058553](https://doi.org/10.1002/2013GL058553), 2013.
1190. Dalin, P., V. Perminov, N. Pertsev, A. Dubietis, A. Zadorozhny, A. Smirnov, A. Mezentsev, S. Frandsen, J. Grønne, O. Hansen, H. Andersen, I. McEachran, T. McEwan, J. Rowlands, H. Meyerdierks, M. Zalcik, M. Connors, I. Schofield, and I. Veselovsky, Optical studies of rocket exhaust trails and artificial noctilucent clouds produced by Soyuz rocket launches, *J. Geophys. Res. Atmos.*, 118, 14, 7850-7863, doi:[10.1002/jgrd.50549](https://doi.org/10.1002/jgrd.50549), 2013.
1191. Danilov, A. D., Ionospheric F-region response to geomagnetic disturbances, *Adv. Space Res.*, 52, 3, 343-366, doi:[10.1016/j.asr.2013.04.019](https://doi.org/10.1016/j.asr.2013.04.019), 2013.
1192. Das, S. S., K. K. Kumar, and G. Ramkumar, First observations of quasi 120 day oscillation in Mesospheric winds and temperature: Observations inferred from Meteor Radar, *Radio Sci.*, 48, 3, 310-315, doi:[10.1002/rds.20037](https://doi.org/10.1002/rds.20037), 2013.
1193. Das, U., and C. J. Pan, Strong Kelvin wave activity observed during the westerly phase of QBO - a case study, *Ann. Geophys.*, 31, 4, doi:[10.5194/angeo-31-581-2013](https://doi.org/10.5194/angeo-31-581-2013), 2013.
1194. Davis, R. N., J. Du, A. K. Smith, W. E. Ward, and N. J. Mitchell, The diurnal and semidiurnal tides over Ascension Island (° S, 14° W) and their interaction with the stratospheric quasi-biennial oscillation: studies with meteor radar, eCMAM and WACCM, *Atmos. Chem. Phys.*, 13, 18, doi:[10.5194/acp-13-9543-2013](https://doi.org/10.5194/acp-13-9543-2013), 2013.
1195. Day, K. A., and N. J. Mitchell, Mean winds in the MLT, the SQBO and MSAO over Ascension Island (8° S, 14° W), *Atmos. Chem. Phys.*, 13, 18, doi:[10.5194/acp-13-9515-2013](https://doi.org/10.5194/acp-13-9515-2013), 2013.

1196. Demissie, T. D., K. Hosokawa, N. H. Kleinknecht, P. J. Espy, and R. E. Hibbins, Planetary wave oscillations observed in ozone and PMSE data from Antarctica, *J. Atmos. Solar-Terr. Phys.*, 105–106, 207–213, doi:[10.1016/j.jastp.2013.10.008](https://doi.org/10.1016/j.jastp.2013.10.008), 2013.
1197. Dhomse, S. S., M. P. Chipperfield, W. Feng, W. T. Ball, Y. C. Unruh, J. D. Haigh, N. A. Krivova, S. K. Solanki, and A. K. Smith, Stratospheric O₃ changes during 2001–2010: the small role of solar flux variations in a chemical transport model, *Atmos. Chem. Phys.*, 13, 19, doi:[10.5194/acp-13-10113-2013](https://doi.org/10.5194/acp-13-10113-2013), 2013.
1198. Dmitriev, A. V., C.-M. Huang, P. S. Brahmanandam, L. C. Chang, K.-T. Chen, and L.-C. Tsai, Longitudinal variations of positive dayside ionospheric storms related to recurrent geomagnetic storms, *J. Geophys. Res. Space Physics*, 118, 10, 2013JA018966, doi:[10.1002/jgra.50575](https://doi.org/10.1002/jgra.50575), 2013.
1199. Edberg, N. J. T., D. J. Andrews, O. Shebanits, K. Ågren, J.-E. Wahlund, H. J. Opgenoorth, T. E. Cravens, and Z. Girazian, Solar cycle modulation of Titan's ionosphere, *J. Geophys. Res. Space Physics*, 118(8), 5255–5264, doi:[10.1002/jgra.50463](https://doi.org/10.1002/jgra.50463), 2013.
1200. Elliott, H. A., J.-M. Jahn, and D. J. McComas, The *K_p* index and solar wind speed relationship: Insights for improving space weather forecasts, *Space Weather*, 11, 6, 339–349, doi:[10.1002/swe.20053](https://doi.org/10.1002/swe.20053), 2013.
1201. Ermolli, I., K. Matthes, T. D. de Wit, N. A. Krivova, K. Tourpali, M. Weber, Y. C. Unruh, L. Gray, U. Langematz, P. Pilewskie, E. Rozanov, W. Schmutz, A. Shapiro, S. K. Solanki, and T. N. Woods, Recent variability of the solar spectral irradiance and its impact on climate modelling, *Atmos. Chem. Phys.*, 13, 8, doi:[10.5194/acp-13-3945-2013](https://doi.org/10.5194/acp-13-3945-2013), 2013.
1202. Ern, M., P. Preusse, S. Kalisch, M. Kaufmann, and M. Riese, Role of gravity waves in the forcing of quasi two-day waves in the mesosphere: An observational study, *J. Geophys. Res. Atmos.*, 118, 9, 3467–3485, doi:[10.1029/2012JD018208](https://doi.org/10.1029/2012JD018208), 2013.
1203. Eswarajah, S., M. V. Ratnam, B. V. K. Murthy, A. Guharay, and S. V. B. Rao, Short period gravity wave momentum fluxes observed in the tropical troposphere, stratosphere and mesosphere, *J. Atmos. Solar-Terr. Phys.*, 105–106, 1–7, doi:[10.1016/j.jastp.2013.07.001](https://doi.org/10.1016/j.jastp.2013.07.001), 2013.
1204. Faber, A., P. Llamedo, T. Schmidt, A. de la Torre, and J. Wickert, On the determination of gravity wave momentum flux from GPS radio occultation data, *Atmospheric Measurement Techniques*, 6, 11, doi:[10.5194/amt-6-3169-2013](https://doi.org/10.5194/amt-6-3169-2013), 2013.
1205. Fejer, B. G., and Brian D. Tracy, Lunar tidal effects in the electrodynamics of the low latitude ionosphere, *J. Atmos. Solar-Terr. Phys.*, 103, 76–82, doi:[10.1016/j.jastp.2013.01.008](https://doi.org/10.1016/j.jastp.2013.01.008), 2013.
1206. Feng, W., D. R. Marsh, M. P. Chipperfield, D. Janches, J. Höffner, F. Yi, and J. M. C. Plane, A global atmospheric model of meteoric iron, *J. Geophys. Res. Atmos.*, 118, 16, doi:[10.1002/jgrd.50708](https://doi.org/10.1002/jgrd.50708), 2013.
1207. Forbes, J. M., X. Zhang, S. Bruinsma, and J. Oberheide, Lunar semidiurnal tide in the thermosphere under solar minimum conditions, *J. Geophys. Res. Space Physics*, 118, 4, doi:[10.1029/2012JA017962](https://doi.org/10.1029/2012JA017962), 2013.
1208. Gattinger, R. L., E. Kyrölä, C. D. Boone, W. F. J. Evans, K. A. Walker, I. C. McDade, P. F. Bernath, and E. J. Llewellyn, The roles of vertical advection and eddy diffusion in the equatorial mesospheric semi-annual oscillation (MSAO), *Atmos. Chem. Phys.*, 13, 15, doi:[10.5194/acp-13-7813-2013](https://doi.org/10.5194/acp-13-7813-2013), 2013.
1209. Gavrillov, N. M., A. V. Koval, A. I. Pogoreltsev, and E. N. Savenkova, Numerical modeling of inhomogeneous orographic wave influence on planetary waves in the middle atmosphere, *Adv. Space Res.*, 51, 11, 2145–2154, doi:[10.1016/j.asr.2012.12.024](https://doi.org/10.1016/j.asr.2012.12.024), 2013.
1210. Gavrillov, N. M., A. V. Koval', A. I. Pogorel'tsev, and E. N. Savenkova, Numerical simulation of the response of general circulation of the middle atmosphere to spatial inhomogeneities of orographic waves, *Izvestiya, Atmospheric and Oceanic Physics*, 49, 367–374, doi:[10.1134/S0001433813040038](https://doi.org/10.1134/S0001433813040038), 2013.

1211. Gavrilov, N. M., Estimates of turbulent diffusivities and energy dissipation rates from satellite measurements of spectra of stratospheric refractivity perturbations, *Atmos. Chem. Phys.*, 13, 23, doi:[10.5194/acp-13-12107-2013](https://doi.org/10.5194/acp-13-12107-2013), 2013.
1212. Gerber, D., B. M. Swinyard, B. N. Ellison, J. M. C. Plane, W. Feng, N. Navarathinam, S. J. Eves, R. Bird, E. H. Linfield, A. G. Davies, and S. Parkes, "LOCUS: Low cost upper atmosphere sounder", *Proc. SPIE 8889, Sensors, Systems, and Next-Generation Satellites XVII*, 88891I, 24 October 2013, doi:[10.1117/12.2028675](https://doi.org/10.1117/12.2028675), 2013.
1213. Ghodpage, R. N., A. Taori, P. T. Patil, and S. Gurubaran, Simultaneous mesospheric gravity wave measurements in OH night airglow emission from Gadanki and Kolhapur- Indian low latitudes, *Current Science*, [104, 98-105](https://doi.org/10.1002/jgrd.50191), 2013.
1214. Ghodpage, R. N., D. Siingh, R. P. Singh, G. K. Mukherjee, P. Vohat, and A. K. Singh, Tidal and gravity waves study from the airglow measurements at Kolhapur (India), *J. Earth Syst. Sci.*, 121, 6, doi:[10.1007/s12040-012-0240-4](https://doi.org/10.1007/s12040-012-0240-4), 2013.
1215. Girazian, Z., and P. Withers, The dependence of peak electron density in the ionosphere on Mars on solar irradiance, *Geophys. Res. Lett.*, 40, 1960-1964, doi:[10.1002/grl.50344](https://doi.org/10.1002/grl.50344), 2013.
1216. Goncharenko, L. P., V. W. Hsu, C. G. M. Brum, S.-R. Zhang, and J. T. Fentzke, Wave signatures in the midlatitude ionosphere during a sudden stratospheric warming of January 2010, *J. Geophys. Res. Space Physics*, 118, 1, 472-487, doi:[10.1029/2012JA018251](https://doi.org/10.1029/2012JA018251), 2013.
1217. Gu, S.-Y., T. Li, X. Dou, Q. Wu, M. G. Mlynczak, and J. M. Russell III, Observations of Quasi-Two-Day wave by TIMED/SABER and TIMED/TIDI, *J. Geophys. Res. Atmos.*, 118, 1624-1639, doi:[10.1002/jgrd.50191](https://doi.org/10.1002/jgrd.50191), 2013.
1218. Guharay, A., P. P. Batista, B. R. Clemesha, and N. J. Schuch, Study of the quasi-two-day wave during summer over Santa Maria, Brazil using meteor radar observations, *J. Atmos. Solar-Terr. Phys.*, 92, 83-93, doi:[10.1016/j.jastp.2012.10.005](https://doi.org/10.1016/j.jastp.2012.10.005), 2013.
1219. Habarulema, J. B., L.-A. McKinnell, D. Burešová, Y. Zhang, G. Seemala, C. Ngwira, J. Chum, and B. Opperman, A comparative study of TEC response for the African equatorial and mid-latitudes during storm conditions, *J. Atmos. Solar-Terr. Phys.*, 102, 105-114, doi:[10.1016/j.jastp.2013.05.008](https://doi.org/10.1016/j.jastp.2013.05.008), 2013.
1220. Habarulema, J. B., Z. T. Katamzi, and L.-A. McKinnell, Estimating the propagation characteristics of large-scale traveling ionospheric disturbances using ground-based and satellite data, *J. Geophys. Res. Space Physics*, 118, 12, 7768-7782, doi:[10.1002/2013JA018997](https://doi.org/10.1002/2013JA018997), 2013.
1221. Halekas, J. S., A. R. Poppe, G. T. Delory, M. Sarantos, and J. P. McFadden, Using ARTEMIS pickup ion observations to place constraints on the lunar atmosphere, *J. Geophys. Res. Planets*, 118(1), 81-88, doi:[10.1029/2012JE004292](https://doi.org/10.1029/2012JE004292), 2013.
1222. Hall, C. M., The radar tropopause at 78°N, 16°E: Characteristics of diurnal variation, *J. Geophys. Res. Atmos.*, 118, 12, doi:[10.1002/jgrd.50560](https://doi.org/10.1002/jgrd.50560), 2013.
1223. Haridas, M. K. M., G. Manju, and T. K. Pant, First observational evidence of the modulation of the threshold height $h'F_c$ for the occurrence of equatorial spread F by neutral composition changes, *J. Geophys. Res. Space Physics*, 118, 6, 3540-3545, doi:[10.1002/jgra.50331](https://doi.org/10.1002/jgra.50331), 2013.
1224. Hassler, B., I. Petropavlovskikh, J. Staehelin, T. August, P. K. Bhartia, C. Clerbaux, D. Degenstein, M. De Mazière, B. M. Dinelli, A. Dudhia, G. Dufour, S. M. Frith, L. Froidevaux, S. Godin-Beekmann, J. Granville, N. R. P. Harris, K. Hoppel, D. Hubert, Y. Kasai, M. J. Kurylo, E. Kyrölä, J.-C. Lambert, P. F. Levelt, C. T. McElroy, R. D. McPeters, R. Munro, H. Nakajima, A. Parrish, P. Raspollini, E. E. Remsberg, K. H. Rosenlof, A. Rozanov, T. Sano, Y. Sasano, M. Shiotani, H. G. J. Smit, G. Stiller, J. Tamminen, D. W. Tarasick, J. Urban, R. J. van der A, J. P. Veefkind, C. Vigouroux, T. von Clarmann, C. von Savigny, K. A. Walker, M. Weber, J. Wild, and J. Zawodny, SI^2N overview paper: ozone profile measurements:

- techniques, uncertainties and availability, *Atmos. Meas. Tech.*, 6, 9857-9938, doi:[10.5194/amtd-6-9857-2013](https://doi.org/10.5194/amtd-6-9857-2013), 2013.
1225. Hervig, M. E., D. E. Siskind, M. H. Stevens, and L. E. Deaver, Inter-hemispheric comparison of PMCs and their environment from SOFIE observations, *J. Atmos. Solar-Terr. Phys.*, 104, 285-298, doi:[10.1016/j.jastp.2012.10.013](https://doi.org/10.1016/j.jastp.2012.10.013), 2013.
1226. Huang, C. Y., P. A. Roddy, E. K. Sutton, R. Stoneback, R. F. Pfaff, L. C. Gentile, and S. H. Delay, Ion-neutral coupling during deep solar minimum, *J. Atmos. Solar-Terr. Phys.*, 103, 138-146, doi:[10.1016/j.jastp.2012.11.009](https://doi.org/10.1016/j.jastp.2012.11.009), 2013.
1227. Huang, K. M., S. D. Zhang, F. Yi, C. M. Huang, Q. Gan, Y. Gong, and Y. H. Zhang, Third-order resonant interaction of atmospheric gravity waves, *J. Geophys. Res. Atmos.*, 118, 5, 2197-2206, doi:[10.1002/jgrd.50252](https://doi.org/10.1002/jgrd.50252), 2013.
1228. Huang, Y. Y., S. D. Zhang, F. Yi, C. M. Huang, K. M. Huang, Q. Gan, and Y. Gong, Global climatological variability of quasi-two-day waves revealed by TIMED/SABER observations, *Ann. Geophys.*, 31, 6, doi:[10.5194/angeo-31-1061-2013](https://doi.org/10.5194/angeo-31-1061-2013), 2013.
1229. Ikubanni, S. O., B. O. Adebisin, S. J. Adebisi, and J. O. Adeniyi, Relationship between F2 layer critical frequency and solar activity indices during different solar epochs, *Indian J. Radio & Space Physics*, 42, 73-81, 2013.
1230. Imai, K., N. Manago, C. Mitsuda, Y. Naito, E. Nishimoto, T. Sakazaki, M. Fujiwara, L. Froidevaux, T. von Clarmann, G. P. Stiller, D. P. Murtagh, P. Rong, M. G. Mlynczak, K. A. Walker, D. E. Kinnison, H. Akiyoshi, T. Nakamura, T. Miyasaka, T. Nishibori, S. Mizobuchi, K. Kikuchi, H. Ozeki, C. Takahashi, H. Hayashi, T. Sano, M. Suzuki, M. Takayanagi, and M. Shiotani, Validation of ozone data from the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES), *J. Geophys. Res. Atmos.*, 118, 11, doi:[10.1002/jgrd.50434](https://doi.org/10.1002/jgrd.50434), 2013.
1231. Jana, P. K., D. K. Saha, and D. Sarkar, Yearly variation and annual cycle of total column ozone over New Delhi (29°N, 77°E), India and Halley Bay (76°S, 27°W), British Antarctic Survey Station and its effect on night airglow intensity of OH(8, 3) for the period 1979-2005, *J. Earth Syst. Sci.*, 121, 6, doi:[10.1007/s12040-012-0242-2](https://doi.org/10.1007/s12040-012-0242-2), 2013.
1232. Jing, W., T. Yi, Z. Zhi-Ge, Z. Xu-Li, and N. Guo-Qiang, Determination of the Ionospheric Electron Density Profile from FUV Remote Sensing Measurements, 56, 2, 109-116, doi:[10.1002/cjg2.20011](https://doi.org/10.1002/cjg2.20011), 2013.
1233. John, S. R., and K. K. Kumar, A discussion on the methods of extracting gravity wave perturbations from space-based measurements, *Geophys. Res. Lett.*, 40, 2406-2410, doi:[10.1002/grl.50451](https://doi.org/10.1002/grl.50451), 2013.
1234. Jones, M., J. M. Forbes, M. E. Hagan, and A. Maute, Non-migrating tides in the ionosphere-thermosphere: In situ versus tropospheric sources, *J. Geophys. Res. Space Physics*, 118, 5, doi:[10.1002/jgra.50257](https://doi.org/10.1002/jgra.50257), 2013.
1235. Kaifler, N., G. Baumgarten, A. R. Klekociuk, S. P. Alexander, J. Fiedler, and F.-J. Lübken, Small scale structures of NLC observed by lidar at 69°N/69°S and their possible relation to gravity waves, *J. Atmos. Solar-Terr. Phys.*, 104, 244-252, doi:[10.1016/j.jastp.2013.01.004](https://doi.org/10.1016/j.jastp.2013.01.004), 2013.
1236. Khaykin, S. M., J.-P. Pommereau, and A. Hauchecorne, Impact of land convection on temperature diurnal variation in the tropical lower stratosphere inferred from COSMIC GPS radio occultations, *Atmos. Chem. Phys.*, 13, 13, doi:[10.5194/acp-13-6391-2013](https://doi.org/10.5194/acp-13-6391-2013), 2013.
1237. Kil, H., and W. K. Lee, Are plasma bubbles a prerequisite for the formation of broad plasma depletions in the equatorial F region?, *Geophys. Res. Lett.*, 40, 3491-3495, doi:[10.1002/grl.50693](https://doi.org/10.1002/grl.50693), 2013.

1238. Kil, H., W. K. Lee, J. S. Shim, L. J. Paxton, and Y. Zhang, The effect of the 135.6 nm emission originated from the ionosphere on the TIMED/GUVI O/N₂ ratio, *J. Geophys. Res. Space Physics*, 118, 859-865, doi:[10.1029/2012JA018112](https://doi.org/10.1029/2012JA018112), 2013.
1239. Klimenko, M. V., V. V. Klimenko, Y. N. Koren'kov, F. S. Bessarab, I. V. Karpov, K. G. Ratovsky, and M. A. Chernigovskaya, Modeling of response of the thermosphere-ionosphere system to sudden stratospheric warmings of years 2008 and 2009, *Cosm. Res.*, 51, 1, 54-63, doi:[10.1134/S001095251301005X](https://doi.org/10.1134/S001095251301005X), 2013.
1240. Knipp, D. J., L. Kilcommons, L. Hunt, M. G. Mlynczak, V. Pilipenko, B. Bowman, Y. Deng, and K. Drake, Thermospheric damping response to sheath-enhanced geospace storms, *Geophys. Res. Lett.*, 40, 1263-1267, doi:[10.1002/grl.50197](https://doi.org/10.1002/grl.50197), 2013.
1241. Kutiev, I., I. Tsagouri, L. Perrone, D. Pancheva, P. Mukhtarov, A. Mikhailov, J. Lastovicka, N. Jakowski, D. Buresova, E. Blanch, B. Andonov, D. Altadill, S. Magdaleno, M. Parisi, and J. M.I. Torta, Solar activity impact on the Earth-s upper atmosphere, *J. Space Weather & Space Clim.*, 3, doi:[10.1051/swsc/2013028](https://doi.org/10.1051/swsc/2013028), 2013.
1242. Lee, W. K., H. Kil, L. J. Paxton, Y. Zhang, and J. S. Shim, The effect of geomagnetic-storm-induced enhancements to ionospheric emissions on the interpretation of the TIMED/GUVI O/N₂ ratio, *J. Geophys. Res. Space Physics*, 118, 12, 7834-7840, doi:[10.1002/2013JA019132](https://doi.org/10.1002/2013JA019132), 2013.
1243. Lehmacher, G. A., T. M. Gaulden, M. F. Larsen, and J. D. Craven, Multiple neutral density measurements in the lower thermosphere with cold-cathode ionization gauges, *J. Atmos. Solar-Terr. Phys.*, 92, 137-144, doi:[10.1016/j.jastp.2012.11.002](https://doi.org/10.1016/j.jastp.2012.11.002), 2013.
1244. Lei, J., X. Dou, A. Burns, W. Wang, X. Luan, Z. Zeng, and J.-Y. Xu, Annual asymmetry in thermospheric density: Observations and simulations, *J. Geophys. Res. Space Physics*, 118, 5, 2503-2510, doi:[10.1002/jgra.50253](https://doi.org/10.1002/jgra.50253), 2013.
1245. Li, M., and M. Parrot, Statistical analysis of an ionospheric parameter as a base for earthquake prediction, *J. Geophys. Res. Space Physics*, 118, 6, 3731-3739, doi:[10.1002/jgra.50313](https://doi.org/10.1002/jgra.50313), 2013.
1246. Li, Q., J. Xu, J. Yue, X. Liu, W. Yuan, B. Ning, S. Guan, and J. P. Younger, Investigation of a mesospheric bore event over Xinglong, in Northern China, *Ann. Geophys.*, 31, 409-418, doi:[10.5194/angeo-31-409-2013](https://doi.org/10.5194/angeo-31-409-2013), 2013.
1247. Li, T., N. Calvo, J. Yue, X. Dou, J. M. Russell III, M. G. Mlynczak, C.-Y. She, and X. Xue, Influence of El Niño-Southern Oscillation in the mesosphere, *Geophys. Res. Lett.*, 40, 3292-3296, doi:[10.1002/grl.50598](https://doi.org/10.1002/grl.50598), 2013.
1248. Lieberman, R. S., D. M. Riggin, and D. E. Siskind, Stationary waves in the wintertime mesosphere: Evidence for gravity wave filtering by stratospheric planetary waves, *J. Geophys. Res. Atmos.*, 118, 3139-3149, doi:[10.1002/jgrd.50319](https://doi.org/10.1002/jgrd.50319), 2013.
1249. Lieberman, R. S., J. Oberheide, and E. R. Talaat, Nonmigrating diurnal tides observed in global thermospheric winds, *J. Geophys. Res. Space Physics*, 118, 11, doi:[10.1002/2013JA018975](https://doi.org/10.1002/2013JA018975), 2013.
1250. Lin, C. H., J. T. Lin, L. C. Chang, W. H. Chen, C. H. Chen, and J. Y. Liu, Stratospheric sudden warming effects on the ionospheric migrating tides during 2008-2010 observed by FORMOSAT-3/COSMIC, *J. Atmos. Solar-Terr. Phys.*, 103, 66-75, doi:[10.1016/j.jastp.2013.03.026](https://doi.org/10.1016/j.jastp.2013.03.026), 2013.
1251. Liou, K., P. T. Newell, Y.-L. Zhang, and L. J. Paxton, Statistical comparison of isolated and non-isolated auroral substorms, *J. Geophys. Res. Space Physics*, 118, 5, 2466-2477, doi:[10.1002/jgra.50218](https://doi.org/10.1002/jgra.50218), 2013.
1252. Liu, A. Z., X. Lu, and S. J. Franke, Diurnal variation of gravity wave momentum flux and its forcing on the diurnal tide, *J. Geophys. Res. Atmos.*, 118, 4, 1668-1678, doi:[10.1029/2012JD018653](https://doi.org/10.1029/2012JD018653), 2013.

1253. Liu, G., T. J. Immel, S. L. England, H. U. Frey, S. B. Mende, K. K. Kumar, and G. Ramkumar, Impacts of atmospheric ultrafast Kelvin waves on radio scintillations in the equatorial ionosphere, *J. Geophys. Res. Space Physics*, 118(2), 885-891, doi:[10.1002/jgra.50139](https://doi.org/10.1002/jgra.50139), 2013.
1254. Liu, H., H. Jin, Y. Miyoshi, H. Fujiwara, and H. Shinagawa, Upper atmosphere response to stratosphere sudden warming: Local time and height dependence simulated by GAIA model, *Geophys. Res. Lett.*, 40, 3, doi:[10.1002/grl.50146](https://doi.org/10.1002/grl.50146), 2013.
1255. Liu, H.-L., and S. L. Vadas, Large-scale ionospheric disturbances due to the dissipation of convectively-generated gravity waves over Brazil, *J. Geophys. Res. Space Physics*, 118, 5, 2419-2427, doi:[10.1002/jgra.50244](https://doi.org/10.1002/jgra.50244), 2013.
1256. Long, D. J., D. R. Jackson, J. Thuburn, and C. Mathison, Validation of Met Office upper stratospheric and mesospheric analyses, *Q. J. R. Meteorol. Soc.*, 139, 674, doi:[10.1002/qj.2031](https://doi.org/10.1002/qj.2031), 2013.
1257. Lu, X., X. Chu, T. Fuller-Rowell, L. Chang, W. Fong, and Z. Yu, Eastward propagating planetary waves with periods of 1–5 days in the winter Antarctic stratosphere as revealed by MERRA and lidar, *J. Geophys. Res. Atmos.*, 118, 17, 9565-9578, doi:[10.1002/jgrd.50717](https://doi.org/10.1002/jgrd.50717), 2013.
1258. Luan, X., W. Wang, J. Lei, A. Burns, X. Dou, and J.-Y. Xu, Geomagnetic and auroral activity driven by corotating interaction regions during the declining phase of Solar Cycle 23, *J. Geophys. Res. Space Physics*, 118, 3, 1255-1269, doi:[10.1002/jgra.50195](https://doi.org/10.1002/jgra.50195), 2013.
1259. Lübken, F.-J., U. Berger, and G. Baumgarten, Temperature trends in the midlatitude summer mesosphere, *J. Geophys. Res. Atmos.*, 118, 24, 13,347-13,360, doi:[10.1002/2013JD020576](https://doi.org/10.1002/2013JD020576), 2013.
1260. Lumpe, J. D., S. M. Bailey, J. N. Carstens, C. E. Randall, D. W. Rusch, G. E. Thomas, K. Nielsen, C. Jeppesen, W. E. McClintock, A. W. Merkel, L. Riesberg, B. Templeman, G. Baumgarten, and J. M. Russell III, Retrieval of polar mesospheric cloud properties from CIPS: Algorithm description, error analysis and cloud detection sensitivity, *J. Atmos. Solar-Terr. Phys.*, 104, 167-196, doi:[10.1016/j.jastp.2013.06.007](https://doi.org/10.1016/j.jastp.2013.06.007), 2013.
1261. Madhavi, G. N., P. Kishore, S. V. B. Rao, I. Velicogna, and V. Sivakumar, Climatology and comparison study of stratosphere and lower mesosphere temperatures using satellite and reanalysis data set, *International Journal of Current Research and Review*, 5, 5, 17-42, 2013.
1262. Marsh, D. R., M. J. Mills, D. E. Kinnison, J.-F. Lamarque, N. Calvo, and L. M. Polvani, Climate Change from 1850 to 2005 Simulated in CESM1(WACCM), *J. Climate*, 26, 19, doi:[10.1175/JCLI-D-12-00558.1](https://doi.org/10.1175/JCLI-D-12-00558.1), 2013.
1263. Mast, J., M. G. Mlynczak, L. A. Hunt, B. T. Marshall, C. J. Mertens, J. M. Russell III, R. E. Thompson, and L. L. Gordley, Absolute concentrations of highly vibrationally excited OH($v = 9 + 8$) in the mesopause region derived from the TIMED/SABER instrument, *Geophys. Res. Lett.*, 40, doi:[10.1002/grl.50167](https://doi.org/10.1002/grl.50167), 2013.
1264. Matthias, V., P. Hoffmann, A. Manson, C. Meek, G. Stober, P. Brown, and M. Rapp, The impact of planetary waves on the latitudinal displacement of sudden stratospheric warmings, *Ann. Geophys.*, 31, 8, doi:[10.5194/angeo-31-1397-2013](https://doi.org/10.5194/angeo-31-1397-2013), 2013.
1265. Mayr, H. G., E. R. Talaat, and B. C. Wolven, Global propagation of gravity waves generated with the whole atmosphere transfer function model, *J. Atmos. Solar-Terr. Phys.*, 104, 7-17, doi:[10.1016/j.jastp.2013.08.001](https://doi.org/10.1016/j.jastp.2013.08.001), 2013.
1266. Mbatha, N., V. Sivakumar, H. Bencherif, and S. Malinga, Extracting gravity wave parameters during the September 2002 Southern Hemisphere major sudden stratospheric warming using a SANAE imaging riometer, *Ann. Geophys.*, 31, 10, doi:[10.5194/angeo-31-1709-2013](https://doi.org/10.5194/angeo-31-1709-2013), 2013.
1267. McHugh, M. J., L. L. Gordley, B. T. Marshall, D. C. Fritts, W. F. J. Evans, and C. S. Fish, “The Doppler Wind and Temperature Sounder (DWTS): enabling next-generation weather and

- space weather forecasts”, *Proc. SPIE 8739, Sensors and Systems for Space Applications VI*, 87390U, Baltimore, 21 May 2013, doi:[10.1117/12.2018045](https://doi.org/10.1117/12.2018045), 2013.
1268. McNamara, L. F., R. G. Caton, R. T. Parris, T. R. Pedersen, D. C. Thompson, K. C. Wiens, and K. M. Groves, Signatures of equatorial plasma bubbles in VHF satellite scintillations and equatorial ionograms, *Radio Sci.*, 48, 2, 89-101, doi:[10.1002/rds.20025](https://doi.org/10.1002/rds.20025), 2013.
1269. Meek, C. E., A. H. Manson, W. K. Hocking, and J. R. Drummond, Eureka, 80° N, SKiYMET meteor radar temperatures compared with Aura MLS values, *Ann. Geophys.*, 31, 7, doi:[10.5194/angeo-31-1267-2013](https://doi.org/10.5194/angeo-31-1267-2013), 2013.
1270. Mertens, C. J., X. Xu, D. Bilitza, M. G. Mlynczak, and J. M. Russell III, Empirical STORM-E Model: II. Geomagnetic Corrections to Nighttime Ionospheric E-Region Electron Densities, *Adv. Space Res.*, 51(4), 575-598, doi:[10.1016/j.asr.2012.09.014](https://doi.org/10.1016/j.asr.2012.09.014), 2013.
1271. Mertens, C. J., X. Xu, D. Bilitza, M. G. Mlynczak, and J. M. Russell III, Empirical STORM-E Model: I. Theoretical and Observational Basis, *Adv. Space Res.*, 51(4), 554-574, doi:[10.1016/j.asr.2012.09.009](https://doi.org/10.1016/j.asr.2012.09.009), 2013.
1272. Mlynczak, M. G., L. A. Hunt, B. T. Marshall, C. J. Mertens, J. M. Russell III, D. Siskind, R. E. Thompson, and L. L. Gordley, Radiative constraints on the minimum atomic oxygen concentration in the mesopause region, *Geophys. Res. Lett.*, 40, 14, doi:[10.1002/grl.50725](https://doi.org/10.1002/grl.50725), 2013.
1273. Mlynczak, M. G., L. A. Hunt, J. C. Mast, B. T. Marshall, J. M. Russell III, A. K. Smith, D. E. Siskind, J.-H. Yee, C. J. Mertens, F. J. Martin-Torres, R. E. Thompson, D. P. Drob, and L. L. Gordley, Atomic oxygen in the mesosphere and lower thermosphere derived from SABER: Algorithm theoretical basis and measurement uncertainty, *J. Geophys. Res. Atmos.*, 118, 5724-5735, doi:[10.1002/jgrd.50401](https://doi.org/10.1002/jgrd.50401), 2013.
1274. Mlynczak, M. G., L. H. Hunt, C. J. Mertens, B. T. Marshall, J. M. Russell III, M. López-Puertas, A. K. Smith, D. E. Siskind, J. C. Mast, R. E. Thompson, and L. L. Gordley, Radiative and energetic constraints on the global annual mean atomic oxygen concentration in the mesopause region, *J. Geophys. Res. Atmos.*, 118, 5796-5802, doi:[10.1002/jgrd.50400](https://doi.org/10.1002/jgrd.50400), 2013.
1275. Moffat-Griffin, T., M. J. Jarvis, S. R. Colwell, A. J. Kavanagh, G. L. Manney, and W. H. Daffer, Seasonal variations in lower stratospheric gravity wave energy above the Falkland Islands, *J. Geophys. Res. Atmos.*, 118, 19, doi:[10.1002/jgrd.50859](https://doi.org/10.1002/jgrd.50859), 2013.
1276. Moudden, Y., and J. M. Forbes, A decade-long climatology of terdiurnal tides using TIMED/SABER observations, *J. Geophys. Res. Space Physics*, 118, 7, doi:[10.1002/jgra.50273](https://doi.org/10.1002/jgra.50273), 2013.
1277. Mukhtarov, P., B. Andonov, and D. Pancheva, Global empirical model of TEC response to geomagnetic activity, *J. Geophys. Res. Space Physics*, 118, 6666-6685, doi:[10.1002/jgra.50576](https://doi.org/10.1002/jgra.50576), 2013.
1278. Mukhtarov, P., D. Pancheva, B. Andonov, and L. Pashova, Global TEC maps based on GNSS data: 1. Empirical background TEC model, *J. Geophys. Res. Space Physics*, 118(7), 4594-4608, doi:[10.1002/jgra.50413](https://doi.org/10.1002/jgra.50413), 2013.
1279. Murakami, G., I. Yoshikawa, K. Yoshioka, A. Yamazaki, M. Kagitani, M. Taguchi, M. Kikuchi, S. Kameda, and M. Nakamura, Plasmaspheric filament: an isolated magnetic flux tube filled with dense plasmas, *Geophys. Res. Lett.*, 40(2), 250-254, doi:[10.1002/grl.50124](https://doi.org/10.1002/grl.50124), 2013.
1280. Newnham, D. A., P. J. Espy, M. A. Clilverd, C. J. Rodger, A. Seppälä, D. J. Maxfield, P. Hartogh, C. Straub, K. Holmén, and R. B. Horne, Observations of nitric oxide in the Antarctic middle atmosphere during recurrent geomagnetic storms, *J. Geophys. Res. Space Physics*, 118, 12, 2013JA019056, doi:[10.1002/2013JA019056](https://doi.org/10.1002/2013JA019056), 2013.

1281. Nguyen, V. A., and S. E. Palo, Technique to produce daily estimates of the migrating diurnal tide using TIMED/SABER and EOS Aura/MLS, *J. Atmos. Solar-Terr. Phys.*, 105-106, doi:[10.1016/j.jastp.2013.07.008](https://doi.org/10.1016/j.jastp.2013.07.008), 2013.
1282. Nogueira, P. A. B., M. A. Abdu, J. R. Souza, I. S. Batista, G. J. Bailey, A. M. Santos, and H. Takahashi, 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, *J. Atmos. Solar-Terr. Phys.*, 104, 45-54, doi:[10.1016/j.jastp.2013.08.013](https://doi.org/10.1016/j.jastp.2013.08.013), 2013.
1283. Oberheide, J., M. G. Mlynczak, C. N. Mosso, B. M. Schroeder, B. Funke, and A. Maute, Impact of tropospheric tides on the nitric oxide 5.3 μm infrared cooling of the low-latitude thermosphere during solar minimum conditions, *J. Geophys. Res. Space Physics*, 118, 11, doi:[10.1002/2013JA019278](https://doi.org/10.1002/2013JA019278), 2013.
1284. Olson, M. E., B. G. Fejer, C. Stolle, H. Lühr, and J. L. Chau, Equatorial ionospheric electrodynamic perturbations during Southern Hemisphere stratospheric warming events, *J. Geophys. Res. Space Physics*, 118, 3, doi:[10.1002/jgra.50142](https://doi.org/10.1002/jgra.50142), 2013.
1285. Onohara, A. N., I. S. Batista, and H. Takahashi, The ultra-fast Kelvin waves in the equatorial ionosphere: observations and modeling, *Ann. Geophys.*, 31, 2, doi:[10.5194/angeo-31-209-2013](https://doi.org/10.5194/angeo-31-209-2013), 2013.
1286. Pacheco, E. E., and E. Yizengaw, The day-to-day longitudinal variability of the global ionospheric density distribution at low latitudes during low solar activity, *J. Geophys. Res. Space Physics*, 118, 4, 1813-1823, doi:[10.1002/jgra.50241](https://doi.org/10.1002/jgra.50241), 2013.
1287. Päivärinta, S.-M., A. Seppälä, M. E. Andersson, P. T. Verronen, L. Thölix, and E. Kyrölä, Observed effects of solar proton events and sudden stratospheric warmings on odd nitrogen and ozone in the polar middle atmosphere, *J. Geophys. Res. Atmos.*, 118, 12, doi:[10.1002/jgrd.50486](https://doi.org/10.1002/jgrd.50486), 2013.
1288. Pancheva, D., P. Mukhtarov, and A. K. Smith, Climatology of the migrating terdiurnal tide (TW3) in SABER/TIMED temperatures, *J. Geophys. Res. Space Physics*, 118, 1755-1767, doi:[10.1002/jgra.50207](https://doi.org/10.1002/jgra.50207), 2013.
1289. Parihar, N., A. Taori, S. Gurubaran, and G. K. Mukherjee, Simultaneous measurement of OI 557.7 nm, O₂ (0, 1) Atmospheric Band and OH (6, 2) Meinel Band nightglow at Kolhapur (17° N), India, *Ann. Geophys.*, 31, 2, doi:[10.5194/angeo-31-197-2013](https://doi.org/10.5194/angeo-31-197-2013), 2013.
1290. Park, J., M. Noja, C. Stolle, and H. Lühr, The Ionospheric Bubble Index deduced from magnetic field and plasma observations onboard Swarm, *Earth Planets Space*, 65, 11, 1333-1344, doi:[10.5047/eps.2013.08.005](https://doi.org/10.5047/eps.2013.08.005), 2013.
1291. Paulino, A. R., P. P. Batista, and I. S. Batista, A global view of the atmospheric lunar semidiurnal tide, *J. Geophys. Res. Atmos.*, 118, 23, doi:[10.1002/2013JD019818](https://doi.org/10.1002/2013JD019818), 2013.
1292. Perminov, V. I., and N. N. Pertsev, The behavior of emissions and temperature of the mesopause during stratospheric warmings according to observations at midlatitudes, *Geomagn. Aeron.*, 53, 6, doi:[10.1134/S0016793213060108](https://doi.org/10.1134/S0016793213060108), 2013.
1293. Peterson, W. K., D. A. Brain, D. L. Mitchell, S. M. Bailey, and P. C. Chamberlin, Correlations between variations in solar EUV and soft X-ray irradiance and photoelectron energy spectra observed on Mars and Earth, *J. Geophys. Res. Space Physics*, 118(11), 7338-7347, doi:[10.1002/2013JA019251](https://doi.org/10.1002/2013JA019251), 2013.
1294. Picone, J. M., R. R. Meier, and J. T. Emmert, Theoretical tools for studies of low-frequency thermospheric variability, *J. Geophys. Res. Space Physics*, 118, 9, 5853-5873, doi:[10.1002/jgra.50472](https://doi.org/10.1002/jgra.50472), 2013.
1295. Pilinski, M. D., and B. M. Argrow, Aerodynamic Analysis Based on Challenging Minisatellite Payload Satellite Lift-to-Drag Measurements, *J. Spacecr. Rockets*, 50, 6, 1162-1170, doi:[10.2514/1.A32394](https://doi.org/10.2514/1.A32394), 2013.

1296. Pilinski, M. D., B. M. Argrow, S. E. Palo, and B. R. Bowman, Semi-Empirical Satellite Accommodation Model for Spherical and Randomly Tumbling Objects, *J. Spacecr. Rockets*, 50, 3, 556-571, doi:[10.2514/1.A32348](https://doi.org/10.2514/1.A32348), 2013.
1297. Poppe, A. R., J. S. Halekas, R. Samad, M Sarantos, and G. T. Delory, Model-based constraints on the lunar exosphere derived from ARTEMIS pickup ion observations in the terrestrial magnetotail, *J. Geophys. Res. Planets*, 118(5), 1135-1147, doi:[10.1002/jgre.20090](https://doi.org/10.1002/jgre.20090), 2013.
1298. Prikryl, P., Y. Zhang, Y. Ebihara, R. Ghoddousi-Fard, P. T. Jayachandran, J. Kinrade, C. N. Mitchell, A. T. Weatherwax, G. Bust, P. J Cilliers, L. Spogli, L. Alfonsi, V. Romano, B. Ning, G. Li, M. J. Jarvis, D. W. Danskin, E. Spanswick, E. Donovan, and M. Terkildsen, An interhemispheric comparison of GPS phase scintillation with auroral emission observed at the South Pole and from the DMSP satellite, *Ann. Geophys.*, 56, doi:[10.4401/ag-6227](https://doi.org/10.4401/ag-6227), 2013.
1299. Qian, L., A. G. Burns, S. C. Solomon, and W. Wang, Annual/semiannual variation of the ionosphere, *Geophys. Res. Lett.*, 40, 10, 1928-1933, doi:[10.1002/grl.50448](https://doi.org/10.1002/grl.50448), 2013.
1300. Qingsheng, X., Optical System Design of a Spaceborne Broadband Far Ultraviolet Hyperspectral Imager, *Acta Optica Sinica*, 2013-03, 2013.
1301. Ralpoe, N., C. von Savigny, M. Weber, A. V. Rozanov, H. Bovensmann, and J. P. Burrows, Error budget analysis of SCIAMACHY limb ozone profile retrievals using the SCIATRAN model, *Atmospheric Measurement Techniques*, 6, 10, doi:[10.5194/amt-6-2825-2013](https://doi.org/10.5194/amt-6-2825-2013), 2013.
1302. Ramesh, K., S. Sridharan, and S. V. B. Rao, Dominance of chemical heating over dynamics in causing a few large mesospheric inversion layer events during January-February 2011, *J. Geophys. Res. Space Physics*, 118, 6751-6765, doi:[10.1002/jgra.50601](https://doi.org/10.1002/jgra.50601), 2013.
1303. Ramesh, K., S. Sridharan, K. Raghunath, S. V. B. Rao, and Y. B. Kumar, Planetary wave-gravity wave interactions during mesospheric inversion layer events, *J. Geophys. Res. Space Physics*, 118(7), 4503-4515, doi:[10.1002/jgra.50379](https://doi.org/10.1002/jgra.50379), 2013.
1304. Ratnam, M. V., P. Kishore, and I. Velicogna, Global distribution of pauses observed with satellite measurements, *J. Earth Syst. Sci.*, 122, 2, doi:[10.1007/s12040-013-0278-y](https://doi.org/10.1007/s12040-013-0278-y), 2013.
1305. Raulin, J. P., G. Trottet, M. Kretzschmar, E. L. Macotela, A. Pacini, F. C. Bertoni, and I. E. Dammasch, Response of the low ionosphere to X-ray and Lyman- α solar flare emissions, *J. Geophys. Res. Space Physics*, 118(1), 570-575, doi:[10.1029/2012JA017916](https://doi.org/10.1029/2012JA017916), 2013.
1306. Riggini, D. M., and R. S. Lieberman, Variability of the diurnal tide in the equatorial MLT, *J. Atmos. Solar-Terr. Phys.*, 102, 198-206, doi:[10.1016/j.jastp.2013.05.011](https://doi.org/10.1016/j.jastp.2013.05.011), 2013.
1307. Sakazaki, T., M. Fujiwara, and X. Zhang, Interpretation of the vertical structure and seasonal variation of the diurnal migrating tide from the troposphere to the lower mesosphere, *J. Atmos. Solar-Terr. Phys.*, 105-106, 66-80, doi:[10.1016/j.jastp.2013.07.010](https://doi.org/10.1016/j.jastp.2013.07.010), 2013.
1308. Sassi, F., H.-L. Liu, J. Ma, and R. R. Garcia, The lower thermosphere during the northern hemisphere winter of 2009: A modeling study using high-altitude data assimilation products in WACCM-X, *J. Geophys. Res. Atmos.*, 118, 16, 8954-8968, doi:[10.1002/jgrd.50632](https://doi.org/10.1002/jgrd.50632), 2013.
1309. Scheiben, D., A. Schanz, B. Tschanz, and N. Kämpfer, Diurnal variations in middle-atmospheric water vapor by ground-based microwave radiometry, *Atmos. Chem. Phys.*, 13, 14, doi:[10.5194/acp-13-6877-2013](https://doi.org/10.5194/acp-13-6877-2013), 2013.
1310. Schmidt, C., K. Höppner, and M. Bittner, A ground-based spectrometer equipped with an InGaAs array for routine observations of OH(3-1) rotational temperatures in the mesopause region, *J. Atmos. Solar-Terr. Phys.*, 102, 125-139, doi:[10.1016/j.jastp.2013.05.001](https://doi.org/10.1016/j.jastp.2013.05.001), 2013.
1311. Shapiro, A. V., E. V. Rozanov, A. I. Shapiro, T. A. Egorova, J. Harder, M. Weber, A. K. Smith, W. Schmutz, and T. Peter, The role of the solar irradiance variability in the evolution of the middle atmosphere during 2004-2009, *J. Geophys. Res. Atmos.*, 118, 9, doi:[10.1002/jgrd.50208](https://doi.org/10.1002/jgrd.50208), 2013.
1312. Sheese, P. E., K. Strong, R. L. Gattinger, E. J. Llewellyn, J. Urban, C. D. Boone, and A. K. Smith, Odin observations of Antarctic nighttime NO densities in the mesosphere-lower

- thermosphere and observations of a lower NO layer, *J. Geophys. Res. Atmos.*, 118, 13, doi:[10.1002/jgrd.50563](https://doi.org/10.1002/jgrd.50563), 2013.
1313. Shi, Y., K.-F. Li, Y. L. Yung, H. H. Aumann, Z. Shi, and T. Y. Hou, A decadal microwave record of tropical air temperature from AMSU-A/aqua observations, *Climate Dynamics*, 41, 5-6, doi:[10.1007/s00382-013-1696-x](https://doi.org/10.1007/s00382-013-1696-x), 2013.
1314. Silber, I., C. Price, C. J. Rodger, and C. Haldoupis, Links between mesopause temperatures and ground-based VLF narrowband radio signals, *J. Geophys. Res. Atmos.*, 118, 10, doi:[10.1002/jgrd.50379](https://doi.org/10.1002/jgrd.50379), 2013.
1315. Simi, K. G., G. Manju, M. K. M. Haridas, S. R. P. Nayar, T. K. Pant, and S. Alex, Ionospheric response to a geomagnetic storm during November 8-10, 2004, *Earth Planets Space*, 65, 4, 343-350, doi:[10.5047/eps.2012.09.005](https://doi.org/10.5047/eps.2012.09.005), 2013.
1316. Siskind, D. E., M. H. Stevens, C. R. Englert, and M. G. Mlynczak, Comparison of a photochemical model with observations of mesospheric hydroxyl and ozone, *J. Geophys. Res.*, 118, 195-207, doi:[10.1029/2012JD017971](https://doi.org/10.1029/2012JD017971), 2013.
1317. Siskind, D. E., M. H. Stevens, M. E. Hervig, and C. E. Randall, Recent observations of high mass density polar mesospheric clouds: A link to space traffic?, *Geophys. Res. Lett.*, 40, 11, doi:[10.1002/grl.50540](https://doi.org/10.1002/grl.50540), 2013.
1318. Sivla, W. T., O. Olakunle, and I. Ochala, Thermosphere wind variation during a magnetically quiet period, *Adv. Appl. Sci. Res.*, 4(2), 169-175, 2013.
1319. Smith, A. K., V. L. Harvey, M. G. Mlynczak, B. Funke, M. García-Comas, M. Hervig, M. Kaufmann, E. Kyrölä, M. López-Puertas, I. McDade, C. E. Randall, J. M. Russell III, P. E. Sheese, M. Shiotani, W. R. Skinner, M. Suzuki, and K. A. Walker, Satellite observations of ozone in the upper mesosphere, *J. Geophys. Res. Atmos.*, 118, 5803-5821, doi:[10.1002/jgrd.50445](https://doi.org/10.1002/jgrd.50445), 2013.
1320. Smith, S. M., S. L. Vadas, W. J. Baggaley, G. Hernandez, and J. Baumgardner, Gravity wave coupling between the mesosphere and thermosphere over New Zealand, *J. Geophys. Res. Space Physics*, 118, 2694-2707, doi:[10.1002/jgra.50263](https://doi.org/10.1002/jgra.50263), 2013.
1321. Solomon, S. C., L. Qian, and A. G. Burns, The anomalous ionosphere between solar cycles 23 and 24, *J. Geophys. Res. Space Physics*, 118, 10, 6524-6535, doi:[10.1002/jgra.50561](https://doi.org/10.1002/jgra.50561), 2013.
1322. Sonkaew, T., C. von Savigny, K.-U. Eichmann, M. Weber, A. Rozanov, H. Bovensmann, J. P. Burrows, and J.-U. Groöf, Chemical ozone losses in Arctic and Antarctic polar winter/spring season derived from SCIAMACHY limb measurements 2002-2009, *Atmos. Chem. Phys.*, 13, 4, doi:[10.5194/acp-13-1809-2013](https://doi.org/10.5194/acp-13-1809-2013), 2013.
1323. Sotirelis, T., H. Korth, S.-Y. Hsieh, Y. Zhang, D. Morrison, and L. J. Paxton, Empirical relationship between electron precipitation and far-ultraviolet auroral emissions from DMSP observations, *J. Geophys. Res. Space Physics*, 118, 3, 1203-1209, doi:[10.1002/jgra.50157](https://doi.org/10.1002/jgra.50157), 2013.
1324. Stähli, O., A. Murk, N. Kämpfer, C. Mätzler, and P. Eriksson, Microwave radiometer to retrieve temperature profiles from the surface to the stratopause, *Atmospheric Measurement Techniques*, 6, 9, doi:[10.5194/amt-6-2477-2013](https://doi.org/10.5194/amt-6-2477-2013), 2013.
1325. Studer, S., K. Hocke, M. Pastel, S. Godin-Beekmann, and N. Kämpfer, Intercomparison of stratospheric ozone profiles for the assessment of the upgraded GROMOS radiometer at Bern, *Atmospheric Measurement Techniques Discussions*, 6, 4, doi:[10.5194/amtd-6-6097-2013](https://doi.org/10.5194/amtd-6-6097-2013), 2013.
1326. Sun, Y.-Y., T. Matsuo, E. A. Araujo-Pradere, and J.-Y. Liu, Ground-based GPS observation of SED-associated irregularities over CONUS, *J. Geophys. Res. Space Physics*, 118, 5, 2478-2489, doi:[10.1029/2012JA018103](https://doi.org/10.1029/2012JA018103), 2013.

1327. Sunda, S., B. M. Vyas, and P. V. Khekale, Storm time spatial variations in TEC during moderate geomagnetic storms in extremely low solar activity conditions (2007-2009) over Indian region, *Adv. Space Res.*, 52, 1, 158-176, doi:[10.1016/j.asr.2013.03.006](https://doi.org/10.1016/j.asr.2013.03.006), 2013.
1328. Suzuki, S., K. Shiokawa, Y. Otsuka, S. Kawamura, and Y. Murayama, Evidence of gravity wave ducting in the mesopause region from airglow network observations, *Geophys. Res. Lett.*, 40, 601-605, doi:[10.1029/2012GL054605](https://doi.org/10.1029/2012GL054605), 2013.
1329. Talaat, E. R., J.-H. Yee, S.-Y. Hsieh, L. J. Paxton, R. DeMajistre, A. B. Christensen, and D. Bilitza, The quiet nighttime low-latitude ionosphere as observed by TIMED/GUVI, *Adv. Space Res.*, 51(4), 661-676, doi:[10.1016/j.asr.2012.11.012](https://doi.org/10.1016/j.asr.2012.11.012), 2013.
1330. Wang, J., Y. Tang, Z.-G. Zhang, X.-L. Zheng, and G.-Q., Ni, Retrieving ionospheric electron density profile from FUV spectral remote sensing measurements, *Chinese Journal of Geophysics*, 54(4), 1077-1083, doi:[10.6038/cjg20130403](https://doi.org/10.6038/cjg20130403), 2013.
1331. Tétard, C., D. Fussen, F. Vanhellemont, C. Bingen, E. Dekemper, N. Mateshvili, D. Pieroux, C. Robert, E. Kyrölä, J. Tamminen, V. Sofieva, A. Hauchecorne, F. Dalaudier, J.-L. Bertaux, O. F. d'Andon, G. Barrot, L. Blanot, A. Dehn, and L. S. de Miguel, A global climatology of stratospheric OClO derived from GOMOS measurement, *Atmospheric Measurement Techniques Discussions*, 6, 2, doi:[10.5194/amtd-6-3511-2013](https://doi.org/10.5194/amtd-6-3511-2013), 2013.
1332. Thurairajah, B., S. M. Bailey, K. Nielsen, C. E. Randall, J. D. Lumpe, M. J. Taylor, and J. M. Russell III, Morphology of polar mesospheric clouds as seen from space, *J. Atmos. Solar-Terr. Phys.*, 104, 234-243, doi:[10.1016/j.jastp.2012.09.009](https://doi.org/10.1016/j.jastp.2012.09.009), 2013.
1333. Timofeev, Y. M., and E. M. Shul-gina, Russian investigations in the field of atmospheric radiation in 2007-2010, *Izvestiya, Atmospheric and Oceanic Physics*, 49, 16-32, doi:[10.1134/S000143381301009X](https://doi.org/10.1134/S000143381301009X), 2013.
1334. Tweedy, O. V., V. Limpasuvan, Y. J. Orsolini, A. K. Smith, R. R. Garcia, D. Kinnison, C. E. Randall, O.-K. Kvissel, F. Stordal, V. L. Harvey, and A. Chandran, Nighttime secondary ozone layer during major stratospheric sudden warmings in specified-dynamics WACCM, *J. Geophys. Res. Atmos.*, 118, 8346-8358, doi:[10.1002/jgrd.50651](https://doi.org/10.1002/jgrd.50651), 2013.
1335. Ugolnikov, O. S., and I. A. Maslov, Summer mesosphere temperature distribution from wide-angle polarization measurements of the twilight sky, *J. Atmos. Solar-Terr. Phys.*, 105-106, 8-14, doi:[10.1016/j.jastp.2013.07.002](https://doi.org/10.1016/j.jastp.2013.07.002), 2013.
1336. Väänänen, R., E.-M. Kyrö, T. Nieminen, N. Kivekäs, H. Junninen, A. Virkkula, M. D. Maso, H. Lihavainen, Y. Viisanen, B. Svenningsson, T. Holst, A. Arneth, P. P. Aalto, M. Kulmala, and V.-M. Kerminen, Analysis of particle size distribution changes between three measurement sites in northern Scandinavia, *Atmos. Chem. Phys.*, 13, 23, doi:[10.5194/acp-13-11887-2013](https://doi.org/10.5194/acp-13-11887-2013), 2013.
1337. Verkhoglyadova, O. P., B. T. Tsurutani, A. J. Mannucci, M. G. Mlynczak, L. A. Hunt, and T. Runge, Variability of ionospheric TEC during the Solar and Geomagnetic Minima (2008 and 2009): External High Speed Streams Drivers. *Ann. Geophys.*, 31, 263-276, doi:[10.5194/angeo-31-263-2013](https://doi.org/10.5194/angeo-31-263-2013), 2013.
1338. Vigren, E., M. Galand, R. V. Yelle, J. Cui, J.-E. Wahlund, K. Ågren, P. P. Lavvas, I. C. F. Mueller-Wodarg, D. F. Strobel, V. Vuitton, and A. Bazin, On the thermal electron balance in Titan's sunlit upper atmosphere, *Icarus*, 223(1), 234-251, doi:[10.1016/j.icarus.2012.12.010](https://doi.org/10.1016/j.icarus.2012.12.010), 2013.
1339. Vincent, R. A., M. J. Alexander, B. K. Dolman, A. D. MacKinnon, P. T. May, S. Kovalam, and I. M. Reid, Gravity wave generation by convection and momentum deposition in the mesosphere-lower thermosphere, *J. Geophys. Res. Atmos.*, 118, 6233-6245, doi:[10.1002/jgrd.50372](https://doi.org/10.1002/jgrd.50372), 2013.
1340. Vorobjev, V. G., O. I. Yagodkina, and Y. V. Katkalov, Auroral Precipitation Model and its applications to ionospheric and magnetospheric studies, *J. Atmos. Solar-Terr. Phys.*, 102, 157-171, doi:[10.1016/j.jastp.2013.05.007](https://doi.org/10.1016/j.jastp.2013.05.007), 2013.

1341. Waldrop, L. S., and L. J. Paxton, Lyman α airglow emission: Implications for atomic hydrogen geocorona variability with solar cycle, *J. Geophys. Res. Space Physics*, *118*, 9, 5874-5890, doi:[10.1002/jgra.50496](https://doi.org/10.1002/jgra.50496), 2013.
1342. Wang, L., and C.-Z. Zou, Intercomparison of SSU temperature data records with Lidar, GPS RO, and MLS observations, *J. Geophys. Res. Atmos.*, *118*, 4, 1747-1759, doi:[10.1002/jgrd.50162](https://doi.org/10.1002/jgrd.50162), 2013.
1343. Wendt, V., S. Wüst, M. G. Mlynczak, J. M. Russell III, J.-H. Yee, and M. Bittner, Impact of atmospheric variability on validation of satellite-based temperature measurements, *J. Atmos. Solar-Terr. Phys.*, *102*, 252-260, doi:[10.1016/j.jastp.2013.05.022](https://doi.org/10.1016/j.jastp.2013.05.022), 2013.
1344. Wilms, H., M. Rapp, P. Hoffmann, J. Fiedler, and G. Baumgarten, Gravity wave influence on NLC: experimental results from ALOMAR, 69° N, *Atmos. Chem. Phys.*, *13*, 23, doi:[10.5194/acp-13-11951-2013](https://doi.org/10.5194/acp-13-11951-2013), 2013.
1345. Wright, C. J., and J. C. Gille, Detecting overlapping gravity waves using the S-Transform, *Geophys. Res. Lett.*, *40*, 9, doi:[10.1002/grl.50378](https://doi.org/10.1002/grl.50378), 2013.
1346. Wright, C. J., S. M. Osprey, and J. C. Gille, Global observations of gravity wave intermittency and its impact on the observed momentum flux morphology, *J. Geophys. Res. Atmos.*, *118*, 19, 10,980-10,993, doi:[10.1002/jgrd.50869](https://doi.org/10.1002/jgrd.50869), 2013.
1347. Xiao, C. Y., X. Hu, A. K. Smith, Q. Xu, and X. Chen, Short-term variability and summer-2009 averages of the mean wind and tides in the mesosphere and lower thermosphere over Langfang, China (39.4°N, 116.7°E), *J. Atmos. Solar-Terr. Phys.*, *92*, 65-77, doi:[10.1016/j.jastp.2012.10.006](https://doi.org/10.1016/j.jastp.2012.10.006), 2013.
1348. Xiao, Z., S. Yu, H. Shi, and Y. Hao, A brief of recent research progress on ionospheric disturbances, *Science China Information Sciences*, *56*, 12, doi:[10.1007/s11432-013-5042-z](https://doi.org/10.1007/s11432-013-5042-z), 2013.
1349. Xiong, C., and H. Lüher, Nonmigrating tidal signatures in the magnitude and the inter-hemispheric asymmetry of the equatorial ionization anomaly, *Ann. Geophys.*, *31*, 6, 1115-1130, doi:[10.5194/angeo-31-1115-2013](https://doi.org/10.5194/angeo-31-1115-2013), 2013.
1350. Yamashita, C., S. England, S. L., T. J. Immel, and L. C. Chang, Gravity wave variations during elevated stratopause events using SABER observations, *J. Geophys. Res. Atmos.*, *118*, 11, doi:[10.1002/jgrd.50474](https://doi.org/10.1002/jgrd.50474), 2013.
1351. Yizengaw, E., P. Doherty, and T. Fuller-Rowell, Is Space Weather Different Over Africa, and If So, Why? An AGU Chapman Conference Report, *Space Weather*, *11*, 7, 389-391, doi:[10.1002/swe.20063](https://doi.org/10.1002/swe.20063), 2013.
1352. Yu, Y., W. Wan, B. Ning, L. Liu, Z. Wang, L. Hu, and Z. Ren, Tidal wind mapping from observations of a meteor radar chain in December 2011, *J. Geophys. Res. Space Physics*, *118*, 5, 2321-2332, doi:[10.1029/2012JA017976](https://doi.org/10.1029/2012JA017976), 2013.
1353. Yue, J., H.-L. Liu, R. R. Meier, L. Chang, and S.-Y. Gu, and J. M. Russell III, On the fast zonal transport of the STS-121 space shuttle exhaust plume in the lower thermosphere, *J. Atmos. Solar-Terr. Phys.*, *94*, 19-27, doi:[10.1016/j.jastp.2012.12.017](https://doi.org/10.1016/j.jastp.2012.12.017), 2013.
1354. Yue, J., J. Xu, L. C. Chang, Q. Wu, H.-L. Liu, X. Lu, and J. M. Russell III, Global structure and seasonal variability of the migrating terdiurnal tide in the mesosphere and lower thermosphere, *J. Atmos. Solar-Terr. Phys.*, *105-106*, 191-198, doi:[10.1016/j.jastp.2013.10.010](https://doi.org/10.1016/j.jastp.2013.10.010), 2013.
1355. Yue, X., W. S. Schreiner, Y.-H. Kuo, Q. Wu, Y. Deng, and W. Wang, GNSS radio occultation (RO) derived electron density quality in high latitude and polar region: NCAR-TIEGCM simulation and real data evaluation, *J. Atmos. Solar-Terr. Phys.*, *98*, 39-49, doi:[10.1016/j.jastp.2013.03.009](https://doi.org/10.1016/j.jastp.2013.03.009), 2013.
1356. Zhang, J. T., and J. M. Forbes, Lunar tidal winds between 80 and 110 km from UARS/HRDI wind measurements, *J. Geophys. Res. Space Physics*, *118*, 8, doi:[10.1002/jgra.50420](https://doi.org/10.1002/jgra.50420), 2013.

1357. Zhang, S.-R., and J. M. Holt, Long-term ionospheric cooling: Dependency on local time, season, solar activity, and geomagnetic activity, *J. Geophys. Res. Space Physics*, 118, 6, 3719-3730, doi:[10.1002/jgra.50306](https://doi.org/10.1002/jgra.50306), 2013.
1358. Zhang, S.-R., Z. Chen, A. J. Coster, P. J. Erickson, and J. C. Foster, Ionospheric symmetry caused by geomagnetic declination over North America, *Geophys. Res. Lett.*, 40, 20, 5350-5354, doi:[10.1002/2013GL057933](https://doi.org/10.1002/2013GL057933), 2013.
1359. Zhang, Y., L. J. Paxton, and H. Kil, Multi-periodic auroral and thermospheric variations in 2006, *Terr. Atmos. Ocean. Sci.*, 24, 207-212, doi:[10.3319/TAO.2012.09.20.01\(SEC\)](https://doi.org/10.3319/TAO.2012.09.20.01(SEC)), 2013.
1360. Zhang, Y., L. J. Paxton, and H. Kil, Nightside midlatitude ionospheric arcs: TIMED/GUVI observations, *J. Geophys. Res. Space Physics*, 118, 6, 3584-3591, doi:[10.1002/jgra.50327](https://doi.org/10.1002/jgra.50327), 2013.
1361. Zhao, B., M. Wang, Y. Wang, Z. Ren, X. Yue, J. Zhu, W. Wan, B. Ning, J. Liu, and B. Xiong, East-west differences in *F*-region electron density at midlatitude: Evidence from the Far East region, *J. Geophys. Res. Space Physics*, 118, 1, 542-553, doi:[10.1029/2012JA018235](https://doi.org/10.1029/2012JA018235), 2013.
1362. Zheng, L., S. Y. Fu, Q.-G. Zong, G. Parks, C. Wang, and X. Chen, Solar cycle dependence of the seasonal variation of auroral hemispheric power, *Chin. Sci. Bull.*, 58, 4-5, 525-530, doi:[10.1007/s11434-012-5378-6](https://doi.org/10.1007/s11434-012-5378-6), 2013.

2012

1363. Abdu, M. A., I. S. Batista, F. Bertoni, B. W. Reinisch, E. A. Kherani, and J. H. A. Sobral, Equatorial ionosphere responses to two magnetic storms of moderate intensity from conjugate point observations in Brazil, *J. Geophys. Res.*, 117, A05321, doi:[10.1029/2011JA017174](https://doi.org/10.1029/2011JA017174), 2012.
1364. Andersson, M. E., P. T. Verronen, S. Wang, C. J. Rodger, M. A. Clilverd, and B. R. Carson, Precipitating radiation belt electrons and enhancements of mesospheric hydroxyl during 2004–2009, *J. Geophys. Res. Atmos.*, 117(D9), doi:[10.1029/2011JD017246](https://doi.org/10.1029/2011JD017246), 2012.
1365. Assink, J. D., R. Waxler, and D. Drob, On the sensitivity of infrasonic traveltimes in the equatorial region to the atmospheric tides, *J. Geophys. Res.*, 117, D1, doi:[10.1029/2011JD016107](https://doi.org/10.1029/2011JD016107), 2012.
1366. Atanassov, A. M., SATI image processing and mesopause temperature determination, *Adv. Space Res.*, 50, 9, 1213-1219, doi:[10.1016/j.asr.2012.07.004](https://doi.org/10.1016/j.asr.2012.07.004), 2012.
1367. Babu, V. S., G. Ramkumar, and S. R. John, Seasonal variation of planetary wave momentum flux and the forcing towards mean flow acceleration in the MLT region, *J. Atmos. Solar-Terr. Phys.*, 78-79 Special, SI, 53-61, doi:[10.1016/j.jastp.2011.05.010](https://doi.org/10.1016/j.jastp.2011.05.010), 2012.
1368. Baishev, D. G., E. S. Barkova, and K. Yumoto, Optical observations of large-scale undulations in the 23rd cycle of solar activity, *Geomagn. Aeron.*, 52, 197-203, doi:[10.1134/S0016793212020028](https://doi.org/10.1134/S0016793212020028), 2012.
1369. Beig, G., S. Fadnavis, H. Schmidt, and G. P. Brasseur, Inter-comparison of 11-year solar cycle response in mesospheric ozone and temperature obtained by HALOE satellite data and HAMMONIA model, *J. Geophys. Res. Atmos.*, 117, D4, D00P10, doi:[10.1029/2011JD015697](https://doi.org/10.1029/2011JD015697), 2012.
1370. Bessarab, F. S., Y. N. Korenkov, M. V. Klimenko, V. V. Klimenko, I. V. Karpov, K. G. Ratovsky, and M. A. Chernigovskaya, Modeling the effect of sudden stratospheric warming within the thermosphere-ionosphere system, *J. Geophys. Res. Space Physics*, 90-91, 77-85, doi:[10.1016/j.jastp.2012.09.005](https://doi.org/10.1016/j.jastp.2012.09.005), 2012.
1371. Bhardwaj, A., and S. K. Jain, Production of N₂ Vegard–Kaplan and other triplet band emissions in the dayglow of Titan, *Icarus*, 218(2), 989-1005, doi:[10.1016/j.icarus.2012.01.019](https://doi.org/10.1016/j.icarus.2012.01.019), 2012.

