

# TIMED Conference Presentations

1915 total

## 2019

1. Almowafy, M., G. Baumgarten, K. Baumgarten, M. Ern, M. Gerding, F.-J. Lübken, and I. Strelnikova, Seasonal cycle of Gravity Wave Potential Energy Density from Lidar and satellite observations at 54°N and 69°N, *EGU General Assembly*, EGU2019-9222, Vienna, April 7–12, 2019.
2. Almowafy, Marwa, G. Baumgarten, K. Baumgarten, M. Ern, M. Gerding, F.-J. Lübken, and I. Strelnikova, Seasonal cycle of Gravity Wave Potential Energy Density from Lidar and satellite observations at 54°N and 69°N, *EGU General Assembly*, EGU2019-9222, Vienna, April 1-12, 2019.
3. Ammosov, P., and G. Gavrilyeva, Reaction of the mesosphere over Central Yakutia during the geomagnetic storm of October 29-31, 2003 using ground-based and satellite observations, *XXV International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics*, Novosibirsk, Russian Federation, July 1-5, 2019.
4. Ammosov, P., and G. Gavrilyeva, State of the upper mesosphere during the geomagnetic storm of October 29-31, 2003 above Maimaga using ground-based and satellite observations, *25<sup>th</sup> International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics*, 112089E, Novosibirsk, Russian Federation, December 18, 2019.
5. Astafyeva, E., and M. S. Bagiya, Game of drivers and a surprise ionospheric storm, *AGU Fall Meeting*, SA51B-3149, San Francisco, December 9-13, 2019.
6. Burns, A. G., X. Cai, W. Wang, L. Qian, Y. Zhang, R. Eastes, and W. E. McClintock, Composition Changes Around the Equinoxes, *AGU Fall Meeting*, SA13B-3260, San Francisco, December 9-13, 2019.
7. Garcia, R. R., J. Yue, and J. M. Russell III, Middle atmosphere temperature trends in the 20<sup>th</sup> and 21<sup>st</sup> centuries simulated with the Whole Atmosphere Community Climate Model (WACCM), *AGU Fall Meeting*, SA23A-01, San Francisco, December 9-13, 2019
8. Gasperini, F., Preliminary Evidence of MJO Effects on Ultra-Fast Tropospheric Waves in the Thermosphere, *AGU Fall Meeting*, SA23A-02, San Francisco, December 9-13, 2019.
9. Guerrero, J. A., C. J. Heale, P. Inchin, J. B. Snively and M. D. Zettergren, Line-of-sight effects in convectively generated gravity waves over midwestern USA as observed in the stratosphere, mesosphere and thermosphere-ionosphere, *AGU Fall Meeting*, SA23B-3130, San Francisco, December 9-13, 2019.
10. Guo, P.-f., W.-h. Fei, C.-y. Xiao, Study on the Effects of Atmospheric Parameters on Space Vehicle Design, *Materials Science and Engineering Conference Series*, Shanghai, August 1-3, 2019.
11. Herschbach, D. M., and Y. Zhang, Case Study of Dawn-Dusk Asymmetry in Polar Rain Aurora, *AGU Fall Meeting*, SM11B-3281, San Francisco, December 9-13, 2019.
12. Hirooka, T., and K. Iwao, Relationship Between Traveling and Stationary Planetary Waves in the Northern Hemisphere Winter Middle Atmosphere, *AGU Fall Meeting*, A51P-2636, San Francisco, December 9-13, 2019.
13. Huang, Y., H. Li, C. Li, S. Zhang, and K. Huang, 6.5DWs in different QBO phases: possible modulation mechanisms of QBO on PWs, *EGU General Assembly*, EGU2019-4589, Vienna, April 7-12, 2019.
14. Hunt, L. A., M. G. Mlynczak, and SABER Science Team, Infrared Radiation in the Thermosphere at the End of 2019, *AGU Fall Meeting*, SA23A-07, San Francisco, December 9-13, 2019.