1372. Bryans, P., and W. D. Pesnell, The Extreme-ultraviolet Emission from Sun-grazing Comets. *Astrophys. J.*, 760(1), 18, doi:[10.1088/0004-637X/760/1/18](https://doi.org/10.1088/0004-637X/760/1/18), 2012.
1373. Burns, A. G., S. C. Solomon, L. Qian, W. Wang, B. A. Emery, M. Wiltberger, and D. R. Weimer, The effects of Corotating interaction region/High speed stream storms on the thermosphere and ionosphere during the last solar minimum, *J. Atmos. Solar-Terr. Phys.*, 83, 79-87, doi:[10.1016/j.jastp.2012.02.006](https://doi.org/10.1016/j.jastp.2012.02.006), 2012.
1374. Burns, A. G., S. C. Solomon, W. Wang, L. Qian, Y. Zhang, and L. J. Paxton, Daytime climatology of ionospheric NmF2 and hmF2 from COSMIC data, *J. Geophys. Res.*, 117, 09315, doi:[10.1029/2012JA017529](https://doi.org/10.1029/2012JA017529), 2012.
1375. Cao, W.-X., S.-D. Zhang, F. Yi, and C.-M. Huang, Variation of the mesopause observed by SABER/TIMED satellite, *Chinese J Geophys-Ch*, 55(8), 2489-2497, doi:[10.6038/j.issn.0001-5733.2012.08.001](https://doi.org/10.6038/j.issn.0001-5733.2012.08.001), 2012.
1376. Castanheira, J. M., T. R. Peevey, C. A. F. Marques, and M. A. Olsen, Relationships between Brewer-Dobson circulation, double tropopauses, ozone and stratospheric water vapour, *Atmos. Chem. Phys.*, 12, 21, doi:[10.5194/acp-12-10195-2012](https://doi.org/10.5194/acp-12-10195-2012), 2012.
1377. Castle, K. J., L. A. Black, M. W. Simione, and J. A. Dodd, Vibrational relaxation of CO₂(v₂) by O(³P) in the 142-490 K temperature range, *J. Geophys. Res. Space Physics*, 117, A4, doi:[10.1029/2012JA017519](https://doi.org/10.1029/2012JA017519), 2012.
1378. Cessateur, G., J. Lilensten, M. Barthélémy, T. D. de Wit, C. S. Wedlund, G. Gronoff, H. Ménager, and M. Kretzschmar, Photoabsorption in Ganymede's atmosphere, *Icarus*, 218(1), 308-319, doi:[10.1016/j.icarus.2011.11.025](https://doi.org/10.1016/j.icarus.2011.11.025), 2012.
1379. Cessateur, G., J. Lilensten, T. D. de Wit, A. BenMoussa, and M. Kretzschmar, New observation strategies for the solar UV spectral irradiance, *J. Space Weather & Space Clim.*, 2, A16, doi:[10.1051/swsc/2012016](https://doi.org/10.1051/swsc/2012016), 2012.
1380. Chamberlin, P. C., R. O. Milligan, and T. N. Woods, Thermal evolution and radiative output of solar flares observed by the EUV variability experiment (EVE), *Sol. Phys.*, 279(1), 23-42, doi:[10.1007/s11207-012-9975-y](https://doi.org/10.1007/s11207-012-9975-y), 2012.
1381. Chandran, A., D. W. Rusch, G. E. Thomas, S. E. Palo, G. Baumgarten, E. J. Jensen, and A. W. Merkel, Atmospheric gravity wave effects on polar mesospheric clouds: A comparison of numerical simulations from CARMA 2D with AIM observations, *J. Geophys. Res.*, 117, D20104, doi:[10.1029/2012JD017794](https://doi.org/10.1029/2012JD017794), 2012.
1382. Chang, L. C., W. E. Ward, S. E. Palo, J. Du, D.-Y. Wang, H.-L. Liu, M. E. Hagan, Y. Portnyagin, J. Oberheide, L. P. Goncharenko, T. Nakamura, P. Hoffmann, W. Singer, P. Batista, B. Clemesha, A. H. Manson, D. M. Riggin, C.-Y. She, T. Tsuda, and T. Yuan, Comparison of diurnal tide in models and ground-based observations during the 2005 equinox CAWSES tidal campaign, *J. Atmos. Solar-Terr. Phys.*, 78-79, 19-30, doi:[10.1016/j.jastp.2010.12.010](https://doi.org/10.1016/j.jastp.2010.12.010), 2012.
1383. Chen, C. H., A. Saito, C. H. Lin, and J. Y. Liu, Long-term variations of the nighttime electron density enhancement during the ionospheric midlatitude summer, *J. Geophys. Res.*, 117, A07313, doi:[10.1029/2011JA017138](https://doi.org/10.1029/2011JA017138), 2012.
1384. Chen, X., X. Hu, and C. Xiao, Variability of MLT winds and waves over mid-latitude during the 2000/2001 and 2009/2010 winter stratospheric sudden warming, *Ann. Geophys.*, 30, 6, doi:[10.5194/angeo-30-991-2012](https://doi.org/10.5194/angeo-30-991-2012), 2012.
1385. Chen, Y., L. Liu, and W. Wan, The discrepancy in solar EUV-proxy correlations on solar cycle and solar rotation timescales and its manifestation in the ionosphere, *J. Geophys. Res. Space Physics*, 117(A3), doi:[10.1029/2011JA017224](https://doi.org/10.1029/2011JA017224), 2012.
1386. Chen, Y.-W., and S. Miyahara, Analysis of fast and ultrafast Kelvin waves simulated by the Kyushu-GCM, *J. Atmos. Solar-Terr. Phys.*, 80, 1-11, doi:[10.1016/j.jastp.2012.02.026](https://doi.org/10.1016/j.jastp.2012.02.026), 2012.

1387. Cho, Y.-M., and G. G. Shepherd, Propagation in longitude and altitude of wave 4 thermospheric perturbations from WINDII data at low and high latitudes, *J. Geophys. Res.*, 117, A10, doi:10.1029/2012JA018110, 2012.
1388. Choi, H.-J., H.-Y. Chun, J. Gong, and D. L. Wu, Comparison of gravity wave temperature variances from ray-based spectral parameterization of convective gravity wave drag with AIRS observations, *J. Geophys. Res.*, 117, D5, doi:10.1029/2011JD016900, 2012.
1389. Christensen, A. B., J.-H. Yee, R. L. Bishop, S. A. Budzien, J. H. Hecht, G. Sivjee, and A. W. Stephan, Observations of molecular oxygen Atmospheric band emission in the thermosphere using the near infrared spectrometer on the ISS/RAIDS experiment, *J. Geophys. Res. Space Physics*, 117, A4, doi:10.1029/2011JA016838, 2012.
1390. Das, S. S., K. K. Kumar, S. K. Das, C. Vineetha, T. K. Panta, and G. Ramkumara, Variability of mesopause temperature derived from two independent methods using meteor radar and its comparison with SABER and EOS MLS and a collocated multi-wavelength dayglow photometer over an equatorial station, Thumba (8.5° N, 76.5 ° E), *Int. J. Remote Sens.*, 33, 14, 4634-4647, doi:10.1080/01431161.2011.643461, 2012.
1391. David, C., A. Haeefe, P. Keckhut, M. Marchand, J. Jumelet, T. Leblanc, C. Cenac, C. Laqui, J. Porteneuve, M. Haeffelin, Y. Courcoux, M. Snels, M. Viterbini, and M. Quatrevalet, Evaluation of stratospheric ozone, temperature, and aerosol profiles from the LOANA lidar in Antarctica, *Polar Science*, 6, 209-225, doi:10.1016/j.polar.2012.07.001, 2012.
1392. Davis, R. N., Y.-W. Chen, S. Miyahara, and N. J. Mitchell, The climatology, propagation and excitation of ultra-fast Kelvin waves as observed by meteor radar, Aura MLS, TRMM and in the Kyushu-GCM, *Atmos. Chem. Phys.*, 12, 4, doi:10.5194/acp-12-1865-2012, 2012.
1393. Day, K. A., M. J. Taylor, and N. J. Mitchell, Mean winds, temperatures and the 16- and 5-day planetary waves in the mesosphere and lower thermosphere over Bear Lake Observatory (42° N, 111° W), *Atmos. Chem. Phys.*, 12, 3, doi:10.5194/acp-12-1571-2012, 2012.
1394. DeLand, M. T., and R. P. Cebula, Solar UV variations during the decline of Cycle 23, *J. Atmos. Solar-Terr. Phys.*, 77, 225-234, doi:10.1016/j.jastp.2012.01.007, 2012.
1395. Deng, Y., Y. Huang, S. C. Solomon, L. Qian, D. J. Knipp, D. R. Weimer, and J. Wang, Anomalously low geomagnetic energy inputs during 2008 solar minimum, *J. Geophys. Res. Space Physics*, 117, 09307, doi:10.1029/2012JA018039, 2012.
1396. Elansky, N. F., Russian studies of atmospheric ozone in 2007-2011, *Izvestiya, Atmospheric and Oceanic Physics*, 48, 3, doi:10.1134/S0001433812030024, 2012.
1397. Emmert, J. T., M. H. Stevens, P. F. Bernath, D. P. Drob, and C. D. Boone, Observations of increasing carbon dioxide concentration in Earth's thermosphere, *Nature Geoscience*, 5, 12, doi:10.1038/ngeo1626, 2012.
1398. Emslie, A. G., B. R. Dennis, A. Y. Shih, P. C. Chamberlin, R. A. Mewaldt, C. S. Moore, G. H. Share, A. Vourlidas, and B. T. Welsch, Global energetics of thirty-eight large solar eruptive events, *Astrophys. J.*, 759(1), 71, doi:10.1088/0004-637X/759/1/71, 2012.
1399. England, S. L., A Review of the Effects of Non-migrating Atmospheric Tides on the Earth's Low-Latitude Ionosphere, *Space Sci. Rev.*, 168, 211-238, doi:10.1007/s11214-011-9842-4, 2012.
1400. England, S. L., and T. J. Immel, An empirical model of the drift velocity of equatorial plasma depletions, *J. Geophys. Res.*, 117, A12308, doi:10.1029/2012JA018091, 2012.
1401. England, S. L., G. Liu, Q. Zhou, T. J. Immel, K. K. Kumar, and G. Ramkumar, On the signature of the quasi-3-day wave in the thermosphere during the January 2010 URSI World Day Campaign, *J. Geophys. Res.*, 117, A06304, doi:10.1029/2012JA017558, 2012.
1402. Ercha, A., A. J. Ridley, D. Zhang, and Z. Xiao, Analyzing the hemispheric asymmetry in the thermospheric density response to geomagnetic storms, *J. Geophys. Res.*, 117, A08317, doi:10.1029/2011JA017259, 2012.

1403. Fang, H., L. Weng, and Z. Sheng, Variations in the thermosphere and ionosphere response to the 17–20 April 2002 geomagnetic storms, *Adv. Space Res.*, 49(10), 1529-1536, doi:[10.1016/j.asr.2012.02.024](https://doi.org/10.1016/j.asr.2012.02.024), 2012.
1404. Fang, T.-W., and J. M. Forbes, Ionosphere response to recurrent geomagnetic activity in 1974, *J. Geophys. Res. Space Physics*, 117, 01318, doi:[10.1029/2011JA017017](https://doi.org/10.1029/2011JA017017), 2012.
1405. Feldman, P. D., D. M. Hurley, K. D. Retherford, G. R. Gladstone, S. A. Stern, W. Pryor, J. W. Parker, D. E. Kaufmann, M. W. Davis, M. H. Versteeg, and LAMP Team, Temporal variability of lunar exospheric helium during January 2012 from LRO/LAMP, *Icarus*, 221(2), 854-858, doi:[10.1016/j.icarus.2012.09.015](https://doi.org/10.1016/j.icarus.2012.09.015), 2012.
1406. Fentzke, J. T., V. Hsu, C. G. M. Brum, I. Strelnikova, M. Rapp, and M. Nicolls, D region meteoric smoke and neutral temperature retrieval using the Poker Flat Incoherent Scatter Radar, *Geophys. Res. Lett.*, 39, 21, doi:[10.1029/2012GL053841](https://doi.org/10.1029/2012GL053841), 2012.
1407. Feofilov, A. G., A. A. Kutepov, C.-Y. She, A. K. Smith, W. D. Pesnell, and R. A. Goldberg, CO₂(v₂)-O quenching rate coefficient derived from coincidental SABER/TIMED and Fort Collins lidar observations of the mesosphere and lower thermosphere, *Atmos. Chem. Phys.*, 12, doi:[10.5194/acp-12-9013-2012](https://doi.org/10.5194/acp-12-9013-2012), 9013–9023, 2012.
1408. Feofilov, A. G., A. A. Kutepov, L. Rezac, and M. D. Smith, Extending MGS-TES temperature retrievals in the Martian atmosphere up to 90 km: Retrieval approach and results, *Icarus*, 221, 2, doi:[10.1016/j.icarus.2012.09.033](https://doi.org/10.1016/j.icarus.2012.09.033), 949–959, 2012.
1409. Feofilov, A. G., and A. A. Kutepov, Infrared Radiation in the Mesosphere and Lower Thermosphere: Energetic Effects and Remote Sensing, *Surv. Geophys.*, 33, 6, 1231-1280, doi:[10.1007/s10712-012-9204-0](https://doi.org/10.1007/s10712-012-9204-0), 2012.
1410. Forbes, J. M., and X. Zhang, Lunar tide amplification during the January 2009 stratosphere warming event: Observations and theory, *J. Geophys. Res. Space Physics*, 117, A12, doi:[10.1029/2012JA017963](https://doi.org/10.1029/2012JA017963), 2012.
1411. Forbes, J. M., and Y. Moulden, Quasi-two-day wave-tide interactions as revealed in satellite observations, *J. Geophys. Res.*, 117, D12110, doi:[10.1029/2011JD017114](https://doi.org/10.1029/2011JD017114), 2012.
1412. Forbes, J. M., X. Zhang, and S. Bruinsma, Middle and upper thermosphere density structures due to nonmigrating tides, *J. Geophys. Res.*, 117, A11, doi:[10.1029/2012JA018087](https://doi.org/10.1029/2012JA018087), 2012.
1413. France, J. A., V. L. Harvey, C. E. Randall, M. H. Hitchman, and M. J. Schwartz, A climatology of stratopause temperature and height in the polar vortex and anticyclones, *J. Geophys. Res.*, 117, D6, doi:[10.1029/2011JD016893](https://doi.org/10.1029/2011JD016893), 2012.
1414. Funke, B., M. López-Puertas, M. García-Comas, M. Kaufmann, M. Höpfner, and G. P. Stiller, GRANADA: A Generic Radiative Transfer And non-LTE population algorithm, *J. Quant. Spectrosc. Radiat. Transf.*, 113, 14, 1771-1817, doi:[10.1016/j.jqsrt.2012.05.001](https://doi.org/10.1016/j.jqsrt.2012.05.001), 2012.
1415. Gan, Q., S.-D. Zhang, and F. Yi, TIMED/SABER observations of lower mesospheric inversion layers at low and middle latitudes, *J. Geophys. Res.*, 117, D07109, doi:[10.1029/2012JD017455](https://doi.org/10.1029/2012JD017455), 2012.
1416. Gao, H., J.-B. Nee, and G.-M. Chen, Longitudinal distribution of O-2 nightglow brightness observed by TIEMD/SABER satellite, *Science China-Technological Sciences*, 55, 5, 1258-1263, doi:[10.1007/s11431-012-4802-0](https://doi.org/10.1007/s11431-012-4802-0), 2012.
1417. Gao, H., J.-B. Nee, and J. Xu, The emission of oxygen green line and density of O atom determined by using ISUAL and SABER measurements, *Ann. Geophys.*, 30, 695-701, doi:[10.5194/angeo-30-695-2012](https://doi.org/10.5194/angeo-30-695-2012), 2012.
1418. García-Comas, M., B. Funke, M. López-Puertas, D. Bermejo-Pantaleón, N. Glatthor, T. von Clarmann, G. Stiller, U. Grabowski, C. D. Boone, W. J. R. French, T. Leblanc, M. J. López-González, and M. J. Schwartz, On the quality of MIPAS kinetic temperature in the middle atmosphere, *Atmos. Chem. Phys.*, 12, 13, 6009-6039, doi:[10.5194/acp-12-6009-2012](https://doi.org/10.5194/acp-12-6009-2012), 2012.

1419. Gladstone, G. R., K. D. Retherford, A. F. Egan, D. E. Kaufmann, P. F. Miles, J. W. Parker, D. Horvath, P. M. Rojas, M. H. Versteeg, M. W. Davis, T. K. Greathouse, D. C. Slater, J. Mukherjee, A. J. Steffl, P. D. Feldman, D. M. Hurley, W. R. Pryor, A. R. Hendrix, E. M., and S. A. Stern, Far-ultraviolet reflectance properties of the Moon's permanently shadowed regions, *J. Geophys. Res. Planets*, 117(E12), doi:[10.1029/2011JE003913](https://doi.org/10.1029/2011JE003913), 2012.
1420. Goldberg, R. A., A. G. Feofilov, W. D. Pesnell, and A. A. Kutepov, Inter-hemispheric Coupling during Northern Polar Summer Periods of 2002-2010 using TIMED/SABER Measurements, *J. Atmos. Solar-Terr. Phys.*, 104, 277-284, doi:[10.1016/j.jastp.2012.11.018](https://doi.org/10.1016/j.jastp.2012.11.018), 2012.
1421. Gong, J., D. L. Wu, and S. D. Eckermann, Gravity wave variances and propagation derived from AIRS radiances, *Atmos. Chem. Phys.*, 12, 4, doi:[10.5194/acp-12-1701-2012](https://doi.org/10.5194/acp-12-1701-2012), 2012.
1422. Gronoff, G., C. S. Wedlund, C. J. Mertens, and R. J. Lillis, Computing uncertainties in ionosphere-airglow models: I. Electron flux and species production uncertainties for Mars, *J. Geophys. Res. Space Physics*, 117, A04306, doi:[10.1029/2011JA016930](https://doi.org/10.1029/2011JA016930), 2012.
1423. Gronoff, G., C. S. Wedlund, C. J. Mertens, M. Barthélemy, R. J. Lillis, and O. Witasse, Computing uncertainties in ionosphere-airglow models: II. The Martian airglow, *J. Geophys. Res. Space Physics*, 117(A5), A05309, doi:[10.1029/2011JA017308](https://doi.org/10.1029/2011JA017308), 2012.
1424. Guharay, A., R. Sekar, M. V. Ratnam, and P. P. Batista, Characteristics of the intraseasonal oscillations in the lower and middle atmosphere over Gadanki, *J. Atmos. Solar-Terr. Phys.*, 77, 167-173, doi:[10.1016/j.jastp.2011.12.016](https://doi.org/10.1016/j.jastp.2011.12.016), 2012.
1425. Haaland, S., K. Svenes, B. Lybekk, and A. Pedersen, A survey of the polar cap density based on Cluster EFW probe measurements: Solar wind and solar irradiation dependence, *J. Geophys. Res. Space Physics*, 117, A01216, doi:[10.1029/2011JA017250](https://doi.org/10.1029/2011JA017250), 2012.
1426. Hall, C. M., M. E. Dyrland, M. Tsutsumi, and F. J. Mulligan, Temperature trends at 90 km over Svalbard, Norway (78°N 16°E), seen in one decade of meteor radar observations, *J. Geophys. Res.*, 117, D08104, doi:[10.1029/2011JD017028](https://doi.org/10.1029/2011JD017028), 2012.
1427. Hallgren, K., P. Hartogh, and C. Jarchow, Climatology of middle atmospheric water vapour above the ALOMAR observatory in northern Norway, *Atmos. Chem. Phys. Discuss.*, 12, 31531-31560, doi:[10.5194/acpd-12-31531-2012](https://doi.org/10.5194/acpd-12-31531-2012), 2012.
1428. Hart, V. P., T. E. Doyle, M. J. Taylor, B. L. Carruth, P.-D. Pautet, and Y. Zhao, Three-dimensional tomographic reconstruction of mesospheric airglow structures using two-station ground-based image measurements, *Appl. Opt.*, 51, 963-974, doi:[10.1364/AO.51.000963](https://doi.org/10.1364/AO.51.000963), 2012.
1429. He, L., L. Wu, S. Pulnits, S. Liu, and F. Yang, A nonlinear background removal method for seismo-ionospheric anomaly analysis under a complex solar activity scenario: A case study of the M9.0 Tohoku earthquake, *Adv. Space Res.*, 50(2), 211-220, doi:[10.1016/j.asr.2012.04.001](https://doi.org/10.1016/j.asr.2012.04.001), 2012.
1430. Hecht, J. H., T. Mulligan, J. T. Correira, J. H. Clemmons, D. J. Strickland, R. L. Walterscheid, and M. G. Conde, A multiyear (2002-2006) climatology of O/N₂ in the lower thermosphere from TIMED GUVI and ground-based photometer observations, *J. Geophys. Res.*, 117, 03302, doi:[10.1029/2011JA017146](https://doi.org/10.1029/2011JA017146), 2012.
1431. Hedin, J., M. Rapp, M. Khaplanov, J. Stegman, and G. Witt, Observations of NO in the upper mesosphere and lower thermosphere during ECOMA 2010, *Ann. Geophys.*, 30, 11, doi:[10.5194/angeo-30-1611-2012](https://doi.org/10.5194/angeo-30-1611-2012), 2012.
1432. Hock, R. A., P. C. Chamberlin, T. N. Woods, D. Crotser, F. G. Eparvier, D. L. Woodraska, and E. C. Woods, Extreme Ultraviolet Variability Experiment (EVE) Multiple EUV Grating Spectrographs (MEGS): Radiometric Calibrations and Results, *Sol. Phys.*, 275(1-2), 145-178, doi:[10.1007/s11207-010-9520-9](https://doi.org/10.1007/s11207-010-9520-9), 2012.

1433. Hoffmann, P., and C. Jacobi, Planetary wave characteristics of gravity wave modulation from 30-130 km, *Adv. Radio Sci.*, 10, 271-277, doi:[10.5194/ars-10-271-2012](https://doi.org/10.5194/ars-10-271-2012), 2012.
1434. Hoffmann, P., C. Jacobi, and C. Borries, Possible planetary wave coupling between the stratosphere and ionosphere by gravity wave modulation, *J. Atmos. Solar-Terr. Phys.*, 75–76, 71-80, doi:[10.1016/j.jastp.2011.07.008](https://doi.org/10.1016/j.jastp.2011.07.008), 2012.
1435. Holt, L. A., C. E. Randall, V. L. Harvey, E. E. Remsberg, G. P. Stiller, B. Funke, P. F. Bernath, and K. A. Walker, Atmospheric effects of energetic particle precipitation in the Arctic winter 1978–1979 revisited, *J. Geophys. Res. Atmos.*, 117, D5, D05315, doi:[10.1029/2011JD016663](https://doi.org/10.1029/2011JD016663), 2012.
1436. Huang, Y. Y., Y. Deng, J. Lei, A. Ridley, R. Lopez, R. C. Allen, and B. M. Butler, Comparison of Joule heating associated with high-speed solar wind between different models and observations, *J. Atmos. Solar-Terr. Phys.*, 75, 5-14, doi:[10.1016/j.jastp.2011.05.013](https://doi.org/10.1016/j.jastp.2011.05.013), 2012.
1437. Hubert, B., J. C. Gérard, J. Gustin, D. V. Bisikalo, V. I. Shematovich, and G. R. Gladstone, Cassini-UVIS observation of dayglow FUV emissions of carbon in the thermosphere of Venus, *Icarus*, 220(2), 635-646, doi:[10.1016/j.icarus.2012.06.002](https://doi.org/10.1016/j.icarus.2012.06.002), 2012.
1438. Jiang, G.-Y., J. Xu, W. Yuan, B. Ning, W. Wan, and L. Hu, A comparison of mesospheric winds measured by FPI and meteor radar located at 40N, *Science China Technological Sciences*, 55, 1245-1250, doi:[10.1007/s11431-012-4773-1](https://doi.org/10.1007/s11431-012-4773-1), 2012.
1439. Jin, H., Y. Miyoshi, D. Pancheva, P. Mukhtarov, H. Fujiwara, and H. Shinagawa, Response of migrating tides to the stratospheric sudden warming in 2009 and their effects on the ionosphere studied by a whole atmosphere-ionosphere model GAIA with COSMIC and TIMED/SABER observations, *J. Geophys. Res. Space Physics*, 117, A10, A10323, doi:[10.1029/2012JA017650](https://doi.org/10.1029/2012JA017650), 2012.
1440. John, S. R., and K. K. Kumar, The concept of wave-turbopause layer and its signature in the global mesosphere-lower thermospheric gravity wave activity, *J. Geophys. Res.*, 117, A10, doi:[10.1029/2012JA018172](https://doi.org/10.1029/2012JA018172), 2012.
1441. John, S. R., and K. K. Kumar, TIMED/SABER observations of global gravity wave climatology and their interannual variability from stratosphere to mesosphere lower thermosphere, *Climate Dynamics*, 39, 6, 1489-1505, doi:[10.1007/s00382-012-1329-9](https://doi.org/10.1007/s00382-012-1329-9), 2012.
1442. Kim, J.-H., Y. H. Kim, G. G. Jee, and C. Lee, Mesospheric temperature estimation from meteor decay times of weak and strong meteor trails, *J. Atmos. Solar-Terr. Phys.*, 89, 18-26, doi:[10.1016/j.jastp.2012.07.003](https://doi.org/10.1016/j.jastp.2012.07.003), 2012.
1443. Klimenko, M. V., and V. V. Klimenko, Disturbance dynamo, prompt penetration electric field and overshielding in the Earth's ionosphere during geomagnetic storm, *J. Geophys. Res. Space Physics*, 90-91, 146-155, doi:[10.1016/j.jastp.2012.02.018](https://doi.org/10.1016/j.jastp.2012.02.018), 2012.
1444. Korenkov, Y. N., V. V. Klimenko, M. V. Klimenko, F. S. Bessarab, N. A. Korenkova, K. G. Ratovsky, M. A. Chernigovskaya, A. A. Shcherbakov, Y. Sahai, P. R. Fagundes, R. de Jesus, A. J. de Abreu, and P. Condor, The global thermospheric and ionospheric response to the 2008 minor sudden stratospheric warming event, *J. Geophys. Res.*, 117, A10309, doi:[10.1029/2012JA018018](https://doi.org/10.1029/2012JA018018), 2012.
1445. Krauss, S., B. Fichtinger, H. Lammer, W. Hausleitner, Y. N. Kulikov, I. Ribas, V. I. Shematovich, D. Bisikalo, H. I. M. Lichtenegger, T. V. Zaqarashvili, M. L. Khodachenko, and A. Hanslmeier, Solar flares as proxy for the young Sun: satellite observed thermosphere response to an X17.2 flare of Earth's upper atmosphere, *Ann. Geophys.*, 30, 1129-1141, doi:[10.5194/angeo-30-1129-2012](https://doi.org/10.5194/angeo-30-1129-2012), 2012.
1446. Kretschmar, M., I. E. Dammasch, M. Dominique, J. Zender, G. Cessateur, and E. D'Huys, Extreme ultraviolet solar irradiance during the rising phase of solar cycle 24 observed by PROBA2/LYRA, *J. Space Weather & Space Clim.*, 2, A14, doi:[10.1051/swsc/2012014](https://doi.org/10.1051/swsc/2012014), 2012.

1447. Krywonos, A., D. J. Murray, R. W. Eastes, A. Aksnes, S. A. Budzien, and R. E. Daniell, Remote sensing of neutral temperatures in the Earth's thermosphere using the Lyman-Birge-Hopfield bands of N₂: Comparisons with satellite drag data, *J. Geophys. Res.*, *117*, A09311, doi:[10.1029/2011JA017226](https://doi.org/10.1029/2011JA017226), 2012.
1448. Kumar, K. K., and K. V. Subrahmanyam, A discussion on the assumption of ambipolar diffusion of meteor trails in the Earth's upper atmosphere, *Monthly Notices of the Royal Astronomical Society*, *425*, 1, L1-L5, doi:[10.1111/j.1745-3933.2012.01279.x](https://doi.org/10.1111/j.1745-3933.2012.01279.x), 2012.
1449. Kumar, S., S. Priyadarshi, S. G. Krishna, and A. K. Singh, GPS-TEC variations during low solar activity period (2007-2009) at Indian low latitude stations, *Astrophys. Space Sci.*, *339*, 165-178, doi:[10.1007/s10509-011-0973-6](https://doi.org/10.1007/s10509-011-0973-6), 2012.
1450. Kumar, N. K., A. Taori, S. Sathishkumar, V. Kamalakar, R. Ghodpage, S. Gurubaran, P. T. Patil, S. V. B. Rao, and A. K. Patra, On the linkage of mesospheric planetary waves with those of the lower atmosphere and ionosphere: A case study from Indian low latitudes, *J. Geophys. Res. Space Physics*, *117*, A11, A11303, doi:[10.1029/2012JA018139](https://doi.org/10.1029/2012JA018139), 2012.
1451. Kumara, S. T., R. Kariyappa, M. Dominique, D. Berghmans, L. Damé, J. F. Hochedez, V. H. Doddamani, and L. P. Chitta, Preliminary results on irradiance measurements from Lyra and swap, *Adv. Astron.*, *2012*, 623709, doi:[10.1155/2012/623709](https://doi.org/10.1155/2012/623709), 2012.
1452. Kvissel, O.-K., Y. J. Orsolini, F. Stordal, V. Limpasuvan, J. Richter, and D. R. Marsh, Mesospheric intrusion and anomalous chemistry during and after a major stratospheric sudden warming, *J. Atmos. Solar-Terr. Phys.*, 78–79, 116-124, doi:[10.1016/j.jastp.2011.08.015](https://doi.org/10.1016/j.jastp.2011.08.015), 2012.
1453. Kwak, Y.-S., H. Kil, W. K. Lee, S.-J. Oh, and Z. Ren, Nonmigrating tidal characteristics in thermospheric neutral mass density, *J. Geophys. Res.*, *117*, A2, doi:[10.1029/2011JA016932](https://doi.org/10.1029/2011JA016932), 2012.
1454. Lee, I. T., J. Y. Liu, C. H. Lin, K.-I. Oyama, C. Y. Chen, and C. H. Chen, Ionospheric plasma caves under the equatorial ionization anomaly, *J. Geophys. Res.*, *117*, A11309, doi:[10.1029/2012JA017868](https://doi.org/10.1029/2012JA017868), 2012.
1455. Lee, I. T., T. Matsuo, A. D. Richmond, J. Y. Liu, W. Wang, C. H. Lin, J. L. Anderson, and M. Q. Chen, Assimilation of FORMOSAT-3/COSMIC electron density profiles into a coupled thermosphere/ionosphere model using ensemble Kalman filtering, *J. Geophys. Res.*, *117*, A10318, doi:[10.1029/2012JA017700](https://doi.org/10.1029/2012JA017700), 2012.
1456. Leena, P. P., M. V. Ratnam, and B. V. K. Murthy, Inertia gravity wave characteristics and associated fluxes observed using five years of radiosonde measurements over a tropical station, *J. Atmos. Solar-Terr. Phys.*, 84–85, 37-44, doi:[10.1016/j.jastp.2012.05.004](https://doi.org/10.1016/j.jastp.2012.05.004), 2012.
1457. Lei, J., A. G. Burns, J. P. Thayer, W. Wang, M. G. Mlynczak, L. A. Hunt, X. Dou, and E. Sutton, Overcooling in the upper thermosphere during the recovery phase of the 2003 October storms, *J. Geophys. Res.*, *117*, A03314, doi:[10.1029/2011JA016994](https://doi.org/10.1029/2011JA016994), 2012.
1458. Lemaire, P., J. C. Vial, W. Curdt, U. Schuehle, and T. N. Woods, The solar hydrogen Lyman alpha to Lyman beta line ratio, *Astron. & Astrophys.*, *542*, L25, doi:[10.1051/0004-6361/201219026](https://doi.org/10.1051/0004-6361/201219026), 2012.
1459. Li, T., X. Fang, W. Liu, S.-Y. Gu, and X. Dou, Narrowband sodium lidar for the measurements of mesopause region temperature and wind, *Appl. Opt.*, *51*, 22, doi:[10.1364/AO.51.005401](https://doi.org/10.1364/AO.51.005401), 2012.
1460. Lieberman, R. S., J. Oberheide, L. L. Gordley, and B. T. Marshall, Recovery of planetary-scale waves in stratospheric, mesospheric, and lower thermospheric winds and temperature from the Doppler wind and temperature sounder, *J. Appl. Remote Sens.*, *6*, 1, doi:[10.1117/1.JRS.6.063570](https://doi.org/10.1117/1.JRS.6.063570), 2012.
1461. Lima, L. M., E. O. Alves, P. P. Batista, B. R. Clemesha, A. F. Medeiros, and R. A. Buriti, Sudden stratospheric warming effects on the mesospheric tides and 2-day wave dynamics at 7°S, *J. Atmos. Solar-Terr. Phys.*, 78-79, doi:[10.1016/j.jastp.2011.02.013](https://doi.org/10.1016/j.jastp.2011.02.013), 2012.

1462. Limpasuvan, V., J. H. Richter, Y. J. Orsolini, F. Stordal, and O.-K. Kvissel, The roles of planetary and gravity waves during a major stratospheric sudden warming as characterized in WACCM, *J. Atmos. Solar-Terr. Phys.*, 78–79, 84–98, doi:[10.1016/j.jastp.2011.03.004](https://doi.org/10.1016/j.jastp.2011.03.004), 2012.
1463. Lin, C. H., J. T. Lin, L. C. Chang, J. Y. Liu, C. H. Chen, W. H. Chen, H. H. Huang, and C. H. Liu, Observations of global ionospheric responses to the 2009 stratospheric sudden warming event by FORMOSAT-3/COSMIC, *J. Geophys. Res.*, 117, A06323, doi:[10.1029/2011JA017230](https://doi.org/10.1029/2011JA017230), 2012.
1464. Liu, G., S. L. England, T. J. Immel, K. K. Kumar, G. Ramkumar, and L. P. Goncharenko, Signatures of the 3-day wave in the low-latitude and midlatitude ionosphere during the January 2010 URSI World Day campaign, *J. Geophys. Res. Space Physics*, 117, A6, A06305, doi:[10.1029/2012JA017588](https://doi.org/10.1029/2012JA017588), 2012.
1465. Liu, J., L. Liu, B. Zhao, and W. Wan, Influence of interplanetary solar wind sector polarity on the ionosphere, *J. Geophys. Res.*, 117, A08335, doi:[10.1029/2012JA017859](https://doi.org/10.1029/2012JA017859), 2012.
1466. Liu, J., L. Liu, B. Zhao, J. Lei, J. P. Thayer, and R. L. McPherron, Superposed epoch analyses of thermospheric response to CIRs: Solar cycle and seasonal dependencies, *J. Geophys. Res.*, 117(A6), doi:[10.1029/2011JA017315](https://doi.org/10.1029/2011JA017315), 2012.
1467. Liu, L., W. Wan, Y. Chen, H. Le, and B. Zhao, Recent Progresses on Ionospheric Climatology Investigations, *Chin. J. Space Sci.*, 32(5), 665–680, [W020130607507417993985.pdf](https://doi.org/10.1007/s11434-012-1395-5), 2012.
1468. Lollo, A., P. Withers, K. Fallows, Z. Girazian, M. Matta, and P. C. Chamberlin, Numerical simulations of the ionosphere of Mars during a solar flare, *J. Geophys. Res. Space Physics*, 117, A05314, doi:[10.1029/2011JA017399](https://doi.org/10.1029/2011JA017399), 2012.
1469. Lu, G., L. Goncharenko, M. J. Nicolls, A. Maute, A. Coster, and L. J. Paxton, Ionospheric and thermospheric variations associated with prompt penetration electric fields, *J. Geophys. Res.*, 117, 08312, doi:[10.1029/2012JA017769](https://doi.org/10.1029/2012JA017769), 2012.
1470. Lu, H., D. Pancheva, P. Mukhtarov, and I. Cnossen, QBO modulation of traveling planetary waves during northern winter, *J. Geophys. Res.*, 117, D09104, doi:[10.1029/2011JD016901](https://doi.org/10.1029/2011JD016901), 2012.
1471. Lühr, H., M. Rother, K. Häusler, B. Fejer, and P. Alken, Direct comparison of nonmigrating tidal signatures in the electrojet, vertical plasma drift and equatorial ionization anomaly, *J. Atmos. Solar-Terr. Phys.*, 75–76, doi:[10.1016/j.jastp.2011.07.009](https://doi.org/10.1016/j.jastp.2011.07.009), 2012.
1472. Ma, R., J. Xu, W. Wang, and J. Lei, The effect of ~ 27 day solar rotation on ionospheric F2 region peak densities (NmF2), *J. Geophys. Res. Space Physics*, 117(A3), doi:[10.1029/2011JA017190](https://doi.org/10.1029/2011JA017190), 2012.
1473. Machol, J. L., J. C. Green, R. J. Redmon, R. A. Viereck, and P. T. Newell, Evaluation of OVATION Prime as a forecast model for visible aurorae, *Space Weather*, 10, S03005, doi:[10.1029/2011SW000746](https://doi.org/10.1029/2011SW000746), 2012.
1474. Maggiolo, R., M. Echim, C. S. Wedlund, Y. Zhang, D. Fontaine, G. Lointier, and J. Trotignon, Polar cap arcs from the magnetosphere to the ionosphere: Kinetic modelling and observations by Cluster and TIMED, *Ann. Geophys.*, 30(2), 283–302, doi:[10.5194/angeo-30-283-2012](https://doi.org/10.5194/angeo-30-283-2012), 2012.
1475. Manchanda, R. K., P. R. Sinha, S. Sreenivasan, D. B. Trivedi, B. V. N. Kapardhi, B. S. Kumar, P. R. Kumar, U. Satyaprakash, and V. N. Rao, In-situ measurements of vertical structure of ozone during the solar eclipse of 15 January 2010, *J. Atmos. Solar-Terr. Phys.*, 84–85, 88–100, doi:[10.1016/j.jastp.2012.05.011](https://doi.org/10.1016/j.jastp.2012.05.011), 2012.
1476. Mannucci, A. J., B. T. Tsurutani, S. C. Solomon, O. P. Verkhoglyadova, and J. P. Thayer, How Do Coronal Hole Storms Affect the Upper Atmosphere?, *EO Transactions, AGU*, 93(8), 77, doi:[10.1029/2012EO080002](https://doi.org/10.1029/2012EO080002), 2012.

1477. Matthias, V., P. Hoffmann, M. Rapp, and G. Baumgarten, Composite analysis of the temporal development of waves in the polar MLT region during stratospheric warmings, *J. Atmos. Solar-Terr. Phys.*, 90–91, 86-96, doi:10.1016/j.jastp.2012.04.004, 2012.
1478. Mayr, H. G., J.-H. Yee, M. Mayr, and R. Schnetzler, Nature's autonomous oscillators, *Natural Science*, 4, 4, 233-244, doi:10.4236/ns.2012.44034, 2012.
1479. McDonald, A. J., Gravity wave occurrence statistics derived from paired COSMIC/FORMOSAT3 observations, *J. Geophys. Res.*, 117, D15, doi:10.1029/2011JD016715, 2012.
1480. McPeters, R. D., and G. J. Labow, Climatology 2011: An MLS and sonde derived ozone climatology for satellite retrieval algorithms, *J. Geophys. Res. Atmos.*, 117, D10, D10303, doi:10.1029/2011JD017006, 2012.
1481. Medvedeva, I. V., A. I. Semenov, M. A. Chernigovskaya, and V. I. Perminov, Studying manifestations of 2008-2011 sudden stratospheric warmings in East-Siberia and European Russia, *Geophysica*, 48(1-2), 91-103, 2012.
1482. Merzlyakov, E. G., T. V. Solovyova, and A. A. Yudakov, Interannual variability of the spring transition date in the MLT region observed with meteor radar at Obninsk (55°N, 37°E), *J. Atmos. Solar-Terr. Phys.*, 77, 113-118, doi:10.1016/j.jastp.2011.12.006, 2012.
1483. Mieruch, S., M. Weber, C. von Savigny, A. Rozanov, H. Bovensmann, J. P. Burrows, P. F. Bernath, C. D. Boone, L. Froidevaux, L. L. Gordley, M. G. Mlynczak, J. M. Russell III, L. W. Thomason, K. A. Walker, and J. M. Zawodny, Global and long-term comparison of SCIAMACHY limb ozone profiles with correlative satellite data (2002-2008), *Atmospheric Measurement Techniques*, 5, 4, 771-788, doi:10.5194/amt-5-771-2012, 2012.
1484. Mikhailov, A. V., A. Belehaki, L. Perrone, B. Zolesi, and I. Tsagouri, Retrieval of thermospheric parameters from routine ionospheric observations: assessment of method's performance at mid-latitudes daytime hours, *J. Space Weather & Space Clim.*, 2, A03, doi:10.1051/swsc/2012002, 2012.
1485. Mikhailov, A. V., L. Perrone, and N. V. Smirnova, Two types of positive disturbances in the daytime mid-latitude F2-layer: Morphology and formation mechanisms, *J. Atmos. Solar-Terr. Phys.*, 81, 59-75, doi:10.1016/j.jastp.2012.04.003, 2012.
1486. Milligan, R. O., P. C. Chamberlin, H. S. Hudson, T. N. Woods, M. Mathioudakis, L. Fletcher, A. F. Kowalski, and F. P. Keenan, Observations of enhanced extreme ultraviolet continua during an X-class solar flare Using SDO/EVE, *Astrophys. J. Lett.*, 748(1), L14, doi:10.1088/2041-8205/748/1/L14, 2012.
1487. Moore, L., G. Fischer, I. Müller-Wodarg, M. Galand, and M. Mendillo, Diurnal variation of electron density in Saturn's ionosphere: Model comparisons with Saturn Electrostatic Discharge (SED) observations, *Icarus*, 221(2), 508-516, doi:10.1016/j.icarus.2012.08.010, 2012.
1488. Mukhtarov, P., and D. Pancheva, Thermosphere-ionosphere coupling in response to recurrent geomagnetic activity, *J. Atmos. Solar-Terr. Phys.*, 90-91, 132-145, doi:10.1016/j.jastp.2012.02.013, 2012.
1489. Muscari, G., C. Cesaroni, I. Fiorucci, A. K. Smith, L. Froidevaux, and M. G. Mlynczak, Strato-mesospheric ozone measurements using ground-based millimeter-wave spectroscopy at Thule, Greenland, *J. Geophys. Res.*, 117, D07307, doi:10.1029/2011JD016863, 2012.
1490. Narayanan, V. L., S. Gurubaran, and K. Emperumal, Nightglow imaging of different types of events, including a mesospheric bore observed on the night of February 15, 2007 from Tirunelveli (8.7° N), *J. Atmos. Solar-Terr. Phys.*, 78-79 Special, SI, 70-83, doi:10.1016/j.jastp.2011.07.006, 2012.

1491. Nielsen, K., M. J. Taylor, R. E. Hibbins, M. J. Jarvis, and J. M. Russell III, On the nature of short-period mesospheric gravity wave propagation over Halley, Antarctica, *J. Geophys. Res.*, 117, D5, doi:10.1029/2011JD016261, 2012.
1492. Nozawa, S., C. M. Hall, M. Tsutsumi, A. Brekke, Y. Ogawa, T. T. Tsuda, S. Oyama, and R. Fujii, Mean winds, tides, and quasi-2 day waves above Bear Island, *J. Atmos. Solar-Terr. Phys.*, 90–91, 26–44, doi:10.1016/j.jastp.2012.05.002, 2012.
1493. Oberländer, S., U. Langematz, K. Matthes, M. Kunze, A. Kubin, J. Harder, N. A. Krivova, S. K. Solanki, J. Pagaran, and M. Weber, The influence of spectral solar irradiance data on stratospheric heating rates during the 11 year solar cycle, *Geophys. Res. Lett.*, 39(1), L01801, doi:[10.1029/2011GL049539](https://doi.org/10.1029/2011GL049539), 2012.
1494. Pancheva, D., and P. Mukhtarov, Global Response of the Ionosphere to Atmospheric Tides Forced from Below: Recent Progress Based on Satellite Measurements Global Tidal Response of the Ionosphere, *Space Sci. Rev.*, 168, 1-4, 175-209, doi:10.1007/s11214-011-9837-1, 2012.
1495. Pancheva, D., and P. Mukhtarov, Planetary wave coupling of the atmosphere-ionosphere system during the Northern winter of 2008/2009, *Adv. Space Res.*, 50, 9, 1189-1203, doi:10.1016/j.asr.2012.06.023, 2012.
1496. Pancheva, D., and P. Mukhtarov, Semidiurnal Tidal Response to the Sudden Stratospheric Warming in January 2009 and its Effect on the Ionosphere, *Comptes Rendus de l'Academie bulgare des Sciences*, 65, 8, 1125-1134, 2012.
1497. Pancheva, D., Y. Miyoshi, P. Mukhtarov, H. Jin, H. Shinagawa, and H. Fujiwara, Global response of the ionosphere to atmospheric tides forced from below: Comparison between COSMIC measurements and simulations by atmosphere-ionosphere coupled model GAIA, *J. Geophys. Res.*, 117, A07319, doi:10.1029/2011JA017452, 2012.
1498. Panwar, V., A. R. Jain, A. Goel, T. K. Mandal, V. R. Rao, and S. K. Dhaka, Some features of water vapor mixing ratio in tropical upper troposphere and lower stratosphere: Role of convection, *Atmospheric Research*, 108, 86-103, doi:10.1016/j.atmosres.2012.02.003, 2012.
1499. Park, J., H. Lühr, N. Jakowski, T. Gerzen, H. Kil, G. Jee, C. Xiong, K. W. Min, and M. Noja, A long-lived band of plasma density enhancement at mid-latitudes during the 2003 Halloween magnetic storm, *J. Atmos. Solar-Terr. Phys.*, 80, 100-110, doi:10.1016/j.jastp.2012.03.009, 2012.
1500. Park, J., K. W. Min, G. K. Parks, Y. Zhang, J. J. Lee, J. B. Baker, H. Kim, J. Hwang, K. Yumoto, T. Uozumi, and C.-N. Lee, Dayside and nightside segments of a polar arc: The particle characteristics, *J. Geophys. Res.*, 117, A07224, doi:10.1029/2011JA017323, 2012.
1501. Park, J., R. Ehrlich, H. Lühr, and P. Ritter, Plasma irregularities in the high-latitude ionospheric F-region and their diamagnetic signatures as observed by CHAMP, *J. Geophys. Res.*, 117, A10322, doi:10.1029/2012JA018166, 2012.
1502. Park, S. M., K.-H. Kim, H. Kil, G. Jee, D.-H. Lee, and J. Goldstein, The source of the steep plasma density gradient in middle latitudes during the 11-12 April 2001 storm, *J. Geophys. Res.*, 117, A05313, doi:10.1029/2011JA017349, 2012.
1503. Paulino, I., H. Takahashi, S. L. Vadas, C. M. Wrasse, J. H. A. Sobral, A. F. Medeiros, R. A. Buriti, and D. Gobbi, Forward ray-tracing for medium-scale gravity waves observed during the COPEX campaign, *J. Atmos. Solar-Terr. Phys.*, 90-91, 117-123, doi:10.1016/j.jastp.2012.08.006, 2012.
1504. Pedatella, N. M., and J. M. Forbes, The quasi 2 day wave and spatial-temporal variability of the OH emission and ionosphere, *J. Geophys. Res. Space Physics*, 117, A1, doi:10.1029/2011JA017186, 2012.
1505. Peevey, T. R., J. C. Gille, C. E. Randall, and A. Kunz, Investigation of double tropopause spatial and temporal global variability utilizing High Resolution Dynamics Limb Sounder

- temperature observations, *J. Geophys. Res. Atmos.*, 117, D1, D01105, doi:10.1029/2011JD016443, 2012.
1506. Pendlebury, D., A simulation of the quasi-two-day wave and its effect on variability of summertime mesopause temperatures, *J. Atmos. Solar-Terr. Phys.*, 80, 138-151, doi:10.1016/j.jastp.2012.01.006, 2012.
1507. Peterson, W. K., T. N. Woods, J. M. Fontenla, P. G. Richards, P. C. Chamberlin, S. C. Solomon, W. K. Tobiska, and H. P. Warren, Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations, *J. Geophys. Res. Space Physics*, A05320, doi:[10.1029/2011JA017382](https://doi.org/10.1029/2011JA017382), 2012.
1508. Polekh, N. M., G. P. Kushnarenko, O. M. Pirog, O. E. Kolpakova, and G. M. Kuznetsova, Electron concentration variations in the F1-region during magnetic storms in a low solar activity period, *Geomagn. Aeron.*, 51(8), 1121-1129, doi:[10.1134/S0016793211080251](https://doi.org/10.1134/S0016793211080251), 2012.
1509. Qian, L., A. G. Burns, H. Liu, and P. C. Chamberlin, Effect of a solar flare on a traveling atmospheric disturbance, *J. Geophys. Res. Space Physics*, 117(A10), doi:[10.1029/2012JA017806](https://doi.org/10.1029/2012JA017806), 2012.
1510. Qian, L., and S. C. Solomon, Thermospheric density: An overview of temporal and spatial variations, *Space Sci. Rev.*, 168(1-4), 147-173, doi:[10.1007/s11214-011-9810-z](https://doi.org/10.1007/s11214-011-9810-z), 2012.
1511. Ramesh, K., and S. Sridharan, Large mesospheric inversion layer due to breaking of small-scale gravity waves: Evidence from Rayleigh lidar observations over Gadanki (13.5°N, 79.2°E), *J. Atmos. Solar-Terr. Phys.*, 89, 90-97, doi:[10.1016/j.jastp.2012.08.011](https://doi.org/10.1016/j.jastp.2012.08.011), 2012.
1512. Rao, N. V., T. Tsuda, and Y. Kawatani, A remarkable correlation between short period gravity waves and semiannual oscillation of the zonal wind in the equatorial mesopause region, *Ann. Geophys.*, 30, 4, doi:[10.5194/angeo-30-703-2012](https://doi.org/10.5194/angeo-30-703-2012), 2012.
1513. Ren, Z., W. Wan, J. Xiong, and L. Liu, Simulated equinoctial asymmetry of the ionospheric vertical plasma drifts, *J. Geophys. Res. Space Physics*, 117, A01301, doi:[10.1029/2011JA016952](https://doi.org/10.1029/2011JA016952), 2012.
1514. Ren, Z., W. Wan, L. Liu, and J. Xiong, Simulated longitudinal variations in the E-region plasma density induced by non-migrating tides, *J. Atmos. Solar-Terr. Phys.*, 90-91, 68-76, doi:[10.1016/j.jastp.2011.12.004](https://doi.org/10.1016/j.jastp.2011.12.004), 2012.
1515. Richards, P. G., Re-evaluation of thermosphere heating by solar extreme ultraviolet and ultraviolet radiation1. *Canadian J. of Phys.*, 90, 759-767, doi:[10.1139/p11-109](https://doi.org/10.1139/p11-109), 2012.
1516. Rogers, A. E. E., P. Erickson, V. L. Fish, J. Kittredge, S. Danford, J. M. Marr, M. B. Arndt, J. Sarabia, D. Costa, and S. K. May, Repeatability of the Seasonal Variations of Ozone near the Mesopause from Observations of the 11.072-GHz Line, *J. Atmos. Oceanic Technol.*, 29, 10, doi:[10.1175/JTECH-D-11-00193.1](https://doi.org/10.1175/JTECH-D-11-00193.1), 2012.
1517. Rokade, M. V., R. K. Rao, S. S. Nikte, R. N. Ghodpage, P. T. Patil, A. K. Sharma, and S. Gurubaran, Intraseasonal oscillation (ISO) in the MLT zonal wind over Kolhapur (16.8° N) and Tirunelveli (8.7° N), *Ann. Geophys.*, 30, 12, doi:[10.5194/angeo-30-1623-2012](https://doi.org/10.5194/angeo-30-1623-2012), 2012.
1518. Rong, P. P., J. M. Russell III, M. E. Hervig, and S. M. Bailey, The roles of temperature and water vapor at different stages of the polar mesospheric cloud season, *J. Geophys. Res.*, 117, D4, doi:[10.1029/2011JD016464](https://doi.org/10.1029/2011JD016464), 2012.
1519. Rothwell, P. L., J. R. Jasperse, and N. J. Grossbard, Comparison of penetration electric fields created by the solar wind with Jicamarca data using SWAGE, *J. Geophys. Res.*, 117, A09207, doi:[10.1029/2012JA017684](https://doi.org/10.1029/2012JA017684), 2012.
1520. Sahai, Y., R. de Jesus, P. R. Fagundes, C. L. Selhorst, A. J. de Abreu, S. T. Ram, A. Aragon-Angel, V. G. Pillat, J. R. Abalde, W. L. C. Lima, and J. A. Bittencourt, Effects observed in the equatorial and low latitude ionospheric F-region in the Brazilian sector during low solar activity geomagnetic storms and comparison with the COSMIC measurements, *Adv. Space Res.*, 10, 1344-1351, doi:[10.1016/j.asr.2012.07.006](https://doi.org/10.1016/j.asr.2012.07.006), 2012.

1521. Sakazaki, T., M. Fujiwara, X. Zhang, M. E. Hagan, and J. M. Forbes, Diurnal tides from the troposphere to the lower mesosphere as deduced from TIMED/SABER satellite data and six global reanalysis data sets, *J. Geophys. Res.*, *117*, D13108, [doi:10.1029/2011JD017117](https://doi.org/10.1029/2011JD017117), 2012.
1522. Sarkhel, S., R. Sekar, D. Chakrabarty, and A. Guharay, Investigation on mesospheric gravity waves over Indian low latitude stations using sodium airglow observations and a few case studies based on thermal and wind structures, *J. Atmos. Solar-Terr. Phys.*, *86*, 41-50, [doi:10.1016/j.jastp.2012.06.008](https://doi.org/10.1016/j.jastp.2012.06.008), 2012.
1523. Sarkhel, S., S. Raizada, J. D. Mathews, S. Smith, C. A. Tepley, F. J. Rivera, and S. A. Gonzalez, Identification of large-scale billow-like structure in the neutral sodium layer over Arecibo, *J. Geophys. Res.*, *117*, A10301, [doi:10.1029/2012JA017891](https://doi.org/10.1029/2012JA017891), 2012.
1524. Sharma, S., S. Sridharan, H. Chandra, S. Lal, and Y. B. Acharya, Middle atmospheric thermal structure over sub-tropical and tropical Indian locations using Rayleigh lidar, *Planetary & Space Science*, 63–64, 36-48, [doi:10.1016/j.pss.2011.10.015](https://doi.org/10.1016/j.pss.2011.10.015), 2012.
1525. Sheese, P. E., K. Strong, E. J. Llewellyn, R. L. Gattinger, J. M. Russell III, C. D. Boone, M. E. Hervig, R. J. Sica, and J. Bando, Assessment of the quality of OSIRIS mesospheric temperatures using satellite and ground-based measurements, *Atmospheric Measurement Techniques*, *5*, 12, 2993-3006, [doi:10.5194/amt-5-2993-2012](https://doi.org/10.5194/amt-5-2993-2012), 2012.
1526. Shepherd, G. G., G. Thuillier, Y.-M. Cho, M.-L. Duboin, W. F. J. Evans, W. A. Gault, C. Hersom, D. J. W. Kendall, C. Lathuillère, R. P. Lowe, I. C. McDade, Y. J. Rochon, M. G. Shepherd, B. H. Solheim, D.-Y. Wang, and W. E. Ward, The Wind Imaging Interferometer (WINDII) on the Upper Atmosphere Research Satellite: A 20 year perspective, *Rev. Geophys.*, *50*, RG2007, [doi:10.1029/2012RG000390](https://doi.org/10.1029/2012RG000390), 2012.
1527. Shepherd, M. G., G. G. Shepherd, and Y.-M. Cho, Longitudinal variability of thermospheric temperatures from WINDII O(¹S) dayglow, *J. Geophys. Res. Space Physics*, *117*, A10, [doi:10.1029/2012JA017777](https://doi.org/10.1029/2012JA017777), 2012.
1528. Sinnhuber, M., H. Nieder, and N. Wieters, Energetic Particle Precipitation and the Chemistry of the Mesosphere/Lower Thermosphere. *Surveys in Geophysics*, *33*, 6, [doi:10.1007/s10712-012-9201-3](https://doi.org/10.1007/s10712-012-9201-3), 2012.
1529. Siskind, D. E., D. P. Drob, J. T. Emmert, M. H. Stevens, P. E. Sheese, E. J. Llewellyn, M. E. Hervig, R. Niciejewski, and A. J. Kochenash, Linkages between the cold summer mesopause and thermospheric zonal mean circulation, *Geophys. Res. Lett.*, *39*, L01804, [doi:10.1029/2011GL050196](https://doi.org/10.1029/2011GL050196), 2012.
1530. Sivla, W. T., and Z. Mtumela, Upper mesosphere and lower thermospheric wind response to a severe storm in the equatorial latitudes, *Adv. Appl. Sci. Res.*, *3*(6), 3831-3843, 2012.
1531. Slavin, J. D., P. C. Frisch, H. R. Müller, J. Heerikhuisen, N. V. Pogorelov, W. T. Reach, and G. Zank, Trajectories and distribution of interstellar dust grains in the heliosphere, *Astrophys. J.*, *760*(1), 46, [doi:10.1088/0004-637X/760/1/46](https://doi.org/10.1088/0004-637X/760/1/46), 2012.
1532. Smith, A. K., Global Dynamics of the MLT, *Surv. Geophys.*, *33*, 6, 1177-1230, [doi:10.1007/s10712-012-9196-9](https://doi.org/10.1007/s10712-012-9196-9), 2012.
1533. Smith, S. M., Seasonal variations in the correlation of mesospheric OH temperature and radiance at midlatitudes, *J. Geophys. Res.*, *117*, A10, [doi:10.1029/2012JA017884](https://doi.org/10.1029/2012JA017884), 2012.
1534. Sofieva, V. F., N. Kalakoski, P. T. Verronen, S.-M. Päivärinta, E. Kyrölä, L. Backman, and J. Tamminen, Polar-night O₃, NO₂ and NO₃ distributions during sudden stratospheric warmings in 2003-2008 as seen by GOMOS/Envisat, *Atmos. Chem. Phys.*, *12*, 1051-1066, [doi:10.5194/acp-12-1051-2012](https://doi.org/10.5194/acp-12-1051-2012), 2012.
1535. Sojka, J. J., M. David, R. W. Schunk, and R. A. Heelis, A modeling study of the longitudinal dependence of storm time midlatitude dayside total electron content enhancements, *J. Geophys. Res.*, *117*, 02315, [doi:10.1029/2011JA017000](https://doi.org/10.1029/2011JA017000), 2012.

1536. Solomon, S. C., A. G. Burns, B. A. Emery, M. G. Mlynczak, L. Qian, W. Wang, D. Weimer, and M. Wiltberger, Modeling studies of the impact of high-speed streams and co-rotating interaction regions on the thermosphere-ionosphere, *J. Geophys. Res.*, *117*, A00L11, doi:[10.1029/2011JA017417](https://doi.org/10.1029/2011JA017417), 2012.
1537. Sonnemann, G. R., P. Hartogh, U. Berger, F.-J. Lübken, and M. Grygalashvyly, Anthropogenic effects on the distribution of minor chemical constituents in the mesosphere/lower thermosphere – A model study, *Adv. Space Res.*, *50*, 5, 598-618, doi:[10.1016/j.asr.2012.05.016](https://doi.org/10.1016/j.asr.2012.05.016), 2012.
1538. Sridharan, S., and S. Gurubaran, Special issue of JASTP on structure and dynamics of Mesosphere and Lower Thermosphere region, *J. Atmos. Solar-Terr. Phys.*, *78–79*, 1, doi:[10.1016/j.jastp.2012.02.017](https://doi.org/10.1016/j.jastp.2012.02.017), 2012.
1539. Sridharan, S., S. Sathishkumar, and S. Gurubaran, An unusual reduction in the mesospheric semi-diurnal tidal amplitude over Tirunelveli (8.7° N, 77.8° E) prior to the 2011 minor warming and its relationship with stratospheric ozone, *J. Atmos. Solar-Terr. Phys.*, *89*, 27-32, doi:[10.1016/j.jastp.2012.07.012](https://doi.org/10.1016/j.jastp.2012.07.012), 2012.
1540. Sridharan, S., S. Sathishkumar, and S. Gurubaran, Variabilities of mesospheric tides during sudden stratospheric warming events of 2006 and 2009 and their relationship with ozone and water vapour, *J. Atmos. Solar-Terr. Phys.*, *78–79*, 108-115, doi:[10.1016/j.jastp.2011.03.013](https://doi.org/10.1016/j.jastp.2011.03.013), 2012.
1541. Stevens, M. H., S. Lossow, J. Fiedler, G. Baumgarten, F.-J. Lübken, K. Hallgren, P. Hartogh, C. E. Randall, J. Lumpe, S. M. Bailey, R. Niciejewski, R. R. Meier, J. M. C. Plane, A. J. Kochenash, D. P. Murtagh, and C. R. Englert, Bright polar mesospheric clouds formed by main engine exhaust from the space shuttle’s final launch, *J. Geophys. Res. Atmos.*, *117*, D19206, doi:[10.1029/2012JD017638](https://doi.org/10.1029/2012JD017638), 2012.
1542. Stevens, M. H., L. E. Deaver, M. E. Hervig, J. M. Russell III, D. E. Siskind, P. E. Sheese, E. J. Llewellyn, R. L. Gattinger, J. Höffner, and B. T. Marshall, Validation of upper mesospheric and lower thermospheric temperatures measured by the Solar Occultation for Ice Experiment, *J. Geophys. Res. Atmos.*, *117*, D16, D16304, doi:[10.1029/2012JD017689](https://doi.org/10.1029/2012JD017689), 2012.
1543. Stober, G., C. Jacobi, V. Matthias, P. Hoffmann, and M. Gerding, Neutral air density variations during strong planetary wave activity in the mesopause region derived from meteor radar observations, *J. Atmos. Solar-Terr. Phys.*, *74*, 55-63, doi:[10.1016/j.jastp.2011.10.007](https://doi.org/10.1016/j.jastp.2011.10.007), 2012.
1544. Straub, C., B. Tschanz, K. Hocke, N. Kämpfer, and A. K. Smith, Transport of mesospheric H₂O during and after the stratospheric sudden warming of January 2010: observation and simulation, *Atmos. Chem. Phys.*, *12*, 12, doi:[10.5194/acp-12-5413-2012](https://doi.org/10.5194/acp-12-5413-2012), 2012.
1545. Strickland, D. J., J. S. Evans, and J. Correia, Comment on “Long-term variation in the thermosphere: TIMED/GUVI observations” by Y. Zhang and L. J. Paxton, *J. Geophys. Res.*, *117*, 07302, doi:[10.1029/2011JA017350](https://doi.org/10.1029/2011JA017350), 2012.
1546. Sui, W. B., K. F. Song, and P. J. Zhang, The Design of Space Scanning Mirror Control System Based on Optimal Tracking Controller, *Advanced Materials Research*, *546-547*, 790-794, doi:[10.4028/www.scientific.net/AMR.546-547.790](https://doi.org/10.4028/www.scientific.net/AMR.546-547.790), 2012.
1547. Swartz, W. H., R. S. Stolarski, L. D. Oman, E. L. Fleming, and C. H. Jackman, Middle atmosphere response to different descriptions of the 11-yr solar cycle in spectral irradiance in a chemistry-climate model, *Atmos. Chem. Phys.*, *12*, 13, doi:[10.5194/acp-12-5937-2012](https://doi.org/10.5194/acp-12-5937-2012), 2012.
1548. Tan, B., X. Chu, H.-L. Liu, C. Yamashita, and J. M. Russell III, Zonal-mean global teleconnection from 15 to 110 km derived from SABER and WACCM, *J. Geophys. Res.*, *117*, D10106, doi:[10.1029/2011JD016750](https://doi.org/10.1029/2011JD016750), 2012.
1549. Taori, A., A. Jayaraman, K. Raghunath, and V. Kamalakar, A new method to derive middle atmospheric temperature profiles using a combination of Rayleigh lidar and O-2 airglow

- temperatures measurements, *Ann. Geophys.*, 30, 1, 27-32, [doi:10.5194/angeo-30-27-2012](https://doi.org/10.5194/angeo-30-27-2012), 2012.
1550. Taori, A., V. Kamalakar, and A. Jayaraman, First observation of upper mesospheric semi annual oscillations using ground based airglow measurements from Indian low latitudes, *Adv. Space Res.*, 49, 5, doi:[10.1016/j.asr.2011.12.016](https://doi.org/10.1016/j.asr.2011.12.016), 2012.
1551. Taori, A., V. Kamalakar, K. Raghunath, S. V. B. Rao, and J. M. Russell III, Simultaneous Rayleigh lidar and airglow measurements of middle atmospheric waves over low latitudes in India, *J. Atmos. Solar-Terr. Phys.*, 78–79, 62-69, doi:[10.1016/j.jastp.2011.06.012](https://doi.org/10.1016/j.jastp.2011.06.012), 2012.
1552. Testa, P., J. J. Drake, and E. Landi, Testing EUV/X-ray atomic data for the Solar Dynamics Observatory, *Astrophys. J.*, 745(2), 111, doi:[10.1088/0004-637X/745/2/111](https://doi.org/10.1088/0004-637X/745/2/111), 2012.
1553. Unglaub, C., C. Jacobi, G. Schmidtke, B. Nikutowski, and R. Brunner, EUV-TEC proxy to describe ionospheric variability using satellite-borne solar EUV measurements, *Adv. Radio Sci.*, 10(22), 259-263, doi:[10.5194/ars-10-259-2012](https://doi.org/10.5194/ars-10-259-2012), 2012.
1554. von Savigny, C., I. C. McDade, K.-U. Eichmann, and J. P. Burrows, On the dependence of the OH* Meinel emission altitude on vibrational level: SCIAMACHY observations and model simulations, *Atmos. Chem. Phys.*, 12, 8813-8828, doi:[10.5194/acp-12-8813-2012](https://doi.org/10.5194/acp-12-8813-2012), 2012.
1555. Wan, W., Z. Ren, F. Ding, J. Xiong, L. Liu, B. Ning, B. Zhao, G. Li, and M.-L. Zhang, A simulation study for the couplings between DE3 tide and longitudinal WN4 structure in the thermosphere and ionosphere, *J. Atmos. Solar-Terr. Phys.*, 90-91, 52-60, doi:[10.1016/j.jastp.2012.04.011](https://doi.org/10.1016/j.jastp.2012.04.011), 2012.
1556. Winkler, H., C. von Savigny, J. P. Burrows, J. M. Wissing, M. J. Schwartz, A. Lambert, and M. García-Comas, Impacts of the January 2005 solar particle event on noctilucent clouds and water at the polar summer mesopause, *Atmos. Chem. Phys.*, 12, 12, doi:[10.5194/acp-12-5633-2012](https://doi.org/10.5194/acp-12-5633-2012), 2012.
1557. Woods, T. N., F. G. Eparvier, R. Hock, A. R. Jones, D. Woodraska, D. Judge, L. Didkovsky, J. L. Lean, J. Mariska, H. Warren, D. McMullin, P. Chamberlin, G. Berthiaume, S. Bailey, T. Fuller-Rowell, J. Sojka, W. K. Tobiska, and R. Viereck, Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments, *Sol. Phys.*, 275, 115-143, doi:[10.1007/s11207-009-9487-6](https://doi.org/10.1007/s11207-009-9487-6), 2012.
1558. Wu, Q., D. A. Ortland, B. Foster, and R. G. Roble, Simulation of nonmigrating tide influences on the thermosphere and ionosphere with a TIMED data driven TIEGCM, *J. Atmos. Solar-Terr. Phys.*, 90-91, 61-67, doi:[10.1016/j.jastp.2012.02.009](https://doi.org/10.1016/j.jastp.2012.02.009), 2012.
1559. Xiong, J.-G., W.-X. Wan, B.-Q. Ning, L.-B. Liu, B.-Y. Wu, L.-H. Hu, and T. Xu, Seasonal variations of night mesopause temperature in Beijing observed by SATI4, *Science China-Technological Sciences*, 55, 5, 1295-1301, doi:[10.1007/s11431-012-4779-8](https://doi.org/10.1007/s11431-012-4779-8), 2012.
1560. Xu, J., A. K. Smith, G. Jiang, W. Yuan, and H. Gao, Features of the seasonal variation of the semidiurnal, terdiurnal and 6-h components of ozone heating evaluated from Aura/MLS observations, *Ann. Geophys.*, 30, 2, doi:[10.5194/angeo-30-259-2012](https://doi.org/10.5194/angeo-30-259-2012), 2012.
1561. Xu, J., H. Gao, A. K. Smith, and Y. Zhu, Using TIMED/SABER nightglow observations to investigate hydroxyl emission mechanisms in the mesopause region, *J. Geophys. Res.*, 117, D02301, doi:[10.1029/2011JD016342](https://doi.org/10.1029/2011JD016342), 2012.
1562. Xu, X., A. H. Manson, C. E. Meek, D. M. Riggan, Ch. Jacobi, and J. R. Drummond, Mesospheric wind diurnal tides within the Canadian Middle Atmosphere Model Data Assimilation System, *J. Atmos. Solar-Terr. Phys.*, 74, 24-43, doi:[10.1016/j.jastp.2011.09.003](https://doi.org/10.1016/j.jastp.2011.09.003), 2012.
1563. Yee, J.-H., R. DeMajistre, and F. Morgan, The O₂(b¹Σ) dayglow emissions: application to middle and upper atmosphere remote sensing, *Can. J. Phys.*, 2012, 90(8), 769-784, doi:[10.1139/p2012-073](https://doi.org/10.1139/p2012-073), 2012.