15. Joshi, P., and L. Waldrop, Quantification of the vertical limiting flux of hydrogen at Earth using TIMED/SABER, *AGU Fall Meeting*, SA21B-3096, San Francisco, December 9-13, 2019.
16. Knoer, V., E. Thiemann, F. Epavier, P. C. Chamberlin, and T. N. Woods, Combining Broadband Irradiance Measurements and Plasma Temperature Approximations to Generate Solar EUV Spectra, *AGU Fall Meeting*, SH41D-3338, San Francisco, December 9-13, 2019.
17. Koltovskoi, I. I., S. V. Nikolashkin, and S. V. Titov, Investigation of the IGW parameters in the middle atmosphere by optical methods, *XXV International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics*, Novosibirsk, Russian Federation, July 1-5, 2019.
18. Küchelbacher, L., C. Schmidt, S. Wüst, R. Koppmann, M. G. Mlynczak, J.-H. Yee, R. Weller, and M. Bittner, Study of Long-Term changes of planetary wave activity in the middle atmosphere based on ERA-Interim, airglow, and SABER data, *EGU General Assembly*, EGU2019-16465, Vienna, April 7–12, 2019.
19. Küchelbacher, L., H. Hoffmann, M. G. Mlynczak, C. Schmidt, S. Wüst, J.-H. Yee, and M. Bittner, Planetary Waves: Trends, Variability and Impacts on Ozone Streamer Events, *27th IUGG General Assembly*, IUGG19-3253, Montreal, July 8-18, 2019.
20. Kumari, K., and J. Oberheide, Nonmigrating Tidal Variability from SABER on Multiple Planetary Wave Timescales in the Mesosphere and Lower Thermosphere, *AGU Fall Meeting*, SA43B-3206, San Francisco, December 9-13, 2019.
21. Liang, J., E. Donovan, Y. Zou, D. M. Gillies, Y. Nishimura, E. Spanswick, and M. G. Mlynczak, Neutral dynamics associated with STEVE: multi-instrumental observations, *AGU Fall Meeting*, SA11A-08, San Francisco, December 9-13, 2019.
22. Liu, J., W. Wang, A. G. Burns, and Y. Zhang, MF By Effects on the high-latitude Ionosphere and Thermosphere, *AGU Fall Meeting*, SA24A-08, San Francisco, December 9-13, 2019.
23. Malhotra, G., A. J. Ridley, D. R. Marsh, C. Wu, and L. J. Paxton, Understanding the Effects of Earth's Lower Atmosphere on Upper Ionospheric-Thermospheric Semi Annual Oscillation - Using GITM, MSIS and WACCM-X, *AGU Fall Meeting*, INVITED, SA23A-05, San Francisco, December 9-13, 2019.
24. Medvedeva, I., and A. Semenov, Variability of the mesopause temperature and concentrations of reactive components of the mid-latitude atmosphere during sudden stratospheric warmings, *Turbulence, Atmosphere and Climate Dynamics*, Moscow, May 16-18, 2019.
25. Mitchell, E. J., and K. Liou, North-south Asymmetry in Dayside Auroras Associated With Local Sunlight Conditions, *AGU Fall Meeting*, SM11B-3272, San Francisco, December 9-13, 2019.
26. Mlynczak, M. G., and et al., Continuity of Earth Radiation Budget Measurements from Space, SI-Traceable, *Space-based Climate Observing Systems Workshop*, INVITED, London, September 9-11, 2019.
27. Mlynczak, M. G., and L. Hunt, Infrared radiation in the thermosphere from 1947 to 2019, *Space Climate 7 Symposium*, INVITED, Orford, Canada, July 8-11, 2019.
28. Mlynczak, M. G., and L. Hunt, Infrared radiation in the thermosphere from 1947 to 2019, *The Plasma Physics of the Magnetosphere Conference*, INVITED, Bra-Pollenzo, Italy, June 2-7, 2019.
29. Nischal, N., J. Oberheide, M. G. Mlynczak, D. R. Marsh, and Q. Gan, Nonmigrating Tides in the Thermosphere from SABER Infrared Cooling Rates, *AGU Fall Meeting*, SA11A-03, San Francisco, December 9-13, 2019.
30. Pal, S., A. Sen, S. K. Mondal, Y. Hobara, and S. K. Midya, High latitude and mid-latitude ionospheric disturbances associated with some major stratospheric warming events in the Northern hemisphere, *EGU General Assembly*, EGU2019-1624, Vienna, April 7-12, 2019.
31. Paxton, L. J., DMSP/SSUSI Team, and TIMED/GUVI Team, DMSP/SSUSI and TIMED/GUVI: Contributions to GOLD and ICON, Now and by Setting Context, *AGU Fall Meeting*, SA12A-03, San Francisco, December 9-13, 2019.