1564. Yiğit, E., A. J. Ridley, and M. B. Moldwin, Importance of capturing heliospheric variability for studies of thermospheric vertical winds, *J. Geophys. Res.*, *117*, A07306, doi:[10.1029/2012JA017596](https://doi.org/10.1029/2012JA017596), 2012.
1565. Yizengaw, E., E. Zesta, M. B. Moldwin, B. Dantie, A. Mebrahtu, C. E. Valladares, and R. F. Pfaff, Longitudinal differences of ionospheric vertical density distribution and equatorial electrodynamics, *J. Geophys. Res.*, *117*, A07312, doi:[10.1029/2011JA017454](https://doi.org/10.1029/2011JA017454), 2012.
1566. Yizengaw, E., Global Longitudinal Dependence Observation of the Neutral Wind and Ionospheric Density Distribution, *International Journal of Geophysics*, *2012*, 342581, doi:[10.1155/2012/342581](https://doi.org/10.1155/2012/342581), 2012.
1567. Yu, L., S. Wang, G. Lin, Y. Qu, and L. Wang, Study on Far Ultraviolet Imaging Spectrometer with Grating Dispersion for Atmosphere Remote Sensing, *Spectroscopy and Spectral Analysis*, *32*, 844-848, doi:10.3964/j.issn.1000-0593(2012)03-0844-05, 2012.
1568. Yuan, T., B. Thuraiajah, C.-Y. She, A. Chandran, R. L. Collins, and D. A. Krueger, Wind and temperature response of midlatitude mesopause region to the 2009 Sudden Stratospheric Warming, *J. Geophys. Res.*, *117*, D09114, doi:[10.1029/2011JD017142](https://doi.org/10.1029/2011JD017142), 2012.
1569. Yuan, T., C.-Y. She, T. D. Kawahara, and D. A. Krueger, Seasonal variations of midlatitude mesospheric Na layer and their tidal period perturbations based on full diurnal cycle Na lidar observations of 2002-2008, *J. Geophys. Res.*, *117*, D11, doi:10.1029/2011JD017031, 2012.
1570. Zhang, D. H., L. Cai, A. Ercha, Y. Q. Hao, and Z. Xiao, Statistical studies on the excess peak flux in soft X-rays and EUV bands from solar flares. *Sol. Phys.*, *280*(1), 183-196, doi:[10.1007/s11207-012-0062-1](https://doi.org/10.1007/s11207-012-0062-1), 2012.
1571. Zhang, X., J. M. Forbes, and M. E. Hagan, Seasonal-latitudinal variation of the eastward-propagating diurnal tide with zonal wavenumber 3 in the MLT: Influences of heating and background wind distribution, *J. Atmos. Solar-Terr. Phys.*, *78-79 Special, SI*, 37-43, doi:[10.1016/j.jastp.2011.03.005](https://doi.org/10.1016/j.jastp.2011.03.005), 2012.
1572. Zhang, Y., and L. J. Paxton, Reply to comment by D.J. Strickland et al. on “Long-term variation in the thermosphere: TIMED/GUVI observations”, *J. Geophys. Res.*, *117*, 07304, doi:[10.1029/2012JA017594](https://doi.org/10.1029/2012JA017594), 2012.
1573. Zhang, Y., J. Xiong, L. Liu, and W. Wan, A global morphology of gravity wave activity in the stratosphere revealed by the 8-year SABER/TIMED data, *J. Geophys. Res.*, *117*, D21101, doi:[10.1029/2012JD017676](https://doi.org/10.1029/2012JD017676), 2012.
1574. Zhu, Y.-J., J.-Y. Xu, W. Yuan, and X. Liu, First experiment of spectrometric observation of hydroxyl emission and rotational temperature in the mesopause in China, *Science China-Technological Sciences*, *55*, *5*, 1312-1318, doi:[10.1007/s11431-012-4824-7](https://doi.org/10.1007/s11431-012-4824-7), 2012.

2011

1575. Acebal, A. O., and J. J. Sojka, A flare sensitive 3 h solar flux radio index for space weather applications, *Space Weather*, *9*(7), doi:[10.1029/2010SW000585](https://doi.org/10.1029/2010SW000585), 2011.
1576. Akmaev, R. A., Whole atmosphere modeling: Connecting terrestrial and space weather, *Rev. Geophys.*, *49*, RG4004, doi:[10.1029/2011RG000364](https://doi.org/10.1029/2011RG000364), 2011.
1577. Alexander, S. P., A. R. Klekociuk, and D. J. Murphy, Rayleigh lidar observations of gravity wave activity in the winter upper stratosphere and lower mesosphere above Davis, Antarctica (69°S, 78°E), *J. Geophys. Res.*, *116*, D13, doi:[10.1029/2010JD015164](https://doi.org/10.1029/2010JD015164), 2011.
1578. Atanassov, A. M., Comparison of calculation models for determination of the mesopause temperature using SATI images, *Adv. Space Res.*, *47*, *11*, 1990-1998, doi:10.1016/j.asr.2011.01.029, 2011.
1579. Babu, V. S., K. K. Kumar, S. R. John, K. V. Subrahmanyam, and G. Ramkumar, Meteor radar observations of short-term variability of quasi 2 day waves and their interaction with tides and

- planetary waves in the mesosphere-lower thermosphere region over Thumba (8.5° N, 77° E), *J. Geophys. Res.*, *116*, D16121, doi:[10.1029/2010JD015390](https://doi.org/10.1029/2010JD015390), 2011.
1580. Bageston, J. V., C. M. Wrasse, P. P. Batista, R. E. Hibbins, D. C. Fritts, D. Gobbi, and V. F. Andrioli, Observation of a mesospheric front in a thermal-doppler duct over King George Island, Antarctica, *Atmos. Chem. Phys.*, *11*, 23, 12137-12147, doi:[10.5194/acp-11-12137-2011](https://doi.org/10.5194/acp-11-12137-2011), 2011.
1581. Bageston, J. V., C. M. Wrasse, R. E. Hibbins, P. P. Batista, D. Gobbi, H. Takahashi, V. F. Andrioli, J. Fechine, and C. M. Denardini, Case study of a mesospheric wall event over Ferraz station, Antarctica (62° S), *Ann. Geophys.*, *29*, 1, 209-219, doi:[10.5194/angeo-29-209-2011](https://doi.org/10.5194/angeo-29-209-2011), 2011.
1582. Bagiya, M. S., K. N. Iyer, H. P. Joshi, S. V. Thampi, T. Tsugawa, S. Ravindran, and B. M. Pathan, Low-latitude ionospheric-thermospheric response to storm time electrodynamical coupling between high and low latitudes, *J. Geophys. Res.*, *116*, 01303, doi:[10.1029/2010JA015845](https://doi.org/10.1029/2010JA015845), 2011.
1583. Bailey, J., and M. Gruntman, Experimental study of exospheric hydrogen atom distributions by Lyman-alpha detectors on the TWINS mission, *J. Geophys. Res. Space Physics*, *116*(A9), doi:[10.1029/2011JA016531](https://doi.org/10.1029/2011JA016531), 2011.
1584. Beig, G., Long-term trends in the temperature of the mesosphere/lower thermosphere region: 2. Solar response, *J. Geophys. Res.*, *116*, doi:[10.1029/2011JA016766](https://doi.org/10.1029/2011JA016766), 2011.
1585. Beig, G., Long-term trends in the temperature of the mesosphere/lower thermosphere region: 1. Anthropogenic influences, *J. Geophys. Res. Space Physics*, *116*, A2, A00H11, doi:[10.1029/2011JA016646](https://doi.org/10.1029/2011JA016646), 2011.
1586. Bermejo-Pantaleón, D., B. Funke, M. López-Puertas, M. García-Comas, G. P. Stiller, T. von Clarmann, A. Linden, U. Grabowski, M. Höpfner, M. Kiefer, N. Glatthor, S. Kellmann, and G. Lu, Global observations of thermospheric temperature and nitric oxide from MIPAS spectra at 5.3 μm , *J. Geophys. Res. Space Physics*, *116*, A10, doi:[10.1029/2011JA016752](https://doi.org/10.1029/2011JA016752), 2011.
1587. Bilitza, D., L.-A. McKinnell, B. Reinisch, and T. Fuller-Rowell, The international reference ionosphere today and in the future, *J. Geod.*, *85*, 12, doi:[10.1007/s00190-010-0427-x](https://doi.org/10.1007/s00190-010-0427-x), 2011.
1588. Brahmanandam, P. S., Y.-H. Chu, K.-H. Wu, H.-P. Hsia, C.-L. Su, and G. Uma, Vertical and longitudinal electron density structures of equatorial E- and F-regions, *Ann. Geophys.*, *29*, 81-89, doi:[10.5194/angeo-29-81-2011](https://doi.org/10.5194/angeo-29-81-2011), 2011.
1589. Chang, L. C., J.-Y. Liu, and S. E. Palo, Propagating planetary wave coupling in SABER MLT temperatures and GPS TEC during the 2005/2006 austral summer, *J. Geophys. Res.*, *116*, A10324, doi:[10.1029/2011JA016687](https://doi.org/10.1029/2011JA016687), 2011.
1590. Chau, J. L., L. P. Goncharenko, B. G. Fejer, and H.-L. Liu, Equatorial and Low Latitude Ionospheric Effects During Sudden Stratospheric Warming Events, *Space Sci. Rev.*, *168*, 1-4, doi:[10.1007/s11214-011-9797-5](https://doi.org/10.1007/s11214-011-9797-5), 2011.
1591. Chen, Y., L. Liu, and W. Wan, Does the F10.7 index correctly describe solar EUV flux during the deep solar minimum of 2007–2009?, *J. Geophys. Res. Space Physics*, *116*(A4), doi:[10.1029/2010JA016301](https://doi.org/10.1029/2010JA016301), 2011.
1592. Chen, Y., Y. Han, Q. Liu, P. Van Delst, and F. Weng, Community Radiative Transfer Model for Stratospheric Sounding Unit, *J. Atmos. Oceanic Technol.*, *28*, 6, doi:[10.1175/2010JTECHA1509.1](https://doi.org/10.1175/2010JTECHA1509.1), 2011.
1593. Correia, E., P. Kaufmann, J. P. Raulin, F. Bertoni, and H. R. Gavilan, Analysis of daytime ionosphere behavior between 2004 and 2008 in Antarctica, *J. Atmos. Solar-Terr. Phys.*, *73*(16), 2272-2278, doi:[10.1016/j.jastp.2011.06.008](https://doi.org/10.1016/j.jastp.2011.06.008), 2011.
1594. Coy, L., S. D. Eckermann, K. W. Hoppel, and F. Sassi, Mesospheric Precursors to the Major Stratospheric Sudden Warming of 2009: Validation and Dynamical Attribution Using a

- Ground-to-Edge-of-Space Data Assimilation System, *J. Adv. Model. Earth Sy.*, 3, 4, M10002, doi:10.1029/2011MS000067, 2011.
1595. Cui, J., M. Galand, A. J. Coates, T. L. Zhang, and I. C. F. Müller-Wodarg, Suprathermal electron spectra in the Venus ionosphere, *J. Geophys. Res. Space Physics*, 116(A4), doi:[10.1029/2010JA016153](https://doi.org/10.1029/2010JA016153), 2011.
1596. Cumnock, J. A., G. Le, S. Imber, J. A. Slavin, Y. Zhang, and L. J. Paxton, Space Technology 5 multipoint observations of transpolar arc-related field-aligned currents, *J. Geophys. Res.*, 116, 02218, doi:[10.1029/2010JA015912](https://doi.org/10.1029/2010JA015912), 2011.
1597. Dalin, P., N. Pertsev, A. Dubietis, M. Zalcik, A. Zadorozhny, M. Connors, I. Schofield, T. McEwan, I. McEachran, S. Frandsen, O. Hansen, H. Andersen, V. Sukhodoev, V. Perminov, R. Balčiunas, and V. Romejko, A comparison between ground-based observations of noctilucent clouds and Aura satellite data, *J. Atmos. Solar-Terr. Phys.*, 73, 14–15, 2097-2109, doi:10.1016/j.jastp.2011.01.020, 2011.
1598. Das, S. K., A. Taori, and A. Jayaraman, On the role of dust storms in triggering atmospheric gravity waves observed in the middle atmosphere, *Ann. Geophys.*, 29, 9, doi:[10.5194/angeo-29-1647-2011](https://doi.org/10.5194/angeo-29-1647-2011), 2011.
1599. Das, U., and C. J. Pan, The temperature structure of the mesosphere over Taiwan and comparison with other latitudes, *J. Geophys. Res.*, 116, D00P06, doi:[10.1029/2010JD015034](https://doi.org/10.1029/2010JD015034), 2011.
1600. Day, K. A., R. E. Hibbins, and N. J. Mitchell, Aura MLS, *Atmos. Chem. Phys.*, 11, 9, doi:[10.5194/acp-11-4149-2011](https://doi.org/10.5194/acp-11-4149-2011), 2011.
1601. De Wachter, E., K. Hocke, T. Flury, D. Scheiben, N. Kämpfer, S. Ka, and J. J. Oh, Signatures of the Sudden Stratospheric Warming events of January-February 2008 in Seoul, S. Korea, *Adv. Space Res.*, 48, 10, doi:[10.1016/j.asr.2011.08.002](https://doi.org/10.1016/j.asr.2011.08.002), 2011.
1602. Del Zanna, G., and V. Andretta, The EUV spectrum of the Sun: SOHO CDS NIS irradiances from 1998 until 2010, *Astron. & Astrophys.*, 528, A139, doi:[10.1051/0004-6361/201016106](https://doi.org/10.1051/0004-6361/201016106), 2011.
1603. Dhomse, S. S., M. P. Chipperfield, W. Feng, and J. D. Haigh, Solar response in tropical stratospheric ozone: a 3-D chemical transport model study using ERA reanalyses, *Atmos. Chem. Phys.*, 11, 24, doi:[10.5194/acp-11-12773-2011](https://doi.org/10.5194/acp-11-12773-2011), 2011.
1604. Doe, R. A., and S. Watchorn, “Climate-monitoring CubeSat mission (CM2): a project for global mesopause temperature sensing”, *Proc. SPIE 8153*, Earth Observing Systems XVI, 81530Q, 13 September 2011, San Diego, 8153, doi:[10.1117/12.894460](https://doi.org/10.1117/12.894460), 2011.
1605. Dyrud, L. P., J. Urbina, J. T. Fentzke, E. Hibbit, and J. Hinrichs, Global variation of meteor trail plasma turbulence, *Ann. Geophys.*, 29, 12, doi:[10.5194/angeo-29-2277-2011](https://doi.org/10.5194/angeo-29-2277-2011), 2011.
1606. Emery, B. A., I. G. Richardson, D. S. Evans, F. J. Rich, and G. R. Wilson, Solar rotational periodicities and the semiannual variation in the solar wind, radiation belt, and aurora, *Sol. Phys.*, 274(1-2), 399-425, doi:[10.1007/s11207-011-9758-x](https://doi.org/10.1007/s11207-011-9758-x), 2011.
1607. Ern, M., P. Preusse, J. C. Gille, and C. L. Hoppelwhite, M. G. Mlynczak, J. M. Russell III, and M. Riese, Implications for atmospheric dynamics derived from global observations of gravity wave momentum flux in stratosphere and mesosphere, *J. Geophys. Res.*, 116, D19107, doi:[10.1029/2011JD015821](https://doi.org/10.1029/2011JD015821), 2011.
1608. Espy, P. J., S. O. Fernández, P. Forkman, D. Murtagh, and J. Stegman, The role of the QBO in the inter-hemispheric coupling of summer mesospheric temperatures, *Atmos. Chem. Phys.*, 11, 2, doi:[10.5194/acp-11-495-2011](https://doi.org/10.5194/acp-11-495-2011), 2011.
1609. Fontenla, J. M., J. Harder, W. Livingston, M. Snow, and T. Woods, High-resolution solar spectral irradiance from extreme ultraviolet to far infrared, *J. Geophys. Res.*, 116, D15, 20108, doi:[10.1029/2011JD016032](https://doi.org/10.1029/2011JD016032), 2011.

1610. Forbes, J. M., X. Zhang, S. Bruinsma, and J. Oberheide, Sun-synchronous thermal tides in exosphere temperature from CHAMP and GRACE accelerometer measurements, *J. Geophys. Res.*, *116*, A11309, doi:[10.1029/2011JA016855](https://doi.org/10.1029/2011JA016855), 2011.
1611. French, W. J. R., and A. R. Klekociuk, Long-term trends in Antarctic winter hydroxyl temperatures, *J. Geophys. Res. Atmos.*, *116*, D4, D00P09, doi:[10.1029/2011JD015731](https://doi.org/10.1029/2011JD015731), 2011.
1612. Galand, M., L. Moore, I. Mueller-Wodarg, M. Mendillo, and S. Miller, Response of Saturn's auroral ionosphere to electron precipitation: Electron density, electron temperature, and electrical conductivity, *J. Geophys. Res. Space Physics*, *116*, A09306, doi:[10.1029/2010JA016412](https://doi.org/10.1029/2010JA016412), 2011.
1613. Galav, P., S. Sharma, and R. Pandey, Study of simultaneous penetration of electric fields and variation of total electron content in the day and night sectors during the geomagnetic storm of 23 May 2002, *J. Geophys. Res.*, *116*, 12324, doi:[10.1029/2011JA017002](https://doi.org/10.1029/2011JA017002), 2011.
1614. Gao, H., J. Y. Xu, G. M. Chen, W. Yuan, and A. B. Beletsky, Global distributions of OH and O₂ (1.27 μm) nightglow emissions observed by TIMED satellite, *Sci. China Tech. Sci.*, *54*, 447–456, doi:[10.1007/s11431-010-4236-5](https://doi.org/10.1007/s11431-010-4236-5), 2011.
1615. Gao, H., J. Y. Xu, W. Ward, and A. K. Smith, Temporal evolution of nightglow emission responses to SSW events observed by TIMED/SABER, *J. Geophys. Res.*, *116*, D19110, doi:[10.1029/2011JD015936](https://doi.org/10.1029/2011JD015936), 2011.
1616. Gardner, C. S., X. Chu, P. J. Espy, J. M. C. Plane, D. R. Marsh, and D. Janches, Seasonal variations of the mesospheric Fe layer at Rothera, Antarctica (67.5°S, 68.0°W), *J. Geophys. Res. Atmos.*, *116*, D2, D02304, doi:[10.1029/2010JD014655](https://doi.org/10.1029/2010JD014655), 2011.
1617. Gattinger, R. L., W. F. J. Evans, D. A. Degenstein, and E. J. Llewellyn, A spectral model of the FeO orange bands with a comparison between a laboratory spectrum and a night airglow spectrum observed by OSIRIS on Odin, *Can. J. Phys.*, *89*, 2, doi:[10.1139/P11-003](https://doi.org/10.1139/P11-003), 2011.
1618. Gavriilyeva, G. A., P. P. Ammosov, and I. I. Koltovskoi, Comparison of Ground-Based and Satellite Measurements of Atmospheric Temperature in the Mesopause Region in High-Latitude Eastern Siberia, *Geomagn. Aeron.*, *51*, 4, 557-563, doi:[10.1134/S0016793211030066](https://doi.org/10.1134/S0016793211030066), 2011.
1619. Gérard, J. C., J. Gustin, B. Hubert, G. R. Gladstone, and L. W. Esposito, Measurements of the helium 584Å airglow during the Cassini flyby of Venus, *Planetary & Space Science*, *59*(13), 1524-1528, doi:[10.1016/j.pss.2011.06.018](https://doi.org/10.1016/j.pss.2011.06.018), 2011.
1620. Gordley, L. L., and B. T. Marshall, Doppler wind and temperature sounder: new approach using gas filter radiometry, *J. Appl. Remote Sens.*, *5*, 1, 053570, doi:[10.1117/1.3666048](https://doi.org/10.1117/1.3666048), 2011.
1621. Guharay, A., and R. Sekar, Seasonal characteristics of gravity waves in the middle atmosphere over Gadanki using Rayleigh lidar observations, *J. Atmos. Solar-Terr. Phys.*, *73*, 13, 1762-1770, doi:[10.1016/j.jastp.2011.04.013](https://doi.org/10.1016/j.jastp.2011.04.013), 2011.
1622. Guharay, A., and S. J. Franke, Characteristics of the semidiurnal tide in the MLT over Maui (20.75°N, 156.43°W) with meteor radar observations, *J. Atmos. Solar-Terr. Phys.*, *73*, 5–6, 678-685, doi:[10.1016/j.jastp.2011.01.025](https://doi.org/10.1016/j.jastp.2011.01.025), 2011.
1623. Guharay, A., P. Pant, B. Pande, and B. K. Pandev, Observations of the ultra-fast Kelvin wave in the tropical mesosphere during equinox, *Int. J. Remote Sens.*, *32*, 3043-3053, doi:[10.1080/01431161.2010.541522](https://doi.org/10.1080/01431161.2010.541522), 2011.
1624. Hartogh, P., C. Jarchow, G. R. Sonnemann, and M. Grygalashvyly, Ozone distribution in the middle latitude mesosphere as derived from microwave measurements at Lindau (51.66°N, 10.13°E), *J. Geophys. Res. Atmos.*, *116*, D4, D04305, doi:[10.1029/2010JD014393](https://doi.org/10.1029/2010JD014393), 2011.
1625. He, M., L. Liu, W. Wan, and Y. Wei, Strong evidence for couplings between the ionospheric wave-4 structure and atmospheric tides, *Geophys. Res. Lett.*, *38*, 14101, doi:[10.1029/2011GL047855](https://doi.org/10.1029/2011GL047855), 2011.

1626. Hocking, W. K., A review of Mesosphere–Stratosphere–Troposphere (MST) radar developments and studies, circa 1997–2008, *J. Atmos. Solar-Terr. Phys.*, 73, 9, 848-882, doi:[10.1016/j.jastp.2010.12.009](https://doi.org/10.1016/j.jastp.2010.12.009), 2011.
1627. Hocking, W. K., and G. K. Kumar, Long term behaviour of the MLT quasi-7-day wave at two radar-sites at northern polar latitudes, *J. Atmos. Solar-Terr. Phys.*, 73, 13, 1616-1628, doi:[10.1016/j.jastp.2011.02.004](https://doi.org/10.1016/j.jastp.2011.02.004), 2011.
1628. Hsu, M. L., C. H. Lin, R. R. Hsu, J. Y. Liu, L. J. Paxton, H. T. Su, and C. H. Chen, The O I 135.6 nm airglow observations of the midlatitude summer nighttime anomaly by TIMED/GUVI, *J. Geophys. Res.*, 116, 07313, doi:[10.1029/2010JA016150](https://doi.org/10.1029/2010JA016150), 2011.
1629. Hu, X., Z.-A. Yan, S.-Y. Guo, Y.-Q. Cheng, and J.-C. Gong, Sodium fluorescence Doppler lidar to measure atmospheric temperature in the mesopause region, *Chinese Science Bulletin*, 56, 4-5, 417-423, doi:[10.1007/s11434-010-4306-x](https://doi.org/10.1007/s11434-010-4306-x), 2011.
1630. Hultgren, K., H. Körnich, J. Gumbel, M. Gerding, P. Hoffmann, S. Lossow, and L. Megner, What caused the exceptional mid-latitudinal Noctilucent Cloud event in July 2009?, *J. Atmos. Solar-Terr. Phys.*, 73, 14–15, 2125-2131, doi:[10.1016/j.jastp.2010.12.008](https://doi.org/10.1016/j.jastp.2010.12.008), 2011.
1631. Hunt, L. A., M. G. Mlynczak, B. T. Marshall, C. J. Mertens, J. C. Mast, R. E. Thompson, L. L. Gordley, and J. M. Russell III, Infrared radiation in the thermosphere at the onset of solar cycle 24, *Geophys. Res. Lett.*, 38, L15802, doi:[10.1029/2011GL048061](https://doi.org/10.1029/2011GL048061), 2011.
1632. Iimura, H., D. C. Fritts, M. Tsutsumi, T. Nakamura, P. Hoffmann, and W. Singer, Long-term observations of the wind field in the Antarctic and Arctic mesosphere and lower-thermosphere at conjugate latitudes, *J. Geophys. Res. Atmos.*, 116, D20, D20112, doi:[10.1029/2011JD016003](https://doi.org/10.1029/2011JD016003), 2011.
1633. Jackman, C. H., D. R. Marsh, F. M. Vitt, R. G. Roble, C. E. Randall, P. F. Bernath, B. Funke, M. López-Puertas, S. Versick, G. P. Stiller, A. J. Tylka, and E. L. Fleming, Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005, *Atmos. Chem. Phys.*, 11, 13, doi:[10.5194/acp-11-6153-2011](https://doi.org/10.5194/acp-11-6153-2011), 2011.
1634. Jacobi, C., P. Hoffmann, M. Placke, and G. Stober, Some anomalies of mesosphere/lower thermosphere parameters during the recent solar minimum, *Adv. Radio Sci.*, 9, doi:[10.5194/ars-9-343-2011](https://doi.org/10.5194/ars-9-343-2011), 2011.
1635. Jiang, G.-Y., J.-Y. Xu, D.-B. Shi, F. Wei, and L.-Z. Wang, Observations of the first meteorological rocket of the Meridian Space Weather Monitoring Project, *Chinese Science Bulletin*, 56, 20, 2131-2137, doi:[10.1007/s11434-011-4537-5](https://doi.org/10.1007/s11434-011-4537-5), 2011.
1636. Jin, H., Y. Miyoshi, H. Fujiwara, H. Shinagawa, K. Terada, N. Terada, M. Ishii, Y. Otsuka, and A. Saito, Vertical connection from the tropospheric activities to the ionospheric longitudinal structure simulated by a new Earth's whole atmosphere-ionosphere coupled model, *J. Geophys. Res.*, 116, A1, doi:[10.1029/2010JA015925](https://doi.org/10.1029/2010JA015925), 2011.
1637. John, S. R., and K. K. Kumar, TIMED/SABER observations of global cold point mesopause variability at diurnal and planetary wave scales, *J. Geophys. Res.*, 116, A06314, doi:[10.1029/2010JA015945](https://doi.org/10.1029/2010JA015945), 2011.
1638. John, S. R., K. K. Kumar, K. V. Subrahmanyam, G. Manju, and Q. Wu, Meteor radar measurements of MLT winds near the equatorial electro jet region over Thumba (8.5° N, 77° E): comparison with TIDI observations, *Ann. Geophys.*, 29, 1209–1214, doi:[10.5194/angeo-29-1209-2011](https://doi.org/10.5194/angeo-29-1209-2011), 2011.
1639. Johnson, H., J. C. Raymond, N. A. Murphy, S. Giordano, Y. K. Ko, A. Ciaravella, and R. Suleiman, Transition region emission from solar flares during the impulsive phase, *Astrophys. J.*, 735(2), 70, doi:[10.1088/0004-637X/735/2/70](https://doi.org/10.1088/0004-637X/735/2/70), 2011.
1640. Kakinami, Y., C. H. Lin, J. Y. Liu, M. Kamogawa, S. Watanabe, and M. Parrot, Daytime longitudinal structures of electron density and temperature in the topside ionosphere observed

- by the Hinotori and DEMETER satellites, *J. Geophys. Res. Space Physics*, 116, A5, A05316, doi:[10.1029/2010JA015632](https://doi.org/10.1029/2010JA015632), 2011.
1641. Kalogerakis, K. S., G. P. Smith, and R. A. Copeland, Collisional removal of OH(X2Π), *J. Geophys. Res. Atmos.*, 116, D20, D20307, doi:[10.1029/2011JD015734](https://doi.org/10.1029/2011JD015734), 2011.
1642. Karia, S. P., and K. N. Pathak, GPS based TEC measurements for a period August 2008-December 2009 near the northern crest of Indian equatorial ionospheric anomaly region, *J. Earth Syst. Sci.*, 120(5), 851-858, doi:[10.1007/s12040-011-0114-1](https://doi.org/10.1007/s12040-011-0114-1), 2011.
1643. Keckhut, P., W. J. Randel, C. Claud, T. Leblanc, W. Steinbrecht, B. M. Funatsu, H. Bencherif, I. S. McDermid, A. Hauchecorne, C. Long, R. Lin, and G. Baumgarten, An evaluation of uncertainties in monitoring middle atmosphere temperatures with the ground-based lidar network in support of space observations, *J. Atmos. Solar-Terr. Phys.*, 73, 627-642, doi:[10.1016/j.jastp.2011.01.003](https://doi.org/10.1016/j.jastp.2011.01.003), 2011.
1644. Kil, H., and L. J. Paxton, Causal Link of Longitudinal Plasma Density Structure to Vertical Plasma Drift and Atmospheric Tides – A Review, M. A. Abdu, and D. Pancheva (Eds.), *Aeronomy of the Earth's Atmosphere and Ionosphere*, 349-361, New York: Springer, doi:[10.1007/978-94-007-0326-1_26](https://doi.org/10.1007/978-94-007-0326-1_26), 2011.
1645. Kil, H., and L. J. Paxton, The origin of the nonmigrating tidal structure in the column number density ratio of atomic oxygen to molecular nitrogen, *Geophys. Res. Lett.*, 38(19), doi:[10.1029/2011GL049432](https://doi.org/10.1029/2011GL049432), 2011.
1646. Kil, H., L. J. Paxton, K. Kim, S. Park, Y. Zhang, and S. Oh, Temporal and spatial components in the storm-time ionospheric disturbances, *J. Geophys. Res.*, 116, 11315, doi:[10.1029/2011JA016750](https://doi.org/10.1029/2011JA016750), 2011.
1647. Kil, H., Y.-S. Kwak, L. J. Paxton, R. R. Meier, and Y. Zhang, O and N₂ disturbances in the F region during the 20 November 2003 storm seen from TIMED/GUVI, *J. Geophys. Res.*, 116, A02314, doi:[10.1029/2010JA016227](https://doi.org/10.1029/2010JA016227), 2011.
1648. Kil, H., Y.-S. Kwak, S.-J. Oh, E. R. Talaat, L. J. Paxton, and Y. Zhang, The source of the longitudinal asymmetry in the ionospheric tidal structure, *J. Geophys. Res.*, 116, 09328, doi:[10.1029/2011JA016781](https://doi.org/10.1029/2011JA016781), 2011.
1649. Klimenko, M. V., V. V. Klimenko, K. G. Ratovsky, and L. P. Goncharenko, Ionospheric effects caused by the series of geomagnetic storms of September 9-14, 2005, *Geomagn. Aeron.*, 51, 364-376, doi:[10.1134/S0016793211030108](https://doi.org/10.1134/S0016793211030108), 2011.
1650. Krishna, M. S., S. Kaur, and V. Singh, Heating of ambient electrons in thermosphere under varying solar activity conditions, *Indian J. Radio & Space Physics*, 40(3), 130-136, 2011.
1651. Krivova, N. A., S. K. Solanki, and Y. C. Unruh, Towards a long-term record of solar total and spectral irradiance, *J. Atmos. Solar-Terr. Phys.*, 73(2), 223-234, doi:[10.1016/j.jastp.2009.11.013](https://doi.org/10.1016/j.jastp.2009.11.013), 2011.
1652. Kumar, K. K., D. Swain, S. R. John, and G. Ramkumar, Simultaneous observations of SAO and QBO in winds, temperature and ozone in the tropical middle atmosphere over Thumba (8.5° N, 77° E), *Climate Dynamics*, 37, 9-10, 1961-1973, doi:[10.1007/s00382-010-0991-z](https://doi.org/10.1007/s00382-010-0991-z), 2011.
1653. Kumar, K. K., K. V. Subrahmanyam, and S. R. John, New insights into the stratospheric and mesosphere-lower thermospheric ozone response to the abrupt changes in solar forcing, *Ann. Geophys.*, 29, 6, 1093-1099, doi:[10.5194/angeo-29-1093-2011](https://doi.org/10.5194/angeo-29-1093-2011), 2011.
1654. Laštovička, J., S. C. Solomon, and L. Qian, Trends in the Neutral and Ionized Upper Atmosphere, *Space Sci. Rev.*, 168, 113-145, doi:[10.1007/s11214-011-9799-3](https://doi.org/10.1007/s11214-011-9799-3), 2011.
1655. Lean, J. L., J. T. Emmert, J. M. Picone, and R. R. Meier, Global and regional trends in ionospheric total electron content, *J. Geophys. Res. Space Physics*, 116(A2), doi:[10.1029/2010JA016378](https://doi.org/10.1029/2010JA016378), 2011.

1656. Lean, J. L., R. R. Meier, J. M. Picone, and J. T. Emmert, Ionospheric total electron content: Global and hemispheric climatology, *J. Geophys. Res. Space Physics*, 116(A10), doi:[10.1029/2011JA016567](https://doi.org/10.1029/2011JA016567), 2011.
1657. Lean, J. L., T. N. Woods, F. G. Eparvier, R. R. Meier, D. J. Strickland, J. T. Correia, and J. S. Evans, Solar extreme ultraviolet irradiance: Present, past and future, *J. Geophys. Res.*, 116, A01102, doi:[10.1029/2010JA015901](https://doi.org/10.1029/2010JA015901), 2011.
1658. Lee, J. N., D. L. Wu, G. L. Manney, M. J. Schwartz, A. Lambert, N. J. Livesey, K. R. Minschwaner, H. C. Pumphrey, and W. G. Read, Aura Microwave Limb Sounder observations of the polar middle atmosphere: Dynamics and transport of CO and H₂O, *J. Geophys. Res.*, 116, D5, doi:[10.1029/2010JD014608](https://doi.org/10.1029/2010JD014608), 2011.
1659. Lee, W. K., H. Kil, Y.-S. Kwak, Q. Wu, S. Cho, and J. Park, 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, *J. Geophys. Res.*, 116, A2, doi:[10.1029/2010JA015815](https://doi.org/10.1029/2010JA015815), 2011.
1660. Lei, J., J. P. Thayer, G. Lu, A. G. Burns, W. Wang, E. K. Sutton, and B. A. Emery, Rapid recovery of thermosphere density during the October 2003 geomagnetic storms, *J. Geophys. Res.*, 116, 03306, doi:[10.1029/2010JA016164](https://doi.org/10.1029/2010JA016164), 2011.
1661. Li, Z., L. Liu, W. Wan, and B. Ning, Neutral wind-driven gradient drift instability in the low-latitude daytime E region, *J. Geophys. Res.*, 116, A03314, doi:[10.1029/2010JA016166](https://doi.org/10.1029/2010JA016166), 2011.
1662. Li, Z., A. Z. Liu, X. Lu, G. R. Swenson, and S. J. Franke, Gravity wave characteristics from OH airglow imager over Maui, *J. Geophys. Res. Atmos.*, 116, D22, D22115, doi:[10.1029/2011JD015870](https://doi.org/10.1029/2011JD015870), 2011.
1663. Liou, K., Y. Zhang, P. T. Newell, L. J. Paxton, and J. F. Carbary, TIMED/GUVI observation of solar illumination effect on auroral energy deposition, *J. Geophys. Res.*, 116, 09305, doi:[10.1029/2010JA016402](https://doi.org/10.1029/2010JA016402), 2011.
1664. Lockwood, M., Was UV spectral solar irradiance lower during the recent low sunspot minimum?, *J. Geophys. Res. Atmos.*, 116(D16), doi:[10.1029/2010JD014746](https://doi.org/10.1029/2010JD014746), 2011.
1665. Lu, G., W. H. Li, J. Raeder, Y. Deng, F. Rich, D. Ober, Y. L. Zhang, L. J. Paxton, J. M. Ruohoniemi, M. Hairston, and P. Newell, Reversed two-cell convection in the Northern and Southern hemispheres during northward interplanetary magnetic field, *J. Geophys. Res.*, 116, 12237, doi:[10.1029/2011JA017043](https://doi.org/10.1029/2011JA017043), 2011.
1666. Lu, X., A. Z. Liu, J. Oberheide, Q. Wu, T. Li, Z. Li, G. R. Swenson, and S. J. Franke, Seasonal variability of the diurnal tide in the mesosphere and lower thermosphere over Maui, Hawaii (20.7°N, 156.3°W), *J. Geophys. Res.*, 116, D17103, doi:[10.1029/2011JD015599](https://doi.org/10.1029/2011JD015599), 2011.
1667. Luan, X., W. Wang, A. Burns, S. Solomon, Y. Zhang, L. J. Paxton, and J. Xu, Longitudinal variations of nighttime electron auroral precipitation in both the Northern and Southern hemispheres from the TIMED global ultraviolet imager, *J. Geophys. Res.*, 116, A3, doi:[10.1029/2010JA016051](https://doi.org/10.1029/2010JA016051), 2011.
1668. Madonna, F., P. Burlizzi, A. Giunta, I. Biniotoglou, M. R. Perrone, and G. Pappalardo, Validation of COSMIC water vapor profiles using Raman lidar measurements performed at CIAO., 8182, doi:[10.1117/12.898117](https://doi.org/10.1117/12.898117), 2011.
1669. Marshall, B. T., L. E. Deaver, R. E. Thompson, L. L. Gordley, M. J. McHugh, M. E. Hervig, and J. M. Russell III, Retrieval of temperature and pressure using broadband solar occultation: SOFIE approach and results, *Atmospheric Measurement Techniques*, 4, 5, doi:[10.5194/amt-4-893-2011](https://doi.org/10.5194/amt-4-893-2011), 2011.
1670. Marshall, R. A., S. Smith, J. Baumgardner, and S. Chakrabarti, Continuous ground-based multiwavelength airglow measurements, *J. Geophys. Res.*, 116, A11, doi:[10.1029/2011JA016901](https://doi.org/10.1029/2011JA016901), 2011.

1671. Maruyama, T., Modified solar flux index for upper atmospheric applications. *J. Geophys. Res. Space Physics*, 116(A8), doi:[10.1029/2010JA016322](https://doi.org/10.1029/2010JA016322), 2011.
1672. Mayr, H. G., J. G. Mengel, K. L. Chan, and F. T. Huang, Middle Atmosphere Dynamics with Gravity Wave Interactions in the Numerical Spectral Model: Tides and Planetary Waves, *J. Atmos. Solar-Terr. Phys.*, **73**, 711-730, doi:[10.1016/j.jastp.2011.01.019](https://doi.org/10.1016/j.jastp.2011.01.019), 2011.
1673. McDonald, A. J., R. E. Hibbins, and M. J. Jarvis, Properties of the quasi 16 day wave derived from EOS MLS observations, *J. Geophys. Res.*, 116, D6, doi:[10.1029/2010JD014719](https://doi.org/10.1029/2010JD014719), 2011.
1674. Meek, C. E., A. H. Manson, and J. R. Drummond, Test of diurnal and semidiurnal tidal analysis of temperatures from SABER-like sampling of a realistic global model, *CMAM-DAS, Ann. Geophys.*, **29**, 5, 723-730, doi:[10.5194/angeo-29-723-2011](https://doi.org/10.5194/angeo-29-723-2011), 2011.
1675. Meier, R. R., M. H. Stevens, J. M. C. Plane, J. T. Emmert, G. Crowley, I. Azeem, L. J. Paxton, and A. B. Christensen, A study of space shuttle plumes in the lower thermosphere, *J. Geophys. Res.*, 116, A12322, doi:[10.1029/2011JA016987](https://doi.org/10.1029/2011JA016987), 2011.
1676. Merkel, A. W., J. W. Harder, D. R. Marsh, A. K. Smith, J. M. Fontenla, and T. N. Woods, The impact of solar spectral irradiance variability on middle atmospheric ozone, *Geophys. Res. Lett.*, **38**, L13802, doi:[10.1029/2011GL047561](https://doi.org/10.1029/2011GL047561), 2011.
1677. Mikhailov, A. V., and L. Perrone, On the mechanism of seasonal and solar cycle NmF2 variations: A quantitative estimate of the main parameters contribution using incoherent scatter radar observations, *J. Geophys. Res. Space Physics*, 116(A3), doi:[10.1029/2010JA016122](https://doi.org/10.1029/2010JA016122), 2011.
1678. Morrill, J. S., L. Floyd, and D. McMullin, The Solar Ultraviolet Spectrum Estimated Using the Mg II Index and Ca II K Disk Activity, *Sol. Phys.*, **269**, 2, 253-267, doi:[10.1007/s11207-011-9708-7](https://doi.org/10.1007/s11207-011-9708-7), 2011.
1679. Morrill, J. S., L. Floyd, R. Ulrich, S. Weaver, and D. McMullin, Estimating the Mg II Index from 1961 Through 1981 Using Ca II K Images from the Mt Wilson Observatory, *Sol. Phys.*, **270**, 1, 109-124, doi:[10.1007/s11207-011-9724-7](https://doi.org/10.1007/s11207-011-9724-7), 2011.
1680. Morris, R. J., A. R. Klekociuk, and D. A. Holdsworth, First observations of Southern Hemisphere polar mesosphere winter echoes including conjugate occurrences at ~69°S latitude, *Geophys. Res. Lett.*, **38**, 3, doi:[10.1029/2010GL046298](https://doi.org/10.1029/2010GL046298), 2011.
1681. Mukhtarov, P., and D. Pancheva, Global ionospheric response to nonmigrating DE3 and DE2 tides forced from below, *J. Geophys. Res.*, **116**, A05323, doi:[10.1029/2010JA016099](https://doi.org/10.1029/2010JA016099), 2011.
1682. Newnham, D. A., P. J. Espy, M. A. Clilverd, C. J. Rodger, A. Seppälä, D. J. Maxfield, P. Hartogh, K. Holmén, and R. B. Horne, Direct observations of nitric oxide produced by energetic electron precipitation into the Antarctic middle atmosphere, *Geophys. Res. Lett.*, **38**, L20104, doi:[10.1029/2011GL048666](https://doi.org/10.1029/2011GL048666), 2011.
1683. Niciejewski, R. J., W. Skinner, M. Cooper, A. Marshall, R. R. Meier, M. H. Stevens, D. Ortland, and Q. Wu, Verification of large-scale rapid transport in the lower thermosphere: Tracking the exhaust plume of STS-107 from launch to the Antarctic, *J. Geophys. Res. Space Physics*, **116**, A05302, doi:[10.1029/2010JA016277](https://doi.org/10.1029/2010JA016277), 2011.
1684. Nielsen, K., G. E. Nedoluha, A. Chandran, L. C. Chang, J. Barker-Tvedtnes, M. J. Taylor, N. J. Mitchell, A. Lambert, M. J. Schwartz, and J. M. Russell III, On the origin of mid-latitude mesospheric clouds: The July 2009 cloud outbreak, *J. Atmos. Solar-Terr. Phys.*, **73**, 14–15, 2118-2124, doi:[10.1016/j.jastp.2010.10.015](https://doi.org/10.1016/j.jastp.2010.10.015), 2011.
1685. Nikutowski, B., R. Brunner, C. Erhardt, and G. Schmidtke, Distinct EUV minimum of the solar irradiance (16–40nm) observed by SolACES spectrometers onboard the International Space Station (ISS) in August/September 2009, *Adv. Space Res.*, **48**(5), 899-903, doi:[10.1016/j.asr.2011.05.002](https://doi.org/10.1016/j.asr.2011.05.002), 2011.

1686. Niranjankumar, K., T. K. Ramkumar, and M. Krishnaiah, Vertical and lateral propagation characteristics of intraseasonal oscillation from the tropical lower troposphere to upper mesosphere, *J. Geophys. Res.*, 116, D21112, doi:[10.1029/2010JD015283](https://doi.org/10.1029/2010JD015283), 2011.
1687. Oberheide, J., J. M. Forbes, X. Zhang, and S. L. Bruinsma, Climatology of upward propagating diurnal and semidiurnal tides in the thermosphere, *J. Geophys. Res.*, 116, A11306, doi:[10.1029/2011JA016784](https://doi.org/10.1029/2011JA016784), 2011.
1688. Oberheide, J., J. M. Forbes, X. Zhang, and S. L. Bruinsma, Wave-driven variability in the ionosphere-thermosphere-mesosphere system from TIMED observations: What contributes to the “wave 4”?, *J. Geophys. Res. Space Physics*, 116, A01306, doi:[10.1029/2010JA015911](https://doi.org/10.1029/2010JA015911), 2011.
1689. Offermann, D., J. Wintel, C. Kalicinsky, P. Knieling, R. Koppmann, and W. Steinbrecht, Long-term development of short-period gravity waves in middle Europe, *J. Geophys. Res. Atmos.*, 116, D4, D00P07, doi:[10.1029/2010JD015544](https://doi.org/10.1029/2010JD015544), 2011.
1690. Offermann, D., P. Hoffmann, P. Knieling, R. Koppmann, J. Oberheide, D. M. Riggin, V. M. Tunbridge, and W. Steinbrecht, Quasi 2 day waves in the summer mesosphere: Triple structure of amplitudes and long-term development, *J. Geophys. Res. Atmos.*, 116, D4, D00P02, doi:[10.1029/2010JD015051](https://doi.org/10.1029/2010JD015051), 2011.
1691. Pancheva, D., and P. Mukhtarov, Climatology of Diurnal and Semidiurnal Tides seen in SABER/TIMED Temperatures over Bulgaria, *Comptes Rendus de l'Academie bulgare des Sciences*, 64, 4, 591-598, 2011.
1692. Pancheva, D., and P. Mukhtarov, Stratospheric warmings: The atmosphere–ionosphere coupling paradigm, *J. Atmos. Solar-Terr. Phys.*, 73, 13, 1697-1702, doi:[10.1016/j.jastp.2011.03.006](https://doi.org/10.1016/j.jastp.2011.03.006), 2011.
1693. Pautet, P.-D., J. Stegman, C. M. Wrasse, K. Nielsen, H. Takahashi, M. J. Taylor, K. W. Hoppel, and S. D. Eckermann, Analysis of gravity waves structures visible in noctilucent cloud images, *J. Atmos. Solar-Terr. Phys.*, 73, 14–15, 2082-2090, doi:[10.1016/j.jastp.2010.06.001](https://doi.org/10.1016/j.jastp.2010.06.001), 2011.
1694. Pawlowski, D. J., and A. J. Ridley, The effects of different solar flare characteristics on the global thermosphere, *J. Atmos. Solar-Terr. Phys.*, 73(13), 1840-1848, doi:[10.1016/j.jastp.2011.04.004](https://doi.org/10.1016/j.jastp.2011.04.004), 2011.
1695. Petelina, S. V., and A. Y. Zasetsky, Temperature of mesospheric ice particles simultaneously retrieved from 850 cm⁻¹ libration and 3200 cm⁻¹ vibration band spectra measured by ACE-FTS, *J. Geophys. Res. Atmos.*, 116, D3, D03304, doi:[10.1029/2010JD015050](https://doi.org/10.1029/2010JD015050), 2011.
1696. Placke, M., G. Stober, and C. Jacobi, Gravity wave momentum fluxes in the MLT—Part I: Seasonal variation at Collm (51.3°N, 13.0°E), *J. Atmos. Solar-Terr. Phys.*, 73, 9, 904-910, doi:[10.1016/j.jastp.2010.07.012](https://doi.org/10.1016/j.jastp.2010.07.012), 2011.
1697. Portnyagin, Y. I., E. G. Merzlyakov, T. V. Solov-eva, A. I. Pogorel-tsev, E. V. Suvorova, P. Mukhtarov, and D. Pancheva, Height-latitude structure of the vertical component of the migrating semidiurnal tide in the upper mesosphere and lower thermosphere region (80-100 km), *Izvestiya, Atmospheric and Oceanic Physics*, 47, 1, doi:[10.1134/S0001433811010117](https://doi.org/10.1134/S0001433811010117), 2011.
1698. Qian, L., A. G. Burns, P. C. Chamberlin, and S. C. Solomon, Variability of the thermosphere and ionosphere response to solar flares, *J. Geophys. Res.*, 116, A10309, doi:[10.1029/2011JA016777](https://doi.org/10.1029/2011JA016777), 2011.
1699. Qian, L., J. Laštovička, R. G. Roble, and S. C. Solomon, Progress in observations and simulations of global change in the upper atmosphere, *J. Geophys. Res.*, 116, A00H03, doi:[10.1029/2010JA016317](https://doi.org/10.1029/2010JA016317), 2011.

1700. Rajesh, P. K., J. Y. Liu, M. L. Hsu, C. H. Lin, K. I. Oyama, and L. J. Paxton, Ionospheric electron content and NmF2 from nighttime OI 135.6 nm intensity, *J. Geophys. Res.*, *116*, A02313, doi:[10.1029/2010JA015686](https://doi.org/10.1029/2010JA015686), 2011.
1701. Ren, S., S. Polavarapu, S. R. Beagley, Y. Nezlin, and Y. J. Rochon, The impact of gravity wave drag on mesospheric analyses of the 2006 stratospheric major warming, *J. Geophys. Res.*, *116*, D19116, doi:[10.1029/2011JD015943](https://doi.org/10.1029/2011JD015943), 2011.
1702. Ren, Z., W. Wan, L. Liu, and J. Xiong, Simulated longitudinal variations in the lower thermospheric nitric oxide induced by nonmigrating tides, *J. Geophys. Res.*, *116*, A04301, doi:[10.1029/2010JA016131](https://doi.org/10.1029/2010JA016131), 2011.
1703. Ren, Z., W. Wan, L. Liu, Y. Chen, and H. Le, Equinoctial asymmetry of ionospheric vertical plasma drifts and its effect on F-region plasma density, *J. Geophys. Res. Space Physics*, *116*, A2, doi:[10.1029/2010JA016081](https://doi.org/10.1029/2010JA016081), 2011.
1704. Rezac, L., A. A. Kutepov, A. G. Feofilov, and J. M. Russell III, On limb radiance calculations and convergence of relaxation type retrieval algorithms, *Appl. Opt.*, *50*, 28, doi:10.1364/AO.50.005499, 2011.
1705. Richards, P. G., Reexamination of ionospheric photochemistry, *J. Geophys. Res. Space Physics*, *116*(A8), doi:[10.1029/2011JA016613](https://doi.org/10.1029/2011JA016613), 2011.
1706. Salmi, S.-M., P. T. Verronen, L. Thölix, E. Kyrölä, L. Backman, A. Y. Karpechko, and A. Seppälä, Mesosphere-to-stratosphere descent of odd nitrogen in February-March 2009 after sudden stratospheric warming, *Atmos. Chem. Phys.*, *11*, 10, doi:[10.5194/acp-11-4645-2011](https://doi.org/10.5194/acp-11-4645-2011), 2011.
1707. Schmitter, E. D., Remote sensing planetary waves in the midlatitude mesosphere using low frequency transmitter signals, *Ann. Geophys.*, *29*, 7, doi:[10.5194/angeo-29-1287-2011](https://doi.org/10.5194/angeo-29-1287-2011), 2011.
1708. Sharma, S., P. Galav, N. Dashora, and R. Pandey, Longitudinal study of the ionospheric response to the geomagnetic storm of 15 May 2005 and manifestation of TADs, *Ann. Geophys.*, *29*, 1063-1070, doi:[10.5194/angeo-29-1063-2011](https://doi.org/10.5194/angeo-29-1063-2011), 2011.
1709. Sheese, P. E., E. J. Llewellyn, R. L. Gattinger, A. E. Bourassa, D. A. Degenstein, N. D. Lloyd, and I. C. McDade, Mesopause temperatures during the polar mesospheric cloud season, *Geophys. Res. Lett.*, *38*, L11803, doi:[10.1029/2011GL047437](https://doi.org/10.1029/2011GL047437), 2011.
1710. Sheese, P. E., I. C. McDade, R. L. Gattinger, and E. J. Llewellyn, Atomic oxygen densities retrieved from Optical Spectrograph and Infrared Imaging System observations of O2 A-band airglow emission in the mesosphere and lower thermosphere, *J. Geophys. Res.*, *116*, D1, doi:10.1029/2010JD014640, 2011.
1711. Shutts, G. J., and S. B. Vosper, Stratospheric gravity waves revealed in NWP model forecasts, *Q. J. R. Meteorol. Soc.*, *137*, 655, doi:[10.1002/qj.763](https://doi.org/10.1002/qj.763), 2011.
1712. Sinnhuber, M., S. Kazeminejad, and J. M. Wissing, Interannual variation of NOx from the lower thermosphere to the upper stratosphere in the years 1991–2005, *J. Geophys. Res. Space Physics*, *116*, A2, A02312, doi:10.1029/2010JA015825, 2011.
1713. Siskind, D. E., M. H. Stevens, M. Hervig, F. Sassi, K. Hoppel, C. R. Englert, and A. J. Kochenash, Consequences of recent Southern Hemisphere winter variability on polar mesospheric clouds, *J. Atmos. Solar-Terr. Phys.*, *73*, 13, doi:10.1016/j.jastp.2011.06.014, 2011.
1714. Sivakumar, V., P. V. Prasanth, P. Kishore, H. Bencherif, and P. Keckhut, Rayleigh LIDAR and satellite (HALOE, SABER, CHAMP and COSMIC) measurements of stratosphere-mesosphere temperature over a southern sub-tropical site, Reunion (20.8° S; 55.5° E): climatology and comparison study, *Ann. Geophys.*, *29*, 4, 649-662, doi:[10.5194/angeo-29-649-2011](https://doi.org/10.5194/angeo-29-649-2011), 2011.
1715. Smith, A. K., Interactions Between the Lower, Middle and Upper Atmosphere, *Space Sci. Rev.*, *168*, 1-4, doi:10.1007/s11214-011-9791-y, 2011.

1716. Sofieva, V. F., N. Kalakoski, P. T. Verronen, S.-M. Salmi, E. Kyrölä, L. Backman, and J. Tamminen, Changes in chemical composition of the middle atmosphere caused by sudden stratospheric warmings as seen by GOMOS/Envisat, *Atmos. Chem. Phys. Discuss.*, 11, 8, doi:10.5194/acpd-11-23317-2011, 2011.
1717. Solomon, S. C., L. Qian, L. V. Didkovsky, R. A. Viereck, and T. N. Woods, Causes of low thermospheric density during the 2007-2009 solar minimum, *J. Geophys. Res.*, 116, A00H07, doi:10.1029/2011JA016508, 2011.
1718. Stern, S. A., J. W. Parker, P. D. Feldman, H. A. Weaver, A. Steffl, M. F. A'Hearn, L. Feaga, E. Birath, A. Graps, J.-L. Bertaux, D. C. Slater, N. Cunningham, M. Versteeg, and J. R. Scherrer, Ultraviolet discoveries at asteroid (21) Lutetia by the Rosetta Alice ultraviolet spectrograph, *Astron. J.*, 141(6), 199, doi:10.1088/0004-6256/141/6/199, 2011.
1719. Stevens, M. H., J. Gustin, J. M. Ajello, J. S. Evans, R. R. Meier, A. J. Kochenash, A. W. Stephan, A. I. F. Stewart, L. W. Esposito, W. E. McClintock, G. Holsclaw, E. T. Bradley, B. R. Lewis, and A. N. Heays, The production of Titan's ultraviolet nitrogen airglow, *J. Geophys. Res. Space Physics*, 116, A05304, doi:10.1029/2010JA016284, 2011.
1720. Sumod, S. G., T. K. Pant, C. Vineeth, and M. M. Hossain, A new insight into the vertical neutral-ion coupling between the mesopause and equatorial ionosphere F-region, *Ann. Geophys.*, 29, 2, doi:10.5194/angeo-29-421-2011, 2011.
1721. Sumod, S. G., T. K. Pant, C. Vineeth, M. M. Hossain, and M. Antonita, Response of the tropical mesopause to the longest annular solar eclipse of this millennium, *J. Geophys. Res.*, 116, A6, doi:10.1029/2010JA016326, 2011.
1722. Talaat, E. R., and H. G. Mayr, Model of Semidiurnal Pseudo Tide in the High-latitude Upper Mesosphere, *J. Atmos. Solar-Terr. Phys.*, 73(16), 2386-2391, doi:10.1016/j.jastp.2011.08.008, 2011.
1723. Taori, A., and N. Parihar, Simultaneous bi-station measurements of mesospheric waves from Indian low latitudes, *Adv. Space Res.*, 48, 2, doi:10.1016/j.asr.2011.03.026, 2011.
1724. Taori, A., N. Dashora, K. Raghunath, J. M. Russell III, and M. G. Mlynczak, Simultaneous mesosphere-thermosphere-ionosphere parameter measurements over Gadanki (13.5°N, 79.2°E): First results, *J. Geophys. Res.*, 116, A7, doi:10.1029/2010JA016154, 2011.
1725. Thayer, J. P., K. Greer, and V. L. Harvey, Front-like behavior in the Arctic wintertime upper stratosphere and lower mesosphere, *J. Geophys. Res.*, 116, D3, doi:10.1029/2010JD014278, 2011.
1726. Thompson, B. J., S. E. Gibson, P. C. Schroeder, D. F. Webb, C. N. Arge, M. M. Bisi, G. de Toma, B. A. Emery, A. B. Galvin, D. A. Haber, B. V. Jackson, E. A. Jensen, R. J. Leamon, J. Lei, P. K. M., M. L. Mays, P. S. McIntosh, G. J. D. Petrie, S. P. Plunkett, L. Qian, P. Riley, S. T. Suess, M. Tokumaru, B. T. Welsch, and T. N. Woods, A Snapshot of the Sun Near Solar Minimum: The Whole Heliosphere Interval, *Sol. Phys.*, 274, 29-56, doi:10.1007/s11207-011-9891-6, 2011.
1727. Tomasi, C., B. Petkov, B. M. Dinelli, E. Castelli, E. Arnone, and E. Papandrea, Monthly mean vertical profiles of pressure, temperature and water vapour volume mixing ratio in the polar stratosphere and low mesosphere from a multi-year set of MIPAS-ENVISAT limb-scanning measurements, *J. Atmos. Solar-Terr. Phys.*, 73, 16, 2237-2271, doi:10.1016/j.jastp.2011.06.018, 2011.
1728. Tunbridge, V. M., D. J. Sandford, and N. J. Mitchell, Zonal wave numbers of the summertime 2 day planetary wave observed in the mesosphere by EOS Aura Microwave Limb Sounder, *J. Geophys. Res.*, 116, D11103, doi:10.1029/2010JD014567, 2011.
1729. Unglaub, C., C. Jacobi, G. Schmidtke, B. Nikutowski, and R. Brunner, EUV-TEC proxy to describe ionospheric variability using satellite-borne solar EUV measurements: First results, *Adv. Space Res.*, 47(9), 1578-1584, doi:10.1016/j.asr.2010.12.014, 2011.

1730. Van Zele, M. A., and A. Meza, The geomagnetic solar flare effect identified by SIIG as an indicator of a solar flare observed by GOES satellites, *Adv. Space Res.*, 48, 826-836, doi:[10.1016/j.asr.2011.04.037](https://doi.org/10.1016/j.asr.2011.04.037), 2011.
1731. Verronen, P. T., C. J. Rodger, M. A. Clilverd, and S. Wang, First evidence of mesospheric hydroxyl response to electron precipitation from the radiation belts, *J. Geophys. Res. Atmos.*, 116, D7, D07307, doi:[10.1029/2010JD014965](https://doi.org/10.1029/2010JD014965), 2011.
1732. Vineeth, C., T. K. Pant, and R. Sridharan, Daytime upper mesospheric energetics over a tropical station, Trivandrum (8.5°N, 77°E): An investigation using the multiwavelength dayglow photometry, *J. Geophys. Res.*, 116, A1, doi:[10.1029/2010JA015633](https://doi.org/10.1029/2010JA015633), 2011.
1733. von Engel, A., C. Accadia, J. Ackermann, C. Marquardt, Y. Andres, D. Lazaro, and K. D. Klaes, Potentials for radio occultation applications during inter-satellite calibration periods, *Adv. Space Res.*, 47, 10, 1731-1742, doi:[10.1016/j.asr.2010.05.001](https://doi.org/10.1016/j.asr.2010.05.001), 2011.
1734. Wintoft, P., The variability of solar EUV: A multiscale comparison between sunspot number, 10.7 cm flux, LASP MgII index, and SOHO/SEM EUV flux, *J. Atmos. Solar-Terr. Phys.*, 73(13), 1708-1714, doi:[10.1016/j.jastp.2011.03.009](https://doi.org/10.1016/j.jastp.2011.03.009), 2011.
1735. Wu, Q., D. A. Ortland, S. C. Solomon, W. R. Skinner, and R. J. Niciejewski, Global distribution, seasonal, and inter-annual variations of mesospheric semidiurnal tide observed by TIMED TIDI, *J. Atmos. Solar-Terr. Phys.*, 73, 2482-2502, doi:[10.1016/j.jastp.2011.08.007](https://doi.org/10.1016/j.jastp.2011.08.007), 2011.
1736. Xiong, B., W. Wan, L. Liu, P. Withers, B. Zhao, B. Ning, Y. Wei, H. Le, Z. Ren, Y. Chen, M. He1, and J. Liu, Ionospheric response to the X-class solar flare on 7 September 2005, *J. Geophys. Res. Space Physics*, 116, A11317, doi:[10.1029/2011JA016961](https://doi.org/10.1029/2011JA016961), 2011.
1737. Xu, J., W. Wang, J. Lei, E. K. Sutton, and G. Chen, The effect of periodic variations of thermospheric density on CHAMP and GRACE orbits, *J. Geophys. Res. Space Physics*, 116(A2), doi:[10.1029/2010JA015995](https://doi.org/10.1029/2010JA015995), 2011.
1738. Xu, X., A. H. Manson, C. E. Meek, C. Jacobi, C. M. Hall, and J. R. Drummond, Mesospheric wind semidiurnal tides within the Canadian Middle Atmosphere Model Data Assimilation System, *J. Geophys. Res. Atmos.*, 116, D17102, doi:[10.1029/2011JD015966](https://doi.org/10.1029/2011JD015966), 2011.
1739. Xu, X., A. H. Manson, C. E. Meek, C. Jacobi, C. M. Hall, and J. R. Drummond, Verification of the mesospheric winds within the Canadian Middle Atmosphere Model Data Assimilation System using radar measurements, *J. Geophys. Res.*, 116, D16, doi:[10.1029/2011JD015589](https://doi.org/10.1029/2011JD015589), 2011.
1740. Yankovsky, V. A., R. Manuilova, A. Babaev, A. Feofilovbc, and A. Kutepov, Model of electronic-vibrational kinetics of the O-3 and O-2 photolysis products in the middle atmosphere: applications to water vapour retrievals from SABER/TIMED 6.3 μ m radiance measurements, *Int. J. Remote Sens.*, 32, 11 Special, SI, 3065-3078, doi:[10.1080/01431161.2010.541506](https://doi.org/10.1080/01431161.2010.541506), 2011.
1741. Zhang, Y., and L. J. Paxton, Long-term variation in the thermosphere: TIMED/GUVI observations, *J. Geophys. Res.*, 116, doi:[10.1029/2010JA016337](https://doi.org/10.1029/2010JA016337), 2011.
1742. Zhang, Y., J.-G. Xiong, and W.-X. Wan, Analysis on the global morphology of middle atmospheric gravity waves, *Chinese J Geophys-Ch*, 54, 7, 1711-1717, doi:[10.3969/j.issn.0001-5733.2011.07.003](https://doi.org/10.3969/j.issn.0001-5733.2011.07.003), 2011.
1743. Zhang, Y., L. J. Paxton, and H. Kil, Nightside polar rain aurora boundary gap and its applications for magnetotail reconnection, *J. Geophys. Res.*, 116, 11214, doi:[10.1029/2011JA016884](https://doi.org/10.1029/2011JA016884), 2011.
1744. Zoennchen, J. H., J. J. Bailey, U. Nass, M. Gruntman, H. J. Fahr, and J. Goldstein, The TWINS exospheric neutral H-density distribution under solar minimum conditions, *Ann. Geophys.*, 29, 2211-2217, doi:[10.5194/angeo-29-2211-2011](https://doi.org/10.5194/angeo-29-2211-2011), 2011.

2010

1745. A'Hearn, M. F., L. M. Feaga, J.-L. Bertaux, P. D. Feldman, J. Wm. Parker, D. C. Slater, A. J. Steffl, S. A. Stern, H. Throop, M. Versteeg, H. A. Weaver, and H. U. Keller, The far-ultraviolet albedo of Šteins measured with Rosetta-ALICE, *Planetary & Space Science*, 58(9), 1088-1096, doi:[10.1016/j.pss.2010.03.005](https://doi.org/10.1016/j.pss.2010.03.005), 2010.
1746. Alexander, M. J., and D. A. Ortland, Equatorial waves in High Resolution Dynamics Limb Sounder (HIRDLS) data, *J. Geophys. Res.*, 115, D24111, doi:[10.1029/2010JD014782](https://doi.org/10.1029/2010JD014782), 2010.
1747. Alexander, S. P., and M. G. Shepherd, Planetary wave activity in the polar lower stratosphere, *Atmos. Chem. Phys.*, 10, 707-718, doi:[10.5194/acp-10-707-2010](https://doi.org/10.5194/acp-10-707-2010), 2010.
1748. Avakyan, S. V., L. A. Baranova, N. B. Leonov, E. P. Savinov, and N. A. Voronin, Space Solar Patrol data and changes in weather and climate, including global warming, *Measurement Science & Technology*, 21(8), 085301, doi:[10.1088/0957-0233/21/8/085301](https://doi.org/10.1088/0957-0233/21/8/085301), 2010.
1749. Azeem, S. M. I., E. R. Talaat, G. G. Sivjee, and J.-H. Yee, Mesosphere and lower thermosphere temperature anomalies during the 2002 Antarctic stratospheric warming event, *Ann. Geophys.*, 28, 1, doi:[10.5194/angeo-28-267-2010](https://doi.org/10.5194/angeo-28-267-2010), 2010.
1750. Barth, C. A., Joule heating and nitric oxide in the thermosphere, 2, *J. Geophys. Res.*, 115, A10305, doi:[10.1029/2010JA015565](https://doi.org/10.1029/2010JA015565), 2010.
1751. Beagley, S. R., C. D. Boone, V. I. Fomichev, J. J. Jin, K. Semeniuk, J. C. McConnell, and P. F. Bernath, First multi-year occultation observations of CO₂ in the MLT by ACE satellite: observations and analysis using the extended CMAM, *Atmos. Chem. Phys.*, 10, 3, 1133-1153, doi:[10.5194/acp-10-1133-2010](https://doi.org/10.5194/acp-10-1133-2010), 2010.
1752. Bertaux, J. L., E. Kyrölä, D. Fussen, A. Hauchecorne, F. Dalaudier, V. Sofieva, J. Tamminen, F. Vanhellemont, O. F. d'Andon, G. Barrot, A. Mangin, L. Blanot, J. C. Lebrun, K. Pérot, T. Fehr, L. Saavedra, G. W. Leppelmeier, and R. Fraisse, Global ozone monitoring by occultation of stars: an overview of GOMOS measurements on ENVISAT, *Atmos. Chem. Phys.*, 10, 24, doi:[10.5194/acp-10-12091-2010](https://doi.org/10.5194/acp-10-12091-2010), 2010.
1753. Bhattacharya, Y., and A. J. Gerrard, Wintertime mesopause region vertical winds from Resolute Bay, *J. Geophys. Res.*, 115, doi:[10.1029/2010JD014113](https://doi.org/10.1029/2010JD014113), 2010.
1754. Borries, C., and P. Hoffmann, Characteristics of F2-layer planetary wave-type oscillations in northern middle and high latitudes during 2002 to 2008, *J. Geophys. Res.*, 115, A00G10, doi:[10.1029/2010JA015456](https://doi.org/10.1029/2010JA015456), 2010.
1755. Bradley, E. T., J. E. Colwell, L. W. Esposito, J. N. Cuzzi, H. Tollerud, and L. Chambers, Far ultraviolet spectral properties of Saturn's rings from Cassini UVIS, *Icarus*, 206(2), 458-466, doi:[10.1016/j.icarus.2009.12.021](https://doi.org/10.1016/j.icarus.2009.12.021), 2010.
1756. Bruinsma, S. L., and J. M. Forbes, Anomalous behavior of the thermosphere during solar minimum observed by CHAMP and GRACE, *J. Geophys. Res.*, 115, A11, doi:[10.1029/2010JA015605](https://doi.org/10.1029/2010JA015605), 2010.
1757. Cairo, F., J. P. Pommereau, K. S. Law, H. Schlager, A. Garnier, F. Fierli, M. Ern, M. Streibel, S. Arabas, S. Borrmann, J. J. Berthelier, C. Blom, T. Christensen, F. D'Amato, G. Di Donfrancesco, T. Deshler, A. Diedhiou, G. Durrý, O. Engelsen, F. Goutail, N. R. P. Harris, E. R. T. Kerstel, S. Khaykin, P. Konopka, A. Kylling, N. Larsen, T. Lebel, X. Liu, A. R. MacKenzie, J. Nielsen, A. Oulanowski, D. J. Parker, J. Pelon, J. Polcher, J. A. Pyle, F. Ravegnani, E. D. Rivière, A. D. Robinson, T. Röckmann, C. Schiller, F. Simões, L. Stefanutti, F. Stroh, L. Some, P. Siegmund, N. Sitnikov, J. P. Vernier, C. M. Volk, C. Voigt, M. von Hobe, S. Viciani, and V. Yushkov, An introduction to the SCOUT-AMMA stratospheric aircraft, balloons and sondes campaign in West Africa, August 2006: rationale and roadmap, *Atmos. Chem. Phys.*, 10, 2237-2256, doi:[10.5194/acp-10-2237-2010](https://doi.org/10.5194/acp-10-2237-2010), 2010.
1758. Chandran, A., D. W. Rusch, A. W. Merkel, S. E. Palo, G. E. Thomas, M. J. Taylor, S. M. Bailey, and J. M. Russell III, Polar mesospheric cloud structures observed from the cloud

- imaging and particle size experiment on the Aeronomy of Ice in the Mesosphere spacecraft: Atmospheric gravity waves as drivers for longitudinal variability in polar mesospheric cloud occurrence, *J. Geophys. Res.*, *115*, D13102, doi:[10.1029/2009JD013185](https://doi.org/10.1029/2009JD013185), 2010.
1759. Comberiate, J. M., and L. J. Paxton, Coordinated UV Imaging of Equatorial Plasma Bubbles Using TIMED/GUVI and DMSP/SSUSI, *Space Weather*, *8*, S10002, doi:[10.1029/2009SW000546](https://doi.org/10.1029/2009SW000546), 2010.
1760. Comberiate, J. M., and L. J. Paxton, Global Ultraviolet Imager Equatorial equatorial Plasma plasma Bubble bubble Imaging imaging and Climatologyclimatology, 2002-2007, *J. Geophys. Res.*, *115*, A4, doi:[10.1029/2009JA014707](https://doi.org/10.1029/2009JA014707), 2010.
1761. Damiani, A., M. Storini, M. L. Santee, and S. Wang, Variability of the nighttime OH layer and mesospheric ozone at high latitudes during northern winter: influence of meteorology, *Atmos. Chem. Phys.*, *10*, 21, doi:[10.5194/acp-10-10291-2010](https://doi.org/10.5194/acp-10-10291-2010), 2010.
1762. Das, S. S., K. K. Kumar, S. B. Veena, and G. Ramkumar, Simultaneous observation of quasi 16 day wave in the mesospheric winds and temperature over low latitudes with the SKiYMET radar, *Radio Sci.*, *45*, 6, doi:[10.1029/2009RS004300](https://doi.org/10.1029/2009RS004300), 2010.
1763. Day, K. A., and N. J. Mitchell, The 16-day wave in the Arctic and Antarctic mesosphere and lower thermosphere, *Atmos. Chem. Phys.*, *10*, 3, doi:[10.5194/acp-10-1461-2010](https://doi.org/10.5194/acp-10-1461-2010), 2010.
1764. Day, K. A., and N. J. Mitchell, The 5-day wave in the Arctic and Antarctic mesosphere and lower thermosphere, *J. Geophys. Res.*, *115*, D1, doi:[10.1029/2009JD012545](https://doi.org/10.1029/2009JD012545), 2010.
1765. de la Torre, A., P. Llamedo, P. Alexander, T. Schmidt, and J. Wickert, Estimated errors in a global gravity wave climatology from GPS radio occultation temperature profiles, *Adv. Space Res.*, *46*, 2, 174-179, doi:[10.1016/j.asr.2010.02.033](https://doi.org/10.1016/j.asr.2010.02.033), 2010.
1766. de Wit, T. D., and J. Watermann, Solar forcing of the terrestrial atmosphere, *Comptes Rendus Geoscience*, *342*(4), 259-272, doi:[10.1016/j.crte.2009.06.001](https://doi.org/10.1016/j.crte.2009.06.001), 2010.
1767. Del Zanna, G., V. Andretta, P. C. Chamberlin, T. N. Woods, and W. T. Thompson, The EUV spectrum of the Sun: The EUV spectrum of the Sun: long-term variations of the SOHO CDS NIS spectral responsivities, *Astron. & Astrophys.*, *518*, doi:[10.1051/0004-6361/200912904](https://doi.org/10.1051/0004-6361/200912904), 2010.
1768. DeWarf, L. E., K. M. Datin, and E. F. Guinan, X-Ray, FUV, and UV observations of α Centauri B: determination of long-term magnetic activity cycle and rotation period, *Astrophys. J.*, *722*(1), 343, doi:[10.1088/0004-637X/722/1/343](https://doi.org/10.1088/0004-637X/722/1/343), 2010.
1769. Dikty, S., H. Schmidt, M. Weber, C. von Savigny, and M. G. Mlynczak, Daytime ozone and temperature variations in the mesosphere: a comparison between SABER observations and HAMMONIA model, *Atmos. Chem. Phys.*, *10*, 17, 8331-8339, doi:[10.5194/acp-10-8331-2010](https://doi.org/10.5194/acp-10-8331-2010), 2010.
1770. Dyrland, M. E., C. M. Hall, F. J. Mulligan, M. Tsutsumi, and F. Sigernes, Improved estimates for neutral air temperatures at 90 km and 78°N using satellite and meteor radar data, *Radio Sci.*, *45*, 4, doi:[10.1029/2009RS004344](https://doi.org/10.1029/2009RS004344), 2010.
1771. Dyrland, M. E., F. J. Mulligan, C. M. Hall, F. Sigernes, M. Tsutsumi, and C. S. Deehr, Response of OH airglow temperatures to neutral air dynamics at 78°N, 16°E during the anomalous 2003–2004 winter, *J. Geophys. Res.*, *115*, D07103, doi:[10.1029/2009JD012726](https://doi.org/10.1029/2009JD012726), 2010.
1772. Emmert, J. T., J. L. Lean, and J. M. Picone, Record-low thermospheric density during the 2008 solar minimum, *Geophys. Res. Lett.*, *37*, 12, doi:[10.1029/2010GL043671](https://doi.org/10.1029/2010GL043671), 2010.
1773. England, S. L., T. J. Immel, J. D. Huba, M. E. Hagan, A. Maute, and R. DeMajistre, 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, *J. Geophys. Res.*, *115*, 05308, doi:[10.1029/2009JA014894](https://doi.org/10.1029/2009JA014894), 2010.

1774. Englert, C. R., M. H. Stevens, D. E. Siskind, J. M. Harlander, and F. L. Roesler, Spatial Heterodyne Imager for Mesospheric Radicals on STPSat-1, *J. Geophys. Res.*, *115*, D20306, doi:[10.1029/2010JD014398](https://doi.org/10.1029/2010JD014398), 2010.
1775. Evans, J. S., D. J. Strickland, W. K. Woo, D. R. McMullin, S. P. Plunkett, R. A. Viereck, S. M. Hill, T. N. Woods, and F. G. Eparvier, Early Observations by the GOES-13 Solar Extreme Ultraviolet Sensor (EUVS), *Sol. Phys.*, *262*, 1, doi:[10.1007/s11207-009-9491-x](https://doi.org/10.1007/s11207-009-9491-x), 2010.
1776. Feldman, U., C. M. Brown, J. F. Seely, I. E. Dammasch, E. Landi, G. A. Doschek, J. Colgan, J. Abdallah Jr., C. J. Fontes, and M. E. Sherrill, A new approach for deriving the solar irradiance from nonflaring solar upper atmosphere plasmas at $2 \times 10^4 \leq T \leq 2 \times 10^7$ K, *J. Geophys. Res. Space Physics*, *115*, A03101, doi:[10.1029/2008JA013926](https://doi.org/10.1029/2008JA013926), 2010.
1777. Feofilov, A. G., and S. V. Petelina, Relation between mesospheric ice clouds, temperature, and water vapor determined from Odin/OSIRIS and TIMED/SABER data, *J. Geophys. Res.*, *115*, D18305, doi:[10.1029/2009JD013619](https://doi.org/10.1029/2009JD013619), 2010.
1778. Fernandez, J. R., C. J. Mertens, D. Bilitza, X. Xuc, J. M. Russell III, and M. G. Mlynczak, Feasibility of developing an ionospheric E-region electron density storm model using TIMED/SABER measurements, *Adv. Space Res.*, *46*, 8, 1070-1077, doi:[10.1016/j.asr.2010.06.008](https://doi.org/10.1016/j.asr.2010.06.008), 2010.
1779. Fernandez, R. P., M. Kaufmann, and B. M. Toselli, Effects of the inclusion of bending-to-stretching transitions in the non-LTE modeling of ozone vibrational temperatures, *J. Atmos. Solar-Terr. Phys.*, *72*, 11–12, 890-899, doi:[10.1016/j.jastp.2010.05.005](https://doi.org/10.1016/j.jastp.2010.05.005), 2010.
1780. French, W. J. R., and F. J. Mulligan, Stability of temperatures from TIMED/SABER v1.07 (2002–2009) and Aura/MLS v2.2 (2004–2009) compared with OH(6-2) temperatures observed at Davis Station, Antarctica, *Atmos. Chem. Phys.*, *10*, 11439-11446, doi:[10.5194/acp-10-11439-2010](https://doi.org/10.5194/acp-10-11439-2010), 2010.
1781. Friedman, J. S., X. Zhang, X. Chu, and J. M. Forbes, "Low-latitude thermal semidiurnal tide: longitudinal and seasonal variations based on ground-based measurements from Arecibo and Maui, space-based measurements by SABER, and modeling with GSWM-02", *Proc. SPIE 7827, Remote Sensing of Clouds and the Atmosphere XV*, 78270M (October 11, 2010), doi:[10.1117/12.865057](https://doi.org/10.1117/12.865057), 2010.
1782. Funke, B., M. López-Puertas, D. Bermejo-Pantaleón, M. García-Comas, G. P. Stiller, T. von Clarmann, M. Kiefer, and A. Linden, Evidence for dynamical coupling from the lower atmosphere to the thermosphere during a major stratospheric warming, *Geophys. Res. Lett.*, *37*, 13, doi:[10.1029/2010GL043619](https://doi.org/10.1029/2010GL043619), 2010.
1783. Gao, H., J. Y. Xu, and Q. A. Wu, Seasonal and QBO variations in the OH nightglow emission observed by TIMED/SABER, *J. Geophys. Res.*, *115*, doi:[10.1029/2009JA014641](https://doi.org/10.1029/2009JA014641), 2010.
1784. Gattinger, R. L., I. C. McDade, A. L. A. Suzán, C. D. Boone, K. A. Walker, P. F. Bernath, W. F. J. Evans, D. A. Degenstein, J.-H. Yee, P. Sheese, and E. J. Llewellyn, NO₂ air afterglow and O and NO densities from Odin-OSIRIS night and ACE-FTS sunset observations in the Antarctic MLT region, *J. Geophys. Res.*, *115*, D12301, doi:[10.1029/2009JD013205](https://doi.org/10.1029/2009JD013205), 2010.
1785. Gustin, J., I. Stewart, J. C. Gérard, and L. Esposito, Characteristics of Saturn's FUV airglow from limb-viewing spectra obtained with Cassini-UVIS, *Icarus*, *210*(1), 270-283, doi:[10.1016/j.icarus.2010.06.031](https://doi.org/10.1016/j.icarus.2010.06.031), 2010.
1786. Hauchecorne, A., P. Keckhut, C. Claud, F. Dalaudier, and A. Garnier, Observation of the thermal structure and dynamics of the stratosphere and the mesosphere from space, *Comptes Rendus Geoscience*, *342*, 4–5, 323-330, doi:[10.1016/j.crte.2010.01.002](https://doi.org/10.1016/j.crte.2010.01.002), 2010.
1787. Häusler, K., H. Lühr, M. E. Hagan, A. Maute, and R. G. Roble, Comparison of CHAMP and TIME-GCM nonmigrating tidal signals in the thermospheric zonal wind, *J. Geophys. Res.*, *115*, doi:[10.1029/2009JD012394](https://doi.org/10.1029/2009JD012394), 2010.

1788. He, M., L. Liu, W. Wan, J. Lei, and B. Zhao, Longitudinal modulation of the O/N₂ column density retrieved from TIMED/GUVI measurement, *Geophys. Res. Lett.*, 37(20), [doi:10.1029/2010GL045105](https://doi.org/10.1029/2010GL045105), 2010.
1789. Hei, M. A., and C. E. Valladares, The November 2004 superstorm: Comparison of low-latitude TEC observations with LLIONS model results, *J. Atmos. Solar-Terr. Phys.*, 72, 4, 334-343, [doi:10.1016/j.jastp.2009.03.025](https://doi.org/10.1016/j.jastp.2009.03.025), 2010.
1790. Huang, C., F. J. Rich, O. de La Beaujardiere, and R. A. Heelis, Longitudinal and seasonal variations of the equatorial ionospheric ion density and eastward drift velocity in the dusk sector, *J. Geophys. Res.*, 115, 02305, [doi:10.1029/2009JA014503](https://doi.org/10.1029/2009JA014503), 2010.
1791. Huang, F. T., H. G. Mayr, J. M. Russell III, and M. G. Mlynczak, Ozone diurnal variations in the stratosphere and lower mesosphere, based on measurements from SABER on TIMED, *J. Geophys. Res.*, 115, D24308, [doi:10.1029/2010JD014484](https://doi.org/10.1029/2010JD014484), 2010.
1792. Huang, F. T., R. D. McPeters, P. K. Bhartia, H. G. Mayr, S. M. Frith, J. M. Russell III, and M. G. Mlynczak, Temperature diurnal variations (migrating tides) in the stratosphere and lower mesosphere based on measurements from SABER on TIMED, *J. Geophys. Res.*, 115, D16121, [doi:10.1029/2009JD013698](https://doi.org/10.1029/2009JD013698), 2010.
1793. Iimura, H., D. C. Fritts, and D. M. Riggin, Long-term oscillations of the wind field in the tropical mesosphere and lower thermosphere from Hawaii MF radar measurements, *J. Geophys. Res.*, 115, D9, [doi:10.1029/2009JD012509](https://doi.org/10.1029/2009JD012509), 2010.
1794. Iimura, H., D. C. Fritts, Q. Wu, W. R. Skinner, and S. E. Palo, Nonmigrating semidiurnal tide over the Arctic determined from TIMED Doppler Interferometer wind observations, *J. Geophys. Res.*, 115, D06109, [doi:10.1029/2009JD012733](https://doi.org/10.1029/2009JD012733), 2010.
1795. Jayaraman, A., M. V. Ratnam, A. K. Patra, T. N. Rao, S. Sridharan, M. Rajeevan, H. Gadhave, A. P. Kesarkar, P. Srinivasulu, and K. Raghunath, Study of Atmospheric Forcing and Responses (SAFAR) campaign: overview, *Ann. Geophys.*, 28, 89-101, [doi:10.5194/angeo-28-89-2010](https://doi.org/10.5194/angeo-28-89-2010), 2010.
1796. Kil, H., and L. J. Paxton, The temporal evolution of the large equatorial plasma depletions observed during the 29–30 October 2003 storm, *J. Atmos. Solar-Terr. Phys.*, 72, 4, 327-333, [doi:10.1016/j.jastp.2009.10.019](https://doi.org/10.1016/j.jastp.2009.10.019), 2010.
1797. Kil, H., L. J. Paxton, W. K. Lee, Z. Ren, S.-J. Oh, and Y.-S. Kwak, Is DE2 the source of the ionospheric wave number 3 longitudinal structure?, *J. Geophys. Res.*, 115, 11319, [doi:10.1029/2010JA015979](https://doi.org/10.1029/2010JA015979), 2010.
1798. Krivova, N. A., L. E. A. Vieira, and S. K. Solanki, Reconstruction of solar spectral irradiance since the Maunder minimum, *J. Geophys. Res. Space Physics*, 115, A12112, [doi:10.1029/2010JA015431](https://doi.org/10.1029/2010JA015431), 2010.
1799. Kurihara, J., Y. Ogawa, S. Oyama, S. Nozawa, M. Tsutsumi, C. M. Hall, Y. Tomikawa, and R. Fujii, Links between a stratospheric sudden warming and thermal structures and dynamics in the high-latitude mesosphere, lower thermosphere, and ionosphere, *Geophys. Res. Lett.*, 37, 13, [doi:10.1029/2010GL043643](https://doi.org/10.1029/2010GL043643), 2010.
1800. Kyrölä, E., J. Tamminen, V. Sofieva, J. L. Bertaux, A. Hauchecorne, F. Dalaudier, D. Fussen, F. Vanhellemont, O. F. d'Andon, G. Barrot, M. Guirlet, T. Fehr, and L. S. de Miguel, GOMOS O₃, NO₂, and NO₃ observations in 2002-2008, *Atmos. Chem. Phys.*, 10, 7723-7738, [doi:10.5194/acp-10-7723-2010](https://doi.org/10.5194/acp-10-7723-2010), 2010.
1801. Lakshmi, N., V. S. Gurubaran, and K. Emperumal, Airglow imaging observations of small-scale structures driven by convective instability in the upper mesosphere over Tirunelveli (8.7°N), *J. Geophys. Res.*, 115, D19, [doi:10.1029/2009JD012937](https://doi.org/10.1029/2009JD012937), 2010.
1802. Lean, J. L., and T. N. Woods, Solar Total and Spectral Irradiance Measurements and Models: A Users Guide, in *Evolving Sol. Physics and the Climates of Earth and Space*, eds. K. Schrijver and G. Siscoe, Cambridge Univ. Press, 2010.

1803. Lieberman, R. S., D. A. Ortland, D. M. Riggin, Q. Wu, and C. Jacobi, Momentum budget of the migrating diurnal tide in the mesosphere and lower thermosphere, *J. Geophys. Res.*, *115*, D20, doi:[10.1029/2009JD013684](https://doi.org/10.1029/2009JD013684), 2010.
1804. Liu, G., T. J. Immel, S. L. England, K. K. Kumar, and G. Ramkumar, Temporal modulations of the longitudinal structure in F-2 peak height in the equatorial ionosphere as observed by COSMIC, *J. Geophys. Res.*, *115*, A04303, doi:[10.1029/2009JA014829](https://doi.org/10.1029/2009JA014829), 2010.
1805. Liu, G., T. J. Immel, S. L. England, K. K. Kumar, and G. Ramkumar, Temporal modulation of the four-peaked longitudinal structure of the equatorial ionosphere by the 2 day planetary wave, *J. Geophys. Res.*, *115*, A12338, doi:[10.1029/2010JA016071](https://doi.org/10.1029/2010JA016071), 2010.
1806. Liu, H.-L., B. T. Foster, M. E. Hagan, J. M. McInerney, A. Maute, L. Qian, A. D. Richmond, R. G. Roble, S. C. Solomon, R. R. Garcia, D. Kinnison, D. R. Marsh, A. K. Smith, J. Richter, F. Sassi, and J. Oberheide, Thermosphere extension of the Whole Atmosphere Community Climate Model, *J. Geophys. Res.*, *115*, A12, doi:[10.1029/2010JA015586](https://doi.org/10.1029/2010JA015586), 2010.
1807. Liu, H.-L., W. Wang, A. D. Richmond, and R. G. Roble, Ionospheric variability due to planetary waves and tides for solar minimum conditions, *J. Geophys. Res.*, *115*, doi:[10.1029/2009JA015188](https://doi.org/10.1029/2009JA015188), 2010.
1808. Lu, G., M. G. Mlynczak, T. N. Woods, and R. G. Roble, On the relationship of Joule heating and nitric oxide radiative cooling in the thermosphere, *J. Geophys. Res.*, *115*, A05306, doi:[10.1029/2009JA014662](https://doi.org/10.1029/2009JA014662), 2010.
1809. Luan, X., W. Wang, A. Burns, S. Solomon, Y. Zhang, and L. J. Paxton, Seasonal and hemispheric variations of the total auroral precipitation energy flux from TIMED/GUVI, *J. Geophys. Res.*, *115*, A11304, doi:[10.1029/2009JA015063](https://doi.org/10.1029/2009JA015063), 2010.
1810. Manson, A. H., C. Meek, and X. Xu, Comment on "Global structure, seasonal and interannual variability of the migrating semidiurnal tide seen in the SABER/TIMED temperatures (2002–2007)" by Pancheva et al. (2009), *Ann. Geophys.*, *28*, 665-676, doi:[10.5194/angeo-28-665-2010](https://doi.org/10.5194/angeo-28-665-2010), 2010.
1811. Marshall, B. T., L. E. Deaver, R. E. Thompson, L. L. Gordley, M. J. McHugh, M. E. Hervig, and J. M. Russell III, Retrieval of temperature and pressure using broadband solar occultation: SOFIE approach and results, *Atmospheric Measurement Techniques Discussions*, *3*, 5743-5794, doi:[10.5194/amtd-3-5743-2010](https://doi.org/10.5194/amtd-3-5743-2010), 2010.
1812. Maruyama, T., Solar proxies pertaining to empirical ionospheric total electron content models, *J. Geophys. Res. Space Physics*, *115*(A4), 2010.
1813. Mayr, H. G., J. G. Mengel, K. L. Chan, and F. T. Huang, Middle Atmosphere Dynamics with Gravity Wave Interactions in the Numerical Spectral Model: Zonal-mean Variations, *J. Atmos. Solar-Terr. Phys.*, *72*, 807-826, doi:[10.1016/j.jastp.2010.03.018](https://doi.org/10.1016/j.jastp.2010.03.018), 2010.
1814. Mbatha, N., V. Sivakumar, S. B. Malinga, H. Bencherif, and S. R. Pillay, Study on the impact of sudden stratosphere warming in the upper mesosphere-lower thermosphere regions using satellite and HF radar measurements, *Atmos. Chem. Phys.*, *10*, 7, 3397-3404, doi:[10.5194/acp-10-3397-2010](https://doi.org/10.5194/acp-10-3397-2010), 2010.
1815. McCormack, J. P., S. D. Eckermann, K. W. Hoppel, and R. A. Vincent, Amplification of the quasi-two day wave through nonlinear interaction with the migrating diurnal tide, *Geophys. Res. Lett.*, *37*, L16810, doi:[10.1029/2010GL043906](https://doi.org/10.1029/2010GL043906), 2010.
1816. McDonald, A. J., B. Tan, and X. Chu, Role of gravity waves in the spatial and temporal variability of stratospheric temperature measured by COSMIC/FORMOSAT-3 and Rayleigh lidar observations, *J. Geophys. Res.*, *115*, D19, doi:[10.1029/2009JD013658](https://doi.org/10.1029/2009JD013658), 2010.
1817. Meier, R. R., J. M. C. Plane, M. H. Stevens, L. J. Paxton, A. B. Christensen, and G. Crowley, Can molecular diffusion explain space shuttle plume spreading?, *Geophys. Res. Lett.*, *37*(8), doi:[10.1029/2010GL042868](https://doi.org/10.1029/2010GL042868), 2010.

1818. Mlynczak, M. G., L. A. Hunt, J. U. Kozyra, and J. M. Russell III, Short-term periodic features observed in the infrared cooling of the thermosphere and in solar and geomagnetic indexes from 2002 to 2009, *Proc. Royal Soc. A.*, doi:[10.1098/rspa.2010.0077](https://doi.org/10.1098/rspa.2010.0077), 2010.
1819. Moore, L., I. Mueller-Wodarg, M. Galand, A. Kliore, and M. Mendillo, Latitudinal variations in Saturn's ionosphere: Cassini measurements and model comparisons. *J. Geophys. Res. Space Physics*, 115(A11), doi:[10.1029/2010JA015692](https://doi.org/10.1029/2010JA015692), 2010.
1820. Mu, W.-F., W.-X. Wan, Z.-P. Ren, and J.-G. Xiong., Correlation between ionospheric longitudinal harmonic components and upper atmospheric tides, *Chin. Sci. Bull.*, 2010, 55: 4037–4045, doi:[10.1007/s11434-010-4205-1](https://doi.org/10.1007/s11434-010-4205-1), 2010.
1821. Mukhtarov, P., B. Andonov, C. Borries, D. Pancheva, and N. Jakowski, Forcing of the ionosphere from above and below during the Arctic winter of 2005/2006, *J. Atmos. Solar-Terr. Phys.*, 72, 2-3, 193-205, doi:[10.1016/j.jastp.2009.11.008](https://doi.org/10.1016/j.jastp.2009.11.008), 2010.
1822. Mukhtarov, P., D. Pancheva, and B. Andonov, Climatology of the stationary planetary waves seen in the SABER/TIMED temperatures (2002-2007), *J. Geophys. Res.*, 115, A06315, doi:[10.1029/2009JA015156](https://doi.org/10.1029/2009JA015156), 2010.
1823. Nee, J.-B., S. D. Tsai, T. H. Peng, R. R. Hsu, A. B. C. Chen, H. T. Su, S. Zhang, T. Y. Huang, P. K. Rajesh, J. Y. Liu, H. U. Frey, and S. B. Mende, OH airglow and equatorial variations observed by ISUAL instrument on board the FORMOSAT 2 satellite, *Terr. Atmos. Ocean. Sci.*, 21, 985-995, doi:[10.3319/TAO.2010.03.12.01\(AA\)](https://doi.org/10.3319/TAO.2010.03.12.01(AA)), 2010.
1824. Nielsen, K., D. E. Siskind, S. D. Eckermann, K. W. Hoppel, L. Coy, J. P. McCormack, S. Benze, C. E. Randall, and M. E. Hervig, Seasonal variation of the quasi 5 day planetary wave: Causes and consequences for polar mesospheric cloud variability in 2007, *J. Geophys. Res.*, 115, D18, doi:[10.1029/2009JD012676](https://doi.org/10.1029/2009JD012676), 2010.
1825. Offermann, D., P. Hoffmann, P. Knieling, R. Koppmann, J. Oberheide, and W. Steinbrecht, Long-term trends and solar cycle variations of mesospheric temperature and dynamics, *J. Geophys. Res.*, 115, D18, doi:[10.1029/2009JD013363](https://doi.org/10.1029/2009JD013363), 2010.
1826. Orsolini, Y. J., J. Urban, D. P. Murtagh, S. Lossow, and V. Limpasuvan, Descent from the polar mesosphere and anomalously high stratopause observed in 8 years of water vapor and temperature satellite observations by the Odin Sub-Millimeter Radiometer, *J. Geophys. Res.*, 115, D12, doi:[10.1029/2009JD013501](https://doi.org/10.1029/2009JD013501), 2010.
1827. Palm, M., C. G. Hoffmann, S. H. W. Golchert, and J. Notholt, The ground-based MW radiometer OZORAM on Spitsbergen - description and status of stratospheric and mesospheric O-3-measurements, *Atmospheric Measurement Techniques*, 3, 6, 1533-1545, doi:[10.5194/amt-3-1533-2010](https://doi.org/10.5194/amt-3-1533-2010), 2010.
1828. Pancheva, D., and P. Mukhtarov, Strong evidence for the tidal control on the longitudinal structure of the ionospheric F-region, *Geophys. Res. Lett.*, 37, L14105, doi:[10.1029/2010GL044039](https://doi.org/10.1029/2010GL044039), 2010.
1829. Pancheva, D., P. Mukhtarov, and B. Andonov, Global structure, seasonal and interannual variability of the eastward propagating tides seen in the SABER/TIMED temperatures (2002-2007), *Adv. Space Res.*, 46, 3, 257-274, doi:[10.1016/j.asr.2010.03.026](https://doi.org/10.1016/j.asr.2010.03.026), 2010.
1830. Pancheva, D., P. Mukhtarov, B. Andonov, and J. M. Forbes, Global distribution and climatological features of the 56-day planetary waves seen in the SABER/TIMED temperatures (2002–2007), *J. Atmos. Solar-Terr. Phys.*, 72, 1, 26-37, doi:[10.1016/j.jastp.2009.10.005](https://doi.org/10.1016/j.jastp.2009.10.005), 2010.
1831. Pancheva, D., P. Mukhtarov, and B. Andonov, Reply to Comment on "Global structure, seasonal and interannual variability of the migrating semidiurnal tide seen in the SABER/TIMED temperatures (2002–2007)" by Manson et al. (2010), *Ann. Geophys.*, 28, 677-685, doi:[10.5194/angeo-28-677-2010](https://doi.org/10.5194/angeo-28-677-2010), 2010.

1832. Park, J., H. Lühr, and K. W. Min, Characteristics of F-region dynamo currents deduced from CHAMP magnetic field measurements, *J. Geophys. Res.*, 115, A10, doi:[10.1029/2010JA015604](https://doi.org/10.1029/2010JA015604), 2010.
1833. Qian, L., A. G. Burns, P. C. Chamberlin, and S. C. Solomon, Flare location on the solar disk: Modeling the thermosphere and ionosphere response, *J. Geophys. Res. Space Physics*, 115(A9), 2010.
1834. Qian, L., S. C. Solomon, and M. G. Mlynczak, Model simulation of thermospheric response to recurrent geomagnetic forcing, *J. Geophys. Res. Space Physics*, 115, A10301, doi:[10.1029/2010JA015309](https://doi.org/10.1029/2010JA015309), 2010.
1835. Raju, U. J. P., P. Keckhut, Y. Courcoux, M. Marchand, S. Bekki, B. Morel, H. Bencherif, and A. Hauchecorne, Nocturnal temperature changes over tropics during CAWSES-III campaign: Comparison with numerical models and satellite data, *J. Atmos. Solar-Terr. Phys.*, 72, 1171–1179, doi:[10.1016/j.jastp.2010.07.013](https://doi.org/10.1016/j.jastp.2010.07.013), 2010.
1836. Ram, S. T., C. H. Liu, and S. Y. Su, Periodic solar wind forcing due to recurrent coronal holes during 1996–2009 and its impact on Earth's geomagnetic and ionospheric properties during the extreme solar minimum, *J. Geophys. Res. Space Physics*, 115(A12), doi:[10.1029/2010JA015800](https://doi.org/10.1029/2010JA015800), 2010.
1837. Rapp, M., I. Strelnikova, B. Strelnikov, P. Hoffmann, M. Friedrich, J. Gumbel, L. Megner, U.-P. Hoppe, S. Robertson, S. Knappmiller, M. Wolff, and D. R. Marsh, Rocket-borne in situ measurements of meteor smoke: Charging properties and implications for seasonal variation, *J. Geophys. Res.*, 115, D00I16, doi:[10.1029/2009JD012725](https://doi.org/10.1029/2009JD012725), 2010.
1838. Ratnam, M. V., A. K. Patra, and B. V. K. Murthy, Tropical mesopause: Is it always close to 100 km?, *J. Geophys. Res.*, 115, D06I06, doi:[10.1029/2009JD012531](https://doi.org/10.1029/2009JD012531), 2010.
1839. Raulin, J. P., F. C. P. Bertoni, H. R. Gavilán, W. Guevara-Day, R. Rodriguez, G. Fernandez, E. Correia, P. Kaufmann, A. Pacini, T. R. C. Stekel, W. L. C. Lima, N. J. Schuch, P. R. Fagundes, and R. Hadano, Solar flare detection sensitivity using the South America VLF Network (SAVNET), *J. Geophys. Res. Space Physics*, 115, A07301, doi:[10.1029/2009JA015154](https://doi.org/10.1029/2009JA015154), 2010.
1840. Ren, Z., W. Wan, J. Xiong, and L. Liu, Simulated wave number 4 structure in equatorial F-region vertical plasma drifts, *J. Geophys. Res. Space Physics*, 115, A05301, doi:[10.1029/2009JA014746](https://doi.org/10.1029/2009JA014746), 2010.
1841. Richards, P. G., R. R. Meier, and P. J. Wilkinson, On the consistency of satellite measurements of thermospheric composition and solar EUV irradiance with Australian ionosonde electron density data, *J. Geophys. Res. Space Physics*, 115, A10309, doi:[10.1029/2010JA015368](https://doi.org/10.1029/2010JA015368), 2010.
1842. Rodgers, E. M., S. M. Bailey, H. P. Warren, T. N. Woods, and F. G. Eparvier, Nitric Oxide Density Enhancements due to Solar Flares, *Adv. Space Res.*, 4345, 1, 28-38, doi:[10.1016/j.asr.2009.08.014](https://doi.org/10.1016/j.asr.2009.08.014), 2010.
1843. Rong, P. P., J. M. Russell III, L. L. Gordley, M. E. Hervig, L. Deaver, P. F. Bernath, and K. A. Walker, Validation of v1.022 mesospheric water vapor observed by the Solar Occultation for Ice Experiment instrument on the Aeronomy of Ice in the Mesosphere satellite, *J. Geophys. Res.*, 115, D24, doi:[10.1029/2010JD014269](https://doi.org/10.1029/2010JD014269), 2010.
1844. Russell III, J. M., P. Rong, S. M. Bailey, M. E. Hervig, and S. V. Petelina, Relationship between the summer mesopause and polar mesospheric cloud heights, *J. Geophys. Res.*, 115, D16209, doi:[10.1029/2010JD013852](https://doi.org/10.1029/2010JD013852), 2010.
1845. Sandor, B. J., and R. T. Clancy, Mesospheric chemistry of vibrationally excited O₃ from diurnal microwave measurements of O₃(v₁), O₃(v₂), O₃(v₃), and O₃(ground state), *J. Geophys. Res. Atmos.*, 115, D21302, doi:[10.1029/2009JD013485](https://doi.org/10.1029/2009JD013485), 2010.

1846. Sarkhel, S., R. Sekar, D. Chakrabarty, and S. Sridharan, A case study on the possible altitude-dependent effects of collisions on sodium airglow emission, *J. Geophys. Res.*, 115, A10306, doi:[10.1029/2010JA015251](https://doi.org/10.1029/2010JA015251), 2010.
1847. Shepherd, G. G., Y.-M. Cho, and M. G. Shepherd, Mesospheric temperature observations at Resolute (75°N) in the context of solar flux and quasi-biennial variations, *J. Geophys. Res.*, 115, A8, doi:[10.1029/2009JA015126](https://doi.org/10.1029/2009JA015126), 2010.
1848. Shepherd, M. G., Y.-M. Cho, G. G. Shepherd, and W. Ward, Mesospheric temperature and atomic oxygen response during the January 2009 major stratospheric warming, *J. Geophys. Res.*, 115, A07318, doi:[10.1029/2009JA015172](https://doi.org/10.1029/2009JA015172), 2010.
1849. Shettle, E. P., G. E. Nedoluha, M. T. DeLand, G. E. Thomas, and J. J. Olivero, SBUV observations of polar mesospheric clouds compared with MLS temperature and water vapor measurements, *Geophys. Res. Lett.*, 37, L18810, doi:[10.1029/2010GL044132](https://doi.org/10.1029/2010GL044132), 2010.
1850. Sirk, M. M., M. Hurwitz, and W. Marchant, EUV Spectra of the Full Solar Disk: Analysis and Results of the Cosmic Hot Interstellar Plasma Spectrometer (CHIPS), *Sol. Phys.*, 264(2), 287-309, doi:[10.1007/s11207-010-9591-7](https://doi.org/10.1007/s11207-010-9591-7), 2010.
1851. Siskind, D. E., S. D. Eckermann, J. P. McCormack, L. Coy, K. W. Hoppel, and N. L. Baker, Case studies of the mesospheric response to recent minor, major, and extended stratospheric warmings, *J. Geophys. Res.*, 115, doi:10.1029/2010JD014114, 2010.
1852. Smith, A. K., D. R. Marsh, M. G. Mlynczak, and J. C. Mast, Temporal variations of atomic oxygen in the upper mesosphere from SABER, *J. Geophys. Res.*, 115, D18309, doi:[10.1029/2009JD013434](https://doi.org/10.1029/2009JD013434), 2010.
1853. Smith, S. M., J. Baumgardner, C. J. Mertens, J. M. Russell III, M. G. Mlynczak, and M. Mendillo, Mesospheric OH temperatures: Simultaneous ground-based and SABER OH measurements over Millstone Hill, *Adv. Space Res.*, 45, 2, 239-246, doi:[10.1016/j.asr.2009.09.022](https://doi.org/10.1016/j.asr.2009.09.022), 2010.
1854. Solomon, S. C., T. N. Woods, L. V. Didkovsky, J. T. Emmert, and L. Qian, Anomalously low solar extreme-ultraviolet irradiance and thermospheric density during solar minimum, *Geophys. Res. Lett.*, 37, 16, doi:[10.1029/2010GL044468](https://doi.org/10.1029/2010GL044468), 2010.
1855. Sridharan, S., K. Raghunath, S. Sathishkumar, and D. Nath, First results of warm mesospheric temperature over Gadanki (13.5° N, 79.2° E) during the sudden stratospheric warming of 2009, *J. Atmos. Solar-Terr. Phys.*, 72, 14-15, 1139-1146, doi:[10.1016/j.jastp.2010.06.003](https://doi.org/10.1016/j.jastp.2010.06.003), 2010.
1856. Stevens, M. H., D. E. Siskind, S. D. Eckermann, L. Coy, J. P. McCormack, C. R. Englert, K. W. Hoppel, K. Nielsen, A. J. Kochenash, M. E. Hervig, C. E. Randall, J. Lumpe, S. M. Bailey, M. Rapp, and P. Hoffmann, Tidally induced variations of polar mesospheric cloud altitudes and ice water content using a data assimilation system, *J. Geophys. Res.*, 115, D18, doi:10.1029/2009JD013225, 2010.
1857. Suzuki, H., M. Tsutsumi, T. Nakamura, and M. Taguchi, The increase in OH rotational temperature during an active aurora event, *Ann. Geophys.*, 28, 3, doi:10.5194/angeo-28-705-2010, 2010.
1858. Suzuki, H., Y. Tomikawa, M. Taguchi, T. Nakamura, and M. Tsutsumi, Variations of OH rotational temperature over Syowa Station in the austral winter of 2008, *Earth, Planets Space*, 62, 8, 655-661, doi:[10.5047/eps.2010.07.010](https://doi.org/10.5047/eps.2010.07.010), 2010.
1859. Tamminen, J., E. Kyrölä, V. F. Sofieva, M. Laine, J.-L. Bertaux, A. Hauchecorne, F. Dalaudier, D. Fussen, F. Vanhellemont, O. F.d'Andon, G. Barrot, A. Mangin, M. Guirlet, L. Blanot, T. Fehr, L. S. de Miguel, and R. Fraisse, GOMOS data characterisation and error estimation, *Atmos. Chem. Phys.*, 10, 19, doi:[10.5194/acp-10-9505-2010](https://doi.org/10.5194/acp-10-9505-2010), 2010.
1860. Thurairajah, B., R. L. Collins, V. L. Harvey, R. S. Lieberman, and K. Mizutani, Rayleigh lidar observations of reduced gravity wave activity during the formation of an elevated stratopause

- in 2004 at Chatanika, Alaska (65°N, 147°W), *J. Geophys. Res.*, 115, D13, doi:[10.1029/2009JD013036](https://doi.org/10.1029/2009JD013036), 2010.
1861. Thurairajah, B., R. L. Collins, V. L. Harvey, R. S. Lieberman, M. Gerding, K. Mizutani, and J. M. Livingston, Gravity wave activity in the Arctic stratosphere and mesosphere during the 2007-2008 and 2008-2009 stratospheric sudden warming events, *J. Geophys. Res.*, 115, doi:[10.1029/2010JD014125](https://doi.org/10.1029/2010JD014125), 2010.
1862. Tyssoy, H. N., J. Stadsnes, M. Sorbo, C. J. Mertens, and D. S. Evans, Changes in upper mesospheric and lower thermospheric temperatures caused by energetic particle precipitation, *J. Geophys. Res.*, 115, A10323, doi:[10.1029/2010JA015427](https://doi.org/10.1029/2010JA015427), 2010.
1863. Varotsos, C. A., A. P. Cracknell, and C. Tzanis, Major atmospheric events monitored by deep underground muon data, *Remote Sensing Letters*, 1, 3, doi:[10.1080/01431161003680961](https://doi.org/10.1080/01431161003680961), 2010.
1864. Vineeth, C., T. K. Pant, S. Gurubaran, M. M. Hossain, and R. Sridharan, A comparison of optically measured daytime OH temperatures over the tropics during solar maximum and minimum periods, *Earth, Planets and Space*, 62, 647-653, doi:[10.5047/eps.2010.07.009](https://doi.org/10.5047/eps.2010.07.009), 2010.
1865. Wan, W., J. Xiong, Z. Ren, L. Liu, M.-L. Zhang, F. Ding, B. Ning, B. Zhao, and X. Yue, Correlation between the ionospheric WN4 signature and the upper atmospheric DE3 tide, *J. Geophys. Res.*, 115, A11303, doi:[10.1029/2010JA015527](https://doi.org/10.1029/2010JA015527), 2010.
1866. Wang, W., J. Lei, A. G. Burns, S. C. Solomon, M. Wiltberger, J. Xu, Y. Zhang, L. J. Paxton, and A. Coster, Ionospheric response to the initial phase of geomagnetic storms: Common features, *J. Geophys. Res.*, 115, A07321, doi:[10.1029/2009JA014461](https://doi.org/10.1029/2009JA014461), 2010.
1867. Wang, X., J. J. Berthelier, and J. P. Lebreton, Ionosphere variations at 700 km altitude observed by the DEMETER satellite during the 29 March 2006 solar eclipse, *J. Geophys. Res. Space Physics*, 115(A11), 2010.
1868. Ward, W. E., J. Oberheide, L. P. Goncharenko, T. Nakamura, P. Hoffmann, W. Singer, L. C. Chang, J. Du, D.-Y. Wang, P. Batista, B. Clemesha, A. H. Manson, D. M. Riggin, C.-Y. She, T. Tsuda, and T. Yuan, On the consistency of model, ground-based, and satellite observations of tidal signatures: Initial results from the CAWSES tidal campaigns, *J. Geophys. Res.*, 115, D07107, doi:[10.1029/2009JD012593](https://doi.org/10.1029/2009JD012593), 2010.
1869. Wilhelm, K., 2.3 Solar short-wavelength telescopes and spectrometers on space missions, In: *Instruments and Methods* (pp. 226-241). Springer, Berlin Heidelberg, 2010.
1870. Wright, C. J., S. M. Osprey, J. J. Barnett, L. J. Gray, and J. C. Gille, High Resolution Dynamics Limb Sounder measurements of gravity wave activity in the 2006 Arctic stratosphere, *J. Geophys. Res.*, 115, D2, doi:[10.1029/2009JD011858](https://doi.org/10.1029/2009JD011858), 2010.
1871. Xiao, C. Y., and X. Hu, Applying artificial neural networks to modeling the middle atmosphere, *Adv. Atmos. Sci.*, 27, 4, 883-890, doi:[10.1007/s00376-009-9019-1](https://doi.org/10.1007/s00376-009-9019-1), 2010.
1872. Xu, J., A. K. Smith, G. Jiang, and W. Yuan, Seasonal variation of the Hough modes of the diurnal component of ozone heating evaluated from Aura Microwave Limb Sounder observations, *J. Geophys. Res.*, 115, D10, doi:[10.1029/2009JD013179](https://doi.org/10.1029/2009JD013179), 2010.
1873. Xu, J., A. K. Smith, G. Jiang, H. Gao, Y. Wei, M. G. Mlynczak, and J. M. Russell III, Strong Longitudinal Variations in the OH Nightglow, *Geophys. Res. Lett.*, 37, 21, doi:[10.1029/2010GL043972](https://doi.org/10.1029/2010GL043972), 2010.
1874. Yuan, T., C.-Y. She, D. Krueger, S. C. Reising, X. Zhang, and J. M. Forbes, A collaborative study on temperature diurnal tide in the midlatitude mesopause region (41° N, 105° W) with Na lidar and TIMED/SABER observations, *J. Atmos. Solar-Terr. Phys.*, 72, 5-6, 541-549, doi:[10.1016/j.jastp.2010.02.007](https://doi.org/10.1016/j.jastp.2010.02.007), 2010.
1875. Yuan, T., C.-Y. She, D. Krueger, S. C. Reising, X. Zhang, and J. M. Forbes, Erratum to: "A collaborative study on temperature diurnal tide in the midlatitude mesopause region (41° N, 105° W) with Na lidar and TIMED/SABER observations" [*J. Atmos. Sol.-Terres. Phys.* 72

- (2010) 5410549], *J. Atmos. Solar-Terr. Phys.*, *72*, 14-15, 1067-1067, doi:[10.1016/j.jastp.2010.06.012](https://doi.org/10.1016/j.jastp.2010.06.012), 2010.
1876. Yue, J., T. Nakamura, C.-Y. She, M. Weber, W. Lyons, and T. Li, Seasonal and local time variability of ripples from airglow imager observations in US and Japan, *Ann. Geophys.*, *28*, 7, doi:10.5194/angeo-28-1401-2010, 2010.
1877. Zettergren, M., J. Semeter, B. Burnett, W. Oliver, C. Heinselman, P.-L. Bletly, and M. Diaz, Dynamic variability in F-region ionospheric composition at auroral arc boundaries, *Ann. Geophys.*, *28*, 651-664, doi:[10.5194/angeo-28-651-2010](https://doi.org/10.5194/angeo-28-651-2010), 2010.
1878. Zhang, X., J. M. Forbes, and M. E. Hagan, Longitudinal variation of tides in the MLT region: 2. Relative effects of solar radiative and latent heating, *J. Geophys. Res.*, *115*, A06317, doi:[10.1029/2009JA014898](https://doi.org/10.1029/2009JA014898), 2010.
1879. Zhang, X., J. M. Forbes, and M. E. Hagan, Longitudinal variation of tides in the MLT region: 1. Tides driven by tropospheric net radiative heating, *J. Geophys. Res.*, *115*, A06316, doi:[10.1029/2009JA014897](https://doi.org/10.1029/2009JA014897), 2010.
1880. Zhang, Y., L. J. Paxton, and D. Morrison, Auroral and thermospheric response to the 9 day periodic variations in the dayside reconnection rate in 2005, *Space Weather*, *8*, 07001, doi:[10.1029/2009SW000559](https://doi.org/10.1029/2009SW000559), 2010.
1881. Zhang, Y., L. J. Paxton, D. Bilitza, and R. Doe, Near real-time assimilation in IRI of auroral peak E-region density and equatorward boundary, *Adv. Space Res.*, *46*, 1055-1063, doi:[10.1016/j.asr.2010.06.029](https://doi.org/10.1016/j.asr.2010.06.029), 2010.
1882. Zhang, Y., S. England, and L. J. Paxton, Thermospheric composition variations due to nonmigrating tides and their effect on ionosphere, *Geophys. Res. Lett.*, *37*(17), L17103, doi:[10.1029/2010GL044313](https://doi.org/10.1029/2010GL044313), 2010.
1883. Zhu, X., J.-H. Yee, W. H. Swartz, E. R. Talaat, and L. Coy, A Spectral Parameterization of Drag, Eddy Diffusion, and Wave Heating for a Three-Dimensional Flow Induced by Breaking Gravity Waves, *J. Atmos. Sci.*, *67*, 8, doi:[10.1175/2010JAS3302.1](https://doi.org/10.1175/2010JAS3302.1), 2010.
1884. Ziemke, J. R., S. Chandra, L. D. Oman, and P. K. Bhartia, A new ENSO index derived from satellite measurements of column ozone, *Atmos. Chem. Phys.*, *10*, 3711-3721, doi:[10.5194/acp-10-3711-2010](https://doi.org/10.5194/acp-10-3711-2010), 2010.

2009

1885. Abdu, M. A., E. A. Kherani, I. S. Batista, E. R. de Paula, D. C. Fritts, and J. H. A. Sobral, Gravity wave initiation of equatorial spread F/plasma bubble irregularities based on observational data from the SpreadFEx campaign, *Ann. Geophys.*, *27*, 2607-2622, doi:[10.5194/angeo-27-2607-2009](https://doi.org/10.5194/angeo-27-2607-2009), 2009.
1886. Altadill, D., J. Boska, L. R. Cander, T. Gulyaeva, B. W. Reinisch, V. Romano, A. Krankowski, J. Bremer, A. Belehaki, I. Stanislawska, N. Jakowski, and C. Scotto, Near Earth space plasma monitoring under COST 296, *Ann. Geophys.*, *52*, N. 3/4, 2009.
1887. Andrioli, V. F., B. R. Clemesha, P. P. Batista, and N. J. Schuch, Atmospheric tides and mean winds in the meteor region over Santa Maria (29.7°S; 53.8°W), *J. Atmos. Solar-Terr. Phys.*, *71*, 17-18, 1864-1876, doi:[10.1016/j.jastp.2009.07.005](https://doi.org/10.1016/j.jastp.2009.07.005), 2009.
1888. Bagiya, M. S., H. P. Joshi, K. N. Iyer, M. Aggarwal, S. Ravindran, and B. M. Pathan, TEC variations during low solar activity period (2005-2007) near the Equatorial Ionospheric Anomaly Crest region in India, *Ann. Geophys.*, *27*, 1047-1057, 2009.
1889. Bankov, L., R. Heelis, M. Parrot, J.-J. Berthelier, P. Marinov, and A. Vassileva, WN4 effect on longitudinal distribution of different ion species in the topside ionosphere at low latitudes by means of DEMETER, DMSP-F13 and DMSP-F15 data, *Ann. Geophys.*, *27*, 2893-2902, 2009.

1890. Basu, S., S. Basu, J. Huba, J. Krall, S. E. McDonald, J. J. Makela, E. S. Miller, S. Ray, and K. Groves, Day-to-day variability of the equatorial ionization anomaly and scintillations at dusk observed by GUVI and modeling by SAMI3, *J. Geophys. Res.*, *114*, A04302, doi:[10.1029/2008JA013899](https://doi.org/10.1029/2008JA013899), 2009.
1891. Baumgarten, G., J. Fiedler, K. H. Fricke, M. Gerding, M. Hergig, P. Hoffmann, N. Müller, P. D. Pautet, M. Rapp, C. Robert, D. Rusch, C. von Savigny, and W. Singer, The noctilucent cloud (NLC) display during the ECOMA/MASS sounding rocket flights on 3 August 2007: morphology on global to local scales, *Ann. Geophys.*, *27*, 953-965, doi:[10.5194/angeo-27-953-2009](https://doi.org/10.5194/angeo-27-953-2009), 2009.
1892. Benze, S., C. E. Randall, M. T. DeLand, G. E. Thomas, D. W. Rusch, S. M. Bailey, J. M. Russell III, W. McClintock, A. W. Merkel, and C. Jeppesen, Comparison of polar mesospheric cloud measurements from the Cloud Imaging and Particle Size experiment and the solar backscatter ultraviolet instrument in 2007, *J. Atmos. Solar-Terr. Phys.*, *71*, 365-372, doi:[10.1016/j.jastp.2008.07.014](https://doi.org/10.1016/j.jastp.2008.07.014), 2009.
1893. Bernath, P. F., and R. Colin, Revised molecular constants and term values for the $X^2\Pi$ and $B^2\Sigma^+$ states of OH, *Journal of Molecular Spectroscopy*, *257*, 20-23, doi:[10.1016/j.jms.2009.06.003](https://doi.org/10.1016/j.jms.2009.06.003), 2009.
1894. Brunner, D., P. Siegmund, P. T. May, L. Chappel, C. Schiller, R. Müller, T. Peter, S. Fueglistaler, A. R. MacKenzie, A. Fix, H. Schlager, G. Allen, A. M. Fjaeraa, M. Streibel, and N. R. P. Harris, The SCOUT-O3 Darwin Aircraft Campaign: rationale and meteorology, *Atmos. Chem. Phys.*, *9*, 1, doi:[10.5194/acp-9-93-2009](https://doi.org/10.5194/acp-9-93-2009), 2009.
1895. Chamberlin, P. C., T. N. Woods, D. A. Crotser, F. G. Eparvier, R. A. Hock, and D. L. Woodraska, New, Higher Resolution Solar Extreme Ultraviolet (EUV) Irradiance Results for Solar Cycle Minimum Conditions on April 14, 2008, *Geophys. Res. Lett.*, *36*, L05102, doi:[10.1029/2008GL037145](https://doi.org/10.1029/2008GL037145), 2009.
1896. Chamberlin, P. C., T. N. Woods, F. G. Eparvier, and A. R. Jones, "Next Generation X-Ray Sensor (XRS) for GOES-R Satellite Series", *Proc. SPIE 7438, Solar Physics and Space Weather Instrumentation III*, 743802, doi:[10.1117/12.826807](https://doi.org/10.1117/12.826807), 2009.
1897. Chang, L. C., J. P. Thayer, J. Lei, and S. E. Palo, Isolation of the Global MLT Thermal Response to Recurrent Geomagnetic Activity, *Geophys. Res. Lett.*, *36*(15), doi:[10.1029/2009GL039305](https://doi.org/10.1029/2009GL039305), 2009.
1898. Chen, Z.-Y., and D.-R. Lü, Global structures of the DE3 tide, *Chin. Sci. Bull.*, *54*, 6, 1073-1079, doi:[10.1007/s11434-008-0585-x](https://doi.org/10.1007/s11434-008-0585-x), 2009.
1899. Christakis, N., C. Haldoupis, Q. Zhou, and C. Meek, Seasonal variability and descent of mid-latitude sporadic E layers at Arecibo, *Ann. Geophys.*, *27*, 3, doi:[10.5194/angeo-27-923-2009](https://doi.org/10.5194/angeo-27-923-2009), 2009.
1900. Chu, X., C. Yamashita, P. J. Espy, G. J. Nott, E. J. Jensen, H.-L. Liu, W. Huang, and J. P. Thayer, Responses of polar mesospheric cloud brightness to stratospheric gravity waves at the South Pole and Rothera, Antarctica, *J. Atmos. Solar-Terr. Phys.*, *71*, 3-4, 434-445, doi:[10.1016/j.jastp.2008.10.002](https://doi.org/10.1016/j.jastp.2008.10.002), 2009.
1901. Clilverd, M. A., A. Seppälä, C. J. Rodger, M. G. Mlynczak, and J. U. Kozyra, Additional stratospheric NO_x production by relativistic electron precipitation during the 2004 spring NO_x descent event, *J. Geophys. Res.*, *114*, A04305, doi:[10.1029/2008JA013472](https://doi.org/10.1029/2008JA013472), 2009.
1902. Collins, R. L., M. J. Taylor, K. Nielsen, K. Mizutani, Y. Murayama, K. Sakanoi, and M. T. DeLand, Noctilucent cloud in the western Arctic in 2005: Simultaneous lidar and camera observations and analysis, *J. Atmos. Solar-Terr. Phys.*, *71*, 3-4, 446-452, doi:[10.1016/j.jastp.2008.09.044](https://doi.org/10.1016/j.jastp.2008.09.044), 2009.

1903. Collins, R. L., S. M. Bailey, U. Berger, F.-J. Lübken, and A. W. Merkel, Special issue on global perspectives on the aeronomy of the summer mesopause region, *J. Atmos. Solar-Terr. Phys.*, 71, 3–4, 285-288, doi:10.1016/j.jastp.2008.11.001, 2009.
1904. de Wit, T. D., M. K. Lachmar, J. Liensten, and T. N. Woods, Finding the best proxies for the solar UV irradiance, *Geophys. Res. Lett.*, 36, L10107, doi:10.1029/2009GL037825, 2009.
1905. Denton, M. H., T. Ulich, and E. Turunen, Modification of midlatitude ionospheric parameters in the F2 layer by persistent high-speed solar wind streams, *Space Weather*, 7, 4, doi:10.1029/2008SW000443, 2009.
1906. Domingo, V., I. Ermolli, P. Fox, C. Fröhlich, M. Haberreiter, N. Krivova, G. Kopp, W. Schmutz, S. K. Solanki, H. C. Spruit, Y. Unruh, and A. Vögler, Solar surface magnetism and irradiance on time scales from days to the 11-year cycle, *Space Sci. Rev.*, 145(3-4), 337-380, doi:10.1007/s11214-009-9562-1, 2009.
1907. Dou, X., T. Li, J. Xu, H.-L. Liu, X. Xue, S. Wang, T. Leblanc, I. S. McDermid, A. Hauchecorne, P. Keckhut, H. Bencherif, C. Heinselman, W. Steinbrecht, M. G. Mlynczak, and J. M. Russell III, Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations, *J. Geophys. Res.*, 114, D20103, doi:10.1029/2008JD011654, 2009.
1908. Dupuy, E., K. A. Walker, J. Kar, C. D. Boone, C. T. McElroy, P. F. Bernath, J. R. Drummond, R. Skelton, S. D. McLeod, R. C. Hughes, C. R. Nowlan, D. G. Dufour, J. Zou, F. Nichitiu, K. Strong, P. Baron, R. M. Bevilacqua, T. Blumenstock, G. E. Bodeker, T. Borsdorff, A. E. Bourassa, H. Bovensmann, I. S. Boyd, A. Bracher, C. Brogniez, J. P. Burrows, V. Catoire, S. Ceccherini, S. Chabrillat, T. Christensen, M. T. Coffey, U. Cortesi, J. Davies, C. De Clercq, D. A. Degenstein, M. De Mazière, P. Demoulin, J. Dodion, B. Firanski, H. Fischer, G. Forbes, L. Froidevaux, D. Fussen, P. Gerard, S. Godin-Beekmann, F. Goutail, J. Granville, D. Griffith, C. S. Haley, J. W. Hannigan, M. Höpfner, J. J. Jin, A. Jones, N. B. Jones, K. Jucks, A. Kagawa, Y. Kasai, T. E. Kerzenmacher, A. Kleinböhl, A. R. Klekociuk, I. Kramer, H. Küllmann, J. Kuttippurath, E. Kyrölä, J.-C. Lambert, N. J. Livesey, E. J. Llewellyn, N. D. Lloyd, E. Mahieu, G. L. Manney, B. T. Marshall, J. C. McConnell, M. P. McCormick, I. S. McDermid, M. McHugh, C. A. McLinden, J. Mellqvist, K. Mizutani, Y. Murayama, D. P. Murtagh, H. Oelhaf, A. Parrish, S. V. Petelina, C. Piccolo, J.-P. Pommereau, C. E. Randall, C. Robert, C. Roth, M. Schneider, C. Senten, T. Steck, A. Strandberg, K. B. Strawbridge, R. Sussmann, D. P. J. Swart, D. W. Tarasick, J. R. Taylor, C. Tétard, L. W. Thomason, A. M. Thompson, M. B. Tully, J. Urban, F. Vanhellefont, C. Vigouroux, T. von Clarmann, P. von der Gathen, C. von Savigny, J. W. Waters, J. C. Witte, M. Wolff, and J. M. Zawodny, Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE), *Atmos. Chem. Phys.*, 9, 287-343, doi:10.5194/acp-9-287-2009, 2009.
1909. Eckermann, S. D., K. W. Hoppel, L. Coy, J. P. McCormack, D. E. Siskind, K. Nielsen, A. Kochenash, M. H. Stevens, C. R. Englert, W. Singer, and M. Hervig, High-altitude data assimilation system experiments for the northern summer mesosphere season of 2007, *J. Atmos. Solar-Terr. Phys.*, 71, 531-551, doi:10.1016/j.jastp.2008.09.036, 2009.
1910. Emmert, J. T., J. L. Lean, and J. M. Picone, Comment on “Oscillations of global mean TEC” by K. Hocke, *J. Geophys. Res. Space Physics*, 114(A1), 2009.
1911. England, S. L., Z. Xiaoli, T. Immel, J. M. Forbes, and R. DeMajistre, The effect of non-migrating tides on the morphology of the equatorial ionospheric anomaly: seasonal variability, *Earth, Planets Space*, 61, 4, 493-503, 2009.
1912. Eriksson, S., M. Hairston, F. Rich, H. Korth, Y. Zhang, and B. Anderson, High-latitude ionosphere convection and Birkeland current response for the 15 May 2005 magnetic storm recovery phase, *J. Geophys. Res.*, 113, A00A08, doi:10.1029/2008JA013139, 2009.

1913. Ern, M., and P. Preusse, Quantification of the contribution of equatorial Kelvin waves to the QBO wind reversal in the stratosphere, *Geophys. Res. Lett.*, *36*, L21801, doi:[10.1029/2009GL040493](https://doi.org/10.1029/2009GL040493), 2009.
1914. Ern, M., and P. Preusse, Wave fluxes of equatorial Kelvin waves and QBO zonal wind forcing derived from SABER and ECMWF temperature space-time spectra; *Atmos. Chem. Phys.*, *9*, 12, 3957-3986, doi:[10.5194/acp-9-3957-2009](https://doi.org/10.5194/acp-9-3957-2009), 2009.
1915. Ern, M., C. Lehmann, M. Kaufmann, and M. Riese, Spectral wave analysis at the mesopause from SCIAMACHY airglow data compared to SABER temperature spectra, *Ann. Geophys.*, *27*, 1, 407-416, doi:[10.5194/angeo-27-407-2009](https://doi.org/10.5194/angeo-27-407-2009), 2009.
1916. Ern, M., H.-K. Cho, P. Preusse, and S. D. Eckermann, Properties of the average distribution of equatorial Kelvin waves investigated with the GROGRAT ray tracer; *Atmos. Chem. Phys.*, *9*, 20, 7973-7995, doi:[10.5194/acp-9-7973-2009](https://doi.org/10.5194/acp-9-7973-2009), 2009.
1917. Fadnavis, S., D. Siingh, and R. P. Singh, Mesospheric inversion layer and sprites, *J. Geophys. Res.*, *114*, D23307, doi:[10.1029/2009JD011913](https://doi.org/10.1029/2009JD011913), 2009.
1918. Fang, T.-W., H. Kil, G. Millward, A. D. Richmond, J.-Y. Liu, and S.-J. Oh, Causal link of the wave-4 structures in plasma density and vertical plasma drift in the low-latitude ionosphere, *J. Geophys. Res.*, *114*, A10, doi:[10.1029/2009JA014460](https://doi.org/10.1029/2009JA014460), 2009.
1919. Fechine, J., C. M. Wrasse, H. Takahashi, A. F. Medeiros, P. P. Batista, B. R. Clemesha, L. M. Lima, D. C. Fritts, B. Laughman, M. J. Taylor, P.-D. Pautet, M. G. Mlynczak, and J. M. Russell III, First observation of an undular mesospheric bore in a Doppler duct, *Ann. Geophys.*, *27*, 1399-1406, doi:[10.5194/angeo-27-1399-2009](https://doi.org/10.5194/angeo-27-1399-2009), 2009.
1920. Feofilov, A. G., A. A. Kutepov, W. D. Pesnell, R. A. Goldberg, B. T. Marshall, L. L. Gordley, M. García-Comas, M. López-Puertas, R. O. Manuilova, V. A. Yankovsky, S. V. Petelina, and J. M. Russell III, Daytime SABER/TIMED observations of water vapor in the mesosphere: retrieval approach and first results, *Atmos. Chem. Phys.*, *9*, 8139-8158, 2009.
1921. Fernandez, R. P., M. Kaufmann, and B. M. Toselli, Relative importance of ozone energy transfer processes in the middle and upper atmosphere, *J. Atmos. Solar-Terr. Phys.*, *71*, 8-9, 805-815, doi:[10.1016/j.jastp.2009.03.004](https://doi.org/10.1016/j.jastp.2009.03.004), 2009.
1922. Fioletov, V. E., Estimating the 27-day and 11-year solar cycle variations in tropical upper stratospheric ozone, *J. Geophys. Res.*, *114*, D2, doi:[10.1029/2008JD010499](https://doi.org/10.1029/2008JD010499), 2009.
1923. Flury, T., K. Hocke, A. Haefele, N. Kämpfer, and R. Lehmann, Ozone depletion, water vapor increase, and PSC generation at midlatitudes by the 2008 major stratospheric warming, *J. Geophys. Res.*, *114*, D18, doi:[10.1029/2009JD011940](https://doi.org/10.1029/2009JD011940), 2009.
1924. Forbes, J. M., S. L. Bruinsma, X. Zhang, and J. Oberheide, Surface-exosphere coupling due to thermal tides, *Geophys. Res. Lett.*, *36*, 15, doi:[10.1029/2009GL038748](https://doi.org/10.1029/2009GL038748), 2009.
1925. Forbes, J. M., X. Zhang, S. E. Palo, J. M. Russell III, C. J. Mertens, and M. G. Mlynczak, Kelvin waves in stratosphere, mesosphere and lower thermosphere temperatures as observed by TIMED/SABER during 2002-2006, *Earth, Planets and Space*, *61*, 4, doi:[10.1186/BF03353161](https://doi.org/10.1186/BF03353161), 2009.
1926. Fox, J. L., Morphology of the dayside ionosphere of Mars: Implications for ion outflows, *J. Geophys. Res. Planets*, *114*(E12), doi:[10.1029/2009JE003432](https://doi.org/10.1029/2009JE003432), 2009.
1927. Friedman, J. S., X. Zhang, X. Chu, and J. M. Forbes, Longitude variations of the solar semidiurnal tides in the mesosphere and lower thermosphere at low latitudes observed from ground and space, *J. Geophys. Res.*, *114*, D11114, doi:[10.1029/2009JD011763](https://doi.org/10.1029/2009JD011763), 2009.
1928. Fritts, D. C., M. A. Abdu, B. R. Batista, I. S. Batista, P. P. Batista, R. Buriti, B. R. Clemesha, T. Dautermann, E. R. de Paula, B. J. Fechine, B. G. Fejer, D. Gobbi, J. Haase, F. Kamalabadi, E. A. Kherani, B. Laughman, L. M. Lima, H.-L. Liu, A. Medeiros, P.-D. Pautet, D. M. Riggan, F. S. Rodrigues, F. S. S. Sabbas, J. H. A. Sobral, P. Stamus, H. Takahashi, M. J. Taylor, S. L. Vadas, F. Vargas, and C. M. Wrasse, Overview and summary of

- the Spread F Experiment (SpreadFEx), *Ann. Geophys.*, 27, 2141-2155, doi:[10.5194/angeo-27-2141-2009](https://doi.org/10.5194/angeo-27-2141-2009), 2009.
1929. Funke, B., M. López-Puertas, M. García-Comas, G. P. Stiller, T. von Clarmann, M. Höpfner, N. Glatthor, U. Grabowski, S. Kellmann, and A. Linden, Carbon monoxide distributions from the upper troposphere to the mesosphere inferred from 4.7 μm non-local thermal equilibrium emissions measured by MIPAS on Envisat, *Atmos. Chem. Phys.*, 9, 7, doi:10.5194/acp-9-2387-2009, 2009.
1930. Galand, M., L. Moore, B. Charnay, I. Mueller-Wodarg, and M. Mendillo, Solar primary and secondary ionization at Saturn, *J. Geophys. Res. Space Physics*, 114(A6), 2009.
1931. Guharay, A., A. Taori, S. Bhattacharjee, P. Pant, B. Pande, and K. Pandey, First ground-based mesospheric measurements from central Himalayas; *Current Science*, [97, 5, 663-668](https://doi.org/10.1029/2009JD011963), 2009.
1932. Guharay, A., D. Nath, P. Pant, B. Pande, J. M. Russell III, and K. Pandey, Middle atmospheric thermal structure obtained from Rayleigh lidar and TIMED/SABER observations: A comparative study, *J. Geophys. Res.*, 114, D18105, doi:[10.1029/2009JD011963](https://doi.org/10.1029/2009JD011963), 2009.
1933. Guharay, A., D. Nath, P. Pant, B. Pande, J. M. Russell III, and K. Pandey, Observation of semiannual and annual oscillation in equatorial middle atmospheric long term temperature pattern, *Ann. Geophys.*, [27, 4273-4280](https://doi.org/10.1029/2009JD011963), 2009.
1934. Guo, L., and G. Lehmacher, First meteor radar observations of tidal oscillations over Jicamarca (11.95° S, 76.87° W), *Ann. Geophys.*, 27, 6, doi:[10.5194/angeo-27-2575-2009](https://doi.org/10.5194/angeo-27-2575-2009), 2009.
1935. Haefele, A., E. De Wachter, K. Hocke, N. Kämpfer, G. E. Nedoluha, R. M. Gomez, P. Eriksson, P. Forkman, A. Lambert, and M. J. Schwartz, Validation of ground-based microwave radiometers at 22 GHz for stratospheric and mesospheric water vapor, *J. Geophys. Res.*, 114, D23, doi:[10.1029/2009JD011997](https://doi.org/10.1029/2009JD011997), 2009.
1936. Hagan, M. E., A. Maute, and R. G. Roble, Tropospheric tidal effects on the middle and upper atmosphere, *J. Geophys. Res.*, 114, A1, doi:[10.1029/2008JA013637](https://doi.org/10.1029/2008JA013637), 2009.
1937. Harvey, V. L., C. E. Randall, and M. H. Hitchman, Breakdown of potential vorticity-based equivalent latitude as a vortex-centered coordinate in the polar winter mesosphere, *J. Geophys. Res.*, 114, D22, doi:[10.1029/2009JD012681](https://doi.org/10.1029/2009JD012681), 2009.
1938. Häusler, K., and H. Lühr, Nonmigrating tidal signals in the upper thermospheric zonal wind at equatorial latitudes as observed by CHAMP, *Ann. Geophys.*, 27, 7, doi:10.5194/angeo-27-2643-2009, 2009.
1939. Hecht, J. H., M. J. Alexander, R. L. Walterscheid, L. J. Gelinis, R. A. Vincent, A. D. MacKinnon, J. M. Woithe, P. T. May, W. R. Skinner, M. G. Mlynczak, and J. M. Russell III, Imaging of atmospheric gravity waves in the stratosphere and upper mesosphere using satellite and ground-based observations over Australia during the TWPICE campaign, *J. Geophys. Res.*, 114, D18123, doi:[10.1029/2008JD011259](https://doi.org/10.1029/2008JD011259), 2009.
1940. Hervig, M. E., L. L. Gordley, L. E. Deaver, D. E. Siskind, M. H. Stevens, J. M. Russell III, S. M. Bailey, L. Megner, and C. G. Bardeen, First Satellite Observations of Meteoric Smoke in the Middle Atmosphere, *Geophys. Res. Lett.*, 36, 18, doi:10.1029/2009GL039737, 2009.
1941. Hervig, M. E., M. H. Stevens, L. L. Gordley, L. E. Deaver, J. M. Russell III, and S. M. Bailey, Relationships between polar mesospheric clouds, temperature, and water vapor from Solar Occultation for Ice Experiment (SOFIE) observations, *J. Geophys. Res.*, 114, D20, doi:10.1029/2009JD012302, 2009.
1942. Huba, J. D., S. L. Ossakow, G. Joyce, J. Krall, and S. L. England, Three-dimensional equatorial spread F modeling: Zonal neutral wind effects, *Geophys. Res. Lett.*, 36, L19106, doi:[10.1029/2009GL040284](https://doi.org/10.1029/2009GL040284), 2009.

1943. Iimura, H., S. E. Palo, Q. Wu, T. L. Killeen, S. C. Solomon, and W. R. Skinner, Structure of the nonmigrating semidiurnal tide above Antarctica observed from the TIMED Doppler Interferometer, *J. Geophys. Res.*, 114, D11102, doi:[10.1029/2008JD010608](https://doi.org/10.1029/2008JD010608), 2009.
1944. Immel, T. J., S. England, Z. Xiaoli, J. M. Forbes, and R. DeMajistre, Upward propagating tidal effects across the E- and F-regions of the ionosphere, *Earth, Planets Space*, *61*, 4, 505-512, 2009.
1945. Jarvis, M. J., Longitudinal variation in E- and F-region ionospheric trends, *J. Atmos. Solar-Terr. Phys.*, 71, 13, 1415-1429, doi:[10.1016/j.jastp.2008.05.017](https://doi.org/10.1016/j.jastp.2008.05.017), 2009.
1946. Jin, J. J., K. Semeniuk, S. R. Beagley, V. I. Fomichev, A. I. Jonsson, J. C. McConnell, J. Urban, D. Murtagh, G. L. Manney, C. D. Boone, P. F. Bernath, K. A. Walker, B. Barret, P. Ricaud, and E. Dupuy, Comparison of CMAM simulations of carbon monoxide (CO), nitrous oxide (N₂O), and methane (CH₄) with observations from Odin/SMR, ACE-FTS, and Aura/MLS, *Atmos. Chem. Phys.*, 9, 10, doi:[10.5194/acp-9-3233-2009](https://doi.org/10.5194/acp-9-3233-2009), 2009.
1947. Kakinami, Y., C. H. Chen, J. Y. Liu, K.-I. Oyama, W. H. Yang, and S. Abe, Empirical models of Total Electron Content based on functional fitting over Taiwan during geomagnetic quiet condition, *Ann. Geophys.*, 27, 8, doi:[10.5194/angeo-27-3321-2009](https://doi.org/10.5194/angeo-27-3321-2009), 2009.
1948. Kamalabadi, F., J. M. Comberiate, M. J. Taylor, and P.-D. Pautet, Estimation of electron densities in the lower thermosphere from GUVI 135.6nm tomographic inversions in support of SpreadFEx, *Ann. Geophys.*, 27, 2439-2448, 2009.
1949. Kawatani, Y., M. Takahashi, K. Sato, S. P. Alexander, and T. Tsuda, Global distribution of atmospheric waves in the equatorial upper troposphere and lower stratosphere: AGCM simulation of sources and propagation, *J. Geophys. Res.*, 114, D01102, doi:[10.1029/2008JD010374](https://doi.org/10.1029/2008JD010374), 2009.
1950. Kelley, M. C., G. Crowley, and D. R. Weimer, Comparison of the Hill-Siscoe polar cap potential theory with the Weimer and AMIE models, *J. Atmos. Solar-Terr. Phys.*, 72, 4, 302-308, doi:[10.1016/j.jastp.2009.02.011](https://doi.org/10.1016/j.jastp.2009.02.011), 2009.
1951. Kil, H., R. A. Heelis, L. J. Paxton, and S.-J. Oh, Formation of a plasma depletion shell in the equatorial ionosphere, *J. Geophys. Res.*, 114, A11302, doi:[10.1029/2009JA014369](https://doi.org/10.1029/2009JA014369), 2009.
1952. Kil, H., S.-J. Oh, L. J. Paxton, and T.-W. Fang, High-resolution vertical $E \times B$ drift model derived from ROCSAT-1 data, *J. Geophys. Res.*, 114, A10314, doi:[10.1029/2009JA014324](https://doi.org/10.1029/2009JA014324), 2009.
1953. Kim, S.-Y., H.-Y. Chun, and D. L. Wu, A study on stratospheric gravity waves generated by Typhoon Ewiniar: Numerical simulations and satellite observations, *J. Geophys. Res.*, 114, D22, doi:[10.1029/2009JD011971](https://doi.org/10.1029/2009JD011971), 2009.
1954. Kretzschmar, M., T. D. de Wit, J. Liliensten, J.-F. Hochedez, J. Abouadarham, P.-O. Amblard, F. Auchère, and S. Moussaoui, Solar EUV/FUV irradiance variations: analysis and observational strategy, *Acta Geophys.*, 57(1), 42-51, doi:[10.2478/s11600-008-0066-2](https://doi.org/10.2478/s11600-008-0066-2), 2009.
1955. Krivova, N. A., S. K. Solanki, T. Wenzler, and B. Podlipnik, Reconstruction of solar UV irradiance since 1974, *J. Geophys. Res. Atmos.*, 114(D1), 2009.
1956. Li, T., C.-Y. She, H. Liu, J. Yue, T. Nakamura, D. A. Krueger, Q. Wu, X. Dou, and S. Wang, Observation of local tidal variability and instability, along with dissipation of diurnal tidal harmonics in the mesopause region over Fort Collins, Colorado (41°N, 105°W), *J. Geophys. Res.*, 114, D06106, doi:[10.1029/2008JD011089](https://doi.org/10.1029/2008JD011089), 2009.
1957. Liu, H.-L., D. R. Marsh, C.-Y. She, Q. Wu, and J. Xu, Momentum balance and gravity wave forcing in the mesosphere and lower thermosphere, *Geophys. Res. Lett.*, 36, L07805, doi:[10.1029/2009GL037252](https://doi.org/10.1029/2009GL037252), 2009.
1958. Llamedo, P., A. de la Torre, P. Alexander, D. Luna, T. Schmidt, and J. Wickert, A gravity wave analysis near to the Andes Range from GPS radio occultation data and mesoscale

- numerical simulations: Two case studies, *Adv. Space Res.*, 44, 4, 494-500, doi:[10.1016/j.asr.2009.04.023](https://doi.org/10.1016/j.asr.2009.04.023), 2009.
1959. López-González, M. J., E. Rodríguez, M. García-Comas, V. Costa, M. G. Shepherd, G. G. Shepherd, V. M. Aushev, and S. Sargoytchev, Climatology of planetary wave type oscillations with periods of 2-20 days derived from O₂ atmospheric and OH(6-2) airglow observations at mid-latitude with SATI, *Ann. Geophys.*, 27, 9, doi:[10.5194/angeo-27-3645-2009](https://doi.org/10.5194/angeo-27-3645-2009), 2009.
1960. López-Puertas, M., M. García-Comas, B. Funke, D. Bermejo-Pantaleón, M. Höpfner, U. Grabowski, G. P. Stiller, T. von Clarmann, and C. von Savigny, Measurements of polar mesospheric clouds in infrared emission by MIPAS/ENVISAT, *J. Geophys. Res.*, 114, doi:10.1029/2009JD012548, 2009.
1961. Lossow, S., J. Urban, H. Schmidt, D. R. Marsh, J. Gumbel, P. Eriksson, and D. Murtagh, Wintertime water vapor in the polar upper mesosphere and lower thermosphere: First satellite observations by Odin submillimeter radiometer, *J. Geophys. Res.*, 114, D10, doi:[10.1029/2008JD011462](https://doi.org/10.1029/2008JD011462), 2009.
1962. Lott, F., J. Kuttippurath, and F. Vial, A Climatology of the Gravest Waves in the Equatorial Lower and Middle Stratosphere: Method and Results for the ERA-40 Re-Analysis and the LMDz GCM, *J. Atmos. Sci.*, 66, 5, doi:[10.1175/2008JAS2880.1](https://doi.org/10.1175/2008JAS2880.1), 2009.
1963. Luan, X., W. Wang, A. G. Burns, S. C. Solomon, Y. Zhang, and L. J. Paxton, Unusual declining phase of solar cycle 23: Weak semi-annual variation of auroral hemispheric power and geomagnetic activity, *Geophys. Res. Lett.*, 36, L22102, doi:[10.1029/2009GL040825](https://doi.org/10.1029/2009GL040825), 2009.
1964. Mannucci, A. J., B. T. Tsurutani, M. C. Kelley, B. A. Iijima, and A. Komjathy, Local time dependence of the prompt ionospheric response for the 7, 9, and 10 November 2004 superstorms, *J. Geophys. Res.*, 114, A10308, doi:[10.1029/2009JA014043](https://doi.org/10.1029/2009JA014043), 2009.
1965. Mayr, H. G., J. G. Mengel, and F. T. Huang, Modeling the Temperature of the Polar Mesopause Region: Part I - Inter-annual and Long-term Variations Generated by the Stratospheric QBO, *J. Atmos. Solar-Terr. Phys.*, 71, 497-507, doi:[10.1016/j.jastp.2008.09.033](https://doi.org/10.1016/j.jastp.2008.09.033), 2009.
1966. Mayr, H. G., J. G. Mengel, F. T. Huang, and E. R. Nash, Intra-seasonal Monthly Oscillations in Stratospheric NCEP Data and Model Results, *J. Atmos. Solar-Terr. Phys.*, 71, 1299-1308, doi:[10.1016/j.jastp.2009.05.003](https://doi.org/10.1016/j.jastp.2009.05.003), 2009.
1967. Mayr, H. G., J. G. Mengel, F. T. Huang, and S. M. Bailey, Modeling the Temperature of the Polar Mesopause Region: Part II - Intra-seasonal Monthly Oscillations, *J. Atmos. Solar-Terr. Phys.*, 71, 508-517, doi:[10.1016/j.jastp.2008.09.037](https://doi.org/10.1016/j.jastp.2008.09.037), 2009.
1968. McCormack, J. P., L. Coy, and K. W. Hoppel, Evolution of the quasi 2-day wave during January 2006, *J. Geophys. Res.*, 114, D20, doi:10.1029/2009JD012239, 2009.
1969. Meek, C. E., and A. H. Manson, Summer planetary-scale oscillations: aura MLS temperature compared with ground-based radar wind, *Ann. Geophys.*, 27, 4, doi:10.5194/angeo-27-1763-2009, 2009.
1970. Merkel, A. W., D. R. Marsh, A. Gettelman, and E. J. Jensen, On the relationship of polar mesospheric cloud ice water content, particle radius and mesospheric temperature and its use in multi-dimensional models, *Atmos. Chem. Phys.*, 9, 22, doi:10.5194/acp-9-8889-2009, 2009.
1971. Merkel, A. W., D. W. Rusch, S. E. Palo, J. M. Russell III, and S. M. Bailey, Mesospheric planetary wave effects on global PMC variability inferred from AIM-CIPS and TIMED-SABER for the northern summer 2007 PMC season, *J. Atmos. Solar-Terr. Phys.*, 71, 3-4, 381-391, doi:[10.1016/j.jastp.2008.12.001](https://doi.org/10.1016/j.jastp.2008.12.001), 2009.
1972. Mertens, C. J., J. M. Russell III, M. G. Mlynczak, C.-Y. She, F. J. Schmidlin, R. A. Goldberg, M. López-Puertas, P. P. Wintersteiner, R. H. Picard, J. R. Winick, and X. Xu, Kinetic temperature and carbon dioxide from broadband infrared limb emission measurements taken from the TIMED/SABER instrument, *Adv. Space Res.*, 43, 1, 15-27, doi:[10.1016/j.asr.2008.04.017](https://doi.org/10.1016/j.asr.2008.04.017), 2009.

1973. Mertens, C. J., J. R. Winick, R. H. Picard, D. S. Evans, M. López-Puertas, P. P. Wintersteiner, X. Xu, M. G. Mlynczak, and J. M. Russell III, Influence of solar-geomagnetic disturbances on SABER measurements of 4.3 μm emission and the retrieval of kinetic temperature and carbon dioxide, *Adv. Space Res.*, 43, 9, 1325-1336, [doi:10.1016/j.asr.2008.10.029](https://doi.org/10.1016/j.asr.2008.10.029), 2009.
1974. Mertens, C. J., X. Xu, J. Fernandez, D. Bilitza, J. M. Russell III, and M. G. Mlynczak, "Development of a geomagnetic storm correction to the international reference ionosphere model E-region electron densities using TIMED/SABER observations", *Proc. SPIE 7475, Remote Sensing of Clouds and the Atmosphere XIV*, 747508, [doi:10.1117/12.829976](https://doi.org/10.1117/12.829976), 2009.
1975. Miyoshi, Y., H. Fujiwara, J. M. Forbes, and S. L. Bruinsma, Solar terminator wave and its relation to the atmospheric tide, *J. Geophys. Res.*, 114, A7, [doi:10.1029/2009JA014110](https://doi.org/10.1029/2009JA014110), 2009.
1976. Mlynczak, M. G., L. A. Hunt, B. T. Marshall, F. J. Martin-Torres, C. J. Mertens, J. M. Russell III, E. E. Remsberg, M. López-Puertas, R. H. Picard, J. R. Winick, P. P. Wintersteiner, R. E. Thompson, and L. L. Gordley, Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument, *J. Geophys. Res.*, [doi:10.1029/2009JA014713](https://doi.org/10.1029/2009JA014713), 2009.
1977. Moore, L., M. Galand, I. Mueller-Wodarg, and M. Mendillo, Response of Saturn's ionosphere to solar radiation: Testing parameterizations for thermal electron heating and secondary ionization processes, *Planetary & Space Science*, 57(14), 1699-1705, 2009.
1978. Mukhtarov, P., D. Pancheva, and B. Andonov, Global structure and seasonal and interannual variability of the migrating diurnal tide seen in the SABER/TIMED temperatures between 20 and 120 km, *J. Geophys. Res.*, 114, A02309, [doi:10.1029/2008JA013759](https://doi.org/10.1029/2008JA013759), 2009.
1979. Mukhtarov, P., D. Pancheva, and B. Andonov, Method for assessing the amplitude modulation of the stationary planetary waves, *Ann. Geophys.*, 27, 2, 617-622, [doi:10.5194/angeo-27-617-2009](https://doi.org/10.5194/angeo-27-617-2009), 2009.
1980. Mulligan, F. J., M. E. Dyrand, F. Sigernes, and C. S. Deehr, Inferring hydroxyl layer peak heights from ground-based measurements of OH(6-2) band integrated emission rate at Longyearbyen (78° N, 16° E), *Ann. Geophys.*, 27, 4197-4205, [doi:10.5194/angeo-27-4197-2009](https://doi.org/10.5194/angeo-27-4197-2009), 2009.
1981. Mulligan, F. J., M. E. Dyrlund, F. Sigernes, and C. S. Deehr, Inferring hydroxyl layer peak heights from ground-based measurements of OH(6-2) band integrated emission rate at Longyearbyen (78°N, 16°E), *Ann. Geophys.*, 27, 4197-4205, 2009.
1982. Nair, H., and J.-H. Yee, O₂(a¹ Δ_g , v = 0) chemical loss coefficients determined from SABER sunset measurements, *Geophys. Res. Lett.*, 36, L15829, [doi:10.1029/2009GL039335](https://doi.org/10.1029/2009GL039335), 2009.
1983. Narayanan, V. L., S. Gurubaran, and K. Emperumal, A case study of a mesospheric bore event observed with an all-sky airglow imager at Tirunelveli (8.7° N), *J. Geophys. Res.*, 114, D08114, [doi:10.1029/2008JD010602](https://doi.org/10.1029/2008JD010602), 2009.
1984. Oberheide, J., J. M. Forbes, K. Häusler, Q. Wu, and S. L. Bruinsma, Tropospheric tides from 80 to 400 km: Propagation, interannual variability, and solar cycle effects, *J. Geophys. Res.*, 114, D00I05, [doi:10.1029/2009JD012388](https://doi.org/10.1029/2009JD012388), 2009.
1985. Offermann, D., O. Gusev, M. Donner, J. M. Forbes, M. Hagan, M. G. Mlynczak, J. Oberheide, P. Preusse, H. Schmidt, and J. M. Russell III, Relative intensities of middle atmosphere waves, *J. Geophys. Res.*, 114, D06110, [doi:10.1029/2008JD010662](https://doi.org/10.1029/2008JD010662), 2009.
1986. Pancheva, D., P. Mukhtarov, and B. Andonov, Global structure, seasonal and interannual variability of the migrating semidiurnal tide seen in the SABER/TIMED temperatures (2002-2007), *Ann. Geophys.*, 27, 2, 687-703, [doi:10.5194/angeo-27-687-2009](https://doi.org/10.5194/angeo-27-687-2009), 2009.
1987. Pancheva, D., P. Mukhtarov, and B. Andonov, Nonmigrating tidal activity related to the sudden stratospheric warming in the Arctic winter of 2003/2004, *Ann. Geophys.*, 27, 3, 975-987, [doi:10.5194/angeo-27-975-2009](https://doi.org/10.5194/angeo-27-975-2009), 2009.

1988. Pancheva, D., P. Mukhtarov, B. Andonov, N. J. Mitchell, and J. M. Forbes, Planetary waves observed by TIMED/SABER in coupling the stratosphere-mesosphere-lower thermosphere during the winter of 2003/2004: Part 2-Altitude and latitude planetary wave structure, *J. Atmos. Solar-Terr. Phys.*, *71*, 1, 75-87, doi:[10.1016/j.jastp.2008.09.027](https://doi.org/10.1016/j.jastp.2008.09.027), 2009.
1989. Pancheva, D., R. Mukhtarov, B. Andonov, N. J. Mitchell, and J. M. Forbes, Planetary waves observed by TIMED/SABER in coupling the stratosphere-mesosphere-lower thermosphere during the winter of 2003/2004: Part 1-Comparison with the UKMO temperature results, *J. Atmos. Solar-Terr. Phys.*, *71*, 1, 61-74, doi:[10.1016/j.jastp.2008.09.016](https://doi.org/10.1016/j.jastp.2008.09.016), 2009.
1990. Park, J., H. Luhr, C. Stolle, M. Rother, K. W. Min, and I. Michaelis, The characteristics of field-aligned currents associated with equatorial plasma bubbles as observed by the CHAMP satellite, *Ann. Geophys.*, *27*, 2685-2697, 2009.
1991. Patra, A. K., N. V. Rao, D. V. Phanikumar, H. Chandra, U. Das, H. S. S. Sinha, T. K. Pant, and S. Sripathi, A study on the low-latitude daytime E region plasma irregularities using coordinated VHF radar, rocket-borne, and ionosonde observations, *J. Geophys. Res.*, *114*, A11301, doi:[10.1029/2009JA014501](https://doi.org/10.1029/2009JA014501), 2009.
1992. Pautet, P.-D., M. J. Taylor, N. P. Chapagain, H. Takahashi, A. F. Medeiros, F. T. S. Sabbas, and D. C. Fritts, Simultaneous observations of equatorial F-region plasma depletions over Brazil during the Spread-F Experiment (SpreadFEx), *Ann. Geophys.*, *27*, 2371-2381, 2009.
1993. Pawlowski, D. J., and A. J. Ridley, Modeling the ionospheric response to the 28 October 2003 solar flare due to coupling with the thermosphere, *Radio Sci.*, *44*(1), 2009.
1994. Pawlowski, D. J., and A. J. Ridley, Quantifying the effect of thermospheric parameterization in a global model, *J. Atmos. Solar-Terr. Phys.*, *71*(17), 2017-2026, 2009.
1995. Pedatella, N. M., and J. M. Forbes, Interannual variability in the longitudinal structure of the low-latitude ionosphere due to the El Niño-Southern Oscillation, *J. Geophys. Res.*, *114*, A12, doi:[10.1029/2009JA014494](https://doi.org/10.1029/2009JA014494), 2009.
1996. Pedatella, N. M., and J. M. Forbes, Modulation of the equatorial F-region by the quasi-16-day planetary wave, *Geophys. Res. Lett.*, *36*, L09105, doi:[10.1029/2009GL037809](https://doi.org/10.1029/2009GL037809), 2009.
1997. Petelina, S. V., and A. Y. Zasetsky, Temperature of mesospheric ice retrieved from the O-H stretch band, *Geophys. Res. Lett.*, *36*, 15, doi:[10.1029/2009GL038488](https://doi.org/10.1029/2009GL038488), 2009.
1998. Peterson, W. K., E. N. Stavros, P. G. Richards, P. C. Chamberlin, T. N. Woods, S. M. Bailey, and S. C. Solomon, Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle time scales, *J. Geophys. Res.*, *114*, A10304, doi:[10.1029/2009JA014362](https://doi.org/10.1029/2009JA014362), 2009.
1999. Phanikumar, D. V., A. K. Patra, M. V. Ratnam, and S. Sripathi, Planetary-scale variability in the low-latitude E region field-aligned irregularities: First results from Gadanki observations, *J. Geophys. Res.*, *114*, A01301, doi:[10.1029/2008JA013564](https://doi.org/10.1029/2008JA013564), 2009.
2000. Pirog, O. M., N. M. Polekh, E. B. Romanova, A. V. Tashchilin, and G. A. Zherebtsov, The main ionospheric trough in the East Asian region: Observation and modeling, *J. Atmos. Solar-Terr. Phys.*, *71*, 49-60, doi:[10.1016/j.jastp.2008.10.010](https://doi.org/10.1016/j.jastp.2008.10.010), 2009.
2001. Pirog, O. M., N. M. Polekh, E. B. Romanova, G. A. Zherebtsov, J. Shi, and X. Wang, study of ionospheric response to magnetic superstorms in the East Asian sector, *J. Atmos. Solar-Terr. Phys.*, *72*, 2-3, 164-175, doi:[10.1016/j.jastp.2009.11.004](https://doi.org/10.1016/j.jastp.2009.11.004), 2009.
2002. Preusse, P., S. D. Eckermann, M. Ern, J. Oberheide, R. H. Picard, R. G. Roble, M. Riese, J. M. Russell III, and M. G. Mlynczak, Global ray tracing simulations of the SABER gravity wave climatology, *J. Geophys. Res.*, *114*, D08126, doi:[10.1029/2008JD011214](https://doi.org/10.1029/2008JD011214), 2009.
2003. Preusse, P., S. Schroeder, L. Hoffmann, M. Ern, F. Friedl-Vallon, J. Ungermann, H. Oelhaf, H. Fischer, and M. Riese, New perspectives on gravity wave remote sensing by spaceborne infrared limb imaging, *Atmospheric Measurement Techniques*, *2*, 1, www.atmos-meas-tech.net/2/299/2009/, 2009.

2004. Qian, L., S. C. Solomon, and T. J. Kane, Seasonal variation of thermospheric density and composition, *J. Geophys. Res.*, *114*, A01312A1, doi:[10.1029/2008JA013643](https://doi.org/10.1029/2008JA013643), 2009.
2005. Quémerais, E., R. Lallement, B. R. Sandel, and J. T. Clarke, Interplanetary Lyman α observations: intensities from Voyagers and line profiles from HST/STIS, *Space Sci. Rev.*, *143*(1-4), 151-162, doi:[10.1007/s11214-008-9379-3](https://doi.org/10.1007/s11214-008-9379-3), 2009.
2006. Randall, C. E., V. L. Harvey, D. E. Siskind, J. France, P. F. Bernath, C. D. Boone, and K. A. Walker, NO_x descent in the Arctic middle atmosphere in early 2009, *Geophys. Res. Lett.*, *36*, L18811, doi:[10.1029/2009GL039706](https://doi.org/10.1029/2009GL039706), 2009.
2007. Reisin, E. R., and J. Scheer, Evidence of change after 2001 in the seasonal behaviour of the mesopause region from airglow data at El Leoncito, *Adv. Space Res.*, *44*, 3, 401-412, doi:[10.1016/j.asr.2009.04.007](https://doi.org/10.1016/j.asr.2009.04.007), 2009.
2008. Remsberg, E. E., M. Natarajan, G. S. Lingenfelter, R. E. Thompson, B. T. Marshall, and L. L. Gordley, On the quality of the Nimbus 7 LIMS Version 6 water vapor profiles and distributions, *Atmos. Chem. Phys.*, *9*, 23, doi:[10.5194/acp-9-9155-2009](https://doi.org/10.5194/acp-9-9155-2009), 2009.
2009. Ren, Z., W. Wan, L. Liu, and J. Xiong, Intra-annual variation of wave number 4 structure of vertical E \times B drifts in the equatorial ionosphere seen from ROCSAT-1, *J. Geophys. Res.*, *114*, A05308, doi:[10.1029/2009JA014060](https://doi.org/10.1029/2009JA014060), 2009.
2010. Richards, P. G., M. J. Nicolls, C. J. Heinselman, J. J. Sojka, J. M. Holt, and R. R. Meier, Measured and modeled ionospheric densities, temperatures, and winds during the international polar year, *J. Geophys. Res. Space Physics*, *114*(A12), 2009.
2011. Robert, C. E., C. von Savigny, J. P. Burrows, and G. Baumgarten, Climatology of noctilucent cloud radii and occurrence frequency using SCIAMACHY, *J. Atmos. Solar-Terr. Phys.*, *71*, 3-4, 408-423, doi:[10.1016/j.jastp.2008.10.015](https://doi.org/10.1016/j.jastp.2008.10.015), 2009.
2012. Rogers, A. E. E., M. Lekberg, and P. Pratap, Seasonal and Diurnal Variations of Ozone near the Mesopause from Observations of the 11.072-GHz Line, *J. Atmos. Oceanic Technol.*, *26*, 10, 2192-2199, doi:[10.1175/2009JTECHA1291.1](https://doi.org/10.1175/2009JTECHA1291.1), 2009.
2013. Rong, P. P., J. M. Russell III, M. G. Mlynczak, E. E. Remsberg, B. T. Marshall, L. L. Gordley, and M. López-Puertas, Validation of Thermosphere Ionosphere Mesosphere Energetics and Dynamics/Sounding of the Atmosphere using Broadband Emission Radiometry (TIMED/SABER) v1.07 ozone at 9.6 μ m in altitude range 15-70 km, *J. Geophys. Res.*, *114*, D04306, doi:[10.1029/2008JD010073](https://doi.org/10.1029/2008JD010073), 2009.
2014. Rusch, D. W., G. E. Thomas, W. McClintock, A. W. Merkel, S. M. Bailey, J. M. Russell III, C. E. Randall, C. Jeppesen, and M. Callan, The cloud imaging and particle size experiment on the aeronomy of ice in the mesosphere mission: Cloud morphology for the northern 2007 season, *J. Atmos. Solar-Terr. Phys.*, *71*, 3-4, 356-364, doi:[10.1016/j.jastp.2008.11.005](https://doi.org/10.1016/j.jastp.2008.11.005), 2009.
2015. Sarkhel, S., R. Sekar, D. Chakrabarty, R. Narayanan, and S. Sridharan, Simultaneous sodium airglow and lidar measurements over India: A case study, *J. Geophys. Res.*, *114*, A10317, doi:[10.1029/2009JA014379](https://doi.org/10.1029/2009JA014379), 2009.
2016. Schroeder, S., P. Preusse, M. Ern, and M. Riese, Gravity waves resolved in ECMWF and measured by SABER, *Geophys. Res. Lett.*, *36*, 10, doi:[10.1029/2008GL037054](https://doi.org/10.1029/2008GL037054), 2009.
2017. She, C.-Y., D. A. Krueger, R. Akmaev, H. Schmidt, E. Talaat, and J.-H. Yee, Long-term variability in mesopause region temperatures over Fort Collins, Colorado (41°N, 105°W) based on lidar observations from 1990 through 2007, *J. Atmos. Solar-Terr. Phys.*, *71*, 14-15, 1558-1564, doi:[10.1016/j.jastp.2009.05.007](https://doi.org/10.1016/j.jastp.2009.05.007), 2009.
2018. Smith, A. K., M. López-Puertas, M. García-Comas, and S. Tukiainen, SABER observations of mesospheric ozone during NH late winter 2002-2009, *Geophys. Res. Lett.*, *36*, L23804, doi:[10.1029/2009GL040942](https://doi.org/10.1029/2009GL040942), 2009.

2019. Smith, S. M., J. Baumgardner, and M. Mendillo, Evidence of mesospheric gravity-waves generated by orographic forcing in the troposphere, *Geophys. Res. Lett.*, *36*, 8, doi:[10.1029/2008GL036936](https://doi.org/10.1029/2008GL036936), 2009.
2020. Sofieva, V. F., E. Kyrölä, P. T. Verronen, A. Seppälä, J. Tamminen, D. R. Marsh, A. K. Smith, J.-L. Bertaux, A. Hauchecorne, F. Dalaudier, D. Fussen, F. Vanhellemont, O. F. d'Andon, G. Barrot, M. Guirlet, T. Fehr, and L. Saavedra, Spatio-temporal observations of the tertiary ozone maximum, *Atmos. Chem. Phys.*, *9*, 13, doi:10.5194/acp-9-4439-2009, 2009.
2021. Sojka, J. J., R. L. McPherron, A. P. van Eyken, M. J. Nicolls, C. J. Heinselman, and J. D. Kelly, Observations of ionospheric heating during the passage of solar coronal hole fast streams, *Geophys. Res. Lett.*, *36*, 19, doi:[10.1029/2009GL039064](https://doi.org/10.1029/2009GL039064), 2009.
2022. Sridharan, S., P. V. Prasanth, and Y. B. Kumar, A report on long-term trends and variabilities in middle atmospheric temperature over Gadanki (13.5°N, 79.2°E), *J. Atmos. Solar-Terr. Phys.*, *71*, 13, 1463-1470, doi:10.1016/j.jastp.2008.09.017, 2009.
2023. Stevens, M. H., C. R. Englert, M. Hervig, S. V. Petelina, W. Singer, and K. Nielsen, The diurnal variation of polar mesospheric cloud frequency near 55°N observed by SHIMMER, *J. Atmos. Solar-Terr. Phys.*, *71*, 3–4, 401-407, doi:10.1016/j.jastp.2008.10.009, 2009.
2024. Takahashi, H., M. A. Abdu, C. M. Wrasse, J. Fechine, I. S. Batista, D. Pancheva, L. M. Lima, P. P. Batista, B. R. Clemesha, K. Shiokawa, D. Gobbi, M. G. Mlynczak, and J. M. Russell III, Possible influence of ultra-fast Kelvin wave on the equatorial ionosphere evening uplifting, *Earth, Planets and Space*, *61*, 4, doi:10.1186/BF03353162, 2009.
2025. Takahashi, H., M. J. Taylor, P.-D. Pautet, A. F. Medeiros, D. Gobbi, C. M. Wrasse, J. Fechine, M. A. Abdu, I. S. Batista, E. Paula, J. H. A. Sobral, D. Arruda, S. L. Vadas, F. S. Sabbas, and D. C. Fritts, Simultaneous observation of ionospheric plasma bubbles and mesospheric gravity waves during the SpreadFEx Campaign, *Ann. Geophys.*, *27*, 1477-1487, doi:[10.5194/angeo-27-1477-2009](https://doi.org/10.5194/angeo-27-1477-2009), 2009.
2026. Takahashi, H., M. A. Abdu, C. M. Wrasse, J. Fechine, I. S. Batista, D. Pancheva, L. M. Lima, P. P. Batista, B. R. Clemesha, K. Shiokawa, D. Gobbi, M. G. Mlynczak, and J. M. Russell III, Possible influence of ultra-fast Kelvin wave on the equatorial ionosphere evening uplifting, *Earth, Planets Space*, *61*, 455-462, 2009.
2027. Thuillier, G., T. Foujols, D. Bolsée, D. Gillotay, M. Hersé, W. Peetermans, W. Decuyper, H. Mandel, P. Sperfeld, S. Pape, D. R. Taubert, and J. Hartmann, SOLAR/SOLSPEC: Scientific objectives, instrument performance and its absolute calibration using a blackbody as primary standard source, *Sol. Phys.*, *257*(1), 185-213, doi:[10.1007/s11207-009-9361-6](https://doi.org/10.1007/s11207-009-9361-6), 2009.
2028. Thurairajah, B., R. L. Collins, and K. Mizutani, Multi-year temperature measurements of the middle atmosphere at Chatanika, Alaska (65°N, 147°W), *Earth, Planets and Space*, *61*, 6, doi:10.1186/BF03353182, 2009.
2029. Tobiska, W. K., Operational Space Weather Entering a New Era, *Space Weather*, *7*, S10003, doi:[10.1029/2009SW000510](https://doi.org/10.1029/2009SW000510), 2009.
2030. Urban, J., M. Pommier, D. P. Murtagh, M. L. Santee, and Y. J. Orsolini, Nitric acid in the stratosphere based on Odin observations from 2001 to 2009 - Part 1: A global climatology, *Atmos. Chem. Phys.*, *9*, 18, doi:[10.5194/acp-9-7031-2009](https://doi.org/10.5194/acp-9-7031-2009), 2009.
2031. Vadas, S. L., and D. C. Fritts, Reconstruction of the gravity wave field from convective plumes via ray tracing, *Ann. Geophys.*, *27*, 147-177, 2009.
2032. Verronen, P. T., S. Ceccherini, U. Cortesi, E. Kyrölä, and J. Tamminen, Statistical comparison of night-time NO₂ observations in 2003–2006 from GOMOS and MIPAS instruments, *Adv. Space Res.*, *43*, 12, 1918-1925, doi:[10.1016/j.asr.2009.01.027](https://doi.org/10.1016/j.asr.2009.01.027), 2009.
2033. Wang, L., and M. J. Alexander, Gravity wave activity during stratospheric sudden warmings in the 2007-2008 Northern Hemisphere winter, *J. Geophys. Res.*, *114*, D18108, doi:[10.1029/2009JD011867](https://doi.org/10.1029/2009JD011867), 2009.

2034. Webb, D. F., S. E. Gibson, and B. J. Thompson, Whole Heliosphere Interval: Overview of JD16. *Proceedings of the Intl. Astronomical Union*, 5(H15), 471-479, doi:[10.1017/S174392131001032X](https://doi.org/10.1017/S174392131001032X), 2009.
2035. Wilson, L. B., C. A. Cattell, P. J. Kellogg, K. Goetz, K. Kersten, J. C. Kasper, A. Szabo, and K. Meziane, Low-frequency whistler waves and shocklets observed at quasi-perpendicular interplanetary shocks, *J. Geophys. Res.*, 114, A10106, doi:[10.1029/2009JA014376](https://doi.org/10.1029/2009JA014376), 2009.
2036. Winick, J. R., P. P. Wintersteiner, R. H. Picard, D. Esplin, M. G. Mlynczak, J. M. Russell III, and L. L. Gordley, OH layer characteristics during unusual boreal winters of 2004 and 2006, *J. Geophys. Res.*, 114, A02303, doi:[10.1029/2008JA013688](https://doi.org/10.1029/2008JA013688), 2009.
2037. Woods, T. N., and P. C. Chamberlin, Comparison of solar soft X-ray irradiance from broadband photometers to a high spectral resolution rocket observation, *Adv. Space Res.*, 43, 3, 349-354, doi:[10.1016/j.asr.2008.10.027](https://doi.org/10.1016/j.asr.2008.10.027), 2009.
2038. Woods, T. N., P. C. Chamberlin, J. W. Harder, R. A. Hock, M. Snow, F. G. Eparvier, J. Fontenla, W. E. McClintock, and E. C. Richard, Solar Irradiance Reference Spectra (SIRS) for the 2008 Whole Heliosphere Interval (WHI), *Geophys. Res. Lett.*, 36, L01101, doi:[10.1029/2008GL036373](https://doi.org/10.1029/2008GL036373), 2009.
2039. Wu, Q., S. C. Solomon, Y.-H. Kuo, T. L. Killeen, and J. Xu, Spectral analysis of ionospheric electron density and mesospheric neutral wind diurnal nonmigrating tides observed by COSMIC and TIMED satellite, *Geophys. Res. Lett.*, 36, L14102, doi:[10.1029/2009GL038933](https://doi.org/10.1029/2009GL038933), 2009.
2040. Xiao, C. Y., and X. Hu, Analysis on the global morphology of stratospheric gravity wave activity deduced from the COSMIC GPS occultation profiles, *GPS Solutions*, 14, 1, 65-74, doi:[10.1007/s10291-009-0146-z](https://doi.org/10.1007/s10291-009-0146-z), 2009.
2041. Xiao, C. Y., X. Hu, and J. Tian, Global temperature stationary planetary waves extending from 20 to 120 km observed by TIMED/SABER, *J. Geophys. Res.*, 114, D17101, doi:[10.1029/2008JD011349](https://doi.org/10.1029/2008JD011349), 2009.
2042. Xu, J., A. K. Smith, H.-L. Liu, W. Yuan, Q. Wu, G. Jiang, M. G. Mlynczak, and J. M. Russell III, Estimation of the equivalent Rayleigh friction in mesosphere/lower thermosphere region from the migrating diurnal tides observed by TIMED, *J. Geophys. Res.*, 114, D23103, doi:[10.1029/2009JD012209](https://doi.org/10.1029/2009JD012209), 2009.
2043. Xu, J., A. K. Smith, H.-L. Liu, W. Yuan, Q. Wu, G. Jiang, M. G. Mlynczak, J. M. Russell III, and S. J. Franke, Seasonal and quasi-biennial variations in the migrating diurnal tide observed by Thermosphere, Ionosphere, Mesosphere, Energetics and Dynamics (TIMED), *J. Geophys. Res.*, 114, D13107, doi:[10.1029/2008JD011298](https://doi.org/10.1029/2008JD011298), 2009.
2044. Xu, X., A. H. Manson, C. E. Meek, T. Chshyolkova, J. R. Drummond, C. M. Hall, Ch. Jacobi, D. Riggan, R. E. Hibbins, M. Tsutsumi, W. K. Hocking, and W. E. Ward, Relationship between variability of the semidiurnal tide in the Northern Hemisphere mesosphere and quasi-stationary planetary waves throughout the global middle atmosphere, *Ann. Geophys.*, 27, 11, doi:[10.5194/angeo-27-4239-2009](https://doi.org/10.5194/angeo-27-4239-2009), 2009.
2045. Yousefi, M. R., B. S. Kasmaei, A. Vahabie, C. Lucas, and B. N. Araabi, Input selection based on information theory for constructing predictor models of solar and geomagnetic activity indices, *Sol. Phys.*, 258(2), 297-318, doi:[10.1007/s11207-009-9418-6](https://doi.org/10.1007/s11207-009-9418-6), 2009.
2046. Žagar, N., J. Tribbia, J. L. Anderson, and K. Raeder, Uncertainties of Estimates of Inertia-Gravity Energy in the Atmosphere. Part II: Large-Scale Equatorial Waves, *Monthly Weather Review*, 137, 11, doi:[10.1175/2009MWR2816.1](https://doi.org/10.1175/2009MWR2816.1), 2009.
2047. Zsetsky, A. Y., S. V. Petelina, and I. M. Svishchev, Thermodynamics of homogeneous nucleation of ice particles in the polar summer mesosphere, *Atmos. Chem. Phys.*, 9, 3, doi:[10.5194/acp-9-965-2009](https://doi.org/10.5194/acp-9-965-2009), 2009.

2048. Zsetsky, A. Y., S. V. Petelina, R. Remorov, C. D. Boone, P. F. Bernath, and E. J. Llewellyn, Ice particle growth in the polar summer mesosphere: Formation time and equilibrium size, *Geophys. Res. Lett.*, 36, 15, doi:[10.1029/2009GL038727](https://doi.org/10.1029/2009GL038727), 2009.
2049. Zecha, M., and J. Röttger, Occurrence of polar mesosphere summer echoes at very high latitudes, *Ann. Geophys.*, 27, 3, doi:[10.5194/angeo-27-1331-2009](https://doi.org/10.5194/angeo-27-1331-2009), 2009.
2050. Zeller, O., P. Hoffmann, J. Bremer, and W. Singer, Mesosphere summer echoes, temperature, and meridional wind variations at mid- and polar latitudes, *J. Atmos. Solar-Terr. Phys.*, 71, 8–9, 931-942, doi:[10.1016/j.jastp.2009.03.013](https://doi.org/10.1016/j.jastp.2009.03.013), 2009.
2051. Zhang, M.-L., W. Wan, L. Liu, and B. Ning, Variability study of the crest-to-trough TEC ratio of the equatorial ionization anomaly around 120°E longitude, *Adv. Space Res.*, 11, 2, 1762-1769, doi:[10.1016/j.asr.2008.09.031](https://doi.org/10.1016/j.asr.2008.09.031), 2009.
2052. Zhao, B., W. Wan, L. Liu, K. Igarashi, K. Yumoto, and B. Ning, Ionospheric response to the geomagnetic storm on 13-17 April 2006 in the West Pacific region, *J. Atmos. Solar-Terr. Phys.*, 71, 88-100, doi:[10.1016/j.jastp.2008.09.029](https://doi.org/10.1016/j.jastp.2008.09.029), 2009.
2053. Zuo, X., W. Wan, and G. Zhao, An attempt to infer information on planetary wave by analyzing sporadic E layers observations, *Earth, Planets and Space*, 61, 1185-1190, doi:[10.1186/BF03352970](https://doi.org/10.1186/BF03352970), 2009.

2008

2054. Achatz, U., N. Grieger, and H. Schmidt, Mechanisms controlling the diurnal solar tide: Analysis using a GCM and a linear model, *J. Geophys. Res.*, 113, A8, doi:[10.1029/2007JA012967](https://doi.org/10.1029/2007JA012967), 2008.
2055. Ajello, J. M., J. Gustin, I. Stewart, K. Larsen, L. Esposito, W. Pryor, W. McClintock, M. H. Stevens, C. P. Malone, and D. Dziczek, Titan airglow spectra from the Cassini Ultraviolet Imaging Spectrograph: FUV disk analysis, *Geophys. Res. Lett.*, 35(6), doi:[10.1029/2007GL032315](https://doi.org/10.1029/2007GL032315), 2008.
2056. Alexander, S. P., and T. Tsuda, Observations of the diurnal tide during seven intensive radiosonde campaigns in Australia and Indonesia, *J. Geophys. Res.*, 113, D04109, doi:[10.1029/2007JD008717](https://doi.org/10.1029/2007JD008717), 2008.
2057. Alexander, S. P., T. Tsuda, Y. Kawatani, and M. Takahashi, Global distribution of atmospheric waves in the equatorial upper troposphere and lower stratosphere: COSMIC observations of wave mean flow interactions, *J. Geophys. Res.*, 113, D24, doi:[10.1029/2008JD010039](https://doi.org/10.1029/2008JD010039), 2008.
2058. Amblard, P.-O., S. Moussaoui, T. D. de Wit, J. Abouadarham, M. Kretzschmar, J. Lilensten, and F. Auchère, The EUV Sun as the superposition of elementary Suns, *Astron. & Astrophys.*, 487, 2, L13-L16, doi:[10.1051/0004-6361:200809588](https://doi.org/10.1051/0004-6361:200809588), 2008.
2059. Avakyan, S. V., Physics of the solar-terrestrial coupling: Results, problems, and new approaches, *Geomagn. Aeron.*, 48(4), 417-424, 2008.
2060. Barra, V., V. Delouille, and J. Hochedez, Segmentation of Extreme Ultraviolet Solar Images Via Multichannel Fuzzy Clustering, *Adv. Space Res.*, 42, 5, 917-925, doi:[10.1016/j.asr.2007.10.021](https://doi.org/10.1016/j.asr.2007.10.021), 2008.
2061. Baumgaertner, A. J. G., A. J. McDonald, R. E. Hibbins, D. C. Fritts, D. J. Murphy, and R. A. Vincent, Short-period planetary waves in the Antarctic middle atmosphere, *J. Atmos. Solar-Terr. Phys.*, 70, 10, 1336-1350, doi:[10.1016/j.jastp.2008.04.007](https://doi.org/10.1016/j.jastp.2008.04.007), 2008.
2062. Beharrell, M., and F. Honary, A new method for deducing the effective collision frequency profile in the D-region, *J. Geophys. Res.*, 113, A5, doi:[10.1029/2007JA012650](https://doi.org/10.1029/2007JA012650), 2008.
2063. Beig, G., J. Scheer, M. G. Mlynczak, and P. Kechkut, Overview of the temperature response in the mesosphere and lower thermosphere to solar activity, *Rev. Geophys.*, 46, RG3002, doi:[10.1029/2007RG000236](https://doi.org/10.1029/2007RG000236), 2008.

2064. Belova, A., S. Kirkwood, D. Murtagh, N. Mitchell, W. Singer, and W. Hocking, Five-day planetary waves in the middle atmosphere from Odin satellite data and ground-based instruments in Northern Hemisphere summer 2003, 2004, 2005 and 2007, *Ann. Geophys.*, 26, 11, doi:[10.5194/angeo-26-3557-2008](https://doi.org/10.5194/angeo-26-3557-2008), 2008.
2065. Berger, U., Modeling of middle atmosphere dynamics with LIMA, *J. Atmos. Solar-Terr. Phys.*, 70, 8–9, 1170-1200, doi:[10.1016/j.jastp.2008.02.004](https://doi.org/10.1016/j.jastp.2008.02.004), 2008.
2066. Bilitza, D., B. Reinisch, and J. Lastovicka, Progress in Observation-Based Ionospheric Modeling, *Space Weather*, 6, 2, doi:10.1029/2007SW000359, 2008.
2067. Bowman, B. R., W. K. Tobiska, and M. J. Kendra, The thermospheric semiannual density response to solar EUV heating. *J. Atmos. Solar-Terr. Phys.*, 70(11), 1482-1496, doi:[10.1016/j.jastp.2008.04.020](https://doi.org/10.1016/j.jastp.2008.04.020), 2008.
2068. Chamberlin, P. C., T. N. Woods, and F. G. Eparvier, Flare Irradiance Spectral Model (FISM): Flare component algorithms and results, *Space Weather*, 6, S05001, doi:[10.1029/2007SW000372](https://doi.org/10.1029/2007SW000372), 2008.
2069. Chamberlin, P. C., T. N. Woods, and F. G. Eparvier, New flare model using recent measurements of the solar ultraviolet irradiance, *Adv. Space Res.*, 42, 5, 912-916, doi:[10.1016/j.asr.2007.09.009](https://doi.org/10.1016/j.asr.2007.09.009), 2008.
2070. Chen, Z.-Y., and D.-R. Lü, Annual variation and global structures of the DE3 tide, *Chinese Physics Letters*, 25, 6, 2323-2326, doi:[10.1088/0256-307X/25/6/109](https://doi.org/10.1088/0256-307X/25/6/109), 2008.
2071. Chen, Z.-Y., and D.-R. Lü, Global structures and multi-temporal variabilities of MLT migrating diurnal tide, *Chinese Physics Letters*, 25, 4, 1510-1513, doi:[10.1088/0256-307X/25/4/093](https://doi.org/10.1088/0256-307X/25/4/093), 2008.
2072. Chen, Z.-Y., and D.-R. Lü, Satellite remote sensing of the characteristics of MLT mean temperatures in the 120 degrees E meridian: The mesopause, *Chinese Journal of Geophysics-Chinese Edition*, 51, 4, 982-990, 2008.
2073. Chura, C., and M. Hill, TIMED Spacecraft Operations Progression with Automation through Launch to the Second Extended Mission, doi:[10.2514/6.2008-3217](https://doi.org/10.2514/6.2008-3217), 2008.
2074. Crowley, G., A. Reynolds, J. P. Thayer, J. Lei, L. J. Paxton, A. B. Christensen, Y. Zhang, R. R. Meier, and D. J. Strickland, Periodic modulations in thermospheric composition by solar wind high speed streams, *Geophys. Res. Lett.*, 35, L21106, doi:[10.1029/2008GL035745](https://doi.org/10.1029/2008GL035745), 2008.
2075. Dalin, P., N. Pertsev, A. Zadorozhny, M. Connors, I. Schofield, I. Shelton, M. Zalcik, T. McEwan, I. McEachran, S. Frandsen, O. Hansen, H. Andersen, V. Sukhodoev, V. Perminov, and V. Romejko, Ground-based observations of noctilucent clouds with a northern hemisphere network of automatic digital cameras, *J. Atmos. Solar-Terr. Phys.*, 70, 11–12, 1460-1472, doi:10.1016/j.jastp.2008.04.018, 2008.
2076. de Wit, T. D., M. Kretzschmar, J. Abouadarham, P.-O. Amblard, F. Auchère, and J. Lilensten, Which Solar EUV Indices are Best for Reconstructing the Solar EUV Irradiance?, *Adv. Space Res.*, 42, 5, 903-911, doi:[10.1016/j.asr.2007.04.019](https://doi.org/10.1016/j.asr.2007.04.019), 2008.
2077. DeLand, M. T., and R. P. Cebula, Creation of a composite solar ultraviolet irradiance data set, *J. Geophys. Res. Space Physics*, 113(A11), 2008.
2078. Enell, C. F., P. T. Verronen, M. J. Beharrell, J. P. Vierinen, A. Kero, A. Seppälä, F. Honary, T. Ulich, and E. Turunen, Case study of the mesospheric and lower thermospheric effects of solar X-ray flares: coupled ion-neutral modelling and comparison with EISCAT and riometer measurements, *Ann. Geophys.*, 26, 8, 2311-2321, doi:[10.5194/angeo-26-2311-2008](https://doi.org/10.5194/angeo-26-2311-2008), 2008.
2079. Englert, C. R., M. H. Stevens, D. E. Siskind, J. M. Harlander, F. L. Roesler, H. M. Pickett, C. von Savigny, and A. J. Kochenash, First results from the Spatial Heterodyne Imager for Mesospheric Radicals (SHIMMER): Diurnal variation of mesospheric hydroxyl, *Geophys. Res. Lett.*, 35, L19813, doi:[10.1029/2008GL035420](https://doi.org/10.1029/2008GL035420), 2008.

2080. Ern, M., P. Preusse, M. Krebsbach, M. G. Mlynczak, and J. M. Russell III, Equatorial wave analysis from SABER and ECMWF temperatures, *Atmos. Chem. Phys.*, **8**, 845-869, 2008.
2081. Fechine, J., C. M. Wrasse, H. Takahashi, M. G. Mlynczak, and J. M. Russell III, Lower-mesospheric inversion layers over brazilian equatorial region using TIMED/SABER temperature profiles, *Adv. Space Res.*, *41*(9), 1447-1453, [doi:10.1016/j.asr.2007.04.070](https://doi.org/10.1016/j.asr.2007.04.070), 2008.
2082. Flury, T., S. C. Müller, K. Hocke, and N. Kämpfer, Water vapor transport in the lower mesosphere of the subtropics: a trajectory analysis, *Atmos. Chem. Phys.*, **8**, 23, [doi:10.5194/acp-8-7273-2008](https://doi.org/10.5194/acp-8-7273-2008), 2008.
2083. Forbes, J. M., X. Zhang, S. E. Palo, J. M. Russell III, C. J. Mertens, and M. G. Mlynczak, Tidal variability in the ionospheric dynamo region, *J. Geophys. Res.*, *113*, A02310, [doi:10.1029/2007JA012737](https://doi.org/10.1029/2007JA012737), 2008.
2084. Fox, J. L., Morphology of the dayside ionosphere of Venus: Implications for ion outflows, *J. Geophys. Res. Planets*, *113*(E11), [doi:10.1029/2008JE003182](https://doi.org/10.1029/2008JE003182), 2008.
2085. Fritts, D. C., S. L. Vadas, D. M. Riggin, M. A. Abdu, I. S. Batista, H. Takahashi, A. Medeiros, F. Kamalabadi, H.-L. Liu, B. G. Fejer, and M. J. Taylor, Gravity wave and tidal influences on equatorial spread F based on observations during the Spread F Experiment (SpreadFEx), *Ann. Geophys.*, **26**, 3235-3252, 2008.
2086. Funke, B., M. López-Puertas, M. Garcí-a-Comas, G. P. Stiller, T. von Clarmann, and N. Glatthor, Mesospheric N₂O enhancements as observed by MIPAS on Envisat during the polar winters in 2002-2004, *Atmos. Chem. Phys.*, **8**, 19, [doi:10.5194/acp-8-5787-2008](https://doi.org/10.5194/acp-8-5787-2008), 2008.
2087. García-Comas, M., M. López-Puertas, B. T. Marshall, P. P. Wintersteiner, B. Funke, D. Bermejo-Pantaleón, C. J. Mertens, E. E. Remsberg, L. L. Gordley, M. G. Mlynczak, and J. M. Russell III, Errors in Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) kinetic temperature caused by non-local-thermodynamic-equilibrium model parameters, *J. Geophys. Res.*, *113*, D24106, [doi:10.1029/2008JD010105](https://doi.org/10.1029/2008JD010105), 2008.
2088. Gelinas, L. J., J. H. Hecht, R. L. Walterscheid, R. G. Roble, and J. M. Woithe, A seasonal study of mesospheric temperatures and emission intensities at Adelaide and Alice Springs, *J. Geophys. Res.*, *113*, A1, [doi:10.1029/2007JA012587](https://doi.org/10.1029/2007JA012587), 2008.
2089. Gerding, M., J. Höffner, J. Lautenbach, M. Rauthe, and F.-J. Lübken, Seasonal variation of nocturnal temperatures between 1 and 105 km altitude at 54° N observed by lidar, *Atmos. Chem. Phys.*, **8**, 24, [doi:10.5194/acp-8-7465-2008](https://doi.org/10.5194/acp-8-7465-2008), 2008.
2090. Haeferle, A., K. Hocke, N. Kämpfer, P. Keckhut, M. Marchand, S. Bekki, B. Morel, T. Egorova, and E. Rozanov, Diurnal changes in middle atmospheric H₂O and O₃: Observations in the Alpine region and climate models, *J. Geophys. Res.*, *113*, D17303, [doi:10.1029/2008JD009892](https://doi.org/10.1029/2008JD009892), 2008.
2091. Harries, J., B. Carli, R. Rizzi, C. Serio, M. G. Mlynczak, L. Palchetti, T. Maestri, H. E. Brindley, and G. Masiello, The Far Infrared Earth, *Rev. Geophys.*, **46**, 4, [doi:10.1029/2007RG000233](https://doi.org/10.1029/2007RG000233), 2008.
2092. Hock, R. A., and F. G. Eparvier, Cross-calibration of TIMED SEE and SOHO EIT irradiances, *Sol. Phys.*, *250*, 1, 207-219, [doi:10.1007/s11207-008-9203-y](https://doi.org/10.1007/s11207-008-9203-y), 2008.
2093. Hoffmann, L., M. Kaufmann, R. Spang, R. Müller, J. J. Remedios, D. P. Moore, C. M. Volk, T. von Clarmann, and M. Riese, Envisat MIPAS measurements of CFC-11: retrieval, validation, and climatology, *Atmos. Chem. Phys.*, **8**, 13, [doi:10.5194/acp-8-3671-2008](https://doi.org/10.5194/acp-8-3671-2008), 2008.
2094. Hoppel, K. W., N. L. Baker, L. Coy, S. D. Eckermann, J. P. McCormack, G. E. Nedoluha, and D. E. Siskind, Assimilation of stratospheric and mesospheric temperatures from MLS and SABER into a global NWP model, *Atmos. Chem. Phys.*, **8**, 6103-6116, [doi:10.5194/acp-8-6103-2008](https://doi.org/10.5194/acp-8-6103-2008), 2008.
2095. Huang, F. T., H. G. Mayr, C. A. Reber, J. M. Russell III, M. G. Mlynczak, and J. G. Mengel, Ozone quasi-biennial oscillations (QBO), semiannual oscillations (SAO), and correlations with

- temperature in the mesosphere, lower thermosphere, and stratosphere, based on measurements from SABER on TIMED and MLS on UARS, *J. Geophys. Res.*, *113*, A01316, [doi:10.1029/2007JA012634](https://doi.org/10.1029/2007JA012634), 2008.
2096. Huang, F. T., H. G. Mayr, J. M. Russell III, M. G. Mlynczak, and C. A. Reber, Ozone diurnal variations and mean profiles in the mesosphere, lower thermosphere, and stratosphere, based on measurements from SABER on TIMED, *J. Geophys. Res.*, [doi:10.1029/2007JA012739](https://doi.org/10.1029/2007JA012739), 2008.
2097. Jiang, G.-Y., J. Xu, J. Xiong, R. Ma, B. Ning, Y. Murayama, D. Thorsen, S. Gurubaran, R. A. Vincent, I. Reid, and S. J. Franke, A case study of the mesospheric 6.5-day wave observed by radar systems, *J. Geophys. Res.*, *113*, D16, [doi:10.1029/2008JD009907](https://doi.org/10.1029/2008JD009907), 2008.
2098. Jin, S., O. F. Luo, and P. Park, GPS observations of the ionospheric F2-layer behavior during the 20th November 2003 geomagnetic storm over South Korea, *J. Geod.*, *82*(12), 883-892, [doi:10.1007/s00190-008-0217-x](https://doi.org/10.1007/s00190-008-0217-x), 2008.
2099. Kaufmann, M., C. Lehmann, L. Hoffmann, B. Funke, M. López-Puertas, C. v. Savigny, and M. Riese, Chemical heating rates derived from SCIAMACHY vibrationally excited OH limb emission spectra, *Adv. Space Res.*, *41*, 11, 1914-1920, [doi:10.1016/j.asr.2007.07.045](https://doi.org/10.1016/j.asr.2007.07.045), 2008.
2100. Kerzenmacher, T., M. A. Wolff, K. Strong, E. Dupuy, K. A. Walker, L. K. Amekudzi, R. L. Batchelor, P. F. Bernath, G. Berthet, T. Blumenstock, C. D. Boone, K. Bramstedt, C. Brogniez, S. Brohede, J. P. Burrows, V. Catoire, J. Dodion, J. R. Drummond, D. G. Dufour, B. Funke, D. Fussen, F. Goutail, D. W. T. Griffith, C. S. Haley, F. Hendrick, M. Höpfner, N. Huret, N. Jones, J. Kar, I. Kramer, E. J. Llewellyn, M. López-Puertas, G. Manney, C. T. McElroy, C. A. McLinden, S. Melo, S. Mikuteit, D. Murtagh, F. Nichitui, J. Notholt, C. Nowlan, C. Piccolo, J.-P. Pommereau, C. Randall, P. Raspollini, M. Ridolfi, A. Richter, M. Schneider, O. Schrems, M. Silicani, G. P. Stiller, J. Taylor, C. Tétard, M. Toohy, F. Vanhellefont, T. Warneke, J. M. Zawodny, and J. Zou, Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE), *Atmos. Chem. Phys.*, *8*, 5801-5841, [doi:10.5194/acp-8-5801-2008](https://doi.org/10.5194/acp-8-5801-2008), 2008.
2101. Kil, H., E. R. Talaat, S. Oh, L. J. Paxton, S. England, and S. Su, Wave structures of the plasma density and vertical E x B drift in low-latitude F region, *J. Geophys. Res. - Part F - Solid Earth*, *113*(A9), *12*, A09312, [doi:10.1029/2008JA013106](https://doi.org/10.1029/2008JA013106), 2008.
2102. Koustov, A., N. Nishitani, Y. Ebihara, T. Kikuchi, M. R. Hairston, and D. Andre, Subauroral polarization streams: observations with the Hokkaido and King Salmon SuperDARN radars and modeling, *Ann. Geophys.*, *26*, *11*, 3317-3327, 2008.
2103. Kumar, G. K., M. V. Ratnam, A. K. Patra, S. V. B. Rao, and J. M. Russell III, Mean thermal structure of the low-latitude middle atmosphere studied using Gadanki Rayleigh lidar, Rocket, and SABER/TIMED observations, *J. Geophys. Res.*, *113*, D23106, [doi:10.1029/2008JD010511](https://doi.org/10.1029/2008JD010511), 2008.
2104. Kumar, K. K., C. Vineeth, T. M. Antonita, T. K. Pant, and R. Sridharan, Determination of day-time OH emission heights using simultaneous meteor radar, day-glow photometer and TIMED/SABER observations over Thumba (8.5° N, 77° E), *Geophys. Res. Lett.*, *35*, *18*, L18809, [doi:10.1029/2008GL035376](https://doi.org/10.1029/2008GL035376), 2008.
2105. Kurkin, V. I., N. M. Polekh, O. M. Pirog, I. N. Poddel'skii, and A. E. Stepanov, Ionospheric Disturbances in the North-East Region of Russia according to Ionosonde Data in the Periods of Equinoxes, *Cosm. Res.*, *46*, *4*, 339-346, [doi:10.1134/S0010952508040096](https://doi.org/10.1134/S0010952508040096), 2008.
2106. Lekshmi, D. V., N. Balan, V. K. Vaidyan, H. Alleyne, and G. J. Bailey, Response of the ionosphere to super geomagnetic storms: Observations and modeling, *Adv. Space Res.*, *41*, *4*, 548-555, [doi:10.1016/j.asr.2007.08.029](https://doi.org/10.1016/j.asr.2007.08.029), 2008.
2107. Li, T., C.-Y. She, S. E. Palo, Q. Wu, H.-L. Liu, and M. L. Salby, Coordinated Lidar and TIMED observations of the quasi-two-day wave during August 2002-2004 and possible quasi-

- biennial oscillation influence, *Adv. Space Res.*, 41(9), 1463-1471, doi:[10.1016/j.asr.2007.03.052](https://doi.org/10.1016/j.asr.2007.03.052), 2008.
2108. Li, T., T. Leblanc, and I. S. McDermid, Interannual variations of middle atmospheric temperature as measured by the JPL lidar at Mauna Loa Observatory, Hawaii (19.5°N, 155.6°W), *J. Geophys. Res.*, 113, D14, doi:[10.1029/2007JD009764](https://doi.org/10.1029/2007JD009764), 2008.
2109. Lilensten, J., T. D. de Wit, and M. Kretzschmar, Review on the solar spectral variability in the EUV for space weather purposes, In: *Ann. Geophys.: atmospheres, hydrospheres and space sciences*, 26, 2, p. 269, 2008.
2110. Liu, G., and G. G. Shepherd, An Investigation of the Solar Cycle Impact on the Lower Thermosphere O(¹S) Nightglow Emission as Observed by WINDII/UARS, *Adv. Space Res.*, 42, 5, 933-938, doi:[10.1016/j.asr.2007.10.008](https://doi.org/10.1016/j.asr.2007.10.008), 2008.
2111. Liu, G., G. G. Shepherd, and R. G. Roble, Seasonal variations of the nighttime O(¹S) and OH airglow emission rates at mid-to-high latitudes in the context of the large-scale circulation, *J. Geophys. Res.*, 113, A06302, doi:[10.1029/2007JA012854](https://doi.org/10.1029/2007JA012854), 2008.
2112. Liu, H.-L., and S. Watanabe, Seasonal variation of the longitudinal structure of the equatorial ionosphere: Does it reflect tidal influences from below?, *J. Geophys. Res.*, 113, A08315, doi:[10.1029/2008JA013027](https://doi.org/10.1029/2008JA013027), 2008.
2113. Lossow, S., J. Urban, J. Gumbel, P. Eriksson, and D. Murtagh, Observations of the mesospheric semi-annual oscillation (MSAO) in water vapour by Odin/SMR, *Atmos. Chem. Phys.*, 8, 21, doi:[10.5194/acp-8-6527-2008](https://doi.org/10.5194/acp-8-6527-2008), 2008.
2114. Lühr, H., M. Rother, K. Häusler, P. Alken, and S. Maus, The influence of nonmigrating tides on the longitudinal variation of the equatorial electrojet, *J. Geophys. Res.*, 113, A8, doi:[10.1029/2008JA013064](https://doi.org/10.1029/2008JA013064), 2008.
2115. Manney, G. L., K. Kruger, S. Pawson, K. Minschwaner, M. Schwartz, W. Daffer, N. Livesey, M. G. Mlynczak, E. E. Remsberg, J. M. Russell III, and J. Waters, The evolution of the stratopause during the 2006 major warming: Satellite data and assimilated meteorological analyses, *J. Geophys. Res.*, doi:[10.1029/2007JD009097](https://doi.org/10.1029/2007JD009097), 2008.
2116. Manney, G. L., W. H. Daffer, K. B. Strawbridge, K. A. Walker, C. D. Boone, P. F. Bernath, T. Kerzenmacher, M. J. Schwartz, K. Strong, R. J. Sica, K. Krüger, H. C. Pumphrey, A. Lambert, M. L. Santee, N. J. Livesey, E. E. Remsberg, M. G. Mlynczak, and J. M. Russell III, The high Arctic in extreme winters: vortex, temperature, and MLS and ACE-FTS trace gas evolution, *Atmos. Chem. Phys.*, 8, 505-522, doi:[10.5194/acp-8-505-2008](https://doi.org/10.5194/acp-8-505-2008), 2008.
2117. Manson, A. H., C. E. Meek, and T. Chshyolkova, Regional stratospheric warmings in the Pacific-Western Canada (PWC) sector during winter 2004/2005: implications for temperatures, winds, chemical constituents and the characterization of the Polar vortex, *Ann. Geophys.*, 26, 11, doi:[10.5194/angeo-26-3597-2008](https://doi.org/10.5194/angeo-26-3597-2008), 2008.
2118. McConnell, J. C., and J. J. Jin, Stratospheric ozone chemistry, *Atmosphere-Ocean*, 46, 1, 69-92, doi:[10.3137/ao.460104](https://doi.org/10.3137/ao.460104), 2008.
2119. McCormack, J. P., K. W. Hoppel, and D. E. Siskind, Parameterization of middle atmospheric water vapor photochemistry for high-altitude NWP and data assimilation, *Atmos. Chem. Phys.*, 8, 24, doi:[10.5194/acp-8-7519-2008](https://doi.org/10.5194/acp-8-7519-2008), 2008.
2120. Merkel, A. W., R. R. Garcia, S. M. Bailey, and J. M. Russell III, Observational studies of planetary waves in PMCs and mesospheric temperature measured by SNOE and SABER, *J. Geophys. Res.*, 113, D14, D14202, doi:[10.1029/2007JD009396](https://doi.org/10.1029/2007JD009396), 2008.
2121. Mertens, C. J., J. R. Fernandez, X. Xu, D. S. Evans, M. G. Mlynczak, and J. M. Russell III, A new source of auroral infrared emission observed by TIMED/SABER, *Geophys. Res. Lett.*, 35, L17106, doi:[10.1029/2008GL034701](https://doi.org/10.1029/2008GL034701), 2008.
2122. Merzlyakov, E. G., and T. V. Solov'eva, Interhemispheric distinctions between the polar vortex positions in the winter stratosphere and mesosphere from measurements with a SABER

- instrument aboard the TIMED satellite, *Izvestiya, Atmospheric and Oceanic Physics*, 44, 3, 307-318, [doi:10.1134/S0001433808030067](https://doi.org/10.1134/S0001433808030067), 2008.
2123. Mlynczak, M. G., F. J. Martin-Torres, C. J. Mertens, B. T. Marshall, R. E. Thompson, J. U. Kozyra, E. E. Remsberg, L. L. Gordley, J. M. Russell III, and T. N. Woods, Solar-terrestrial coupling evidenced by periodic behavior in geomagnetic indexes and the infrared energy budget of the thermosphere, *Geophys. Res. Lett.*, 35, L05805, [doi:10.1029/2007GL032620](https://doi.org/10.1029/2007GL032620), 2008.
2124. Mulligan, F. J., and R. P. Lowe, OH-equivalent temperatures derived from ACE-FTS and SABER temperature profiles - a comparison with OH*(3-1) temperatures from Maynooth (53.2° N, 6.4° W), *Ann. Geophys.*, 26, 4, 795-811, [doi:10.5194/angeo-26-795-2008](https://doi.org/10.5194/angeo-26-795-2008), 2008.
2125. Nowakowski, R., and M. Bojanowska, Storm-time dynamic Alfvén layers: Testing electric and magnetic field models, *J. Atmos. Solar-Terr. Phys.*, 70, Issues 2-4, 526-531, [doi:10.1016/j.jastp.2007.08.062](https://doi.org/10.1016/j.jastp.2007.08.062), 2008.
2126. Oberheide, J., and J. M. Forbes, Thermospheric nitric oxide variability induced by nonmigrating tides, *Geophys. Res. Lett.*, 35, 16, [doi:10.1029/2008GL034825](https://doi.org/10.1029/2008GL034825), 2008.
2127. Oberheide, J., and J. M. Forbes, Tidal propagation of deep tropical cloud signatures into the thermosphere from TIMED observations, *Geophys. Res. Lett.*, 35, L04816, [doi:10.1029/2007GL032397](https://doi.org/10.1029/2007GL032397), 2008.
2128. Pancheva, D., P. J. Mukhtarov, N. J. Mitchell, D. C. Fritts, D. M. Riggan, H. Takahashi, P. P. Batista, B. R. Clemesha, S. Gurubaran, and G. Ramkumar, Planetary wave coupling (5-6-day waves) in the low-latitude atmosphere-ionosphere system, *J. Atmos. Solar-Terr. Phys.*, 70, 1, [doi:10.1016/j.jastp.2007.10.003](https://doi.org/10.1016/j.jastp.2007.10.003), 2008.
2129. Pancheva, D., P. Mukhtarov, N. J. Mitchell, B. Andonov, E. Merzlyakov, W. Singer, Y. Murayama, S. Kawamura, J. Xiong, W. Wan, W. Hocking, D. Fritts, D. Riggan, C. Meek, and A. Manson, Latitudinal wave coupling of the stratosphere and mesosphere during the major stratospheric warming in 2003/2004, *Ann. Geophys.*, 26, 3, [doi:10.5194/angeo-26-467-2008](https://doi.org/10.5194/angeo-26-467-2008), 2008.
2130. Pancheva, D. V., P. Mukhtarov, N. J. Mitchell, E. Merzlyakov, A. K. Smith, B. Andonov, W. Singer, W. Hocking, C. Meek, A. Manson, and Y. Murayama, Planetary waves in coupling the stratosphere and mesosphere during the major stratospheric warming in 2003/2004, *J. Geophys. Res.*, 113, D12105, [doi:10.1029/2007JD009011](https://doi.org/10.1029/2007JD009011), 2008.
2131. Parihar, N., and G. K. Mukherjee, Measurement of mesopause temperature from hydroxyl nightglow at Kolhapur (16.8°N, 74.2°E), India, *Adv. Space Res.*, 41, 4, 660-669, [doi:10.1016/j.asr.2007.05.002](https://doi.org/10.1016/j.asr.2007.05.002), 2008.
2132. Park, S. M., H. Kim, S. Min, J. Park, J. H. Lee, H. Kil, L. J. Paxton, S.-Y. Su, J. Lee, and K. W. Min, Effects of solar activity variations on the low latitude topside nighttime ionosphere, *Adv. Space Res.*, 42, 626-633, [doi:10.1016/j.asr.2007.11.031](https://doi.org/10.1016/j.asr.2007.11.031), 2008.
2133. Pawlowski, D. J., and A. J. Ridley, Modeling the thermospheric response to solar flares, *J. Geophys. Res. Space Physics*, 113(A10), 2008.
2134. Pedatella, N. M., J. M. Forbes, and J. Oberheide, Intra-annual variability of the low-latitude ionosphere due to nonmigrating tides, *Geophys. Res. Lett.*, 35, 18, [doi:10.1029/2008GL035332](https://doi.org/10.1029/2008GL035332), 2008.
2135. Peterson, W. K., P. C. Chamberlin, T. N. Woods, and P. G. Richards, Temporal and spectral variations of the photoelectron flux and solar irradiance during an X class solar flare, *Geophys. Res. Lett.*, 35, L12102, [doi:10.1029/2008GL033746](https://doi.org/10.1029/2008GL033746), 2008.
2136. Peterson, W. K., T. N. Woods, P. C. Chamberlin, and P. G. Richards, Photoelectron flux variations observed from the FAST satellite, *Adv. Space Res.*, 42, 5, 947-956, [doi:10.1016/j.asr.2007.08.038](https://doi.org/10.1016/j.asr.2007.08.038), 2008.

2137. Preusse, P., S. D. Eckermann, and M. Ern, Transparency of the atmosphere to short horizontal wavelength gravity waves, *J. Geophys. Res.*, 113, D24, doi:10.1029/2007JD009682, 2008.
2138. Pryor, W., P. Gangopadhyay, B. Sandel, T. Forrester, E. Quemerais, E. Möbius, L. Esposito, I. Stewart, W. McClintock, A. Jouchoux, J. Colwell, V. Izmodenov, Y. Malama, K. Tobiska, D. Shemansky, J. M. Ajello, C. Hansen, and M. Bzowski, Radiation transport of heliospheric Lyman- alpha from combined Cassini and Voyager data sets, *Astron. & Astrophys.*, 491(1), 21-28, doi:[10.1051/0004-6361:20078862](https://doi.org/10.1051/0004-6361:20078862), 2008.
2139. Qian, L., R. G. Roble, S. C. Solomon, and T. J. Kane, Model simulations of global change in the ionosphere, *Geophys. Res. Lett.*, 35, L07811, doi:10.1029/2007GL033156, 2008.
2140. Qian, L., S. C. Solomon, R. G. Roble, B. R. Bowman, and F. A. Marcos, Thermospheric neutral density response to solar forcing, *Adv. Space Res.*, 42, 5, 926-932, doi:10.1016/j.asr.2007.10.019, 2008.
2141. Rauthe, M., M. Gerding, and F.-J. Lübken, Seasonal changes in gravity wave activity measured by lidars at mid-latitudes, *Atmos. Chem. Phys.*, 8, 22, doi:10.5194/acp-8-6775-2008, 2008.
2142. Remsberg, E. E., B. T. Marshall, M. García-Comas, D. Krueger, G. S. Lingenfelter, F. J. Martin-Torres, M. G. Mlynczak, J. M. Russell III, A. K. Smith, Y. Zhao, C. Brown, L. L. Gordley, M. J. López-González, M. López-Puertas, C.-Y. She, M. J. Taylor, and R. E. Thompson, Assessment of the quality of the retrieved temperature versus pressure profiles in the middle atmosphere from TIMED/SABER, *J. Geophys. Res.*, 113, D17101, doi:10.1029/2008JD010013, 2008.
2143. Remsberg, E. E., On the observed changes in upper stratospheric and mesospheric temperatures from UARS HALOE, *Ann. Geophys.*, 26, 5, doi:10.5194/angeo-26-1287-2008, 2008.
2144. Richter, J. H., F. Sassi, R. Garcia, K. Matthes, and C. A. Fischer, Dynamics of the middle atmosphere as simulated by the Whole Atmosphere Community Climate Model, version 3 (WACCM3), *J. Geophys. Res.*, 113, D08101, doi:10.1029/2007JD009269, 2008.
2145. Rodrigues, F. S., D. L. Hysell, and E. R. de Paula, Coherent backscatter radar imaging in Brazil: large-scale waves in the bottomside F-region at the onset of equatorial spread F, *Ann. Geophys.*, 26, 3355-3364, doi:10.5194/angeo-26-3355-2008, 2008.
2146. Rusch, D. W., S. M. Bailey, G. E. Thomas, and A. W. Merkel, Seasonal-latitude variations of PMC particle size from SME measurements for the northern 1983 season and SNOE measurements for the northern 2000 and southern 2000/2001 seasons, *J. Atmos. Solar-Terr. Phys.*, 70, 1, 71-88, doi:10.1016/j.jastp.2007.10.006, 2008.
2147. Sandah, I., T. Sergienko, and U. Brändström, Fine structure of optical aurora, *J. Atmos. Solar-Terr. Phys.*, 70, 2275-2292, doi:10.1016/j.jastp.2008.08.016, 2008.
2148. Scherliess, L., D. Thompson, and R. Schunk, Longitudinal variability of low-latitude total electron content: tidal influences, *J. Geophys. Res.*, 113, A01311, doi:10.1029/2007JA012480, 2008.
2149. Schwartz, M. J., A. Lambert, G. L. Manney, W. G. Read, N. J. Livesey, L. Froidevaux, C. O. Ao, P. F. Bernath, C. D. Boone, R. E. Cofield, W. H. Daffer, B. J. Drouin, E. J. Fetzer, R. A. Fuller, R. F. Jarnot, J. H. Jiang, Y. B. Jiang, B. W. Knosp, K. Kruger, J.-L. F. Li, M. G. Mlynczak, S. Pawson, J. M. Russell III, M. L. Santee, W. V. Snyder, P. C. Stek, R. P. Thurstans, A. M. Tompkins, P. A. Wagner, K. A. Walker, J. W. Waters, and D. L. Wu, Validation of the Aura Microwave Limb Sounder Temperature and Geopotential Height Measurements, *J. Geophys. Res.*, 113, D15S11, doi:10.1029/2007JD008783, 2008.
2150. Semeniuk, K., J. C. McConnell, J. J. Jin, J. R. Jarosz, C. D. Boone, and P. F. Bernath, N₂O production by high energy auroral electron precipitation, *J. Geophys. Res.*, 113, D16302, doi:10.1029/2007JD009690, 2008.

2151. Shepherd, M. G., and T. Tsuda, Large-scale planetary disturbances in stratospheric temperature at high-latitudes in the southern summer hemisphere, *Atmos. Chem. Phys.*, 8, 24, doi:[10.5194/acp-8-7557-2008](https://doi.org/10.5194/acp-8-7557-2008), 2008.
2152. Sica, R. J., M. R. M. Izawa, K. A. Walker, C. Boone, S. V. Petelina, P. S. Argall, P. Bernath, G. B. Burns, V. Catoire, R. L. Collins, W. H. Daffer, C. De Clercq, Z. Y. Fan, B. J. Firanski, W. J. R. French, P. Gerard, M. Gerding, J. Granville, J. L. Innis, P. Keckhut, T. Kerzenmacher, A. R. Klekociuk, E. Kyrö, J. C. Lambert, E. J. Llewellyn, G. L. Manney, I. S. McDermid, K. Mizutani, Y. Murayama, C. Piccolo, P. Raspollini, M. Ridolfi, C. Robert, W. Steinbrecht, K. B. Strawbridge, K. Strong, R. Stübi, and B. Thurairajah, Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements, *Atmos. Chem. Phys.*, 8, 35-62, doi:[10.5194/acp-8-35-2008](https://doi.org/10.5194/acp-8-35-2008), 2008.
2153. Siskind, D. E., D. R. Marsh, M. G. Mlynczak, F. J. Martin-Torres, and J. M. Russell III, Decreases in atomic hydrogen over the summer pole: Evidence for dehydration from Polar Mesospheric Clouds?, *Geophys. Res. Lett.*, 35, L13809, doi:[10.1029/2008GL033742](https://doi.org/10.1029/2008GL033742), 2008.
2154. Smith, A. K., D. R. Marsh, J. M. Russell III, M. G. Mlynczak, F. J. Martin-Torres, and E. Kyrölä, Satellite observations of high nighttime ozone at the equatorial mesopause, *J. Geophys. Res.*, 113, D17312, doi:[10.1029/2008JD010066](https://doi.org/10.1029/2008JD010066), 2008.
2155. Smithtro, C. G., and S. C. Solomon, An improved parameterization of thermal electron heating by photoelectrons, with application to an X17 flare, *J. Geophys. Res.*, 113, A08307, doi:[10.1029/2008JA013077](https://doi.org/10.1029/2008JA013077), 2008.
2156. Sonnemann, G. R., P. Hartogh, M. Grygalashvyly, Song Li, and U. Berger, The quasi 5-day signal in the mesospheric water vapor concentration at high latitudes in 2003—a comparison between observations at ALOMAR and calculations, *J. Geophys. Res.*, 113, D04101, doi:[10.1029/2007JD008875](https://doi.org/10.1029/2007JD008875), 2008.
2157. Sridharan, S., T. Tsuda, T. Nakamura, and T. Horinouchi, The 5-8-day Kelvin and Rossby waves in the tropics as revealed by ground and satellite-based observations, *J. Met. Soc. of Japan*, 86, 1, 43-55, doi:[10.2151/jmsj.86.43](https://doi.org/10.2151/jmsj.86.43), 2008.
2158. Stephan, A. W., R. R. Meier, and L. J. Paxton, Comparison of Global Ultraviolet Imager limb and disk observations of column O/N₂ during a geomagnetic storm, *J. Geophys. Res.*, 113, A01301, doi:[10.1029/2007JA012599](https://doi.org/10.1029/2007JA012599), 2008.
2159. Sternovsky, Z., P. Chamberlin, M. Horanyi, S. Robertson, and X. Wang, Variability of the lunar photoelectron sheath and dust mobility due to solar activity, *J. Geophys. Res.*, 113, A10104, doi:[10.1029/2008JA013487](https://doi.org/10.1029/2008JA013487), 2008.
2160. Stiller, G. P., T. von Clarmann, M. Höpfner, N. Glatthor, U. Grabowski, S. Kellmann, A. Kleinert, A. Linden, M. Milz, T. Reddmann, T. Steck, H. Fischer, B. Funke, M. López-Puertas, and A. Engel, Global distribution of mean age of stratospheric air from MIPAS SF₆ measurements, *Atmos. Chem. Phys.*, 8, 3, doi:[10.5194/acp-8-677-2008](https://doi.org/10.5194/acp-8-677-2008), 2008.
2161. Stober, G., C. Jacobi, K. Frohlich, and J. Oberheide, Meteor radar temperatures over Collm (51.3N, 13E), *Adv. Space Res.*, 42, 7, 1253-1258, doi:[10.1016/j.asr.2007.10.018](https://doi.org/10.1016/j.asr.2007.10.018), 2008.
2162. Sun, W., Y. Hu, N. Loeb, B. Lin, and M. G. Mlynczak, Using CERES data to Evaluate the Infrared Flux Derived from Diffusivity Approximation, *IEEE Geosci. Remote Sens. Lett.*, 5, 17-20, doi:[10.1109/LGRS.2007.905198](https://doi.org/10.1109/LGRS.2007.905198), 2008.
2163. Tian, F., S. C. Solomon, L. Qian, J. Lei, and R. G. Roble, Hydrodynamic planetary thermosphere model, II: Coupling of energetic electron transport model, *J. Geophys. Res.*, 113, E07005, doi:[10.1029/2007JE003043](https://doi.org/10.1029/2007JE003043), 2008.
2164. Tobiska, W. K., International Standards Will Enhance Space Weather Management, *Space Weather*, 6, S06001, doi:[10.1029/2008SW000410](https://doi.org/10.1029/2008SW000410), 2008.
2165. Tobiska, W. K., S. D. Bouwer, and B. R. Bowman, The development of new solar indices for use in thermospheric density modeling, *J. Atmos. Solar-Terr. Phys.*, 70, 5, 803-819, doi:[10.1016/j.jastp.2007.11.001](https://doi.org/10.1016/j.jastp.2007.11.001), 2008.

2166. Waldrop, L. S., R. Kerr, and P. Richards, Photoelectron impact excitation of OI 8446 Å emission observed from Arecibo Observatory, *J. Geophys. Res. Space Physics*, 113(A1), doi:[10.1029/2007JA012356](https://doi.org/10.1029/2007JA012356), 2008.
2167. Watanabe, S., Y. Kawatani, Y. Tomikawa, K. Miyazaki, M. Takahashi, and K. Sato, General aspects of a T213L256 middle atmosphere general circulation model, *J. Geophys. Res.*, 113, D12110, doi:[10.1029/2008JD010026](https://doi.org/10.1029/2008JD010026), 2008.
2168. Woods, T. N., P. C. Chamberlin, W. K. Peterson, R. R. Meier, P. G. Richards, D. J. Strickland, G. Lu, L. Qian, S. C. Solomon, B. A. Iijima, A. J. Mannucci, and B. T. Tsurutani, XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models, *Sol. Phys.*, 250, 2, 235-267, doi:[10.1007/s11207-008-9196-6](https://doi.org/10.1007/s11207-008-9196-6), 2008.
2169. Woods, T. N., Recent advances in observations and modeling of the solar ultraviolet and X-ray irradiance, *Adv. Space Res.*, 42, 5, 895-902, doi:[10.1016/j.asr.2007.09.026](https://doi.org/10.1016/j.asr.2007.09.026), 2008.
2170. Wrasse, C. M., J. Fechine, H. Takahashi, C. M. Denardini, J. Wickert, M. G. Mlynczak, J. M. Russell III, and C. L. Barbosa, Temperature comparison between CHAMP radio occultation and TIMED/SABER measurements in the lower stratosphere, *Adv. Space Res.*, 41, 9, 1423-1428, doi:[10.1016/j.asr.2007.06.073](https://doi.org/10.1016/j.asr.2007.06.073), 2008.
2171. Wu, D. L., and S. D. Eckermann, Global Gravity Wave Variances from Aura MLS: Characteristics and Interpretation, *J. Atmos. Sci.*, 65, 12, doi:[10.1175/2008JAS2489.1](https://doi.org/10.1175/2008JAS2489.1), 2008.
2172. Wu, D. L., M. J. Schwartz, J. W. Waters, V. Limpasuvan, Q. Wu, and T. L. Killeen, Mesospheric doppler wind measurements from Aura Microwave Limb Sounder (MLS), *Adv. Space Res.*, 42, 7, 1246-1252, doi:[10.1016/j.asr.2007.06.014](https://doi.org/10.1016/j.asr.2007.06.014), 2008.
2173. Wu, Q., D. A. Ortland, T. L. Killeen, R. G. Roble, M. E. Hagan, H.-L. Liu, S. C. Solomon, J. Xu, W. R. Skinner, and R. J. Niciejewski, Global Distribution and Interannual Variations of Mesospheric and Lower Thermospheric Neutral Wind Diurnal Tide, 2: Nonmigrating Tide, *J. Geophys. Res.*, 113, A05309, doi:[10.1029/2007JA012543](https://doi.org/10.1029/2007JA012543), 2008.
2174. Wu, Q., D. A. Ortland, T. L. Killeen, R. G. Roble, M. E. Hagan, H.-L. Liu, S. C. Solomon, J. Xu, W. R. Skinner, and R. J. Niciejewski, Global Distribution and Interannual Variations of Mesospheric and Lower Thermospheric Neutral Wind Diurnal Tide, 1: Migrating Tide, *J. Geophys. Res.*, 113, A05308, doi:[10.1029/2007JA012542](https://doi.org/10.1029/2007JA012542), 2008.
2175. Xue, X.-H., W.-X. Wan, J.-G. Xiong, and X.-K. Dou, The characteristics of the semi-diurnal tides in mesosphere/low-thermosphere (MLT) during 2002 at Wuhan (30.6°N, 114.4°E) – using canonical correlation analysis technique, *Adv. Space Res.*, 41, 9, 1415-1422, doi:[10.1016/j.asr.2007.04.071](https://doi.org/10.1016/j.asr.2007.04.071), 2008.
2176. Zeng, Z., W. Randel, S. Sokolovskiy, C. Deser, Y.-H. Kuo, M. Hagan, J. Du, and W. Ward, Detection of migrating diurnal tide in the tropical upper troposphere and lower stratosphere using the Challenging Minisatellite Payload radio occultation data, *J. Geophys. Res.*, 113, D03102, doi:[10.1029/2007JD008725](https://doi.org/10.1029/2007JD008725), 2008.
2177. Zhang, S. P., and G. G. Shepherd, Variations of the O(¹D) and O(¹S) Peak Volume Emission Rates Without Direct Solar Effects, *Adv. Space Res.*, 42, 5, 939-946, doi:[10.1016/j.asr.2007.09.004](https://doi.org/10.1016/j.asr.2007.09.004), 2008.
2178. Zhang, Y., and L. J. Paxton, An empirical Kp-dependent global auroral model based on TIMED/GUVI FUV data, *J. Atmos. Solar-Terr. Phys.*, 70(8), 1231-1242, doi:[10.1016/j.jastp.2008.03.008](https://doi.org/10.1016/j.jastp.2008.03.008), 2008.
2179. Zhang, Y., L. J. Paxton, and Y. Zheng, Interplanetary shock induced ring current auroras, *J. Geophys. Res.*, 113, A01212, doi:[10.1029/2007JA012554](https://doi.org/10.1029/2007JA012554), 2008.
2180. Zhu, X., J.-H. Yee, E. R. Talaat, M. G. Mlynczak, and J. M. Russell III, Diagnostic analysis of tidal winds and the Eliassen-Palm flux divergence in the mesosphere and lower thermosphere from TIMED/SABER temperatures, *J. Atmos. Sci.*, 65, 12, 3840-3859, doi:[10.1175/2008JAS2801.1](https://doi.org/10.1175/2008JAS2801.1), 2008.

2007

2181. Ajello, J. M., M. H. Stevens, I. Stewart, K. Larsen, L. Esposito, J. Colwell, W. McClintock, G. Holsclaw, J. Gustin, and W. Pryor, Titan airglow spectra from Cassini ultraviolet imaging spectrograph (UVIS): EUV analysis, *Geophys. Res. Lett.*, *34*, L24204, doi:[10.1029/2007GL031555](https://doi.org/10.1029/2007GL031555), 2007.
2182. Alken, P., and S. Maus, Spatio-temporal characterization of the equatorial electrojet from CHAMP, Ørsted, and SAC-C satellite magnetic measurements, *J. Geophys. Res.*, *112*, A09305, doi:[10.1029/2007JA012524](https://doi.org/10.1029/2007JA012524), 2007.
2183. Bailey, S. M., A. W. Merkel, G. E. Thomas, and D. W. Rusch, Hemispheric differences in Polar Mesospheric Cloud morphology observed by the Student Nitric Oxide Explorer, *J. Atmos. Solar-Terr. Phys.*, *69*, 12, 1407-1418, doi:[10.1016/j.jastp.2007.02.008](https://doi.org/10.1016/j.jastp.2007.02.008), 2007.
2184. Baker, D. J., B. K. Thurgood, W. K. Harrison, M. G. Mlynczak, and J. M. Russell III, Equatorial enhancement of the nighttime OH mesospheric infrared airglow, *Phys. Scr.*, *75*, 615-619, doi:[10.1088/0031-8949/75/5/004](https://doi.org/10.1088/0031-8949/75/5/004), 2007.
2185. Baker, J. B. H., R. A. Greenwald, J. M. Ruohoniemi, K. Oksavik, J. W. Gjerloev, L. J. Paxton, and M. R. Hairston, Observations of ionospheric convection from the Wallops SuperDARN radar at middle latitudes, *J. Geophys. Res.*, *112*, A01303, doi:[10.1029/2006JA011982](https://doi.org/10.1029/2006JA011982), 2007.
2186. Bruinsma, S. L., and J. M. Forbes, Storm-Time Equatorial Density Enhancements Observed by CHAMP and GRACE, *J. Spacecr. Rockets*, *44*, 6, 1154, doi:[10.2514/1.28134](https://doi.org/10.2514/1.28134), 2007.
2187. Burns, A. G., S. C. Solomon, W. Wang, and T. L. Killeen, The ionospheric and thermospheric response to CMEs: Challenges and successes, *J. Atmos. Solar-Terr. Phys.*, *69*, 77-85, doi:[10.1016/j.jastp.2006.06.010](https://doi.org/10.1016/j.jastp.2006.06.010), 2007.
2188. Chamberlin, P. C., T. N. Woods, and F. G. Eparvier, Flare Irradiance Spectral Model (FISM): Daily component algorithms and results, *Space Weather*, *5*, S07005, doi:[10.1029/2007SW000316](https://doi.org/10.1029/2007SW000316), 2007.
2189. Chen, Z.-Y., and D.-R. Lü, Seasonal Variations of the MLT tides in 120°E Meridian, *Chinese Journal of Geophysics*, *50*, 3, 606–616, doi:[10.1002/cjg2.1073](https://doi.org/10.1002/cjg2.1073), 2007.
2190. Comberiate, J. M., F. Kamalabadi, and L. J. Paxton, A tomographic model for ionospheric imaging with the Global Ultraviolet Imager, *Radio Sci.*, *42*, RS2001, doi:[10.1029/2005RS003348](https://doi.org/10.1029/2005RS003348), 2007.
2191. Cosby, P. C., and T. G. Slanger, OH spectroscopy and chemistry investigated with astronomical sky spectra, *Can. J. Phys.*, *85*, 2, doi:[10.1139/P06-088](https://doi.org/10.1139/P06-088), 2007.
2192. DeLand, M. T., E. P. Shettle, G. E. Thomas, and J. J. Olivero, Latitude-dependent long-term variations in polar mesospheric clouds from SBUV version 3 PMC data, *J. Geophys. Res. Atmos.*, *112*(D10), 2007.
2193. DeMajistre, R., L. J. Paxton, and D. Bilitza, Comparison of ionospheric measurements made by digisondes with those inferred from ultraviolet airglow, *Adv. Space Res.*, *39*, 5, 918-925, doi:[10.1016/j.asr.2006.09.037](https://doi.org/10.1016/j.asr.2006.09.037), 2007.
2194. Determan, J. R., S. A. Budzien, M. P. Kowalski, M. N. Lovellette, P. S. Ray, M. T. Wolff, K. S. Wood, L. Titarchuk, and R. Bandyopadhyay, Measuring atmospheric density with X-ray occultation sounding, *J. Geophys. Res.*, *112*, A06323, doi:[10.1029/2006JA012014](https://doi.org/10.1029/2006JA012014), 2007.
2195. Du, J., W. E. Ward, J. Oberheide, and T. Nakamura, Semidiurnal tides from the Extended Canadian Middle Atmosphere Model (CMAM) and comparisons with TIMED Doppler Interferometer (TIDI) and meteor radar observations, *J. Atmos. Solar-Terr. Phys.*, *69*(17-18), 2159-2202, doi:[10.1016/j.jastp.2007.07.014](https://doi.org/10.1016/j.jastp.2007.07.014), 2007.
2196. Fomichev, V. I., A. I. Jonsson, J. de Grandpré, S. R. Beagley, C. McLandress, K. Semeniuk, and T. G. Shepherd, Response of the Middle Atmosphere to CO₂ Doubling: Results from the

- Canadian Middle Atmosphere Model, *J. Climate*, 20, 1121-1144, doi:[10.1175/JCLI4030.1](https://doi.org/10.1175/JCLI4030.1), 2007.
2197. Forbes, J. M., Dynamics of the Thermosphere, *J. Meteor. Soc. Japan. Ser. II*, 85B, 193-213, doi:[10.2151/jmsj.85B.193](https://doi.org/10.2151/jmsj.85B.193), 2007.
2198. Forbes, J. M., M. E. Hagan, and X. Zhang, Seasonal cycle of nonmigrating diurnal tides in the MLT region due to tropospheric heating rates from the NCEP/NCAR Reanalysis Project, *Adv. Space Res.*, 39, 8, 1347-1350, doi:[10.1016/j.asr.2003.09.076](https://doi.org/10.1016/j.asr.2003.09.076), 2007.
2199. Forbes, J. M., S. Bruinsma, F. G. Lemoine, B. R. Bowman, and A. Konopliv, Satellite Drag Variability at Earth, Mars, and Venus due to Solar Rotation, *J. Spacecr. Rockets*, 44, 6, 1160, doi:[10.2514/1.28013](https://doi.org/10.2514/1.28013), 2007.
2200. Garcia, R. R., D. R. Marsh, D. E. Kinnison, B. A. Boville, and F. Sassi, Simulation of secular trends in the middle atmosphere, 1950-2003, *J. Geophys. Res.*, 112, D9, doi:[10.1029/2006JD007485](https://doi.org/10.1029/2006JD007485), 2007.
2201. Gardner, J. L., B. Funke, M. G. Mlynczak, M. López-Puertas, F. J. Martin-Torres, J. M. Russell III, S. M. Miller, R. D. Sharma, and J. R. Winick, Comparison of nighttime nitric oxide 5.3 μm emissions in the thermosphere measured by MIPAS and SABER, *J. Geophys. Res.*, 112, A10301, doi:[10.1029/2006JA011984](https://doi.org/10.1029/2006JA011984), 2007.
2202. Goncharenko, L. P., J. C. Foster, A. J. Coster, C. Huang, N. Aponte, and L. J. Paxton, Observations of a positive storm phase on September 10, 2005, *J. Atmos. Solar-Terr. Phys.*, 69, 10-11, 1253-1272, doi:[10.1016/j.jastp.2006.09.011](https://doi.org/10.1016/j.jastp.2006.09.011), 2007.
2203. Guo, J., W. Wan, J. M. Forbes, E. Sutton, R. S. Nerem, T. N. Woods, S. Bruinsma, and L. Liu, Effects of solar variability on thermosphere density from CHAMP accelerometer data, *J. Geophys. Res. Space Physics*, 112, A10308, doi:[10.1029/2007JA012409](https://doi.org/10.1029/2007JA012409), 2007.
2204. Han, Y., F. Weng, Q. Liu, and P. van Delst, A fast radiative transfer model for SSMIS upper atmosphere sounding channels, *J. Geophys. Res.*, 112, D11121, doi:[10.1029/2006JD008208](https://doi.org/10.1029/2006JD008208), 2007.
2205. Hauchecorne, A., J.-L. Bertaux, F. Dalaudier, J. M. Russell III, M. G. Mlynczak, E. Kyrölä, and D. Fussen, Large increase of NO₂ in the north polar mesosphere in January-February 2004: Evidence of a dynamical origin from GOMOS/ENVISAT and SABER/TIMED data, *Geophys. Res. Lett.*, 34, L03810, doi:[10.1029/2006GL027628](https://doi.org/10.1029/2006GL027628), 2007.
2206. Häusler, K., H. Luhr, S. Rentz, and W. Kohler, A statistical analysis of longitudinal dependences of upper thermospheric zonal winds at dip equator latitudes derived from CHAMP, *J. Atmos. Solar-Terr. Phys.*, 69, 1419-1430, doi:[10.1016/j.jastp.2007.04.004](https://doi.org/10.1016/j.jastp.2007.04.004), 2007.
2207. Herbort, F., G. Baumgarten, U. Berger, J. Fiedler, P. Hoffmann, and F.-J. Lübken, Tidal structures within the LIMA model, *Adv. Space Res.*, 40, 6, 802-808, doi:[10.1016/j.asr.2007.04.061](https://doi.org/10.1016/j.asr.2007.04.061), 2007.
2208. Hocke, K., N. Kämpfer, D. Ruffieux, L. Froidevaux, A. Parrish, I. Boyd, T. von Clarmann, T. Steck, Y. M. Timofeyev, A. V. Polyakov, and E. Kyrölä, Comparison and synergy of stratospheric ozone measurements by satellite limb sounders and the ground-based microwave radiometer SOMORA, *Atmos. Chem. Phys.*, 7, 15, doi:[10.5194/acp-7-4117-2007](https://doi.org/10.5194/acp-7-4117-2007), 2007.
2209. Hoffmann, P., W. Singer, D. Keuer, W. K. Hocking, M. Kunze, and Y. Murayama, Latitudinal and longitudinal variability of mesospheric winds and temperatures during stratospheric warming events, *J. Atmos. Solar-Terr. Phys.*, 69, 17-18, 2355-2366, doi:[10.1016/j.jastp.2007.06.010](https://doi.org/10.1016/j.jastp.2007.06.010), 2007.
2210. Höffner, J., and F.-J. Lübken, Potassium lidar temperatures and densities in the mesopause region at Spitsbergen (78°N), *J. Geophys. Res.*, 112, D20, doi:[10.1029/2007JD008612](https://doi.org/10.1029/2007JD008612), 2007.
2211. Krebsbach, M., and P. Preusse, Spectral analysis of gravity wave activity in SABER temperature data, *Geophys. Res. Lett.*, 34, L03814, doi:[10.1029/2006GL028040](https://doi.org/10.1029/2006GL028040), 2007.

2212. Kumar, K. K., Temperature profiles in the MLT region using radar-meteor trail decay times: Comparison with TIMED/SABER observations, *Geophys. Res. Lett.*, 34, L16811, [doi:10.1029/2007GL030704](https://doi.org/10.1029/2007GL030704), 2007.
2213. Lilensten, J., T. D. De Wit, P. O. Amblard, J. Aboudarham, F. Auchère, and M. Kretzschmar, Recommendation for a set of solar EUV lines to be monitored for aeronomy applications, In: *Ann. Geophys.*, 25, 6, 1299-1310, doi:[10.5194/angeo-25-1299-2007](https://doi.org/10.5194/angeo-25-1299-2007), 2007.
2214. Lin, C. H., C. C. Hsiao, J. Y. Liu, and C. H. Liu, Longitudinal structure of the equatorial ionosphere: Time evolution of the four-peaked EIA structure, *J. Geophys. Res.*, 112, A12305, [doi:10.1029/2007JA012455](https://doi.org/10.1029/2007JA012455), 2007.
2215. Lin, C. H., W. Wang, M. E. Hagan, C. C. Hsiao, T. J. Immel, M. L. Hsu, J. Y. Liu, L. J. Paxton, T. W. Fang, and C. H. Liu, Plausible effect of atmospheric tides on the equatorial ionosphere observed by the FORMOSAT-3/COSMIC: Three-dimensional electron density structures, *Geophys. Res. Lett.*, 34, L11112, [doi:10.1029/2007GL029265](https://doi.org/10.1029/2007GL029265), 2007.
2216. Liu, H.-L., T. Li, C.-Y. She, J. Oberheide, Q. Wu, M. E. Hagan, J. Xu, R. G. Roble, M. G. Mlynczak, and J. M. Russell III, Comparative study of short-term diurnal tidal variability, *J. Geophys. Res.*, 112, D18108, [doi:10.1029/2007JD008542](https://doi.org/10.1029/2007JD008542), 2007.
2217. Liu, Q., M. Kazumori, Y. Han, and F. Weng, Calculating Antarctic stratospheric temperature from Special Sensor Microwave Imager and Sounder, *Geophys. Res. Lett.*, 34, 15, [doi:10.1029/2007GL030646](https://doi.org/10.1029/2007GL030646), 2007.
2218. López-González, M. J., M. García-Comas, D. E. Rodriguez, M. López-Puertas, M. G. Shepherd, G. G. Shepherd, S. Sargoytchev, V. M. Aushev, S. M. Smith, M. G. Mlynczak, J. M. Russell III, S. Brown, Y.-M. Cho, and R. H. Wiens, Ground-based mesospheric temperatures at mid-latitude derived from O₂ and OH airglow SATI data: Comparison with SABER measurements, *J. Atmos. Solar-Terr. Phys.*, 69, 17-18, 2379-2390, [doi:10.1016/j.jastp.2007.07.004](https://doi.org/10.1016/j.jastp.2007.07.004), 2007.
2219. López-Puertas, M., B. Funke, D. Bermejo-Pantaleón, T. von Clarmann, G. P. Stiller, U. Grabowski, and M. Höpfner, Evidence for N₂O v₃ 4.5 μm non-local thermodynamic equilibrium emission in the atmosphere, *Geophys. Res. Lett.*, 34, L02825, [doi:10.1029/2006GL028539](https://doi.org/10.1029/2006GL028539), 2007.
2220. Lübken, F.-J., and U. Berger, Interhemispheric comparison of mesospheric ice layers from the LIMA model, *J. Atmos. Solar-Terr. Phys.*, 69, 17-18, 2292-2308, [doi:10.1016/j.jastp.2007.07.006](https://doi.org/10.1016/j.jastp.2007.07.006), 2007.
2221. Lui, A. T. Y., Y. Zheng, Y. Zhang, V. Angelopoulos, G. K. Parks, F. S. Mozer, H. Rème, L. M. Kistler, M. W. Dunlop, G. Gustafsson, and M. G. Henderson, Prelude to THEMIS tail conjunction study, *Ann. Geophys.*, 25, 4, 1001-1009, doi:[10.5194/angeo-25-1001-2007](https://doi.org/10.5194/angeo-25-1001-2007), 2007.
2222. Mayr, H. G., J. G. Mengel, C. I. Wolff, F. T. Huang, and H. S. Porter, The QBO as Potential Amplifier and Conduit to Lower Altitudes of Solar Cycle Influence, *Ann. Geophys.*, 25, 1071-1082, [doi:10.5194/angeo-25-1071-2007](https://doi.org/10.5194/angeo-25-1071-2007), 2007.
2223. Meier, R. R., B. M. McLaughlin, H. P. Warren, and J. Bishop, Atomic oxygen photoionization rates computed with high resolution cross sections and solar fluxes, *Geophys. Res. Lett.*, 34(1), 2007.
2224. Mertens, C. J., J. C. Mast, J. R. Winick, J. M. Russell III, M. G. Mlynczak, and D. S. Evans, Ionospheric E-region response to solar-geomagnetic storms observed by TIMED/SABER and application to IRI storm-model development, *Adv. Space Res.*, 39, 5, 715-728, [doi:10.1016/j.asr.2006.09.032](https://doi.org/10.1016/j.asr.2006.09.032), 2007.
2225. Merzlyakov, E. G., and D. Pancheva, The 1.5-5-day eastward waves in the upper stratosphere-mesosphere as observed by the Esrange meteor radar and the SABER instrument, *J. Atmos. Solar-Terr. Phys.*, 69(17-18), 2102-2117, [doi:10.1016/j.jastp.2007.07.002](https://doi.org/10.1016/j.jastp.2007.07.002), 2007.

2226. Mlynczak, M. G., B. T. Marshall, F. J. Martin-Torres, J. M. Russell III, R. E. Thompson, E. E. Remsberg, and L. L. Gordley, Sounding of the Atmosphere using Broadband Emission Radiometry observations of daytime mesospheric O₂(¹Δ) 1.27 μm emission and derivation of ozone, atomic oxygen, and solar and chemical energy deposition rates, *J. Geophys. Res.*, *112*, D15306, [doi:10.1029/2006JD008355](https://doi.org/10.1029/2006JD008355), 2007.
2227. Mlynczak, M. G., F. J. Martin-Torres, and J. M. Russell III, Correction to “Energy transport in the thermosphere during the solar storms of April 2002”, *J. Geophys. Res.*, *112*, A02303, [doi:10.1029/2006JA012008](https://doi.org/10.1029/2006JA012008), 2007.
2228. Mlynczak, M. G., F. J. Martin-Torres, B. T. Marshall, R. E. Thompson, J. Williams, T. Turpin, D. P. Kratz, J. M. Russell III, T. N. Woods, and L. L. Gordley, Evidence for a solar cycle influence on the infrared energy budget and radiative cooling of the thermosphere, *J. Geophys. Res.*, *112*, A12302, [doi:10.1029/2006JA012194](https://doi.org/10.1029/2006JA012194), 2007.
2229. Mukhtarov, P., D. Pancheva, B. Andonov, N. J. Mitchell, E. Merzlyakov, W. Singer, W. Hocking, C. Meek, A. Manson, and Y. Murayama, Large-scale thermodynamics of the stratosphere and mesosphere during the major stratospheric warming in 2003/2004, *J. Atmos. Solar-Terr. Phys.*, *69*, 17, 2007.
2230. Murphy, D. J., W. J. R. French, and R. A. Vincent, Long-period planetary waves in the mesosphere and lower thermosphere above Davis, Antarctica, *J. Atmos. Solar-Terr. Phys.*, *69*, 17–18, 2118-2138, [doi:10.1016/j.jastp.2007.06.008](https://doi.org/10.1016/j.jastp.2007.06.008), 2007.
2231. Nikoukar, R., G. R. Swenson, A. Z. Liu, and F. Kamalabadi, On the variability of mesospheric OH emission profiles, *J. Geophys. Res.*, *112*, D19109, [doi:10.1029/2007JD008601](https://doi.org/10.1029/2007JD008601), 2007.
2232. Oberheide, J., Q. Wu, T. L. Killeen, M. E. Hagan, and R. G. Roble, A climatology of nonmigrating semidiurnal tides from TIMED Doppler Interferometer (TIDI) wind data, *J. Atmos. Solar-Terr. Phys.*, *69*, 2203-2218, [doi:10.1016/j.jastp.2007.05.010](https://doi.org/10.1016/j.jastp.2007.05.010), 2007.
2233. Offermann, D., M. Jarisch, H. Schmidt, J. Oberheide, K.-U. Grossmann, O. Gusev, J. M. Russell III, and M. G. Mlynczak, The “wave turbopause”, *J. Atmos. Solar-Terr. Phys.*, *69*, 17-18, 2139-2158, [doi:10.1016/j.jastp.2007.05.012](https://doi.org/10.1016/j.jastp.2007.05.012), 2007.
2234. O’Neil, R. R., J. R. Winick, R. H. Picard, and M. Kendra, Auroral NO⁺ 4.3 μm emission observed from the Midcourse Space Experiment: Multiplatform observations of 9 February 1997, *J. Geophys. Res.*, *112*, A06327, [doi:10.1029/2006JA012120](https://doi.org/10.1029/2006JA012120), 2007.
2235. Palo, S. E., J. M. Forbes, X. Zhang, J. M. Russell III, and M. G. Mlynczak, An eastward propagating two-day wave: Evidence for nonlinear planetary wave and tidal coupling in the mesosphere and lower thermosphere, *Geophys. Res. Lett.*, *34*, L078077, [doi:10.1029/2006GL027728](https://doi.org/10.1029/2006GL027728), 2007.
2236. Pandya, M. R., R. P. Singh, K. N. Chaudhari, K. R. Murali, A. S. Kirankumar, V. K. Dadhwal, and J. S. Parihar, Spectral characteristics of sensors onboard IRS-1D and P6 satellites: Estimation and their influence on surface reflectance and NDVI, *J. Indian Soc. Remote*, *35*, 333-350, [doi:10.1007/BF02990789](https://doi.org/10.1007/BF02990789), 2007.
2237. Remsberg, E. E., G. Lingenfelter, M. Natarajan, L. Gordley, B. T. Marshall, and E. Thompson, On the quality of the Nimbus 7 LIMS version 6 ozone for studies of the middle atmosphere, *J. Quant. Spectrosc. Radiat. Transf.*, *105*, 3, 492-518, [doi:10.1016/j.jqsrt.2006.12.005](https://doi.org/10.1016/j.jqsrt.2006.12.005), 2007.
2238. Rottman, G. J., Measurement of total and spectral solar irradiance, In: *Solar Variability and Planetary Climates*, 39-51, Springer, New York, 2007.
2239. Sahai, Y., F. Becker-Guedes, P. R. Fagundes, W. L. C. Lima, A. J. de Abreu, F. L. Guarnieri, C. M. N. Candido, and V. G. Pillat, Unusual ionospheric effects observed during the intense 28 October 2003 solar flare in the Brazilian sector, *Ann. Geophys.*, *25*, 2497-2502, 2007.
2240. Salby, M., and L. Matrosova, Anomalous thermal structure introduced during solar proton events, *Geophys. Res. Lett.*, *34*, L23702, [doi:10.1029/2007GL029586](https://doi.org/10.1029/2007GL029586), 2007.

2241. Sankey, D., S. Ren, S. Polavarapu, Y. J. Rochon, Y. Nezhlin, and S. Beagley, Impact of data assimilation filtering methods on the mesosphere, *J. Geophys. Res.*, *112*, D24104, doi:[10.1029/2007JD008885](https://doi.org/10.1029/2007JD008885), 2007.
2242. Schröder, T. M., C. O. Ao, and M. de la Torre Juárez, Sensitivity of GPS occultation to the stratopause height, *J. Geophys. Res.*, *112*, D06119, doi:[10.1029/2006JD007330](https://doi.org/10.1029/2006JD007330), 2007.
2243. Seppälä, A., P. T. Verronen, M. A. Clilverd, C. E. Randall, J. Tamminen, V. Sofieva, L. Backman, and E. Kyrölä, Arctic and Antarctic polar winter NO_x and energetic particle precipitation in 2002-2006, *Geophys. Res. Lett.*, *34*, L128, doi:[10.1029/2007GL029733](https://doi.org/10.1029/2007GL029733), 2007.
2244. Shepherd, G. G., Y.-M. Cho, and G. Liu, Correlations of mesospheric variability and their relation to the large-scale circulation during polar winter, *J. Atmos. Solar-Terr. Phys.*, *69*, 2279-2291, doi:[10.1016/j.jastp.2007.06.007](https://doi.org/10.1016/j.jastp.2007.06.007), 2007.
2245. Shepherd, M. G., D. L. Wu, I. N. Fedulina, S. Gurubaran, J. M. Russell III, M. G. Mlynczak, and G. G. Shepherd, Stratospheric warming effects on the tropical mesospheric temperature field, *J. Atmos. Solar-Terr. Phys.*, *69*, 17-18, 2309-2337, doi:[10.1016/j.jastp.2007.04.009](https://doi.org/10.1016/j.jastp.2007.04.009), 2007.
2246. Siskind, D. E., S. D. Eckermann, L. Coy, J. P. McCormack, and C. E. Randall, On recent interannual variability of the Arctic winter mesosphere: Implications for tracer descent, *Geophys. Res. Lett.*, *34*, L09806, doi:[10.1029/2007GL029293](https://doi.org/10.1029/2007GL029293), 2007.
2247. Smith, A. K., D. V. Pancheva, N. J. Mitchell, D. R. Marsh, J. M. Russell III, and M. G. Mlynczak, A link between variability of the semidiurnal tide and planetary waves in the opposite hemisphere, *Geophys. Res. Lett.*, *34*, L07809, doi:[10.1029/2006GL028929](https://doi.org/10.1029/2006GL028929), 2007.
2248. Strickland, D. J., J. L. Lean, R. E. Daniell, H. K. Knight, W. K. Woo, R. R. Meier, P. R. Straus, T. N. Woods, F. G. Eparvier, D. R. McMullin, A. B. Christensen, D. Morrison, and L. J. Paxton, Constraining and validating the Oct./Nov. 2003 X-class EUV flare enhancements with observations of FUV dayglow and E-region electron densities, *J. Geophys. Res.*, *112*, A11, 6313-, doi:[10.1029/2006JA012074](https://doi.org/10.1029/2006JA012074), 2007.
2249. Sutton, E. K., R. S. Nerem, and J. M. Forbes, Density and Winds in the Thermosphere Deduced from Accelerometer Data, *J. Spacecr. Rockets*, *44*, 6, 1210, doi:[10.2514/1.28641](https://doi.org/10.2514/1.28641), 2007.
2250. Takahashi, H., C. M. Wrasse, J. Fehine, D. Pancheva, M. A. Abdu, I. S. Batista, L. M. Lima, P. P. Batista, B. R. Clemesha, N. J. Schuch, K. Shiokawa, D. Gobbi, M. G. Mlynczak, and J. M. Russell III, Signatures of ultra fast Kelvin waves in the equatorial middle atmosphere and ionosphere, *Geophys. Res. Lett.*, *34*, L11108, doi:[10.1029/2007GL029612](https://doi.org/10.1029/2007GL029612), 2007.
2251. Takahashi, H., J. Fehine, D. Gobbi, M. A. Abdu, I. S. Batista, P. P. Batista, B. R. Clemesha, C. M. Wrasse, L. M. Lima, D. Pancheva, N. Schuch, K. Shiokawa, M. G. Mlynczak, and J. M. Russell III, Ultra Fast Kelvin waves in the equatorial upper atmosphere, 2007.
2252. Tsugawa, T., S.-R. Zhang, A. J. Coster, Y. Otsuka, J. Sato, A. Saito, Y. Zhang, and L. J. Paxton, Summer-winter hemispheric asymmetry of the sudden increase in ionospheric total electron content and of the O/N 2 ratio: Solar activity dependence, *J. Geophys. Res.*, *112*, A08301, doi:[10.1029/2007JA012415](https://doi.org/10.1029/2007JA012415), 2007.
2253. Urban, J., N. Lautié, D. Murtagh, P. Eriksson, Y. Kasai, S. Loßow, E. Dupuy, J. de La Noë, U. Frisk, M. Olberg, E. Le Flochmoën, and P. Ricaud, Global observations of middle atmospheric water vapour by the Odin satellite: An overview, *Planetary & Space Science*, *55*, 9, 1093-1102, doi:[10.1016/j.pss.2006.11.021](https://doi.org/10.1016/j.pss.2006.11.021), 2007.
2254. von Savigny, C., C. Robert, H. Bovensmann, J. P. Burrows, and M. Schwartz, Satellite observations of the quasi 5-day wave in noctilucent clouds and mesopause temperatures, *Geophys. Res. Lett.*, *34*, 24, doi:[10.1029/2007GL030987](https://doi.org/10.1029/2007GL030987), 2007.
2255. Wang, X., R. Eastes, B. W. Reinisch, S. Bailey, C. E. Valladares, and T. Woods, Short-term relationship between solar irradiances and equatorial peak electron densities, *J. Geophys. Res. Space Physics*, *112*(A6), 2007.

2256. Wang, X., R. Eastes, B. W. Reinisch, S. Bailey, C. E. Valladares, and T. N. Woods, Short-term relationship between solar irradiances and equatorial peak electron densities, *J. Geophys. Res.*, 112, A06310, [doi:10.1029/2006JA012128](https://doi.org/10.1029/2006JA012128), 2007.
2257. Williams, E. R., and G. Sátori, Solar radiation-induced changes in ionospheric height and the Schumann resonance waveguide on different timescales, *Radio Sci.*, 42(2), [doi:10.1029/2006RS003494](https://doi.org/10.1029/2006RS003494), 2007.
2258. Woodraska, D. L., T. N. Woods, and F. G. Eparvier, Comparisons of satellite drag with Solar EUV Experiment (SEE) measurements, *J. Spacecr. Rockets*, 44, 6, 1204-1209, [doi:10.2514/1.28639](https://doi.org/10.2514/1.28639), 2007.
2259. Xu, J., A. K. Smith, W. Yuan, H.-L. Liu, Q. Wu, M. G. Mlynczak, and J. M. Russell III, Global structure and long-term variations of zonal mean temperature observed by TIMED/SABER, *J. Geophys. Res.*, 112, D24106, [doi:10.1029/2007JD008546](https://doi.org/10.1029/2007JD008546), 2007.
2260. Xu, J., H.-L. Liu, W. Yuan, A. K. Smith, R. G. Roble, C. J. Mertens, J. M. Russell III, and M. G. Mlynczak, Mesopause structure from Thermosphere, Ionosphere, Mesosphere, Energetics, and Dynamics (TIMED)/Sounding of the Atmosphere Using Broadband Emission Radiometry (SABER) observations, *J. Geophys. Res.*, 112, D09102, [doi:10.1029/2006JD007711](https://doi.org/10.1029/2006JD007711), 2007.
2261. Xue, X.-H., W. Wan, J. Xiong, and X. Dou, Diurnal tides in mesosphere/low-thermosphere during 2002 at Wuhan (30.6°N, 114.4°E) using canonical correlation analysis, *J. Geophys. Res.*, 112, D6, [doi:10.1029/2006JD007490](https://doi.org/10.1029/2006JD007490), 2007.
2262. Yankovsky, V. A., V. A. Kuleshova, R. O. Manuilova, and A. O. Semenov, Retrieval of total ozone in the mesosphere with a new model of electronic-vibrational kinetics of O₃ and O₂ photolysis products, *Izvestiya, Atmospheric and Oceanic Physics*, 43, 4, [doi:10.1134/S0001433807040135](https://doi.org/10.1134/S0001433807040135), 2007.
2263. Zhao, B., W. Wan, L. Liu, T. Mao, Z. Ren, M. Wang, and A. B. Christensen, Features of annual and semiannual variations derived from the global ionospheric maps of total electron content, *Ann. Geophys.*, 25(12), 2513-2527, [doi:10.5194/angeo-25-2513-2007](https://doi.org/10.5194/angeo-25-2513-2007), 2007.
2264. Zhao, Y., M. J. Taylor, H.-L. Liu, and R. G. Roble, Seasonal oscillations in mesospheric temperatures at low-latitudes, *J. Atmos. Solar-Terr. Phys.*, 69, 2367-2378, [doi:10.1016/j.jastp.2007.07.010](https://doi.org/10.1016/j.jastp.2007.07.010), 2007.
2265. Zhou, D. K., W. L. Smith, G. E. Bingham, R. J. Huppi, H. E. Revercomb, L. J. Zollinger, J. D. W. Elwell, A. M. Larar, X. Liu, J. J. Tansock, R. A. Reisse, and R. Hooker, Ground-based measurements with the Geosynchronous Imaging Fourier Transform Spectrometer (GIFTS) engineering demonstration unit - experiment description and first results, *J. Appl. Remote Sens.*, 1(1), 013528, [doi:10.1117/1.2784288](https://doi.org/10.1117/1.2784288), 2007.

2006

2266. Avakyan, S. V., Space Solar Patrol: Absolute measurements of ionizing solar radiation, *Adv. Space Res.*, 37(2), 297-302, [doi:10.1016/j.asr.2005.11.006](https://doi.org/10.1016/j.asr.2005.11.006), 2006.
2267. Bailey, S. M., T. N. Woods, E. Rodgers, S. C. Solomon, and F. Eparvier, Observations of the solar soft X-ray irradiance by the Student Nitric Oxide Explorer (SNOE), *Adv. Space Res.*, 37, 2, 209-218, [doi:10.1016/j.asr.2005.07.039](https://doi.org/10.1016/j.asr.2005.07.039), 2006.
2268. Becker, E., and D. C. Fritts, Enhanced gravity-wave activity and interhemispheric coupling during the MaCWAVE/MIDAS northern summer program 2002, *Ann. Geophys.*, 24, 4, [doi:10.5194/angeo-24-1175-2006](https://doi.org/10.5194/angeo-24-1175-2006), 2006.
2269. Bhardwaj, A., R. F. Elsner, G. R. Gladstone, J. H. Waite, G. Branduardi-Raymont, T. E. Cravens, and P. G. Ford, Low- to middle-latitude X-ray emission from Jupiter, *J. Geophys. Res.*, 111, A10, 11225-, [doi:10.1029/2006JA011792](https://doi.org/10.1029/2006JA011792), 2006.

2270. Bingham, G. E., and J. J. Tansock, "Validating instrument models through the calibration process", *Proc. SPIE 6297*, Infrared Spaceborne Remote Sensing XIV, 62970O, 15-17 August 2006, San Diego, doi:[10.1117/12.684348](https://doi.org/10.1117/12.684348), 2006.
2271. Brown, S. B., M. Jensen, S. Jensen, G. Hansen, L. Zollinger, R. Esplin, and J. B. Miller, "Sounding of the atmosphere using broadband emission radiometry (SABER): sensor design, performance, and lessons learned", *Proc. SPIE 6297*, Infrared Spaceborne Remote Sensing XIV, 62970U, 15-17 August, 6297, doi:[10.1117/12.684137](https://doi.org/10.1117/12.684137), 2006.
2272. Bruinsma, S. L., J. M. Forbes, R. S. Nerem, and X. Zhang, Thermosphere density response to the 20-21 November 2003 solar and geomagnetic storm from CHAMP and GRACE accelerometer data, *J. Geophys. Res.*, *111*, A06303, doi:[10.1029/2005JA011284](https://doi.org/10.1029/2005JA011284), 2006.
2273. Chamberlin, P. C., T. N. Woods, and F. G. Eparvier, Rocket Extreme ultraviolet Grating spectrometer (EGS): Calibrations and results of the solar irradiance on February 8, 2002, *Opt. Eng.*, *45*, 063605, doi:[10.1117/1.2209695](https://doi.org/10.1117/1.2209695), 2006.
2274. Chshyolkova, T., A. H. Manson, C. E. Meek, S. K. Avery, D. Thorsen, J. W. MacDougall, W. Hocking, Y. Murayama, and K. Igarashi, Planetary wave coupling in the middle atmosphere (20-90km): A CUJO study involving TOMS, MetO and MF radar data, *Ann. Geophys.*, *23*, 4, doi:[10.5194/angeo-23-1103-2005](https://doi.org/10.5194/angeo-23-1103-2005), 2006.
2275. Chu, X., P. J. Espy, G. J. Nott, J. C. Diettrich, and C. S. Gardner, 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, *J. Geophys. Res.*, *111*, D20, doi:[10.1029/2006JD007086](https://doi.org/10.1029/2006JD007086), 2006.
2276. Comberiate, J. M., F. Kamalabadi, and L. J. Paxton, Tomographic imaging of equatorial plasma bubbles, *Geophys. Res. Lett.*, *33*, L15805, doi:[10.1029/2006GL025820](https://doi.org/10.1029/2006GL025820), 2006.
2277. Crowley, G., C. L. Hackert, R. R. Meier, D. J. Strickland, L. J. Paxton, X. Pi, A. Manucci, A. B. Christensen, D. Morrison, G. Bust, R. G. Roble, N. Curtis, and G. Wene, Global thermosphere-ionosphere response to onset of 20 November 2003 magnetic storm, *J. Geophys. Res.*, *111*, A10S18, doi:[10.1029/2005JA011518](https://doi.org/10.1029/2005JA011518), 2006.
2278. Crowley, G., T. J. Immel, C. L. Hackert, J. Craven, and R. G. Roble, Effect of IMF B_Y on thermospheric composition at high and middle latitudes: 1. Numerical experiments, *J. Geophys. Res.*, *111*, A10311, doi:[10.1029/2005JA011371](https://doi.org/10.1029/2005JA011371), 2006.
2279. Dobbin, A. L., E. M. Griffin, A. D. Aylward, and G. H. Millward, 3-D GCM modelling of thermospheric nitric oxide during the 2003 Halloween storm, *Ann. Geophys.*, *24*, 9, doi:[10.5194/angeo-24-2403-2006](https://doi.org/10.5194/angeo-24-2403-2006), 2006.
2280. Elwell, J. D., G. W. Cantwell, D. K. Scott, R. W. Esplin, G. B. Hansen, S. M. Jensen, M. D. Jensen, S. B. Brown, L. J. Zollinger, V. A. Thurgood, M. P. Esplin, R. J. Huppi, G. E. Bingham, H. E. Revercomb, F. A. Best, D. C. Tobin, J. K. Taylor, R. O. Knuteson, W. L. Smith, R. A. Reisse, and R. Hooker, "A geosynchronous imaging Fourier transform spectrometer (GIFTS) for hyperspectral atmospheric remote sensing: instrument overview and preliminary performance results", *Proc. SPIE 6297*, Infrared Spaceborne Remote Sensing XIV, 62970S, doi:[10.1117/12.684135](https://doi.org/10.1117/12.684135), 2006.
2281. Emmert, J. T., R. R. Meier, J. M. Picone, J. L. Lean, and A. B. Christensen, Thermospheric density 2002-2004: TIMED/GUVI dayside limb observations and satellite drag, *J. Geophys. Res.*, *111*, (A8), A10S16, doi:[10.1029/2005JA011495](https://doi.org/10.1029/2005JA011495), 2006.
2282. England, S. L., T. J. Immel, E. Sagawa, S. B. Henderson, M. E. Hagan, S. B. Mende, H. U. Frey, C. M. Swenson, and L. J. Paxton, Effect of atmospheric tides on the morphology of the quiet time, postsunset equatorial ionospheric anomaly, *J. Geophys. Res.*, *111*, A10S19, doi:[10.1029/2006JA011795](https://doi.org/10.1029/2006JA011795), 2006.
2283. Espy, P. J., P. Hartogh, and K. Holmén, "A microwave radiometer for the remote sensing of nitric oxide and ozone in the middle atmosphere", *Proc. SPIE 6362*, Remote Sensing of Clouds and the Atmosphere XI, 63620P, doi:[10.1117/12.688953](https://doi.org/10.1117/12.688953), 2006.

2284. Everett, M. E., Local time stacking of geomagnetic solar daily variations, *J. Geophys. Res. Solid Earth*, 111(B3), doi:10.1029/2005JB003831, 2006.
2285. Forbes, J. M., J. M. Russell III, S. Miyahara, X. Zhang, S. E. Palo, M. G. Mlynczak, C. J. Mertens, and M. E. Hagan, Troposphere-Thermosphere tidal coupling as Measured by the SABER Instrument on TIMED during July-September, 2002, *J. Geophys. Res.*, 111, A10S06, doi:10.1029/2005JA011492, 2006.
2286. Fox, J. L., and K. E. Yeager, Morphology of the near-terminator Martian ionosphere: A comparison of models and data, *J. Geophys. Res. Space Physics*, 111(A10), doi:10.1029/2006JA011697, 2006.
2287. Fuller-Rowell, T. J., M. Codrescu, C. Minter, and D. J. Strickland, Application of thermospheric general circulation models for space weather operations, *Adv. Space Res.*, 37, 2, 401-408, doi:10.1016/j.asr.2005.12.020, 2006.
2288. Goldberg, R. A., D. C. Fritts, F. J. Schmidlin, B. P. Williams, C. L. Croskey, J. D. Mitchell, M. Friedrich, J. M. Russell III, U. Blum, and K. H. Fricke, The MaCWAVE program to study gravity wave influences on the polar mesosphere, *Ann. Geophys.*, 24, 4, 1159-1173, 2006.
2289. Goncharenko, L. P., J. Salah, G. Crowley, L. J. Paxton, Y. Zhang, A. Coster, W. Rideout, C. Huang, S. Zhang, B. Reinisch, and V. Taran, Large variations in the thermosphere and ionosphere during minor geomagnetic disturbances in April 2002 and their association with IMF By, *J. Geophys. Res.*, 111, A03303, doi:10.1029/2004JA010683, 2006.
2290. Grossmann, K.-U., O. Gusev, and P. Knieling, The distribution of carbon monoxide in the upper mesosphere and lower thermosphere during CRISTA-1 and -2, *J. Atmos. Solar-Terr. Phys.*, 68, 15, 1764-1780, doi:10.1016/j.jastp.2006.05.022, 2006.
2291. Gusev, O., M. Kaufmann, K.-U. Grossmann, F. J. Schmidlin, and M. G. Shepherd, Atmospheric neutral temperature distribution at the mesopause altitude, *J. Atmos. Solar-Terr. Phys.*, 68, 15, 1684-1697, doi:10.1016/j.jastp.2005.12.010, 2006.
2292. Hecht, J. H., D. J. Strickland, and M. G. Conde, The application of ground-based optical techniques for inferring electron energy deposition and composition change during auroral precipitation events, *J. Atmos. Solar-Terr. Phys.*, 68, 1502-1519, doi:10.1016/j.jastp.2005.06.022, 2006.
2293. Hochedez, J. F., W. Schmutz, Y. Stockman, U. Schühle, A. BenMoussa, S. Koller, K. Haenen, D. Berghmans, J.-M. Defise, J.-P. Halain, A. Theissen, V. Delouille, V. Slemzin, D. Gillotay, D. Fussen, M. Dominique, F. Vanhellefont, D. McMullin, M. Kretzschmar, A. Mitrofanov, B. Nicula, L. Wauters, H. Roth, E. Rozanov, I. Rüedi, C. Wehrli, A. Soltani, H. Amano, R. Van der Linden, A. Zhukov, F. Clette, S. Koizumi, V. Mortet, Z. Remes, R. Petersen, M. Nesládek, M. D'Olieslaeger, J. Roggen, and P. Rochus, LYRA, a solar UV radiometer on Proba2, *Adv. Space Res.*, 37(2), 303-312, doi:10.1016/j.asr.2005.10.041, 2006.
2294. Huang, F. T., H. G. Mayr, C. A. Reber, J. M. Russell III, M. G. Mlynczak, and J. G. Mengel, Stratospheric and mesospheric temperature variations for the quasi-biennial and semiannual (QBO and SAO) oscillations based on measurements from SABER (TIMED) and MLS (UARS), *Ann. Geophys.*, 24, 8, 2131-2149, 2006.
2295. Huang, F. T., H. G. Mayr, C. A. Reber, J. M. Russell III, M. G. Mlynczak, and J. G. Mengel, Zonal-mean temperature variations inferred from SABER measurements on TIMED compared with UARS observations, *J. Geophys. Res.*, 111, A10S07, doi:10.1029/2005JA011427, 2006.
2296. Huang, F. T., H. G. Mayr, C. A. Reber, J. M. Russell III, M. G. Mlynczak, and J. G. Mengel, Stratospheric and mesospheric temperature variations for the quasi-biennial and semiannual (QBO and SAO) oscillations based on measurements from SABER (TIMED) and MLS (UARS), *Ann. Geophys.*, 24, 2131-2149, doi:10.5194/angeo-24-2131-2006, 2006.

2297. Huang, F. T., H. G. Mayr, C. A. Reber, T. L. Killeen, J. M. Russell III, M. G. Mlynczak, W. R. Skinner, and J. G. Mengel, Diurnal variations of temperature and winds inferred from TIMED and UARS measurements, *J. Geophys. Res.*, 111, A10S04, [doi:10.1029/2005JA011426](https://doi.org/10.1029/2005JA011426), 2006.
2298. Immel, T. J., G. Crowley, C. L. Hackert, J. Craven, and R. G. Roble, Effect of IMF B_y on thermospheric composition at high and middle latitudes: 2. Data comparisons, *J. Geophys. Res.*, 111, A10312, [doi:10.1029/2005JA011372](https://doi.org/10.1029/2005JA011372), 2006.
2299. Kaufmann, M., S. Gil-López, M. López-Puertas, B. Funke, M. García-Comas, N. Glatthor, U. Grabowski, M. Höpfner, G. P. Stiller, T. von Clarmann, M. E. Koukouli, L. Hoffmann, and M. Riese, Vibrationally excited ozone in the middle atmosphere, *J. Atmos. Solar-Terr. Phys.*, 68, 2, 202-212, [doi:10.1016/j.jastp.2005.10.006](https://doi.org/10.1016/j.jastp.2005.10.006), 2006.
2300. Kil, H., and L. J. Paxton, Ionospheric disturbances during the magnetic storm of July 15, 2000: Role of the fountain effect and plasma bubbles for the formation of large equatorial plasma density depletions, *J. Geophys. Res.*, 111, A12311, [doi:10.1029/2006JA011742](https://doi.org/10.1029/2006JA011742), 2006.
2301. Kil, H., L. J. Paxton, S.-Y. Su, Y. Zhang, and H. C. Yeh, Characteristics of the storm-induced big bubbles (SIBBs), *J. Geophys. Res.*, 111, A10308, [doi:10.1029/2006JA011743](https://doi.org/10.1029/2006JA011743), 2006.
2302. Kil, H., R. DeMajistre, L. J. Paxton, and Y. Zhang, F-region Pedersen conductivity deduced using the TIMED/GUVI limb retrievals, *Ann. Geophys.*, 24, 1311-1316, 2006.
2303. Kil, H., R. DeMajistre, L. J. Paxton, and Y. Zhang, Nighttime F-region morphology in the low and middle latitudes seen from DMSP F15 and TIMED/GUVI, *J. Atmos. Solar-Terr. Phys.*, 68, 14, 1672-1681, [doi:10.1016/j.jastp.2006.05.024](https://doi.org/10.1016/j.jastp.2006.05.024), 2006.
2304. Killeen, T. L., Q. Wu, S. C. Solomon, D. A. Ortland, W. R. Skinner, and R. J. Niciejewski, TIMED Doppler Interferometer: Overview and Recent Results, *J. Geophys. Res.*, 111, A10S01, [doi:10.1029/2005JA011484](https://doi.org/10.1029/2005JA011484), 2006.
2305. Kozyra, J. U., G. Crowley, B. A. Emery, X. Fang, G. Maris, M. G. Mlynczak, R. J. Niciejewski, S. E. Palo, L. J. Paxton, C. E. Randall, P.-P. Rong, J. M. Russell III, W. Skinner, S. C. Solomon, E. R. Talaat, Q. Wu, and J.-H. Yee, "Response of the Upper/Middle Atmosphere to Coronal Holes and Powerful High-Speed Solar Wind Streams in 2003", *Recurrent Magnetic Storms: Corotating Solar Wind Streams*, Eds B. Tsurutani, R. McPherron, G. Lu, J. H. A. Sobral, and N. Gopalswamy, American Geophysical Union, Washington, D. C., [doi:10.1029/167GM24](https://doi.org/10.1029/167GM24), 2006.
2306. Kretschmar, M., J. Lilensten, and J. Aboudarham, Retrieving the solar EUV spectral irradiance from the observation of 6 lines, *Adv. Space Res.*, 37, 2, 341-346, [doi:10.1016/j.asr.2005.02.029](https://doi.org/10.1016/j.asr.2005.02.029), 2006.
2307. Kutepov, A. A., A. G. Feofilov, B. T. Marshall, L. L. Gordley, W. D. Pesnell, R. A. Goldberg, and J. M. Russell III, SABER temperature observations in the summer polar mesosphere and lower thermosphere: Importance of accounting for the CO₂ v₂ quanta V-V exchange, *Geophys. Res. Lett.*, 33, L21809, [doi:10.1029/2006GL026591](https://doi.org/10.1029/2006GL026591), 2006.
2308. Kyrölä, E., J. Tamminen, G. W. Leppelmeier, V. Sofieva, S. Hassinen, A. Seppälä, P. T. Verronen, J. L. Bertaux, A. Hauchecorne, F. Dalaudier, D. Fussen, F. Vanhellemont, O. F. d'Andon, G. Barrot, A. Mangin, B. Theodore, M. Guirlet, R. Koopman, L. S. de Miguel, P. Snoeij, T. Fehr, Y. Meijer, and R. Fraisse, Nighttime ozone profiles in the stratosphere and mesosphere by the Global Ozone Monitoring by Occultation of Stars on Envisat, *J. Geophys. Res.*, 111, D24, [doi:10.1029/2006JD007193](https://doi.org/10.1029/2006JD007193), 2006.
2309. Lean, J. L., J. M. Picone, J. T. Emmert, and G. Moore, Thermospheric densities derived from spacecraft orbits: Application to the Starshine satellites, *J. Geophys. Res.*, 111, A04301, [doi:10.1029/2005JA011399](https://doi.org/10.1029/2005JA011399), 2006.
2310. Lieberman, R. S., D. M. Riggan, R. R. Garcia, Q. Wu, and E. E. Remsberg, Observations of intermediate-scale diurnal waves in the equatorial mesosphere and lower thermosphere, *J. Geophys. Res.*, 111, A10S11, [doi:10.1029/2005JA011498](https://doi.org/10.1029/2005JA011498), 2006.

2311. López-Puertas, M., J.-M. Flaud, J. Peralta-Calvillo, B. Funke, and S. Gil-López, NO⁺ fundamental and first hot ro-vibrational line frequencies from MIPAS/Envisat atmospheric spectra, *J. Mol. Spectrosc.*, 237, 2, 218-224, doi:[10.1016/j.jms.2006.03.015](https://doi.org/10.1016/j.jms.2006.03.015), 2006.
2312. Marcos, F. A., New Measurements of Thermospheric Neutral Density: A Review (AAS 05-251), *Adv. Astronautical Sciences*, *123(1)*, 3, 2006.
2313. Marsh, D. R., A. K. Smith, M. G. Mlynczak, and J. M. Russell III, SABER observations of the OH Meinel airglow variability near the mesopause, *J. Geophys. Res.*, 111, A10S05, doi:[10.1029/2005JA011451](https://doi.org/10.1029/2005JA011451), 2006.
2314. Mayr, H. G., J. G. Mengel, C. L. Wolff, and H. Porter, The QBO as Potential Amplifier of Solar Cycle Influence, *Geophys. Res. Lett.*, 33, L05812, doi:[10.1029/2005GL025650](https://doi.org/10.1029/2005GL025650), 2006.
2315. McDonald, S. E., S. Basu, K. M. Groves, C. E. Valladares, L. Scherliess, D. C. Thompson, R. W. Schunk, J. J. Sojka, and L. Zhu, Extreme longitudinal variability of plasma structuring in the equatorial ionosphere on a magnetically quiet equinoctial day, *Radio Sci.*, 41, RS6S24, doi:[10.1029/2005RS003366](https://doi.org/10.1029/2005RS003366), 2006.
2316. Morris, R. J., D. J. Murphy, R. A. Vincent, D. A. Holdsworth, A. R. Klekociuk, and I. M. Reid, Characteristics of the wind, temperature and PMSE field above Davis, Antarctica, *J. Atmos. Solar-Terr. Phys.*, 68 (3-5), doi:[10.1016/j.jastp.2005.04.011](https://doi.org/10.1016/j.jastp.2005.04.011), 418-435, 2006.
2317. Namgaladze, A. A., Y. V. Zubova, A. N. Namgaladze, O. V. Martynenko, E. N. Doronina, L. P. Goncharenko, A. van Eyken, V. Howells, J. P. Thayer, V. I. Taran, B. Shpynev, and Q. Zhou, Modelling of the ionosphere/thermosphere behavior during the April 2002 magnetic storms: a comparison of the UAM results with the ISR and NRLMSISE-00 data, *Adv. Space Res.*, 37, 2, 380-391, doi:[10.1016/j.asr.2005.04.013](https://doi.org/10.1016/j.asr.2005.04.013), 2006.
2318. Niciejewski, R. J., Q. Wu, W. R. Skinner, D. Gell, M. Cooper, A. Marshall, T. L. Killeen, S. C. Solomon, and D. A. Ortland, TIMED Doppler Interferometer on the Thermosphere Ionosphere Mesosphere Energetics and Dynamics satellite: Data Product Overview, *J. Geophys. Res.*, 111, A11S90, doi:[10.1029/2005JA011513](https://doi.org/10.1029/2005JA011513), 2006.
2319. Nielsen, K., M. J. Taylor, R. G. Stockwell, and M. J. Jarvis, An unusual mesospheric bore event observed at high latitudes over Antarctica, *Geophys. Res. Lett.*, 33, 7, doi:[10.1029/2005GL025649](https://doi.org/10.1029/2005GL025649), 2006.
2320. Oberheide, J., D. Offermann, J. M. Russell III, and M. G. Mlynczak, Intercomparison of kinetic temperature from 15 μm CO₂ limb emissions and OH*(3,1) rotational temperature in nearly coincident air masses: SABER, GRIPS, *Geophys. Res. Lett.*, 33, L14811, doi:[10.1029/2006GL026439](https://doi.org/10.1029/2006GL026439), 2006.
2321. Oberheide, J., Q. Wu, T. L. Killeen, M. E. Hagan, and R. G. Roble, Diurnal nonmigrating tides from TIDI wind data: Monthly climatologies and seasonal variations, *J. Geophys. Res.*, 111, A10S03, doi:[10.1029/2005JA011491](https://doi.org/10.1029/2005JA011491), 2006.
2322. Offermann, D., J. Oberheide, M. Jarisch, K.-U. Grossmann, and O. Gusev, Similarities in middle atmosphere structures, *Meteorologische Zeitschrift*, 15, 3, 333-342(10), doi:[10.1127/0941-2948/2006/0135](https://doi.org/10.1127/0941-2948/2006/0135), 2006.
2323. Offermann, D., M. Jarisch, J. Oberheide, O. Gusev, I. Wohltmann, J. M. Russell III, and M. G. Mlynczak, Global wave activity from upper stratosphere to lower thermosphere: A new turbopause concept, *J. Atmos. Solar-Terr. Phys.*, 68, 15, 1709-1729, doi:[10.1016/j.jastp.2006.01.013](https://doi.org/10.1016/j.jastp.2006.01.013), 2006.
2324. Oksavik, K., R. A. Greenwald, J. M. Ruohoniemi, M. R. Hairston, L. J. Paxton, J. B. H. Baker, J. W. Gjerloev, and R. J. Barnes, First observations of the temporal/spatial variation of the subauroral polarization stream from the SuperDARN Wallops HF radar, *Geophys. Res. Lett.*, 33, L12104, doi:[10.1029/2006GL026256](https://doi.org/10.1029/2006GL026256), 2006.

2325. Ortland, D. A., and M. J. Alexander, Gravity wave influence on the global structure of the diurnal tide in the mesosphere and lower thermosphere, *J. Geophys. Res.*, *111*(A8), A10S10, doi:[10.1029/2005JA011467](https://doi.org/10.1029/2005JA011467), 2006.
2326. Piters, A. J. M., K. Bramstedt, J.-C. Lambert, and B. Kirchhoff, Overview of SCIAMACHY validation: 2002-2004, *Atmos. Chem. Phys.*, *6*, 1, doi:[10.5194/acp-6-127-2006](https://doi.org/10.5194/acp-6-127-2006), 2006.
2327. Preusse, P., M. Ern, S. D. Eckermann, C. D. Warner, R. H. Picard, P. Knieling, M. Krebsbach, J. M. Russell III, M. G. Mlynczak, C. J. Mertens, and M. Riese, Tropopause to mesopause gravity waves in August: Measurement and modeling, *J. Atmos. Solar-Terr. Phys.*, *68*, 15, 1730-1751, doi:[10.1016/j.jastp.2005.10.019](https://doi.org/10.1016/j.jastp.2005.10.019), 2006.
2328. Ramesh, K. B., and K. S. Raman, Solar X-ray spectral irradiance variability, *Sol. Phys.*, *234*(2), 393-408, doi:[10.1007/s11207-006-1973-5](https://doi.org/10.1007/s11207-006-1973-5), 2006.
2329. Raspollini, P., C. Belotti, A. Burgess, B. Carli, M. Carlotti, S. Ceccherini, B. M. Dinelli, A. Dudhia, J.-M. Flaud, B. Funke, M. Höpfner, M. López-Puertas, V. Payne, C. Piccolo, J. J. Remedios, M. Ridolfi, and R. Spang, MIPAS level 2 operational analysis, *Atmos. Chem. Phys.*, *6*, 12, doi:[10.5194/acp-6-5605-2006](https://doi.org/10.5194/acp-6-5605-2006), 2006.
2330. Richards, P. G., T. N. Woods, and W. K. Peterson, HEUVAC: a new high resolution solar EUV proxy model, *Adv. Space Res.*, *37*, 2, 315-322, doi:[10.1016/j.asr.2005.06.031](https://doi.org/10.1016/j.asr.2005.06.031), 2006.
2331. Richter, M., A. Gottwald, F. Scholze, R. Thornagel, and G. Ulm, Calibration of space instrumentation with synchrotron radiation, *Adv. Space Res.*, *37*(2), 265-272, doi:[10.1016/j.asr.2004.12.043](https://doi.org/10.1016/j.asr.2004.12.043), 2006.
2332. Rigglin, D. M., H.-L. Liu, R. S. Lieberman, R. G. Roble, J. M. Russell III, C. J. Mertens, M. G. Mlynczak, D. Pancheva, S. J. Franke, Y. Murayama, A. H. Manson, C. E. Meek, and R. A. Vincent, Observations of the 5-day wave in the mesosphere and lower thermosphere, *J. Atmos. Solar-Terr. Phys.*, *68*, 3-5, 323-339, doi:[10.1016/j.jastp.2005.05.010](https://doi.org/10.1016/j.jastp.2005.05.010), 2006.
2333. Rodgers, E. M., S. M. Bailey, H. P. Warren, T. N. Woods, and F. G. Eparvier, Soft X-ray irradiances during a solar flare observed by TIMED-SEE, *J. Geophys. Res.*, *111*, A10S13, doi:[10.1029/2005JA011505](https://doi.org/10.1029/2005JA011505), 2006.
2334. Rottman, G. J., T. N. Woods, and W. McClintock, SORCE solar UV irradiance results, *Adv. Space Res.*, *37*, 201-208, doi:[10.1016/j.asr.2005.02.072](https://doi.org/10.1016/j.asr.2005.02.072), 2006.
2335. Sasseen, T. P., M. Hurwitz, C. M. Lisse, V. Kharchenko, D. Christian, S. J. Wolk, M. M. Sirk, and A. Dalgarno, A search for extreme-ultraviolet emission from comets with the cosmic hot interstellar plasma spectrometer (CHIPS). *Astrophys. J.*, *650*(1), 461, doi:[10.1086/507086](https://doi.org/10.1086/507086), 2006.
2336. Schmidt, H., G. P. Brasseur, M. Charron, E. Manzini, M. A. Giorgetta, T. Diehl, V. I. Fomichev, D. Kinnison, D. Marsh, and S. Walters, The HAMMONIA Chemistry Climate Model: Sensitivity of the Mesopause Region to the 11-Year Solar Cycle and CO2 Doubling, *J. Climate*, *19*, 16, doi:[10.1175/JCLI3829.1](https://doi.org/10.1175/JCLI3829.1), 2006.
2337. Schmidtke, G., F. G. Eparvier, S. C. Solomon, W. K. Tobiska, and T. N. Woods, Introduction to the TIGER (Thermospheric/Ionospheric Geospheric Research) Program, *Adv. Space Res.*, *37*, 2, 194-198, doi:[10.1016/j.asr.2005.02.088](https://doi.org/10.1016/j.asr.2005.02.088), 2006.
2338. Shiokawa, K., S. Suzuki, Y. Otsuka, T. Ogawa, T. Nakamura, M. G. Mlynczak, and J. M. Russell III, A multi-instrument measurement of a mesospheric front-like structure at the equator, *J. Met. Soc. of Japan*, *84a*, 305-316, doi:[10.2151/jmsj.84A.305](https://doi.org/10.2151/jmsj.84A.305), 2006.
2339. Smithtro, C. G., J. J. Sojka, T. Berkey, D. Thompson, and R. W. Schunk, Anomalous F region response to moderate solar flares, *Radio Sci.*, *41*(5), 2006.
2340. Sojka, J. J., C. Smithtro, and R. Schunk, Recent developments in ionosphere-thermosphere modeling with an emphasis on solar variability, *Adv. Space Res.*, *37*, 2, 369-379, doi:[10.1016/j.asr.2005.10.032](https://doi.org/10.1016/j.asr.2005.10.032), 2006.

2341. Solomon, S. C., Numerical models of the E-region ionosphere, *Adv. Space Res.*, 37, 5, 1031-1037, [doi:10.1016/j.asr.2005.09.040](https://doi.org/10.1016/j.asr.2005.09.040), 2006.
2342. Sonnemann, G. R., M. Grygalashvily, and U. Berger, Impact of a stratospheric warming event in January 2001 on the minor constituents in the MLT region calculated on the basis of a new 3D-model LIMA of the dynamics and chemistry of the middle atmosphere, *J. Atmos. Solar-Terr. Phys.*, 68, 17, 2012-2025, doi:10.1016/j.jastp.2006.04.005, 2006.
2343. Sridharan, S., T. Tsuda, T. Nakamura, T. Kozu, S. Mori, and J. M. Russell III, Observations of the 7-day Kelvin Wave in the Tropical Atmosphere During the CPEA Campaign, *J. Met. Soc. of Japan*, 84A, 259-275, [doi:10.2151/jmsj.84A.259](https://doi.org/10.2151/jmsj.84A.259), 2006.
2344. Sutton, E. K., J. M. Forbes, R. S. Nerem, and T. N. Woods, Neutral density response to the solar flares on October and November 2003, *Geophys. Res. Lett.*, 33, L22101, [doi:10.1029/2006GL027737](https://doi.org/10.1029/2006GL027737), 2006.
2345. Tansock, J. J., A. Thurgood, G. Bingham, N. Pougatchev, R. Jost, R. U. Datta, E. Knight, V. Privalski, V. Krutikov, V. Ivanov, V. Sapritsky, and A. Panfilov, "System level approach to satellite instrument calibration", *Proc. SPIE 6301*, Atmospheric and Environmental Remote Sensing Data Processing and Utilization II: Perspective on Calibration/Validation Initiatives and Strategies, 630103, 1 September 2006, 6301, doi:[10.1117/12.681933](https://doi.org/10.1117/12.681933), 2006.
2346. Tobiska, W. K., and S. D. Bouwer, New developments in SOLAR2000 for space research and operations, *Adv. Space Res.*, 37, 2, 347-358, doi:[10.1016/j.asr.2005.08.015](https://doi.org/10.1016/j.asr.2005.08.015), 2006.
2347. Wang, L., D. C. Fritts, B. P. Williams, R. A. Goldberg, F. J. Schmidlin, and U. Blum, Gravity waves in the middle atmosphere during the MaCWAVE winter campaign: evidence of mountain wave critical level encounters, *Ann. Geophys.*, 24, 4, doi:[10.5194/angeo-24-1209-2006](https://doi.org/10.5194/angeo-24-1209-2006), 2006.
2348. Wang, X., R. Eastes, S. W. Vergara, S. Bailey, C. Valladares, and T. N. Woods, On the short term relationship between solar soft X-ray flux and equatorial Total Electron Content (TEC), *J. Geophys. Res.*, 111, A10S15, [doi:10.1029/2005JA011488](https://doi.org/10.1029/2005JA011488), 2006.
2349. Warren, H. P., NRLEUV 2: a new model of solar EUV irradiance variability, *Adv. Space Res.*, 37, 2, 359-365, doi:[10.1016/j.asr.2005.10.028](https://doi.org/10.1016/j.asr.2005.10.028), 2006.
2350. Woods, T. N., and F. G. Eparvier, Solar ultraviolet variability during the TIMED mission, *Adv. Space Res.*, 37, 2, 219-224, doi:[10.1016/j.asr.2004.10.006](https://doi.org/10.1016/j.asr.2004.10.006), 2006.
2351. Woods, T. N., G. Kopp, and P. C. Chamberlin, Contributions of the solar ultraviolet irradiance to the total solar irradiance during large flares, *J. Geophys. Res.*, 111, A10S14, [doi:10.1029/2005JA011507](https://doi.org/10.1029/2005JA011507), 2006.
2352. Wrotny, J. E., and J. M. Russell III, Interhemispheric differences in polar mesospheric clouds observed by the HALOE instrument, *J. Atmos. Solar-Terr. Phys.*, 68, 12, 1352-1369, doi:[10.1016/j.jastp.2006.05.014](https://doi.org/10.1016/j.jastp.2006.05.014), 2006.
2353. Wu, D. L., P. Preusse, S. D. Eckermann, J. H. Jiang, M. de la Torre Juárez, L. Coy, and D. Y. Wang, Remote sounding of atmospheric gravity waves with satellite limb and nadir techniques, *Adv. Space Res.*, 37, 12, doi:10.1016/j.asr.2005.07.031, 2006.
2354. Wu, Q., T. L. Killeen, D. A. Ortland, S. C. Solomon, R. D. Gablehouse, R. M. Johnson, W. R. Skinner, R. J. Niciejewski, and S. J. Franke, TIMED Doppler interferometer (TIDI) observations of migrating diurnal and semidiurnal tides, *J. Atmos. Solar-Terr. Phys.*, 68, 408-417, [doi:10.1016/j.jastp.2005.02.031](https://doi.org/10.1016/j.jastp.2005.02.031), 2006.
2355. Xu, J., C.-Y. She, W. Yuan, C. J. Mertens, M. G. Mlynczak, and J. M. Russell III, Comparison between the temperature measurements by TIMED/SABER and lidar in the midlatitude, *J. Geophys. Res.*, 111, A10S09, [doi:10.1029/2005JA011439](https://doi.org/10.1029/2005JA011439), 2006.
2356. Yuan, T., C.-Y. She, M. E. Hagan, B. P. Williams, T. Li, K. Arnold, T. D. Kawahara, P. E. Acott, J. D. Vance, D. Krueger, and R. G. Roble, Seasonal variations of diurnal perturbations in mesopause region temperature, zonal, and meridional winds above Fort Collins, Colorado (40.6°N, 105°W), *J. Geophys. Res.*, 111, D06103, [doi:10.1029/2004JD005486](https://doi.org/10.1029/2004JD005486), 2006.

2357. Zhang, X., J. M. Forbes, M. E. Hagan, J. M. Russell III, S. E. Palo, C. J. Mertens, and M. G. Mlynczak, Monthly tidal temperatures 20–120 km from TIMED/SABER, *J. Geophys. Res.*, 111, A10S08, [doi:10.1029/2005JA011504](https://doi.org/10.1029/2005JA011504), 2006.
2358. Zhang, Y., and L. J. Paxton, Dayside convection aligned auroral arcs, *Geophys. Res. Lett.*, 33, L13107, [doi:10.1029/2006GL026388](https://doi.org/10.1029/2006GL026388), 2006.
2359. Zhang, Y., L. J. Paxton, and A. T. Y. Lui, An unusual nightside distortion of the auroral oval: TIMED/GUVI and IMAGE/FUV observations, *J. Geophys. Res.*, 111, A08203, [doi:10.1029/2005JA011217](https://doi.org/10.1029/2005JA011217), 2006.
2360. Zhang, Y., L. J. Paxton, J. U. Kozyra, H. Kil, and P. C. Brandt, Nightside thermospheric FUV emissions due to energetic neutral atom precipitation during magnetic superstorms, *J. Geophys. Res.*, 111, A09307, [doi:10.1029/2005JA011152](https://doi.org/10.1029/2005JA011152), 2006.

2005

2361. Auchère, F., J. W. Cook, J. S. Newmark, D. R. McMullin, R. von Steiger, and M. Witte, The heliospheric He II 30.4 nm solar flux during cycle 23, *Astrophys. J.*, [625\(2\)](https://doi.org/10.1086/425202), 1036, 2005.
2362. Avakyan, S. V., Microwave radiation of the ionosphere as a factor in the way solar flares and geomagnetic storms act on biosystems, *J. Optical Technology*, 72(8), 608-614, [doi:10.1364/JOT.72.000608](https://doi.org/10.1364/JOT.72.000608), 2005.
2363. Basu, S., S. Basu, J. J. Makela, R. E. Sheehan, E. MacKenzie, P. Doherty, J. W. Wright, M. J. Keskinen, D. Pallamgaju, L. J. Paxton, and F. T. Berkely, Two components of ionospheric plasma structuring at midlatitudes observed during the large magnetic storm of October 30, 2003, *Geophys. Res. Lett.*, 32, L12S06, [doi:10.1029/2004GL021669](https://doi.org/10.1029/2004GL021669), 2005.
2364. Bhardwaj, A., G. Branduardi-Raymont, R. F. Elsner, G. R. Gladstone, G. Ramsay, P. Rodriguez, R. Soria, J. H. Waite, and T. E. Cravens, Solar control on Jupiter's equatorial X-ray emissions: 26-29 November 2003 SMM-Newton observation, *Geophys. Res. Lett.*, 32, 3, [doi:10.1029/2004GL021497](https://doi.org/10.1029/2004GL021497), 2005.
2365. Coy, L., D. E. Siskind, S. D. Eckermann, J. P. McCormack, D. R. Allen, and T. F. Hogan, Modeling the August 2002 minor warming event, *Geophys. Res. Lett.*, 32, L07808, [doi:10.1029/2005GL022400](https://doi.org/10.1029/2005GL022400), 2005.
2366. de Wit, T. D., J. Liliensten, J. Abouadarham, P. O. Amblard, and M. Kretzschmar, Retrieving the solar EUV spectrum from a reduced set of spectral lines, In: *Ann. Geophys.*, 23, 9, 3055-3069, 2005.
2367. DeMajistre, R., P. C. Brandt, T. J. Immel, J.-H. Yee, A. Dalgarno, L. J. Paxton, and V. Kharchenko, Storm-time enhancement of mid-latitude ultraviolet emissions due to energetic neutral atom precipitation, *Geophys. Res. Lett.*, 32, L15105, [doi:10.1029/2005GL023059](https://doi.org/10.1029/2005GL023059), 2005.
2368. Didkovsky, L. V., D. L. Judge, and A. R. Jones, "An extreme ultraviolet spectrometer", *Proc. SPIE* 5677, Sensors and Camera Systems for Scientific and Industrial Applications VI, 141-152, [doi:10.1117/12.588001](https://doi.org/10.1117/12.588001), 2005.
2369. Doe, R. A., J. P. Thayer, and S. C. Solomon, Incoherent scatter radar measurements and modeling of high-latitude solar photoionization, *J. Geophys. Res. Space Physics*, 110(A10), 2005.
2370. Doe, R. A., J. P. Thayer, and S. C. Solomon, Solar control of ionospheric plasma density: implications for solar spectral shape and variance, *J. Geophys. Res.*, 110, A10303, [doi:10.1029/2005JA011129](https://doi.org/10.1029/2005JA011129), 2005.
2371. Duff, J. W., A first-principles model of spectrally resolved 5.3 μm nitric oxide emission from aurorally dosed nighttime high-altitude terrestrial thermosphere, *Geophys. Res. Lett.*, 32, 17, [doi:10.1029/2005GL023124](https://doi.org/10.1029/2005GL023124), 2005.

2372. Fang, X., M. W. Liemohn, J. U. Kozyra, and S. C. Solomon, Study of the proton arc spreading effect on primary ionization rates, *J. Geophys. Res.*, *110*, A07302, doi:10.1029/2004JA010915, 2005.
2373. Floyd, L. E., J. Newmark, J. Cook, L. Herring, and D. McMullin, Solar EUV and UV spectral irradiances and solar indices. *J. Atmos. Solar-Terr. Phys.*, *67*(1), 3-15, doi:10.1016/j.jastp.2004.07.013, 2005.
2374. Forbes, J. M., G. Lu, S. Bruinsma, S. Nerem, and X. Zhang, Thermosphere density variations due to the 15-24 April 2002 solar events from CHAMP/STAR accelerometer measurements, *J. Geophys. Res.*, *110*, A12S27, doi:10.1029/2004JA010856, 2005.
2375. Fox, J. L., and L. J. Paxton, C and C+ in the Venusian thermosphere/ionosphere. *J. Geophys. Res. Space Physics*, *110*(A1), doi:10.1029/2004JA010813, 2005.
2376. Fritts, D. C., S. L. Vadas, K. Wan, and J. A. Werne, Mean and Variable Forcing of the Middle Atmosphere by Gravity Waves, *J. Atmos. Solar-Terr. Phys.*, *68*, 3-5, 247-265, doi:10.1016/j.jastp.2005.04.010, 2005.
2377. Garcia, R. R., R. S. Lieberman, J. M. Russell III, and M. G. Mlynczak, Large-Scale Waves in the Mesosphere and Lower Thermosphere Observed by SABER, *J. Atmos. Sci.*, *62*, 12, 4384-4399, doi:10.1175/JAS3612.1, 2005.
2378. Gardner, J. L., Rotational and spin-orbit distributions of NO observed by MIPAS/ENVISAT during the solar storm of October/November 2003, *J. Geophys. Res.*, *110*, A9, doi:10.1029/2004JA010937, 2005.
2379. Goncharenko, L. P., J. E. Salah, A. van Eyken, V. Howells, J. P. Thayer, V. I. Taran, B. Shpynev, Q. Zhou, and J. Chau, Observations of the April 2002 Geomagnetic Storm by the Global Network of Incoherent Scatter Radars, *Ann. Geophys.*, *23*, 163-181, 2005.
2380. Henderson, S. B., C. M. Swenson, A. B. Christensen, and L. J. Paxton, Morphology of the Equatorial Anomaly and Equatorial Plasma Bubbles Using Image Subspace Analysis of GUVI Data, *J. Geophys. Res.*, *110*, A11306, doi:10.1029/2005JA011080, 2005.
2381. Henderson, S. B., C. M. Swenson, J. Gunther, A. B. Christensen, and L. J. Paxton, Method for characterization of the equatorial anomaly using image subspace analysis of Global Ultraviolet Imager data, *J. Geophys. Res.*, *110*, A08308, doi:10.1029/2004JA010830, 2005.
2382. Hochedez, J. F., A. Zhukov, E. Robbrecht, R. Van Der Linden, D. Berghmans, P. Vanlommel, A. Theissen, and F. Clette, Solar weather monitoring. In: *Ann. Geophys.*, *23*(9), 3149-3161, doi:10.5194/angeo-23-3149-2005, 2005.
2383. Huba, J. D., H. P. Warren, G. Joyce, X. Pi, B. Iijima, and C. Coker, Global response of the low-latitude to midlatitude ionosphere due to the Bastille Day flare, *Geophys. Res. Lett.*, *32*(15), 2005.
2384. Korth, H., B. J. Anderson, H. U. Frey, and C. L. Waters, High-latitude electromagnetic and particle energy ux during an event with sustained strongly northward IMF, *Ann. Geophys., European Geosciences Union (EGU)*, *23* (4), 1295-1310, 2005.
2385. Kratz, D. P., M. G. Mlynczak, C. J. Mertens, H. Brindley, L. L. Gordley, F. J. Martin-Torres, F. M. Miskolczi, and D. D. Turner, An inter-comparison of far-infrared line-by-line radiative transfer models, *J. Quant. Spectrosc. Radiat. Transf.*, *90*, 3-4, 323-341, doi:10.1016/j.jqsrt.2004.04.006, 2005.
2386. Li, T., C.-Y. She, B. P. Williams, and T. Yuan, Concurrent OH imager and sodium temperature/wind lidar observation of localized ripples over northern Colorado, *J. Geophys. Res.*, *110*, D13110, doi:10.1029/2004JD004885, 2005.
2387. Limpasuvan, V., D. L. Wu, M. J. Schwartz, J. W. Waters, Q. Wu, and T. L. Killeen, The two-day wave in EOS MLS temperature and wind measurements during 2004-2005 winter, *Geophys. Res. Lett.*, *32*, L17809, doi:10.1029/2005GL023396, 2005.

2388. Lin, C. H., A. D. Richmond, J. Y. Liu, H. C. Yeh, L. J. Paxton, G. Lu, H. F. Tsai, and S.-Y. Su, Large scale variations of the low latitude ionosphere during the October-November 2003 superstorm: Observational results, *J. Geophys. Res.*, 110(A9), A09S28, doi:[10.1029/2004JA010900](https://doi.org/10.1029/2004JA010900), 2005.
2389. López-Puertas, M., B. Funke, S. Gil-López, M. Á. López-Valverde, T. von Clarmann, H. Fischer, H. Oelhaf, G. Stiller, M. Kaufmann, M. E. Koukouli, and J.-M. Flaud, Atmospheric non-local thermodynamic equilibrium emissions as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS), *Comptes Rendus Physique*, 6, 8, 848-863, doi:[10.1016/j.crhy.2005.07.012](https://doi.org/10.1016/j.crhy.2005.07.012), 2005.
2390. López-Puertas, M., Evidence for CH₄ 7.6 μm non-local thermodynamic equilibrium emission in the mesosphere, *Geophys. Res. Lett.*, 32, 4, doi:[10.1029/2004GL021641](https://doi.org/10.1029/2004GL021641), 2005.
2391. Mayr, H. G., and J. G. Mengel, Interannual Variations of the Diurnal Tide in the Mesosphere Generated by the Quasi-biennial Oscillation, *J. Geophys. Res.*, 110, doi:[10.1029/2004JD005055](https://doi.org/10.1029/2004JD005055), 2005.
2392. Mayr, H. G., J. G. Mengel, and C. L. Wolff, Wave-driven Equatorial Annual Oscillation Induced and Modulated by the Solar Cycle, *Geophys. Res. Lett.*, 32, L20811, doi:[10.1029/2005GL023090](https://doi.org/10.1029/2005GL023090), 2005.
2393. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Mesospheric non-migrating tides generated with planetary waves: I. Characteristics, *J. Atmos. Solar-Terr. Phys.*, 67 (11), 959-980, doi:[10.1016/j.jastp.2005.03.002](https://doi.org/10.1016/j.jastp.2005.03.002), 2005.
2394. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Mesospheric non-migrating tides generated with planetary waves: II. Influence of gravity waves, *J. Atmos. Solar-Terr. Phys.*, 67 (11), 981-991, doi:[10.1016/j.jastp.2005.03.003](https://doi.org/10.1016/j.jastp.2005.03.003), 2005.
2395. Meier, R. R., G. Crowley, D. J. Strickland, A. B. Christensen, L. J. Paxton, D. Morrison, and C. L. Hackert, First look at the 20 November 2003 superstorm with TIMED/GUVI: Comparisons with a thermospheric global circulation model, *J. Geophys. Res.*, 110, A09S41, doi:[10.1029/2004JA010990](https://doi.org/10.1029/2004JA010990), 2005.
2396. Mendillo, M., C.-L. Huang, X. Pi, H. Rishbeth, and R. R. Meier, The global ionospheric asymmetry in total electron content, *J. Atmos. Solar-Terr. Phys.*, 67, 15, 1377-1387, doi:[10.1016/j.jastp.2005.06.021](https://doi.org/10.1016/j.jastp.2005.06.021), 2005.
2397. Mlynczak, M. G., F. J. Martin-Torres, G. Crowley, D. P. Kratz, B. Funke, G. Lu, M. López-Puertas, J. M. Russell III, J. Kozyra, C. J. Mertens, R. Sharma, L. Gordley, R. H. Picard, J. R. Winick, and L. J. Paxton, Energy Transport in the Thermosphere during the Solar Storms of April 2002, *J. Geophys. Res.*, 110, A12S25, doi:[10.1029/2005JA011141](https://doi.org/10.1029/2005JA011141), 2005.
2398. Oberheide, J., Q. Wu, D. A. Ortland, T. L. Killeen, M. E. Hagan, R. G. Roble, R. J. Niciejewski, and W. R. Skinner, Non-migrating diurnal tides as measured by the TIMED Doppler interferometer: Preliminary results, *Adv. Space Res.*, 35, 1911-1917, doi:[10.1016/j.asr.2005.01.063](https://doi.org/10.1016/j.asr.2005.01.063), 2005.
2399. Palo, S. E., J. M. Forbes, X. Zhang, J. M. Russell III, C. J. Mertens, M. G. Mlynczak, G. Burns, P. Espy, and T. D. Kawahara, Planetary wave coupling from the stratosphere to the thermosphere during the 2002 Southern Hemisphere per-stratwarm period, *Geophys. Res. Lett.*, 32, L23809, doi:[10.1029/2005GL024298](https://doi.org/10.1029/2005GL024298), 2005.
2400. Petelina, S. V., D. A. Degenstein, E. J. Llewellyn, N. D. Lloyd, C. J. Mertens, M. G. Mlynczak, and J. M. Russell III, Thermal conditions for PMC existence derived from Odin/OSIRIS and TIMED/SABER data, *Geophys. Res. Lett.*, 32, L17813, doi:[10.1029/2005GL023099](https://doi.org/10.1029/2005GL023099), 2005.
2401. She, C.-Y., On atmospheric lidar performance comparison: from power-aperture product to power-aperture-mixing ratio-scattering cross-section product, *J. Mod. Opt.*, 52, 18, 2723-2729, doi:[10.1080/09500340500352618](https://doi.org/10.1080/09500340500352618), 2005.

2402. Singer, W., R. Latteck, P. Hoffman, B. Williams, D. C. Fritts, Y. Murayama, and K. Sakanoi, Tides near the Arctic summer mesopause during the MaCWAVE/MIDAS summer program, *Geophys. Res. Lett.*, 32, doi:10.1029/[2004GL021607](https://doi.org/2004GL021607), 2005.
2403. Siskind, D. E., L. Coy, and P. Espy, Observations of stratospheric warmings and mesospheric coolings by the TIMED SABER instrument, *Geophys. Res. Lett.*, 32, L09804, doi:[10.1029/2005GL022399](https://doi.org/10.1029/2005GL022399), 2005.
2404. Smith, A. K., and D. R. Marsh, Processes that account for the ozone maximum at the mesopause, *J. Geophys. Res.*, 110, D23305, doi:10.1029/[2005JD006298](https://doi.org/2005JD006298), 2005.
2405. Smith, S. M., J. Friedman, S. Raizada, C. Tepley, J. Baumgardner, and M. Mendillo, Evidence of mesospheric bore formation from a breaking gravity wave event: simultaneous imaging and lidar measurements, *J. Atmos. Solar-Terr. Phys.*, 67 (4), 345-356, doi:[10.1016/j.jastp.2004.11.008](https://doi.org/10.1016/j.jastp.2004.11.008), 2005.
2406. Snow, M., W. E. McClintock, T. N. Woods, O. R. White, J. W. Harder, and G. J. Rottman, The Mg II index from SORCE, *Sol. Phys.*, 230, 1-2, 325-344, 2005.
2407. Solomon, S. C., and L. Qian, Solar extreme-ultraviolet irradiance for general circulation models, *J. Geophys. Res.*, 110, A10306, doi:10.1029/[2005JA011160](https://doi.org/2005JA011160), 2005.
2408. Stevens, M. H., R. R. Meier, X. Chu, M. T. DeLand, and J. M. C. Plane, Antarctic mesospheric clouds formed from space shuttle exhaust, *Geophys. Res. Lett.*, 32, L13810, doi:10.1029/[2005GL023054](https://doi.org/2005GL023054), 2005.
2409. Tsurutani, B. T., D. L. Judge, F. L. Guarnieri, P. Gangopadhyay, A. R. Jones, J. Nuttall, G. A. Zambon, L. Didkovsky, A. J. Mannucci, B. Iijima, R. R. Meier, T. J. Immel, T. N. Woods, S. Prasad, J. Huba, S. C. Solomon, P. Straus, and R. Viereck, The October 28, 2003 extreme EUV solar flare and resultant extreme ionospheric effects: Comparison to other Halloween events and the Bastille Day event, *Geophys. Res. Lett.*, 32, L03S09, doi:10.1029/[2004GL021475](https://doi.org/2004GL021475), 2005.
2410. Vadas, S. L., and D. C. Fritts, Thermospheric responses to gravity waves: Influences of increasing viscosity and thermal diffusivity, *J. Geophys. Res.*, 110, D15103, doi:10.1029/[2004JD005574](https://doi.org/2004JD005574), 2005.
2411. Warren, H. P., A Solar Minimum Irradiance Spectrum for Wavelengths below 1200?, *Astrophys. J. Supplement Series*, 157(1), 147, 2005.
2412. Woods, T. N., F. G. Eparvier, S. M. Bailey, P. C. Chamberlin, J. L. Lean, G. J. Rottman, S. C. Solomon, W. K. Tobiska, and D. L. Woodraska, Solar EUV Experiment (SEE): Mission overview and first results, *J. Geophys. Res.*, 110, A01312, doi:10.1029/[2004JA010765](https://doi.org/2004JA010765), 2005.
2413. Zhang, S.-R., J. M. Holt, P. J. Erickson, F. D. Lind, J. C. Foster, A. P. van Eyken, Y. Zhang, L. J. Paxton, W. C. Rideout, L. P. Goncharenko, and G. R. Campbell, October 2002 30-day incoherent scatter radar experiments at Millstone Hill and Svalbard and simultaneous GUVI/TIMED observations, *Geophys. Res. Lett.*, 32, L01108, doi:10.1029/[2004GL020732](https://doi.org/2004GL020732), 2005.
2414. Zhang, X.-X., C. Wang, T. Chen, Y. L. Wang, A. Tan, T. S. Wu, G. A. Germany, and W. Wang, Global patterns of Joule heating in the high-latitude ionosphere, *J. Geophys. Res.*, 110, A12208, doi:10.1029/[2005JA011222](https://doi.org/2005JA011222), 2005.
2415. Zhang, Y., C.-I. Meng, L. J. Paxton, D. Morrison, B. Wolven, H. Kil, P. Newell, S. Wing, and A. B. Christensen, Far-ultraviolet signature of polar cusp during southward IMF B_z observed by TIMED/Global Ultraviolet Imager and DMSP, *J. Geophys. Res.*, 110, A01218, doi:10.1029/[2004JA010707](https://doi.org/2004JA010707), 2005.
2416. Zhang, Y., L. J. Paxton, D. Morrison, A. T. Y. Lui, H. Kil, B. Wolven, C.-I. Meng, and A. B. Christensen, Undulations on the equatorward edge of the diffuse proton aurora: TIMED/GUVI observations, *J. Geophys. Res.*, 110, A08211, doi:10.1029/[2004JA010668](https://doi.org/2004JA010668), 2005.

2417. Zhang, Y., L. J. Paxton, D. Morrison, B. Wolven, H. Kil, and S. Wing, Nightside detached auroras due to precipitating protons/ions during intense magnetic storms, *J. Geophys. Res.*, *110*, A02206, doi:10.1029/[2004JA010498](https://doi.org/10.1029/2004JA010498), 2005.
2418. Zhao, Y., Comparison of simultaneous Na lidar and mesospheric nightglow temperature measurements and the effects of tides on the emission layer heights, *J. Geophys. Res.*, *110*, D9, doi:10.1029/2004JD005115, 2005.
2419. Zhu, X., E. R. Talaat, J. B. Baker, and J.-H. Yee, A self-consistent derivation of ion drag and joule heating for atmospheric dynamics in the thermosphere, *Ann. Geophys.*, *23*, 3313-3322, 2005.
2420. Zhu, X., J.-H. Yee, E. R. Talaat, M. G. Mlynczak, L. Gordley, C. J. Mertens, and J. M. Russell III, An algorithm for extracting zonal mean and migrating tidal fields in the middle atmosphere from satellite measurements: Applications to TIMED/SABER-measured temperature and tidal modeling, *J. Geophys. Res.*, *110*, D02105, doi:10.1029/[2004JD004996](https://doi.org/10.1029/2004JD004996), 2005.

2004

2421. Baker, J. B. H., Y. Zhang, R. A. Greenwald, L. J. Paxton, and D. Morrison, Height-integrated Joule and auroral particle heating in the night side high latitude thermosphere, *Geophys. Res. Lett.*, *31*, L09807, doi:10.1029/[2004GL019535](https://doi.org/10.1029/2004GL019535), 2004.
2422. Bhardwaj, A., R. F. Elsner, G. R. Gladstone, T. E. Cravens, J. H. Waite Jr., G. Branduardi-Raymont, and P. Ford, Chandra X-ray observations of Jovian low-latitude emissions: morphological, temporal, and spectral characteristics, *Bull. of the Amer. Astro. Soc.*, *36*, 1104-, Nov., 2004.
2423. Burns, A. G., W. Wang, T. L. Killeen, and S. C. Solomon, A “tongue” of neutral composition, *J. Atmos. Solar-Terr. Phys.*, *66*, 1457, doi:[10.1016/j.jastp.2004.04.009](https://doi.org/10.1016/j.jastp.2004.04.009), 2004.
2424. DeMajistre, R., L. J. Paxton, D. Morrison, J.-H. Yee, L. P. Goncharenko, and A. B. Christensen, Retrievals of nighttime electron density from Thermosphere Ionosphere Mesosphere Energetics and Dynamics (TIMED) mission Global Ultraviolet Imager (GUVI) measurements, *J. Geophys. Res.*, *109*, A05305, doi:10.1029/[2003JA010296](https://doi.org/10.1029/2003JA010296), 2004.
2425. Eastes, R. W., S. Bailey, B. Bowman, F. Marcos, J. Wise, and T. N. Woods, The correspondence between thermospheric neutral densities and broadband measurements of the total solar soft X-ray flux, *Geophys. Res. Lett.*, *31*, L19804, doi:[10.1029/2004GL020801](https://doi.org/10.1029/2004GL020801), 2004.
2426. Fang, X., M. W. Liemohn, J. U. Kozyra, and S. C. Solomon, Quantification of the spreading effect of auroral proton precipitation, *J. Geophys. Res.*, *109*, A04309, doi:10.1029/[2003JA010119](https://doi.org/10.1029/2003JA010119), 2004.
2427. Forbes, J. M., Y. Portnyagin, W. R. Skinner, R. Vincent, T. Solovjova, E. Merzlyakov, T. Nakamura, and S. E. Palo, Climatological lower thermosphere winds as seen by ground-based and space-based instruments, *Ann. Geophys.*, *22*, 6, [1931-1945](https://doi.org/10.1007/s00563-004-0001-1), 2004.
2428. Fox, J. L., CO₂⁺ dissociative recombination: A source of thermal and nonthermal C on Mars, *J. Geophys. Res. Space Physics*, *109*(A8), doi:[10.1029/2004JA010514](https://doi.org/10.1029/2004JA010514), 2004.
2429. Fox, J. L., Response of the Martian thermosphere/ionosphere to enhanced fluxes of solar soft X rays, *J. Geophys. Res. Space Physics*, *109*(A11), doi:[10.1029/2004JA010380](https://doi.org/10.1029/2004JA010380), 2004.
2430. Fritts, D. C., B. P. Williams, C.-Y. She, J. D. Vance, M. Rapp, F.-J. Lübken, A. Müllemann, F. J. Schmidlin, and R. A. Goldberg, Observations of extreme temperature and wind gradients near the summer mesopause during the MaCWAVE/MIDAS rocket campaign, *Geophys. Res. Lett.*, *31*, L24S06, doi:10.1029/[2003GL019389](https://doi.org/10.1029/2003GL019389), 2004.
2431. Galand, M., and D. Lummerzheim, Contribution of proton precipitation to space-based auroral FUV observations, *J. Geophys. Res.*, *109*, A03307, doi:10.1029/[2003JA010321](https://doi.org/10.1029/2003JA010321), 2004.

2432. Gavrilov, N. M., D. M. Riggin, and D. C. Fritts, Interannual variations of the mean wind and gravity wave variances in the middle atmosphere over Hawaii, *J. Atmos. Solar-Terr. Phys.*, 66, 637-645, doi:10.1016/j.jastp.2004.01.015, 2004.
2433. Goldberg, R. A., D. C. Fritts, B. P. Williams, F.-J. Luebken, M. Rapp, W. Singer, R. Latteck, P. Hoffmann, A. Muellemann, G. Baumgarten, F. J. Schmidlin, C.-Y. She, and D. A. Krueger, The MaCWAVE/MIDAS rocket and ground-based measurements of polar summer dynamics: Overview and mean state structure, *Geophys. Res. Lett.*, 31, L24S02, doi:10.1029/2004GL019411, 2004.
2434. Goncharenko, L. P., J. E. Salah, J. C. Foster, and C.-S. Huang, Variations in Lower Thermosphere Dynamics at Mid-Latitudes During Intense Geomagnetic Storms, *J. Geophys. Res.*, 109 (A4), A04304, doi:10.1029/2003JA010244, 2004.
2435. Hoffmann, L., R. Spang, and M. Riese, "Retrieval of chlorofluorocarbon distributions from Envisat MIPAS measurements", *Proc. SPIE 5571, Remote Sensing of Clouds and the Atmosphere IX*, 30 November 30, 2004, doi:10.1117/12.564794, 2004.
2436. Kawahara, T. D., T. Kitahara, J. Yamashita, F. Kobayashi, Y. Saito, and A. Nomura, Sodium temperature lidar observation at Syowa Station: Summary of three-year observations and unusually high temperature in 2002, *Adv. Polar Upper Atmos. Res.*, 18, 131-139, 2004.
2437. Keckhut, P., S. McDermid, D. Swart, T. McGee, S. Godin-Beekmann, A. Adriani, J. Barnes, J.-L. Baray, H. Bencherif, H. Claude, A. G. di Sarra, G. Fiocco, G. Hansen, A. Hauchecorne, T. Leblanc, C. H. Lee, S. Pal, G. Megie, H. Nakane, R. Neuber, W. Steinbrecht, and J. Thayer, Review of ozone and temperature lidar validations performed within the framework of the Network for the Detection of Stratospheric Change, *J. Environ. Monit.*, 6, 721-733, doi:10.1039/b404256e, 2004.
2438. Kil, H., R. DeMajistre, and L. J. Paxton, F-region plasma distribution seen from TIMED/GUVI and its relation to the equatorial spread F activity, *Geophys. Res. Lett.*, 31, L05810, doi:10.1029/2003GL018703, 2004.
2439. Kil, H., S.-Y. Su, L. J. Paxton, B. C. Wolven, Y. Zhang, D. Morrison, and H. C. Yeh, Coincident equatorial bubble detection by TIMED/GUVI and ROCSAT-1, *Geophys. Res. Lett.*, 31, L03809, doi:10.1029/2003GL018696, 2004.
2440. Knipp, D. J., W. K. Tobiska, and B. A. Emery, Direct and indirect thermospheric heating sources for solar cycles 21-23, *Sol. Phys.*, 224(1-2), 495-505, doi:10.1007/s11207-005-6393-4, 2004.
2441. Lieberman, R. S., J. Oberheide, M. E. Hagan, E. E. Remsberg, and L. L. Gordley, Variability of diurnal tides and planetary waves during November 1978-May 1979, *J. Atmos. Solar-Terr. Phys.*, 66, 517-528, doi:10.1016/j.jastp.2004.01.006, 2004.
2442. Lima, W., F. Becker-Guedes, Y. Sahai, P. R. Fagundes, J. R. Abalde, G. Crowley, and J. A. Bittencourt, Response of the Equatorial and Low-Latitude Ionosphere during the Space Weather Events of April 2002, *Ann. Geophys.*, 22, 9, 3211-3219, doi:10.5194/angeo-22-3211-2004, 2004.
2443. Liu, H.-L., E. R. Talaat, R. G. Roble, R. S. Lieberman, D. M. Riggin, and J.-H. Yee, The 6.5-day wave and its seasonal variability in the middle and upper atmosphere, *J. Geophys. Res.*, 109, D21112, doi:10.1029/2004JD004795, 2004.
2444. Llewellyn, E. J., N. D. Lloyd, D. A. Degenstein, R. L. Gattinger, S. V. Petelina, A. E. Bourassa, J. T. Wiensz, E. V. Ivanov, I. C. McDade, B. H. Solheim, J. C. McConnell, C. S. Haley, C. von Savigny, C. E. Sioris, C. A. McLinden, E. Griffioen, J. Kaminski, W. F. Evans, E. Puckrin, K. Strong, V. Wehrle, R. H. Hum, D. J. Kendall, J. Matsushita, D. P. Murtagh, S. Brohede, J. Stegman, G. Witt, G. Barnes, W. F. Payne, L. Piché, K. Smith, G. Warshaw, D.-L. Deslauniers, P. Marchand, E. H. Richardson, R. A. King, I. Wevers, W. McCreath, E. Kyrölä, L. Oikarinen, G. W. Leppelmeier, H. Auvinen, G. Mégie, A. Hauchecorne, F. Lefèvre, J. de La

- Nöe, P. Ricaud, U. Frisk, F. Sjöberg, F. von Schéele, and L. Nordh, The OSIRIS instrument on the Odin spacecraft, *Can. J. Phys.*, *82*, 411-422, doi:[10.1139/p04-005](https://doi.org/10.1139/p04-005), 2004.
2445. López-Puertas, M., M. García-Comas, B. Funke, R. H. Picard, J. R. Winick, P. P. Wintersteiner, M. G. Mlynczak, C. J. Mertens, J. M. Russell III, and L. L. Gordley, Evidence for an OH(v) excitation mechanism of CO₂ 4.3 μm nighttime emission from SABER/TIMED measurements, *J. Geophys. Res.*, *109*, D09307, doi:10.1029/[2003JD004383](https://doi.org/2003JD004383), 2004.
2446. Maharaj-Sharma, R., and G. G. Shepherd, Solar variability of the daytime atomic oxygen O(¹S) emission in the middle and lower thermosphere, *J. Geophys. Res.*, *109*, A03303, doi:[10.1029/2003JA010183](https://doi.org/10.1029/2003JA010183), 2004.
2447. Marcos, F. A., J. O. Wise, M. J. Kendra, and N. Grossbard, Advances in Satellite Drag Modeling, In: *Proc. of 42nd AIAA Aerospace Sciences Meeting and Exhibit* (pp. 5-8), 2004.
2448. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Modeling study of mesospheric planetary waves: genesis and characteristics, *Ann. Geophys.*, *22*, 6, [1885-1902](https://doi.org/10.1007/s00565-004-0190-2), 2004.
2449. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Properties of internal planetary-scale inertio gravity waves in the mesosphere, *Ann. Geophys.*, *22*, 10, [3421-3435](https://doi.org/10.1007/s00565-004-0343-5), 2004.
2450. Mertens, C. J., F. J. Schmidlin, R. A. Goldberg, E. E. Remsberg, W. D. Pesnell, J. M. Russell III, M. G. Mlynczak, M. López-Puertas, P. P. Wintersteiner, R. H. Picard, J. R. Winick, and L. L. Gordley, SABER observations of mesospheric temperatures and comparisons with falling sphere measurements taken during the 2002 summer MaCWAVE campaign, *Geophys. Res. Lett.*, *31*, L03105, doi:10.1029/[2003GL018605](https://doi.org/2003GL018605), 2004.
2451. Mlynczak, M. G., F. J. Martin-Torres, D. G. Johnson, D. P. Kratz, W. A. Traub, and K. Jucks, Observations of the O(³P) fine structure line at 63 μm in the upper mesosphere and lower thermosphere, *J. Geophys. Res.*, *109* (A12), A12306, doi:10.1029/[2004JA010595](https://doi.org/2004JA010595), 2004.
2452. Picard, R. H., P. P. Wintersteiner, J. R. Winick, C. J. Mertens, M. G. Mlynczak, J. M. Russell III, L. L. Gordley, W. E. Ward, C. Y. She, and R. R. O'Neil, "Tidal and layer structure in the mesosphere and lower thermosphere from TIMED/SABER CO₂ 15-μm emission", *Proc. SPIE* 5571, Remote Sensing of Clouds and the Atmosphere IX, Maspalomas, Canary Islands, 30 November 2004, doi:[10.1117/12.568060](https://doi.org/10.1117/12.568060), 2004.
2453. Rapp, M., B. Strelnikov, A. Muellemann, F.-J. Lübken, and D. C. Fritts, Turbulence measurements and implications for gravity wave dissipation during the MaCWAVE/MIDAS rocket program, *Geophys. Res. Lett.*, *31*, L24S07, doi:10.1029/[2003GL019325](https://doi.org/2003GL019325), 2004.
2454. Rapp, M., and F.-J. Lübken, Polar mesosphere summer echoes (PMSE): Review of observations and current understanding, *Atmos. Chem. Phys.*, *4*, 11/12, doi:10.5194/acp-4-2601-2004, 2004.
2455. Remsberg, E. E., L. L. Gordley, B. T. Marshall, R. E. Thompson, J. Burton, P. Bhatt, V. L. Harvey, G. Lingenfelter, and M. Natarajan, The Nimbus 7 LIMS version 6 radiance conditioning and temperature retrieval methods and results, *J. Quant. Spectrosc. Radiat. Transf.*, *86*, 4, 395-424, doi:[10.1016/j.jqsrt.2003.12.007](https://doi.org/10.1016/j.jqsrt.2003.12.007), 2004.
2456. Richards, P. G., On the increases in nitric oxide density at midlatitudes during ionospheric storms, *J. Geophys. Res.*, *109*, A6, doi:10.1029/2003JA010110, 2004.
2457. Riggan, D. M., R. S. Lieberman, R. A. Vincent, A. H. Manson, C. E. Meek, T. Nakamura, T. Tsuda, and Y. I. Portnyagin, The 2-day wave during the boreal summer of 1994, *J. Geophys. Res.*, *109*, D08110, doi:10.1029/[2003JD004493](https://doi.org/2003JD004493), 2004.
2458. Sahai, Y., P. R. Fagundes, F. Becker-Guedes, J. R. Abalde, G. Crowley, X. Pi, K. Igarashi, G. M. Amarante, A. A. Pimenta, and J. A. Bittencourt, Longitudinal Difference Observed in the Ionospheric F-Region During the Major Geomagnetic Storm of March 31, 2001, *Ann. Geophys.*, *22*, [3221-3229](https://doi.org/10.1007/s00565-004-0322-9), 2004.

2459. Schoech, A., G. Baumgarten, D. C. Fritts, P. Hoffmann, A. Serafimovich, L. Wang, P. Dalin, A. Muellemann, and F. J. Schmidlin, Gravity waves in the troposphere and stratosphere during the MaCWAVE/MIDAS summer rocket program, *Geophys. Res. Lett.*, 31, doi:10.1029/[2004GL019837](https://doi.org/2004GL019837), 2004.
2460. She, C.-Y., Initial full-diurnal-cycle mesopause region lidar observations: diurnal-means and tidal perturbations of temperature and winds over Fort Collins, CO (41°N,105°W), *J. Atmos. Solar-Terr. Phys.*, 66 (6-9), 663-674, doi:10.1016/j.jastp.2004.01.037, 2004.
2461. She, C.-Y., T. Li, B. P. Williams, T. Yuan, and R. H. Picard, Concurrent OH imager and sodium temperature/wind lidar observation of a mesopause region undular bore event over Fort Collins/Platteville, CO, *J. Geophys. Res.*, 109, D22107, doi:10.1029/[2004JD004742](https://doi.org/2004JD004742), 2004.
2462. She, C.-Y., T. Li, T. Yuan, T. Kawahara, and D. A. Krueger, Tidal perturbations and variability in the mesopause region over Fort Collins, CO (41N, 105W): Continuous multi-day temperature and wind lidar observations, *Geophys. Res. Lett.*, 31, L24111, doi:10.1029/[2004GL021165](https://doi.org/2004GL021165), 2004.
2463. Steffl, A. J., A. I. F. Stewart, and F. Bagenal, Cassini UVIS observations of the Io plasma torus: I. Initial results, *Icarus*, 172(1), 78-90, doi:[10.1016/j.icarus.2003.12.027](https://doi.org/10.1016/j.icarus.2003.12.027), 2004.
2464. Strickland, D. J., J. L. Lean, R. R. Meier, A. B. Christensen, L. J. Paxton, D. Morrison, J. D. Craven, R. L. Walterscheid, D. L. Judge, and D. R. McMullin, Solar EUV irradiance variability derived from terrestrial far ultraviolet dayglow observations, *Geophys. Res. Lett.*, 31, L03801, doi:[10.1029/2003GL018415](https://doi.org/10.1029/2003GL018415), 2004.
2465. Strickland, D. J., R. R. Meier, R. L. Walterscheid, A. B. Christensen, L. J. Paxton, D. Morrison, J. D. Craven, and G. Crowley, Quiet-time seasonal behavior of the thermosphere seen in the far ultraviolet dayglow, *J. Geophys. Res.*, 109(A1), A01302, doi:10.1029/[2003JA010220](https://doi.org/2003JA010220), 2004.
2466. Sugita, T., T. Yokota, H. Nakajima, H. Kobayashi, N. Saitoh, H. Kawasaki, M. Usami, H. Saeki, M. Horikawa, and Y. Sasano, "A comparative study of stratospheric temperatures between ILAS-II and other data", *Proc. SPIE 5652, Passive Optical Remote Sensing of the Atmosphere and Clouds IV*, 279, Honolulu, 30 December 2004, doi:[10.1117/12.570872](https://doi.org/10.1117/12.570872), 2004.
2467. Thayer, J. P., and J. Semeter, The convergence of magnetospheric energy flux in the polar atmosphere, *J. Atmos. Solar-Terr. Phys.*, 66(10), 805-822, doi:[10.1016/j.jastp.2004.01.035](https://doi.org/10.1016/j.jastp.2004.01.035), 2004.
2468. Tobiska, W. K., SOLAR2000 irradiances for climate change research, aeronomy and space system engineering, *Adv. Space Res.*, 34(8), 1736-1746, 2004.
2469. Vadas, S. L., and D. C. Fritts, Thermospheric responses to gravity waves arising from mesoscale convective complexes, *J. Atmos. Solar-Terr. Phys.*, 66, 781-804, doi:10.1016/j.jastp.2004.01.025, 2004.
2470. Woods, T. N., F. G. Eparvier, J. Fontenla, J. Harder, G. Kopp, W. E. McClintock, G. J. Rottman, B. Smiley, and M. Snow, Solar irradiance variability during the October 2003 solar storm period, *Geophys. Res. Lett.*, 31, L10802, doi:10.1029/[2004GL019571](https://doi.org/2004GL019571), 2004.
2471. Zhang, S. P., J. P. Thayer, R. G. Roble, J. E. Salah, G. G. Shepherd, L. P. Goncharenko, and Q. Zhou, Latitudinal variations of neutral wind structures in the lower thermosphere for the March equinox period, *J. Atmos. Solar-Terr. Phys.*, 66, 105-117, doi:10.1016/j.jastp.2003.09.011, 2004.
2472. Zhang, Y., L. J. Paxton, C.-I. Meng, D. Morrison, B. Wolven, H. Kil, and A. B. Christensen, Double dayside detached auroras: TIMED/GUVI observations, *Geophys. Res. Lett.*, 31, L10801, doi:10.1029/[2003GL018949](https://doi.org/2003GL018949), 2004.

2473. Zhang, Y., L. J. Paxton, D. Morrison, B. Wolven, H. Kil, C.-I. Meng, S. B. Mende, and T. J. Immel, O/N₂ changes during 1-4 October 2002 storms: IMAGE SI-13 and TIMED/GUVI observations, *J. Geophys. Res.*, *109*, A10308, doi:10.1029/[2004JA010441](https://doi.org/2004JA010441), 2004.

2003

2474. Beig, G., P. Keckhut, R. P. Lowe, R. G. Roble, M. G. Mlynczak, J. Scheer, V. Fomichev, D. Offermann, W. J. R. French, M. G. Shepherd, A. I. Semenov, E. E. Remsberg, C.-Y. She, F. J. Lübken, J. Bremer, B. R. Clemesha, J. Stegman, F. Sigernes, and S. Fadnavis, Review of Mesospheric Temperature Trends, *Rev. Geophys.*, *41*, doi:10.1029/[2002RG000121](https://doi.org/2002RG000121), 2003.
2475. Bingham, G. E., H. M. Latvakoski, S. J. Wellard, M. G. Mlynczak, D. G. Johnson, W. A. Traub, and K. W. Jucks, "Far-infrared spectroscopy of the troposphere (FIRST): sensor development and performance drivers", *Proc. SPIE 5157*, Optical Spectroscopic Techniques and Instrumentation for Atmospheric and Space Research V, 5 November 2003, doi:[10.1117/12.509674](https://doi.org/10.1117/12.509674), 2003.
2476. Christensen, A. B., L. J. Paxton, S. K. Avery, J. Craven, G. Crowley, D. C. Humm, H. Kil, R. R. Meier, C.-I. Meng, D. Morrison, B. S. Ogorzalek, P. Straus, D. J. Strickland, R. M. Swenson, R. L. Walterscheid, B. Wolven, and Y. Zhang, Initial observations with the Global Ultraviolet Imager (GUVI) in the NASA TIMED satellite mission, *J. Geophys. Res. Space Physics*, *108*(A12), 1451, doi:[10.1029/2003JA009918](https://doi.org/10.1029/2003JA009918), 2003.
2477. Cierpik, K. M., J. M. Forbes, S. Miyahara, Y. Miyoshi, A. Fahrutdinova, C. Jacobi, A. Manson, C. Meek, N. J. Mitchell, and Y. I. Portnyagin, Longitudinal variability of the solar semidiurnal tide in the lower thermosphere through assimilation of ground-based and space-based wind measurements, *J. Geophys. Res.*, *108* (A5), 1202, doi:10.1029/[2002JA009349](https://doi.org/2002JA009349), 2003.
2478. Croskey, C. L., J. D. Mitchell, M. Friedrich, F. J. Schmidlin, and J. W. Meriwether, Initial results of a rocket-based study of gravity wave effects on photoionization in the middle atmosphere, *Adv. Space Res.*, *32*, 5, 741-746, doi:10.1016/S0273-1177(03)00409-5, 2003.
2479. Duff, J. W., H. Dothe, and R. D. Sharma, On the rate coefficient of the N(²D)+O₂→NO+O reaction in the terrestrial thermosphere, *Geophys. Res. Lett.*, *30*, 1259, doi:[10.1029/2002GL016720](https://doi.org/10.1029/2002GL016720), 2003.
2480. Floyd, L. E., J. W. Cook, L. C. Herring, and P. C. Crane, SUSIM'S 11-year observational record of the solar UV irradiance, *Adv. Space Res.*, *31*(9), doi:[10.1016/S0273-1177\(03\)00148-0](https://doi.org/10.1016/S0273-1177(03)00148-0), 2111-2120, 2003.
2481. Forbes, J. M., M. E. Hagan, S. Miyahara, Y. Miyoshi, and X. Zhang, Diurnal nonmigrating tides in the tropical lower thermosphere, *Earth, Planets Space*, *55*, 419-426, 2003.
2482. Forbes, J. M., X. Zhang, E. R. Talaat, and W. Ward, Nonmigrating diurnal tides in the thermosphere, *J. Geophys. Res.*, *108* (A1), 1033, p. SIA 7-1 to SIA 7-11, doi:10.1029/[2002JA009262](https://doi.org/2002JA009262), 2003.
2483. Fritts, D. C., and M. J. Alexander, Gravity wave dynamics and effects in the middle atmosphere, *Rev. Geophys.*, *41* (1), 1003, doi:[10.1029/2001RG000106](https://doi.org/10.1029/2001RG000106), 2003.
2484. Fritts, D. C., C. Bizon, J. A. Werne, and C. K. Meyer, Layering accompanying turbulence generation due to shear instability and gravity wave breaking, *J. Geophys. Res.*, *108* (D8), 8452, doi:10.1029/[2002JD002406](https://doi.org/2002JD002406), 2003.
2485. Gavrillov, N. M., D. M. Riggin, and D. C. Fritts, Medium-frequency radar studies of gravity-wave seasonal variations over Hawaii (22° N, 160° W), *J. Geophys. Res.*, *108* (D20), 4655, doi:10.1029/[2002JD003131](https://doi.org/2002JD003131), 2003.
2486. Hansen, S., J. Peterson, R. Esplin, and J. Tansock, Component level prediction versus system level measurement of SABER relative spectral response, *Int. J. Remote Sens.*, *24*, 2, 389-402, doi:[10.1080/01431160304968](https://doi.org/10.1080/01431160304968), 2003.

2487. Hench, J. L., and R. A. Luettich, Transient Tidal Circulation and Momentum Balances at a Shallow Inlet, *J. Phys. Oceanogr.*, 33, 4, doi:[10.1175/1520-0485\(2003\)33<913:TTCAMB>2.0.CO;2](https://doi.org/10.1175/1520-0485(2003)33<913:TTCAMB>2.0.CO;2), 2003.
2488. Hwang, E. S., K. J. Castle, and J. A. Dodd, Vibrational relaxation of NO, *J. Geophys. Res. Space Physics*, 108, A3, doi:[10.1029/2002JA009688](https://doi.org/10.1029/2002JA009688), 2003.
2489. Kelley, M. C., J. J. Makela, L. J. Paxton, F. Kamalabadi, J. M. Comberiate, and H. Kil, The first coordinated ground- and space-based optical observations of equatorial plasma bubbles, *Geophys. Res. Lett.*, 30(14), 1766, doi:[10.1029/2003GL017301](https://doi.org/10.1029/2003GL017301), 2003.
2490. Kil, H., L. J. Paxton, X. Pi, M. R. Hairston, and Y. Zhang, Case study of the 15 July 2000 magnetic storm effects on the ionosphere-driver of the positive ionospheric storm in the winter hemisphere, *J. Geophys. Res.*, 108 (A11), 1391, doi:[10.1029/2002JA009782](https://doi.org/10.1029/2002JA009782), 2003.
2491. Lean, J. L., H. P. Warren, J. T. Mariska, and J. Bishop, A new model of solar EUV irradiance variability 2. Comparisons with empirical models and observations and implications for space weather, *J. Geophys. Res. Space Physics*, 108(A2), 2003.
2492. Marsh, D. R., A. K. Smith, and E. Noble, Mesospheric ozone response to changes in water vapor, *J. Geophys. Res.*, 108 (D3), 4109, doi:[10.1029/2002JD002705](https://doi.org/10.1029/2002JD002705), 2003.
2493. Mayr, H. G., J. G. Mengel, D. P. Drob, H. S. Porter, and K. L. Chan, Modeling Studies with QBO: I. Quasi-Decadal Oscillation, *J. Atmos. Solar-Terr. Phys.*, 65, 887-899, doi:[10.1016/S1364-6826\(03\)00110-X](https://doi.org/10.1016/S1364-6826(03)00110-X), 2003.
2494. Mayr, H. G., J. G. Mengel, D. P. Drob, H. S. Porter, and K. L. Chan, Modeling Studies with QBO: II. Solar Cycle Effect, *J. Atmos. Solar-Terr. Phys.*, 65, 901-916, doi:[10.1016/S1364-6826\(03\)00111-1](https://doi.org/10.1016/S1364-6826(03)00111-1), 2003.
2495. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Non-migrating diurnal tides generated with planetary waves in the Mesosphere, *Geophys. Res. Lett.*, 30 (16), 1832, doi:[10.1029/2003GL017877](https://doi.org/10.1029/2003GL017877), 2003.
2496. Mayr, H. G., J. G. Mengel, E. R. Talaat, H. S. Porter, and K. L. Chan, Planetary-scale inertio gravity waves in the Mesosphere, *Geophys. Res. Lett.*, 30 (23), 2228, doi:[10.1029/2003GL018376](https://doi.org/10.1029/2003GL018376), 2003.
2497. Mayr, H. G., J. G. Mengel, D. P. Drob, H. S. Porter, and K. L. Chan, Intraseasonal Variations in the Middle Atmosphere Forced by Gravity Waves, *J. Atmos. Solar-Terr. Phys.*, 65, 1187, doi:[10.1016/j.jastp.2003.07.008](https://doi.org/10.1016/j.jastp.2003.07.008), 2003.
2498. Medeiros, A. F., M. J. Taylor, H. Takahashi, P. P. Batista, and D. Gobbi, An investigation of gravity wave activity in the low-latitude upper mesosphere: Propagation direction and wind filtering, *J. Geophys. Res.*, 108 (D14), 4411, doi:[10.1029/2002JD002593](https://doi.org/10.1029/2002JD002593), 2003.
2499. Mlynczak, M. G., F. J. Martin-Torres, J. M. Russell III, K. Beaumont, S. Jacobson, J. Kozyra, M. López-Puertas, B. Funke, C. J. Mertens, L. Gordley, R. H. Picard, J. R. Winick, P. P. Wintersteiner, and L. J. Paxton, The natural thermostat of nitric oxide emission at 5.3 μm in the thermosphere observed during the solar storms of April 2002, *Geophys. Res. Lett.*, 30 (21), 2100, doi:[10.1029/2003GL017693](https://doi.org/10.1029/2003GL017693), 2003.
2500. Oberheide, J., M. E. Hagan, and R. G. Roble, Tidal signatures and aliasing in temperature data from slowly precessing satellites, *J. Geophys. Res.*, 108(A2), 1055, doi:[10.1029/2002JA009585](https://doi.org/10.1029/2002JA009585), 2003.
2501. Paxton, L. J., D. Morrison, D. J. Strickland, M. G. McHarg, Y. Zhang, B. Wolven, H. Kil, G. Crowley, A. B. Christensen, and C.-I. Meng, The use of far ultraviolet remote sensing to monitor space weather, *Adv. Space Res.*, 31 (4), doi:[10.1016/S0273-1177\(02\)00886-4](https://doi.org/10.1016/S0273-1177(02)00886-4), 2003.
2502. Povich, M. S., J. C. Raymond, G. H. Jones, M. Uzzo, Y.-K. Ko, P. D. Feldman, P. L. Smith, B. G. Marsden, and T. N. Woods, Doubly ionized carbon observed in the plasma tail of comet Kudo-Fujikawa, *Science*, 302(5652), 1949-1952, doi:[10.1126/science.1092142](https://doi.org/10.1126/science.1092142), 2003.

2503. Remsberg, E. E., G. Lingenfelter, V. L. Harvey, W. Grose, J. M. Russell III, M. G. Mlynczak, L. Gordley, and B. T. Marshall, On the verification of the quality of SABER temperature, geopotential height, and wind fields by comparison with MET Office assimilated analyses, *J. Geophys. Res.*, *108*(D20), doi:10.1029/[2003JD003720](https://doi.org/10.1029/2003JD003720), 2003.
2504. She, C.-Y., J. Sherman, T. Yuan, B. P. Williams, K. Arnold, T. D. Kawahara, T. Li, L. F. Xu, J. D. Vance, and D. A. Krueger, The first 80-hour continuous lidar campaign for simultaneous observation of mesopause region temperature and wind, *Geophys. Res. Lett.*, *30* (6), 52, doi:10.1029/[2002GL016412](https://doi.org/10.1029/2002GL016412), 2003.
2505. Sherman, J., B. P. Williams, T. D. Kawahara, D. A. Krueger, and C.-Y. She, A dynamical study of the winter mid-latitude mesopause region (80-105km) based on initial simultaneous lidar measurements of temperature, and winds over Fort Collins, CO (41N, 105W), *Adv. Space Res.*, *32*, 753-758, doi:10.1016/S0273-1177(03)00411-3, 2003.
2506. Siskind, D. E., M. H. Stevens, J. T. Emmert, D. P. Drop, A. J. Kochenash, J. M. Russell III, L. L. Gordley, and M. G. Mlynczak, Signatures of shuttle and rocket exhaust plumes in TIMED/SABER radiance data, *Geophys. Res. Lett.*, *30* (15), 1819, doi:10.1029/[2003GL017627](https://doi.org/10.1029/2003GL017627), 2003.
2507. Smith, A. K., D. R. Marsh, and A. C. Szymczak, Interaction of chemical heating and tides in the mesosphere, *J. Geophys. Res.*, *108* (D5), 4164, doi:10.1029/[2002JD002664](https://doi.org/10.1029/2002JD002664), 2003.
2508. Smith, A. K., The origin of stationary planetary waves in the upper mesosphere, *J. Atmos. Sci.*, *60*, 24, 3033-3041, 2003.
2509. Talaat, E. R., J.-H. Yee, A. B. Christensen, T. L. Killeen, J. M. Russell III, and T. N. Woods, TIMED science: First light, *Johns Hopkins APL Technical Digest*, *24*(2), 143, 2003.
2510. Tansock, J. J., S. Hansen, K. Paskett, A. Shumway, J. Peterson, J. Stauder, L. L. Gordley, Y. Wang, M. Melbert, J. M. Russell III, and M. G. Mlynczak, SABER ground calibration, *Int. J. Remote Sens.*, *24*, 2, doi:10.1080/01431160304969, 2003.
2511. Thuillier, G., L. Floyd, T. N. Woods, R. Cebula, E. Hilsenrath, M. Hersé, and D. Labs, Solar irradiance reference spectra, In: *Solar Variability and Its Effects on Climate*, pp 171-194, 2003.
2512. Tobiska, W. K., Forecast E10.7 for Improved LEO Satellite Operations, *J. Spacecr. Rockets*, *40*(3), 405-410, 2003.
2513. Vadas, S. L., D. C. Fritts, and M. J. Alexander, Mechanism for the generation of secondary waves in wave breaking regions, *J. Atmos. Sci.*, *60*, 1, 194-214, doi:10.1175/1520-0469(2003)060<0194:MFTGOS>2.0.CO;2, 2003.
2514. von Clarmann, T., T. C. Chineke, H. Fischer, B. Funke, M. García-Comas, S. Gil-Lopez, N. Glatthor, U. Grabowski, M. Höpfner, S. Kellmann, M. Kiefer, A. Linden, M. A. López-Puertas, M. Lopez-Valverde, G. M. Tsidu, M. Milz, T. Steck, and G. P. Stiller, "Remote sensing of the middle atmosphere with MIPAS", *Proc. SPIE 4882*, Remote Sensing of Clouds and the Atmosphere VII, 172, 4882, doi:10.1117/12.463356, 2003.
2515. Woods, T. N., S. M. Bailey, W. K. Peterson, H. P. Warren, S. C. Solomon, F. G. Eparvier, H. Garcia, C. W. Carlson, and J. P. McFadden, [Solar extreme ultraviolet variability of the X-class flare on April 21, 2002 and the terrestrial photoelectron response](https://doi.org/10.1029/2003SW000010), *Space Weather*, *1* (1), 1001, doi:10.1029/[2003SW000010](https://doi.org/10.1029/2003SW000010), 2003.
2516. Yang, P., M. G. Mlynczak, H. Wei, D. P. Kratz, B. A. Baum, Y. X. Hu, W. J. Wiscombe, A. Heidinger, and M. I. Mishchenko, Spectral signature of ice clouds in the far-infrared region: Single-scattering calculations and radiative sensitivity study, *J. Geophys. Res.*, *108* (D18), 4569, doi:10.1029/[2002JD003291](https://doi.org/10.1029/2002JD003291), 2003.
2517. Yee, J.-H., E. Rodberg, R. J. Harvey, D. Y. Kusnierkiewicz, W. Knopf, P. Grunberger, D. Grant, and G. E. Cameron, "Advanced technology and mission operations concepts employed

- on NASA's TIMED mission”, *Proc. SPIE* 5088, Space Systems Technology and Operations, 43, Orlando, doi:[10.1117/12.499870](https://doi.org/10.1117/12.499870), 2003.
2518. Zhang, S. P., J. E. Salah, N. Mitchell, W. Singer, Y. Murayama, R. R. Clark, A. van Eyken, and J. P. Thayer, Responses of the mesospheric wind at high latitudes to the April 2002 space storm, *Geophys. Res. Lett.*, 30, 2225, 2003.
2519. Zhang, S. P., L. P. Goncharenko, J. E. Salah, R. G. Roble, and G. G. Shepherd, Climatology of neutral winds in the lower thermosphere over Millstone Hill (42.6N) observed from ground and from space, *J. Geophys. Res.*, 108 (A1), 1051, 2003.
2520. Zhang, Y., L. J. Paxton, H. Kil, C.-I. Meng, S. B. Mende, H. U. Frey, and T. J. Immel, Negative ionospheric storms seen by the IMAGE FUV instrument, *J. Geophys. Res.*, 108 (A9), 1343, doi:[10.1029/2002JA009797](https://doi.org/10.1029/2002JA009797), 2003.
2521. Zhu, X., J.-H. Yee, and E. R. Talaat, Effect of short-term solar ultraviolet flux variability in a coupled model of photochemistry and dynamics, *J. Atmos. Sci.*, 60, 491-509, 2003.
2522. Zhu, X., Parameterization of non-local thermodynamic equilibrium source function with chemical production by an equivalent two-level model, *Adv. Atmos. Sci.*, 20, 487-495, 2003.

2002

2523. Bailey, S. M., C. A. Barth, and S. C. Solomon, A model of nitric oxide in the lower thermosphere, *J. Geophys. Res.*, 107, 1205, doi:[10.1029/2001JA000258](https://doi.org/10.1029/2001JA000258), 2002.
2524. Bhatia, R. S., Review of Spacecraft Cryogenic Coolers, *J. Spacecr. Rockets*, 39, 3, doi:[10.2514/2.3824](https://doi.org/10.2514/2.3824), 2002.
2525. Dyer, J. S., S. Brown, R. W. Esplin, G. Hansen, S. M. Jensen, J. L. Stauder, and L. Zollinger, “Contamination control of the SABER cryogenic infrared telescope”, *Proc. SPIE* 4774, Optical System Contamination: Effects, Measurements, and Control VII, Seattle, doi:[10.1117/12.481652](https://doi.org/10.1117/12.481652), 2002.
2526. Forbes, J. M., X. Zhang, W. Ward, and E. R. Talaat, Climatological features of mesosphere and lower thermosphere stationary planetary waves within $\pm 40^\circ$ latitude, *J. Geophys. Res.*, 107 (D17), doi:[10.1029/2001JD001232](https://doi.org/10.1029/2001JD001232), 2002.
2527. Fritts, D. C., S. L. Vadas, and Y. Yamada, An estimate of strong local body forcing and gravity wave radiation based on OH airglow and meteor radar observations, *Geophys. Res. Lett.*, 29, doi:[10.1029/2001GL013753](https://doi.org/10.1029/2001GL013753), 2002.
2528. Jensen, S. M., and J. C. Batty, “Cooling SABER: model predictions versus on-orbit performance”, *Proc. SPIE* 4822, Cryogenic Optical Systems and Instruments IX, 134, doi:[10.1117/12.457338](https://doi.org/10.1117/12.457338), 2002.
2529. Khosravi, R., G. Brasseur, A. K. Smith, D. Rusch, S. Walters, S. Chabrilat, and G. Kockarts, Response of the mesosphere to human-induced perturbations and solar variability calculated by a 2-D model, *J. Geophys. Res.*, 107, doi:[10.1029/2001JD001235](https://doi.org/10.1029/2001JD001235), 2002.
2530. Lang, J., W. T. Thompson, C. D. Pike, B. J. Kent, and C. R. Foley, The radiometric calibration of the coronal diagnostic spectrometer, *The Radiometric Calibration of SOHO*, [ESA SR-002](#), 2, 105, 2002.
2531. Lee, J. J., K. W. Min, V. P. Kim, V. V. Hegai, K.-I. Oyama, F. J. Rich, and J. Kim, Large density depletions in the nighttime upper ionosphere during the magnetic storm of July 15, 2000, *Geophys. Res. Lett.*, 29(3), doi:[10.1029/2001GL013991](https://doi.org/10.1029/2001GL013991), 2002.
2532. López-Puertas, M., B. Funke, M. A. Lupez-Valverde, F. J. Martin-Torres, T. von Clarmann, G. P. Stiller, H. Oelhaf, H. Fischer, and J.-M. Flaud, “Non-LTE studies for the analysis of MIPAS/ENVISAT data”, *Proc. SPIE* 4539, Remote Sensing of Clouds and the Atmosphere VI, Toulouse, 4 February 2002, doi:[10.1117/12.454458](https://doi.org/10.1117/12.454458), 2002.

2533. Mertens, C. J., M. G. Mlynczak, M. López-Puertas, and E. E. Remsberg, Impact of non-LTE processes on middle atmospheric water vapor retrievals from simulated measurements of 6.8 μm Earth limb emission, *Geophys. Res. Lett.*, 29 (9), doi:10.1029/2001GL014590, 2002.
2534. Miyasato, R., M. J. Taylor, H. Fukunishi, and H. C. Stenbaek-Nielsen, Statistical Characteristics of Sprite Halo Events Using Coincident Photometric and Imaging Data, *Geophys. Res. Lett.*, 29 (21), 2033, doi:10.1029/[2001GL014480](https://doi.org/10.1029/2001GL014480), 2002.
2535. Mlynczak, M. G., A comparison of space-based observations of the energy budgets of the mesosphere and the troposphere, *J. Atmos. Solar-Terr. Phys.*, 64, 877-887, 2002.
2536. Morrison, D., L. J. Paxton, H. Kil, Y. Zhang, B. S. Ogorzalek, and C.-I Meng, On-orbit calibration of the Special Sensor Ultraviolet Scanning Imager (SSUSI): a far-UV imaging spectrograph on DMSP F-16, *SPIE Optical Spectroscopic Techniques and Instrumentation for Atmospheric and Space Research IV*, A. M. Larar and M. G. Mlynczak, eds., 4485, 328-337, 2002.
2537. Murtagh, D., U. Frisk, F. Merino, M. Ridal, A. Jonsson, J. Stegman, G. Witt, P. Eriksson, C. Jiménez, G. Megie, J. de la Noë, P. Ricaud, P. Baron, J. R. Pardo, A. Hauchcorne, E. J. Llewellyn, D. A. Degenstein, R. L. Gattinger, N. D. Lloyd, W. F. J. Evans, I. C. McDade, C. S. Haley, C. Sioris, C. von Savigny, B. H. Solheim, J. C. McConnell, K. Strong, E. H. Richardson, G. W. Leppelmeier, E. Kyrölä, H. Auvinen, and L. Oikarinen, An overview of the Odin atmospheric mission, *Can. J. Phys.*, 80, 4, doi:[10.1139/p01-157](https://doi.org/10.1139/p01-157), 2002.
2538. Ogibalov, V. P., and G. M Shved, Non-local thermodynamic equilibrium in CO₂ in the middle atmosphere: III. Simplified models for the set of vibrational states, *J. Atmos. Solar-Terr. Phys.*, 64, 4, 389-396, doi:[10.1016/S1364-6826\(01\)00113-4](https://doi.org/10.1016/S1364-6826(01)00113-4), 2002.
2539. Pendleton Jr., W., and M. J. Taylor, The impact of L-uncoupling on Einstein coefficients for the OH Meinel (6,2) band: implications for Q-branch rotational temperatures, *J. Atmos. Solar-Terr. Phys.*, 64, 971-983, doi:[10.1016/S1364-6826\(02\)00051-2](https://doi.org/10.1016/S1364-6826(02)00051-2), 2002.
2540. Preusse, P., Space-based measurements of stratospheric mountain waves by CRISTA 1. Sensitivity, analysis method, and a case study, *J. Geophys. Res.*, 107, D23, doi:10.1029/2001JD000699, 2002.
2541. Riggan, D. M., E. Kudeki, Z. Feng, M. F. Sarango, and R. S. Lieberman, Jicamarca Radar observations of the diurnal and semidiurnal tide in the troposphere and lower stratosphere, *J. Geophys. Res.*, 107(D8), 4062, doi:[10.1029/2001JD001216](https://doi.org/10.1029/2001JD001216), 2002.
2542. Rottman, G. J., The solar irradiance and its variations, In: *The Evolving Sun and its Influence on Planetary Environments*, 269, p. 25, 2002.
2543. Smith, P. L., and M. C. Huber, Spectroradiometry for solar physics in space. *The Radiometric Calibration of SOHO*, ESA SR-002, 21-36, 2002.
2544. Stauder, J. L., L. R. Bates, J. S. Dyer, R. W. Esplin, and D. O. Miles, "Off-axis response measurement of the sounding of the atmosphere using broadband emission radiometry (SABER) telescope", *Proc. SPIE 4767*, Current Developments in Lens Design and Optical Engineering III, 70, doi:[10.1117/12.452295](https://doi.org/10.1117/12.452295), 2002.
2545. Stiller, G. P., T. von Clarmann, B. Funke, N. Glatthor, F. Hase, M. Höpfner, and A. Linden, Sensitivity of trace gas abundances retrievals from infrared limb emission spectra to simplifying approximations in radiative transfer modelling, *J. Quant. Spectrosc. Radiat. Transf.*, 72, 3, 249-280, doi:10.1016/S0022-4073(01)00123-6, 2002.
2546. Taylor, M. J., M. Gadsden, R. P. Lowe, M. S. Zalcik, and J. Brausch, Mesospheric cloud observations at unusually low latitudes, *J. Atmos. Solar-Terr. Phys.*, 64, 991-999, 2002.
2547. Tobiska, W. K., Variability in the solar constant from irradiances shortward of Lyman-Alpha, *Adv. Space Res.*, 29 (12), 1969-1974, doi:[10.1016/S0273-1177\(02\)00243-0](https://doi.org/10.1016/S0273-1177(02)00243-0), 2002.

2548. Vadas, S. L., and D. C. Fritts, The importance of variability in the generation of secondary gravity waves from local body forces, *Geophys. Res. Lett.*, 20 (20), doi:10.1029/2002GL015574, 2002.
2549. von Clarmann, T., Intercomparison of radiative transfer codes under non-local thermodynamic equilibrium conditions, *J. Geophys. Res.*, 107, D22, doi:10.1029/2001JD001551, 2002.
2550. Wickwar, V. B., M. J. Taylor, J. P. Herron, and B. A. Martineau, Visual and lidar observations of noctilucent clouds above Logan, Utah, at 41.7° N, *J. Geophys. Res.*, 107, D7, doi:10.1029/2001JD001180, 2002.
2551. Woods, T. N., and G. J. Rottman, Solar ultraviolet variability over time periods of aeronomic interest, *Atmospheres in the Solar System: Comparative Aeronomy*, eds. M. Mendillo, A. Nagy, and J. Hunter Waite Jr., *AGU Geophys. Monogr. Ser.*, 130, Wash. DC, 221-234, 2002.
2552. Woods, T. N., Solar vacuum ultraviolet irradiance measurements and models for solar cycle 23, In: *From Solar Min to Max: Half a Solar Cycle with SOHO*, 508, 165-172, 2002.
2553. Zhang, Y., L. J. Paxton, T. J. Immel, H. U. Frey, and S. B. Mende, Sudden solar wind dynamic pressure enhancements and dayside detached auroras: IMAGE and DMSP observations, *J. Geophys. Res.*, 108 (A4), 8001, doi:10.1029/2002JA009355, 2002.

2001

2554. Auchère, F., D. M. Hassler, D. C. Slater, and T. N. Woods, SWRI/LASP sounding rocket inter-calibration with the EIT instrument on board SOHO, *Sol. Phys.*, 202(2), 269-280, 2001.
2555. Bhatia, R. S., P. A. R. Ade, T. W. Bradshaw, M. R. Crook, M. J. Griffin, and A. H. Orłowska, The effects of cryocooler microphonics, EMI and temperature variations on bolometric detectors, *Cryogenics*, 41, 11-12, 851-863, doi:10.1016/S0011-2275(01)00167-9, 2001.
2556. Bishop, J., Thermospheric atomic hydrogen densities and fluxes from dayside Lyman α measurements, *J. Atmos. Solar-Terr. Phys.*, 63, 4, 331-340, doi:10.1016/S1364-6826(00)00211-X, 2001.
2557. DeMajistre, R., J.-H. Yee, and X. Zhu, Parameterizations of oxygen photolysis and energy deposition rates due to solar energy absorption in the Schumann-Runge continuum, *Geophys. Res. Lett.*, 28 (16), 3163-3166, doi:10.1029/2001GL013010, 2001.
2558. Liu, H.-L., R. G. Roble, M. J. Taylor, and W. Pendleton Jr., Mesospheric planetary waves at northern hemisphere fall equinox, *Geophys. Res. Lett.*, 28, 1903, 2001.
2559. Marsh, D. R., A. K. Smith, G. Brasseur, M. Kaufmann, and K.-U. Grossmann, The existence of a tertiary ozone maximum in the high-latitude middle mesosphere, *Geophys. Res. Lett.*, 28, 4531-4534, 2001.
2560. Mayr, H. G., J. G. Mengel, K. L. Chan, and H. S. Porter, Mesosphere dynamics with gravity wave forcing: Part I. Diurnal and semi-diurnal tides, *J. Atmos. Solar-Terr. Phys.*, 63, 1851-1864, doi:10.1016/S1364-6826(01)00056-6, 2001.
2561. Mayr, H. G., J. G. Mengel, K. L. Chan, and H. S. Porter, Mesosphere dynamics with gravity wave forcing: Part II. Planetary waves, *J. Atmos. Solar-Terr. Phys.*, 63, 1865-1881, doi:10.1016/S1364-6826(01)00057-8, 2001.
2562. Mertens, C. J., M. G. Mlynczak, M. López-Puertas, P. P. Wintersteiner, R. H. Picard, J. R. Winick, L. L. Gordley, and J. M. Russell III, Retrieval of mesospheric and lower thermospheric kinetic temperature from measurements of CO₂ 15 μ m Earth Limb Emission under non-LTE conditions, *Geophys. Res. Lett.*, 28, 7, 2001.
2563. Mertens, C. J., M. G. Mlynczak, M. López-Puertas, P. P. Wintersteiner, R. H. Picard, J. R. Winick, L. L. Gordley, and J. M. Russell III, Retrieval of mesospheric and lower thermospheric kinetic temperature from measurements of CO₂ 15 μ m Earth limb emission under non-LTE conditions, *Geophys. Res. Lett.*, 28, 1391-1394, doi:10.1029/2000GL012189, 2001.

2564. Mlynczak, M. G., F. Morgan, J.-H. Yee, P. J. Espy, D. Murtagh, B. T. Marshall, and F. J. Schmidlin, Simultaneous measurements of the O₂(¹Δ) and O₂(¹Σ) Airglows and ozone in the daytime mesosphere, *Geophys. Res. Lett.*, 28(6), 999-1002, doi:[10.1029/2000GL012423](https://doi.org/10.1029/2000GL012423), 2001.
2565. Sica, R. J., Z. A. Zylawy, and P. S. Argall, Ozone Corrections for Rayleigh-Scatter Temperature Determinations in the Middle Atmosphere, *J. Atmos. Oceanic Technol.*, 18, 7, doi:[10.1175/1520-0426\(2001\)018<1223:OCFRST>2.0.CO;2](https://doi.org/10.1175/1520-0426(2001)018<1223:OCFRST>2.0.CO;2), 2001.
2566. Smith, A. K., and D. A. Ortland, Modeling and analysis of the structure and generation of the terdiurnal tide, *J. Atmos. Sci.*, 58, 3116-3134, doi:[10.1175/1520-0469\(2001\)058<3116:MAAOTS>2.0.CO;2](https://doi.org/10.1175/1520-0469(2001)058<3116:MAAOTS>2.0.CO;2), 2001.
2567. Sobral, J. H. A., H. Takahashi, M. A. Abdu, M. J. Taylor, H. Sawant, D. C. Santana, D. Gobbi, A. F. Medeiros, C. J. Zamlutti, N. J. Schuch, and G. L. Borba, Thermospheric F-region travelling disturbances detected at low latitude by an OI 630 nm digital imager system, *Adv. Space Res.*, 27 (6-7), 1201-1206, doi:[10.1016/S0273-1177\(01\)00198-3](https://doi.org/10.1016/S0273-1177(01)00198-3), 2001.
2568. Solomon, S. C., Auroral particle transport using Monte Carlo and hybrid methods, *J. Geophys. Res.*, 106, 107, 2001.
2569. Swaminathan, P. K., D. F. Strobel, L. Acton, and L. J. Paxton, Model Update for Mesospheric / Thermospheric Nitric Oxide, *Phys. Chem. Earth*, 26, 533-537, doi:[10.1016/S1464-1917\(01\)00042-3](https://doi.org/10.1016/S1464-1917(01)00042-3), 2001.
2570. Talaat, E. R., J.-H. Yee, and X. Zhu, Gravity wave feedback effects on the diurnal migrating tide, *Adv. Space Res.*, 27, 10, 1755-1760, doi:[10.1016/S0273-1177\(01\)00327-1](https://doi.org/10.1016/S0273-1177(01)00327-1), 2001.
2571. Talaat, E. R., J.-H. Yee, and X. Zhu, Observations of the 6.5-day wave in the mesosphere and lower thermosphere, *J. Geophys. Res.*, 106(D18), 20715-20724, doi:[10.1029/2001JD900227](https://doi.org/10.1029/2001JD900227), 2001.
2572. Taylor, M. J., L. C. Gardner, and W. Pendleton Jr., Long-period wave signatures in mesospheric OH Meinel (6,2) band intensity and rotational temperature at mid-latitudes, *Adv. Space Res.*, 27 (6-7), 1171-1179, doi:[10.1016/S0273-1177\(01\)00153-3](https://doi.org/10.1016/S0273-1177(01)00153-3), 2001.
2573. Taylor, M. J., W. Pendleton Jr., H.-L. Liu, C.-Y. She, L. C. Gardner, R. G. Roble, and V. Vasoli, Large amplitude perturbations in mesospheric OH Meinel and 87-km Na lidar temperatures around the autumnal equinox, *Geophys. Res. Lett.*, 28, 1899, 2001.
2574. Tobiska, W. K., Validating the Solar EUV Proxy, E10.7, *J. Geophys. Res.*, 106, A12, 29969-29978, 2001.
2575. Vadas, S. L., and D. C. Fritts, Gravity wave radiation and mean responses to local body forces in the atmosphere, *J. Atmos. Sci.*, 58, 2249-2279, 2001.
2576. Warren, H. P., J. T. Mariska, and J. L. Lean, A new model of solar EUV irradiance variability: 1. Model formulation. *J. Geophys. Res. Space Physics*, 106(A8), 15745-15757, doi:[10.1029/2000JA000282](https://doi.org/10.1029/2000JA000282), 2001.
2577. Yoder, J. A., J. E. O-Reilly, A. H. Barnard, T. S. Moore, and C. M. Ruhsam, Variability in coastal zone color scanner (CZCS) Chlorophyll imagery of ocean margin waters off the US East Coast, *Continental Shelf Research*, 21, 1191-1218, doi:[10.1016/S0278-4343\(01\)00009-7](https://doi.org/10.1016/S0278-4343(01)00009-7), 2001.
2578. Zhu, X., J.-H. Yee, and E. R. Talaat, Diagnosis of dynamics and energy balance in the mesosphere and lower thermosphere, *J. Atmos. Sci.*, 58, 2441-2454, 2001.

2000

2579. André, R., J.-P. Villain, V. Krassnosel'skikh, and C. Hanuise, Super Dual Auroral Radar Network observations of velocity-divergent structures in the F region ionosphere, *J. Geophys. Res.*, 105, A9, doi:[10.1029/1999JA900492](https://doi.org/10.1029/1999JA900492), 2000.

2580. Azeem, S. M. I., T. L. Killeen, R. M. Johnson, Q. Wu, and D. A. Gell, Space-time analysis of TIMED Doppler Interferometer (TIDI) measurements, *Geophys. Res. Lett.*, 27(20), 3297-3300, doi:10.1029/1999GL011289, 2000.
2581. Bailey, S. M., T. N. Woods, C. A. Barth, S. C. Solomon, L. R. Canfield, and R. Korde, Measurements of the solar soft X-ray irradiance by the Student Nitric Oxide Explorer: First analysis and underflight calibrations, *J. Geophys. Res. Space Physics*, 105(A12), 27179-27193, 2000.
2582. Callis, L. B., Comment on "The diffuse aurora: A significant source of ionization in the middle atmosphere" by R. A. Frahm et al., *J. Geophys. Res.*, 105, D12, doi:10.1029/2000JD900117, 2000.
2583. Edwards, D. P., G. Zaragoza, M. Riese, and M. López-Puertas, Evidence of H₂O nonlocal thermodynamic equilibrium emission near 6.4 μ m as measured by cryogenic infrared spectrometers and telescopes for the atmosphere (CRISTA 1), *J. Geophys. Res.*, 105, D23, 29003-29021, doi:10.1029/2000JD900350, 2000.
2584. Hirooka, T., Normal mode Rossby waves as revealed by UARS/ISAMS observations, *J. Atmos. Sci.*, 57, 9, doi:10.1175/1520-0469(2000)057<1277:NMRWAR>2.0.CO;2, 2000.
2585. Limpasuvan, V., C. B. Leovy, and Y. J. Orsolini, Observed Temperature Two-Day Wave and Its Relatives near the Stratopause, *J. Atmos. Sci.*, 57, 11, doi:10.1175/1520-0469(2000)057<1689:OTTDWA>2.0.CO;2, 2000.
2586. Mayr, H. G., J. G. Mengel, C. A. Reddy, K. L. Chan, and H. S. Porter, Properties of QBO and SAO Generated by Gravity Waves, *J. Atmos. Solar-Terr. Phys.*, 62, 1135-1154, 2000.
2587. Miller, S. M., J. R. Winick, and H. E. Snell, Non-LTE effect on retrieval of temperature from the CO₂ laser band using CIRRIS 1A data, *J. Geophys. Res. Atmos.*, 105, 10193-10202, doi:10.1029/1999JD901111, 2000.
2588. Mlynczak, M. G., R. R. Garcia, R. G. Roble, and M. Hagan, Solar energy deposition rates in the mesosphere derived from airglow measurements: Implications for the ozone model deficit problem, *J. Geophys. Res.*, 105(D13), 17527-17538, doi:10.1029/2000JD900222, 2000.
2589. Nygrén, T., M. J. Taylor, G. R. Swenson, and M. S. Lehtinen, Observing gravity wave activity in the mesopause region by means of airglow tomography, *Adv. Space Res.*, 26 (6), 903-906, doi:10.1016/S0273-1177(00)00028-4, 2000.
2590. Pendleton Jr., W., M. J. Taylor, and L. C. Gardner, Terdiurnal oscillations in OH Meinel rotational temperatures for fall conditions at northern mid-latitude sites, *Geophys. Res. Lett.*, 27, 12, 1799-1802, 2000.
2591. Smith, A. K., Structure of the terdiurnal tide at 95 km., *Geophys. Res. Lett.*, 27, 177-180, 2000.
2592. Solomon, S. C., Modeling of the thermosphere/ionosphere system, *Phys. Chem. Earth*, 25, 499-503, doi:10.1016/S1464-1917(00)00065-9, 2000.
2593. Thompson, W. T., Differential scrubbing in a microchannel-plate intensified CCD detector, *Opt. Eng.*, 39(10), 2651-2659, doi:10.1117/1.1308486, 2000.
2594. Tobiska, W. K., and A. A. Nusinov, Status of the draft ISO solar irradiance standard, *Phys. Chem. Earth*, 25:5-6, 387-388, doi:10.1016/S1464-1917(00)00038-6, 2000.
2595. Tobiska, W. K., Status of the SOLAR2000 solar irradiance model, *Phys. Chem. Earth*, 25:5-6, 383-386, doi:10.1016/S1464-1917(00)00037-4, 2000.
2596. Tobiska, W. K., Measurement and modeling of solar EUV/UV radiation, *Phys. Chem. Earth*, 25:5-6, 371-374, doi:10.1016/S1464-1917(00)00034-9, 2000.
2597. Tobiska, W. K., T. N. Woods, F. Eparvier, R. Viereck, L. Floyd, D. Bouwer, G. J. Rottman, and O. R. White, The SOLAR2000 empirical solar irradiance model and forecast tool, *J. Atmos. Solar-Terr. Phys.*, 62, (14), 1233-1250, doi:10.1016/S1364-6826(00)00070-5, 2000.

2598. Wang, D. Y., W. E. Ward, G. G. Shepherd, and D.-L. Wu, Stationary Planetary Waves Inferred from WINDII Wind Data Taken within Altitudes 90-120 km during 1991-96, *J. Atmos. Sci.*, 57, 12, doi:[10.1175/1520-0469\(2000\)057<1906:SPWIFW>2.0.CO;2](https://doi.org/10.1175/1520-0469(2000)057<1906:SPWIFW>2.0.CO;2), 2000.
2599. Woods, T. N., G. J. Rottman, J. W. Harder, G. M. Lawrence, W. E. McClintock, G. A. Kopp, and C. Pankratz, Overview of the EOS SORCE mission. In *Intl. Symposium on Optical Science and Technology* (pp. 192-203), Intl. Society for Optics and Photonics, 2000.
2600. Woods, T. N., S. M. Bailey, F. G. Eparvier, G. M. Lawrence, J. L. Lean, W. E. McClintock, R. G. Roble, G. J. Rottman, S. C. Solomon, W. K. Tobiska, and O. R. White, The TIMED solar EUV experiment, *Phys. Chem. Earth*, 25:5-6, 393-396, doi:[10.1016/S1464-1917\(00\)00040-4](https://doi.org/10.1016/S1464-1917(00)00040-4), 2000.
2601. Zhu, X., J.-H. Yee, and D. F. Strobel, Middle atmosphere age of air in a globally balanced two-dimensional model, *J. Geophys. Res.*, 105 (D12), 15201-15212, doi:[10.1029/2000JD900230](https://doi.org/10.1029/2000JD900230), 2000.

1999

2602. Bailey, S. M., T. N. Woods, L. R. Canfield, R. Korde, C. A. Barth, S. C. Solomon, and G. J. Rottman, Sounding rocket measurements of the solar soft x-ray irradiance, *Sol. Phys.*, 186, 243-257, 1999.
2603. Bristow, W. A., J.-H. Yee, X. Zhu, and R. A. Greenwald, Simultaneous observations of the July 1996 2-day wave event using the Super Dual Auroral Radar Network and the High Resolution Doppler Imager, *J. Geophys. Res.*, 104(A6), 12715-12721, doi:[10.1029/1999JA900030](https://doi.org/10.1029/1999JA900030), 1999.
2604. Mayr, H. G., J. G. Mengel, C. A. Reddy, K. L. Chan, and H. S. Porter, The Role of Gravity Waves in Maintaining the QBO and SAO at Equatorial Latitudes, *Adv. Space Res.*, 24, 1531-1540, doi:[10.1016/S0273-1177\(99\)00876-5](https://doi.org/10.1016/S0273-1177(99)00876-5), 1999.
2605. Mayr, H. G., J. G. Mengel, K. L. Chan, and H. S. Porter, Seasonal Variations and Planetary Wave Modulation of Diurnal Tides Influenced by Gravity Waves, *Adv. Space Res.*, 24, 1541-1544, doi:[10.1016/S0273-1177\(99\)00877-7](https://doi.org/10.1016/S0273-1177(99)00877-7), 1999.
2606. Mertens, C. J., M. G. Mlynczak, R. R. Garcia, and R. Portmann, A detailed evaluation of the stratospheric heat budget 1. Radiative transfer, *J. Geophys. Res.*, 104(D6), 6021-6038, doi:[10.1029/1998JD200100](https://doi.org/10.1029/1998JD200100), 1999.
2607. Mlynczak, M. G., A new perspective on the molecular oxygen and hydroxyl airglow emissions, *J. Geophys. Res.*, 104(D22), 27535-27543, doi:[10.1029/1999JD900839](https://doi.org/10.1029/1999JD900839), 1999.
2608. Mlynczak, M. G., C. J. Mertens, R. R. Garcia, and R. Portmann, A detailed evaluation of the stratospheric heat budget 2. Global radiation balance and diabatic circulations, *J. Geophys. Res.*, 104(D6), 6039-6066, doi:[10.1029/1998JD200099](https://doi.org/10.1029/1998JD200099), 1999.
2609. Mlynczak, M. G., D. K. Zhou, M. López-Puertas, G. Zaragoza, and J. M. Russell III, Kinetic requirements for the measurement of mesospheric water vapor at 6.8 μm under non-LTE conditions, *Geophys. Res. Lett.*, 26(1), 63-66, doi:[10.1029/1998GL900232](https://doi.org/10.1029/1998GL900232), 1999.
2610. Raghavarao, R., R. Suhasini, H. G. Mayr, W. R. Hoegy, and L. E. Wharton, Equatorial Spread-F (ESF) and Vertical Winds, *J. Atmos. Solar-Terr. Phys.*, 61, 607-617, doi:[10.1016/S1364-6826\(99\)00017-6](https://doi.org/10.1016/S1364-6826(99)00017-6), 1999.
2611. Romick, G. J., J.-H. Yee, M. F. Morgan, D. Morrison, L. J. Paxton, and C.-I. Meng, Polar cap optical observations of topside (>900km) molecular nitrogen ions, *Geophys. Res. Lett.*, 26, 1003-1006, 1999.
2612. Tward, E., C. K Chan, C. Jaco, J. Godden, J. Chapsky, and P. Clancy, Miniature space pulse tube cryocoolers, *Cryogenics*, 39, 8, 717-720, doi:[10.1016/S0011-2275\(99\)00050-8](https://doi.org/10.1016/S0011-2275(99)00050-8), 1999.

2613. Yee, J.-H., G. E. Cameron, and D. Y. Kusnierkiewicz, "Overview of TIMED", *SPIE's Intl. Symposium on Optical Science, Engineering, and Instrumentation*, Intl. Society for Optics and Photonics, October 1999, (pp. 244-254), 1999.
2614. Zhou, D. K., M. G. Mlynczak, M. López-Puertas, and G. Zaragoza, Evidence of non-LTE effects in mesospheric water vapor from spectrally resolved emissions observed by CIRRIS-1A, *Geophys. Res. Lett.*, *26(1)*, 67-70, [doi:10.1029/1998GL900233](https://doi.org/10.1029/1998GL900233), 1999.
2615. Zhu, X., J.-H. Yee, D. F. Strobel, X.-L. Wang, and R. A. Greenwald, On the numerical modeling of middle atmosphere tides, *Q. J. R. Meteorol. Soc.*, *125*, 1825-1857, [doi:10.1002/qj.49712555717](https://doi.org/10.1002/qj.49712555717), 1999.
2616. Zhu, X., J.-H. Yee, S. A. Lloyd, and D. F. Strobel, Numerical modeling of chemical-dynamical coupling in the upper stratosphere and mesosphere, *J. Geophys. Res.*, *104 (D19)*, 23995-24012, [doi:10.1029/1999JD900476](https://doi.org/10.1029/1999JD900476), 1999.

1998

2617. Avakyan, S. V., M. L. Ivanova, and A. V. Savushkin, Modernization of the EUV spectrometer for the space patrol of solar ionizing radiation, In: *Remote Sensing* (pp. 465-470). Intl. Society for Optics and Photonics, 1998.
2618. Dewan, E. M., R. H. Picard, R. R. O'Neil, H. A. Gardiner, J. Gibson, J. D. Mill, E. Richards, M. Kendra, and W. O. Gallery, MSX satellite observations of thunderstorm-generated gravity waves in mid-wave infrared images of the upper stratosphere, *Geophys. Res. Lett.*, *25(7)*, [939-942](https://doi.org/10.1029/1998GL012557), 1998.
2619. Lafferty, W. J., A. M. Solodov, C. L. Lugez, and G. T. Fraser, Rotational line strengths and self-pressure-broadening coefficients for the 1.27- μm , a $^1\Delta_g - X^3\Sigma_g^-$, $v = 0-0$ band of O_2 , *Appl. Opt.*, *37*, 12, [doi:10.1364/AO.37.002264](https://doi.org/10.1364/AO.37.002264), 1998.
2620. López-Puertas, M., G. Zaragoza, M. Á. López-Valverde, and F. W. Taylor, Non local thermodynamic equilibrium (LTE) atmospheric limb emission at 4.6 μm : 1. An update of the CO_2 non-LTE radiative transfer model, *J. Geophys. Res. Atmos.*, *103(D7)*, 8499-8513, [doi:10.1029/98JD00209](https://doi.org/10.1029/98JD00209), 1998.
2621. Makhoulouf, U. B., R. H. Picard, J. R. Winick, and T. F. Tuan, A model for the response of atomic oxygen 557.7 nm and OH airglow to atmospheric gravity waves in a realistic atmosphere, *J. Geophys. Res.*, *103*, (D6), 6261-6269, [doi:10.1029/97JD03082](https://doi.org/10.1029/97JD03082), 1998.
2622. Mayr, H. G., J. G. Mengel, and K. L. Chan, Equatorial Oscillations Maintained by Gravity Waves as Described with the Doppler Spread Parameterization: I. Numerical Experiments, *J. Atmos. Solar-Terr. Phys.*, *60*, 181, 1998.
2623. Mayr, H. G., J. G. Mengel, C. A. Reddy, K. L. Chan, and H. S. Porter, Variability of the Equatorial Oscillations Induced by Gravity Wave Filtering, *Geophys. Res. Lett.*, *25*, 2629, 1998.
2624. Mayr, H. G., J. G. Mengel, K. L. Chan, and H. S. Porter, Seasonal Variations of the Diurnal Tide Induced by Gravity Wave Filtering, *Geophys. Res. Lett.*, *25*, 943, 1998.
2625. Mayr, H. G., R. E. Hartle, and K. L. Chan, Equatorial Oscillations Maintained by Gravity Waves as Described with the Doppler Spread Parameterization: II. Heuristic Analysis, *J. Atmos. Solar-Terr. Phys.*, *60*, 201, 1998.
2626. Mlynczak, M. G., and D. K. Zhou, Kinetic and spectroscopic requirements for the measurement of mesospheric ozone at 9.6 μm under non-LTE conditions, *Geophys. Res. Lett.*, *25(5)*, 639-642, [doi:10.1029/98GL00092](https://doi.org/10.1029/98GL00092), 1998.
2627. Mlynczak, M. G., D. K. Zhou, and S. M. Adler-Golden, Kinetic and spectroscopic requirements for the inference of chemical heating rates and atomic hydrogen densities from OH Meinel band measurements, *Geophys. Res. Lett.*, *25(5)*, 647-650, [doi:10.1029/98GL00325](https://doi.org/10.1029/98GL00325), 1998.

2628. Paxton, L. J., T. Spisz, G. Crowley, R. Gary, M. M. Hopkins, D. Morrison, M. Wiess, G. H. Fountain, L. Suther, C.-I. Meng, and D. J. Strickland, Interactive interpretation and display of far ultraviolet data, *Adv. Space Res.*, 22, 1577-1582, doi:[10.1016/S0273-1177\(99\)00116-7](https://doi.org/10.1016/S0273-1177(99)00116-7), 1998.
2629. Picard, R. H., R. R. O'Neil, H. A. Gardiner, J. Gibson, J. R. Winick, W. O. Gallery, A. T. Stair Jr., P. P. Wintersteiner, E. R. Hegblom, and E. Richards, Remote sensing of discrete stratospheric gravity-wave structure at 4.3- μm from the MSX satellite, *Geophys. Res. Lett.*, [25, 2809-2812](https://doi.org/10.1029/1998GL02809), 1998.
2630. Reddy, C. A., and H. G. Mayr, Storm-time Penetration to Low Latitudes of Magnetospheric-Ionospheric Convection and Convection-Driven Thermospheric Winds, *Geophys. Res. Lett.*, [25, 3075](https://doi.org/10.1029/1998GL025307), 1998.
2631. Stauder, J. L., and R. W. Esplin, "Stray light design and analysis of the Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) telescope", *Proc. SPIE 3437, Infrared Spaceborne Remote Sensing VI*, San Diego, doi:[10.1117/12.331334](https://doi.org/10.1117/12.331334), 1998.
2632. Swaminathan, P. K., D. F. Strobel, D. G. Kupperman, C. K. Kumar, L. Acton, R. DeMajistre, J.-H. Yee, L. J. Paxton, D. E. Anderson, D. J. Strickland, and J. W. Duff, Nitric oxide abundance in the mesosphere/lower thermosphere region: Roles of soft X rays, suprathermal $\text{N}^+(\text{S})$ atoms and vertical transport, *J. Geophys. Res.*, 103, 11579-11594, doi:[10.1029/97JA03249](https://doi.org/10.1029/97JA03249), 1998.
2633. Warren, H. P., J. T. Mariska, and J. L. Lean, A new reference spectrum for the EUV irradiance of the quiet Sun: 1. Emission measure formulation, *J. Geophys. Res. Space Physics*, 103(A6), 12077-12089, doi:[10.1029/98JA00810](https://doi.org/10.1029/98JA00810), 1998.
2634. Woods, T. N., G. J. Rottman, S. M. Bailey, S. C. Solomon, and J. Worden, Solar extreme ultraviolet irradiance measurements during solar cycle 22, *Sol. Phys.*, 177, 133-146, 1998.
2635. Zaragoza, G., M. López-Puertas, A. Lambert, J. J. Remedios, and F. W. Taylor, Non-local thermodynamic equilibrium in H_2O 6.9 μm emission as measured by the improved stratospheric and mesospheric sounder, *J. Geophys. Res. Atmos.*, 103, D23, doi:[10.1029/98JD02833](https://doi.org/10.1029/98JD02833), 1998.
2636. Zhou, D. K., M. G. Mlynczak, G. E. Bingham, J. O. Wise, and R. M. Nadile, CIRRIS-1A limb spectral measurements of mesospheric 9.6- μm airglow and ozone, *Geophys. Res. Lett.*, 25(5), 643-646, doi:[10.1029/98GL00236](https://doi.org/10.1029/98GL00236), 1998.

1997

2637. Goembel, L., J. P. Doering, D. Morrison, and L. J. Paxton, Atmospheric O/N₂ ratios from photoelectron spectra, *J. Geophys. Res. Space Physics*, 102, A4, 7411-7420, doi:[10.1029/96JA03948](https://doi.org/10.1029/96JA03948), 1997.
2638. Mayr, H. G., I. Harris, F. A. Herrero, and F. Varosi, Winds and Composition Changes in the Thermosphere Using the Transfer Function Model, *J. Atmos. Solar-Terr. Phys.*, 59, 691-709, doi:[10.1016/S1364-6826\(96\)00100-9](https://doi.org/10.1016/S1364-6826(96)00100-9), 1997.
2639. Mayr, H. G., J. G. Mengel, C. O. Hines, K. L. Chan, N. F. Arnold, C. A. Reddy, and N. S. Porter, The Gravity Wave Doppler Spread Theory Applied in a Numerical Spectral Model of the Middle Atmosphere 1: Model and Global Scale Seasonal Variations, *J. Geophys. Res.*, 102(D22), 26, 077-26,091, doi:[10.1029/96JD03213](https://doi.org/10.1029/96JD03213), 1997.
2640. Mayr, H. G., J. G. Mengel, C. O. Hines, K. L. Chan, N. F. Arnold, C. A. Reddy, and N. S. Porter, The Gravity Wave Doppler Spread Theory Applied in a Numerical Spectral Model of the Middle Atmosphere 2: Equatorial Oscillations, *J. Geophys. Res.*, [102, 26,093-26,105](https://doi.org/10.1029/1997GL026093), 1997.
2641. Mlynczak, M. G., Energetics of the mesosphere and lower thermosphere and the SABER Experiment, *Adv. Space Res.*, 20, 6, 1177-1183, doi:[10.1016/S0273-1177\(97\)00769-2](https://doi.org/10.1016/S0273-1177(97)00769-2), 1997.

2642. Picard, R. H., U. S. Inan, V. P. Pasko, J. R. Winick, and P. P. Wintersteiner, Infrared glow above thunderstorms?, *Geophys. Res. Lett.*, 24, 2635-2638, 1997.
2643. Rottman, G. J., Observations of the Sun at Ultraviolet Wavelengths: 1 to 400 nm, In: *Solar Analogs: Characteristics and Optimum Candidates*, J. C. Hall, Ed., Proc. Sec. Annual Lowell Observatory Fall Workshop, 28-34, 1997.
2644. Smith, A. K., Longitudinal variability of the mesopause SAO, *Geophys. Res. Lett.*, 24, 1991-1994, 1997.
2645. Smith, A. K., Stationary planetary waves in upper mesospheric winds, *J. Atmos. Sci.*, 54, 2129-2145, 1997.
2646. Zhu, X., P. K. Swaminathan, J.-H. Yee, D. F. Strobel, and D. Anderson, A globally balanced two-dimensional middle atmosphere model: Dynamical studies of mesopause meridional circulation and stratosphere-mesosphere exchange, *J. Geophys. Res.*, 102 (D11), 13095-13112, doi:10.1029/97JD00459, 1997.
2647. Zhu, X., Z. Shen, S. D. Eckermann, M. Bittner, I. Hirota, and J.-H. Yee, Gravity wave characteristics in the middle atmosphere derived from the Empirical Mode Decomposition method, *J. Geophys. Res.*, 102 (D14), 16545-16562, doi:10.1029/97JD01139, 1997.

1996

2648. Edwards, D. P., J. B. Kumer, M. López-Puertas, M. G. Mlynczak, A. Gopalan, J. C. Gille, and A. E. Roche, Non-local thermodynamic equilibrium limb radiance near 10 μm as measured by UARS CLAES, *J. Geophys. Res.*, 101(D21), 26577-26588, doi:10.1029/96JD02133, 1996.
2649. Mlynczak, M. G., and B. T. Marshall, A reexamination of the role of solar heating in the O₂ atmospheric and infrared atmospheric bands, *Geophys. Res. Lett.*, 23(6), 657-660, doi:10.1029/96GL00145, 1996.
2650. Mlynczak, M. G., Energetics of the Middle Atmosphere: Theory and Observation Requirements, *Adv. Space Res.*, 17(11), 117-126, doi:10.1016/0273-1177(95)00739-2, 1996.
2651. Shumway, A. L., D. F. Shepard, R. E. Clement, and P. McKenna, "Temperature effects on reflectance and emittance measurements of Martin Black and Enhanced Martin Black surfaces", *Proc. SPIE* 2864, Optical System Contamination V, and Stray Light and System Optimization, Denver, doi:10.1117/12.258330, 1996.

1995

2652. Mengel, J. G., H. G. Mayr, K. L. Chan, C. O. Hines, C. A. Reddy, N. F. Arnold, and H. S. Porter, Equatorial Oscillations in the Middle Atmosphere Generated by Small Scale Gravity Waves, *Geophys. Res. Lett.*, 22, 3027, doi:10.1029/95gl03059, 1995.
2653. Meriwether, J. W., and M. G. Mlynczak, Is chemical heating a major cause of the mesosphere inversion layer?, *J. Geophys. Res.*, 100(D1), 1379-1387, doi:10.1029/94JD01736, 1995.
2654. Mlynczak, M. G., and D. J. Nesbitt, The Einstein coefficient for spontaneous emission of the O₂(a¹ Δ_g) state, *Geophys. Res. Lett.*, 22(11), 1381-1384, doi:10.1029/95GL01320, 1995.
2655. Mlynczak, M. G., and D. S. Olander, On the utility of the molecular oxygen dayglow emissions as proxies for middle atmospheric ozone, *Geophys. Res. Lett.*, 22(11), 1377-1380, doi:10.1029/95GL01321, 1995.
2656. Strickland, D. J., J. S. Evans, and L. J. Paxton, Satellite remote sensing of thermospheric O/N₂ and solar EUV 1. Theory, *J. Geophys. Res.*, 100, 12217-12226, doi:10.1029/95JA00574, 1995.

1994

2657. Chan, K. L., H. G. Mayr, J. G. Mengel, and I. Harris, A 'Stratified' Spectral Model for Stable and Convective Atmospheres, *J. Comp. Phys.*, 113, 165-176, 1994.

2658. Chan, K. L., H. G. Mayr, J. G. Mengel, and I. Harris, An Efficient Spectral Model of the Middle and Upper Atmosphere, *J. Atmos. Solar-Terr. Phys.*, 56, 1399, 1994.
2659. Edwards, D. P., M. López-Puertas, and M. G. Mlynczak, Non-local thermodynamic equilibrium limb radiance from O₃ and CO₂ in the 9-11 μm spectral region, *J. Quant. Spectrosc. Radiat. Transf.*, 52, 3-4, 389-407, 1994.
2660. Esplin, R. W., J. C. Batty, M. A. Jensen, D. McLain, J. L. Stauder, S. M. Jensen, C. Stump, D. M. Robinson, and J. Dodgen, "Sounding of the atmosphere using broadband emission radiometer (SABER): instrument overview", *Proc. SPIE 2268, Infrared Spaceborne Remote Sensing II*, San Diego, doi:[10.1117/12.185831](https://doi.org/10.1117/12.185831), 1994.
2661. Fuller-Rowell, T. J., M. V. Codrescu, R. J. Moffett, and S. Quegan, Response of the thermosphere and ionosphere to geomagnetic storms, *J. Geophys. Res. Space Physics*, 99(A3), 3893-3914, doi:[10.1029/93JA02015](https://doi.org/10.1029/93JA02015), 1994.
2662. Mlynczak, M. G., D. S. Olander, and M. López-Puertas, Rapid computation of spectrally integrated non-local thermodynamic equilibrium limb emission, *J. Geophys. Res.*, 99(D12), 25761-25772, doi:[10.1029/94JD02397](https://doi.org/10.1029/94JD02397), 1994.
2663. Mlynczak, M. G., D. S. Zaras, and M. López-Puertas, Rapid computation of spectrally integrated non-LTE limb emission, *J. Geophys. Res.*, 99(D12), 25761-25772, 1994.
2664. Strickland, D. J., R. J. Cox, R. P. Barnes, L. J. Paxton, R. R. Meier, and S. Thonnard, Model for generating global images of emission from the thermosphere, *Appl. Opt.*, 33, 3578-3594, 1994.
2665. Marshall, B. T., L. L. Gordley, and D. A. Chu, BANDPAK: Algorithms for modeling broadband transmission and radiance, *J. Quant. Spectrosc. Radiat. Transf.*, 52, 5, 581-599, doi:[10.1016/0022-4073\(94\)90026-4](https://doi.org/10.1016/0022-4073(94)90026-4), 1994.
2666. Woods, T. N., G. J. Rottman, S. Bailey, and S. C. Solomon, Vacuum-ultraviolet instrumentation for solar irradiance and thermospheric airglow, *Opt. Eng.*, 33, 438-444, doi:[10.1117/12.155911](https://doi.org/10.1117/12.155911), 1994.

1993

2667. Mlynczak, M. G., An evaluation of the rate of absorption of solar radiation in the O₂(X³Σ_g → b¹Σ_g) transition, *Geophys. Res. Lett.*, 20(14), 1439-1442, doi:[10.1029/93GL01457](https://doi.org/10.1029/93GL01457), 1993.
2668. Mlynczak, M. G., and S. C. Solomon, A detailed evaluation of the heating efficiency in the middle atmosphere, *J. Geophys. Res.*, 98, 10517-10541, doi:[10.1029/93JD00315](https://doi.org/10.1029/93JD00315), 1993.
2669. Mlynczak, M. G., S. C. Solomon, and D. S. Zaras, An updated model for O₂(a¹Δ_g) concentrations in the mesosphere and lower thermosphere and implications for remote sensing of ozone at 1.27 μm, *J. Geophys. Res.*, 98(D10), 18639-18648, doi:[10.1029/93JD01478](https://doi.org/10.1029/93JD01478), 1993.

1991

2670. Mlynczak, M. G., and S. C. Solomon, Middle atmosphere heating by exothermic chemical reactions involving odd-hydrogen species, *Geophys. Res. Lett.*, 18(1), 37-40, doi:[10.1029/90GL02672](https://doi.org/10.1029/90GL02672), 1991.
2671. Mlynczak, M. G., and S. C. Solomon, On the efficiency of solar heating in the middle atmosphere, *Geophys. Res. Lett.*, 18(7), 1201-1204, doi:[10.1029/91GL01525](https://doi.org/10.1029/91GL01525), 1991.
2672. Mlynczak, M. G., and S. C. Solomon, Reply to McDade and Llewellyn, *Geophys. Res. Lett.*, 18(9), 1793-1794, doi:[10.1029/91GL02139](https://doi.org/10.1029/91GL02139), 1991.
2673. Mlynczak, M. G., and S. R. Drayson, Rapid computation of the radiative absorption rate in the v₃ mode of Mesospheric and Lower Thermospheric Ozone, *J. Quant. Spectrosc. Radiat. Transf.*, 46(5), 463-471, doi:[10.1016/0022-4073\(91\)90050-Z](https://doi.org/10.1016/0022-4073(91)90050-Z), 1991.

2674. Mlynczak, M. G., Nonlocal thermodynamic equilibrium processes in ozone: Implications for the energy budget of the mesosphere and lower thermosphere, *J. Geophys. Res.*, 96(D9), 17217-17228, [doi:10.1029/91JD01833](https://doi.org/10.1029/91JD01833), 1991.

1990

2675. Mlynczak, M. G., and S. R. Drayson, Calculation of infrared limb emission by ozone in the terrestrial middle atmosphere 1, Source functions, *J. Geophys. Res.*, 95(D10), 16497-16511, doi:[10.1029/JD095iD10p16497](https://doi.org/10.1029/JD095iD10p16497), 1990.
2676. Mlynczak, M. G., and S. R. Drayson, Calculation of infrared limb emission by ozone in the terrestrial middle atmosphere 2, Emission calculations, *J. Geophys. Res.*, 95(D10), 16513-16521, doi:[10.1029/JD095iD10p16513](https://doi.org/10.1029/JD095iD10p16513), 1990.
2677. Woods, T. N., and G. J. Rottman, Solar EUV irradiance derived from a sounding rocket experiment on 10 November 1988, *J. Geophys. Res.*, [95, 6227-6236](https://doi.org/10.1029/95JD06227), 1990.

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