32. Peng-fei, G., W.-h. Fei, and C.-y. Xiao, Study on the Effects of Atmospheric Parameters on Space Vehicle Design, *4<sup>th</sup> International Seminar on Advances in Materials Science and Engineering*, Shanghai, August 16-18, 2019.
33. Qin, J., and B. J. Harding, First radiative transfer analysis of the OI 130.4-nm emission observed by NASA's TIMED mission, *AGU Fall Meeting*, SA43B-3212, San Francisco, December 9-13, 2019.
34. Rajesh, P. K., C. C. H. Lin, C.-Y. Lin, J.-T. Lin, T. Matsuo, and T. J. Y. Liu, Global Ionospheric Specification: Ionospheric space weather data product of FORMOSAT-7/COSMIC-2, *AGU Fall Meeting*, SA43B-3197, San Francisco, December 9-13, 2019.
35. Salinas, C. C. J., L. C. Chang, J. Yue, L. Qian, J. M. Russell III, and Martin G Mlynczak, Quasi-biennial Oscillation and Solar Cycle Response of SABER H<sub>2</sub>O in the Mesosphere, *AGU Fall Meeting*, SA23A-03, San Francisco, December 9-13, 2019.
36. Salinas, C. C. J., L. C. Chang, M.-C. Liang, J. Yue, L. Qian, J. M. Russell III, and M. G. Mlynczak, Interannual Variations of SABER CO<sub>2</sub>-derived Global-mean Eddy Diffusion Coefficients in the Mesosphere and Lower Thermosphere, *AGU Fall Meeting*, U21B-15, San Francisco, December 9-13, 2019.
37. Sen, A., S. Pal, S. K. Mondal, and Y. Hobara, Mid-latitude and high latitude ionospheric disturbances during Sudden Stratospheric Warming events observed by VLF/LF signals, *2019 URSI Asia Pacific Radio Science Conference*, PO-E-15, New Delhi, March 9-15, 2019.
38. Sharma, S., N. Patel, N. Ojha, V. Joshi, and S. Saha, Satellite and Modelling based Investigations of the Middle Atmospheric Temperature Climatology over the Equatorial Regions, *2019 URSI Asia-Pacific Radio Science Conference (AP-RASC)*, Tu-FO9-6, New Delhi, March 9-15, 2019.
39. Shi, Q., and et al., Solar wind entry into the lobe and the related Polar Cap Auroral Arc Growing, *AGU Fall Meeting*, SM51C-3211, San Francisco, December 9-13, 2019.
40. Singh, D., and H. Liu, Interannual and long-term variability of atmospheric tides in GAIA model and its comparison with ground and space based observations, *AGU Fall Meeting*, SA42A-08, San Francisco, December 9-13, 2019.
41. Siskind, D. E., F. Sassi, J. P. McCormack, M. E. Hervig, and V. L. Harvey, Modeling the descent of mesospheric air following the 2013 elevated stratopause event, *AGU Fall Meeting*, SA21B-3080, San Francisco, December 9-13, 2019.
42. Sivseva, V. I., P. P. Ammosov, G. A. Gavrilyeva, I. I. Koltovskoi, and A. M. Ammosova, Comparison of internal gravity waves variations in the mesopause region according to observations at Maimaga station with EOS MLS (Aura) temperature data, *XXV International Symposium, Atmospheric and Ocean Optics, Atmospheric Physics*, Novosibirsk, Russian Federation, December 18, 2019.
43. Snow, M. A., S. Beland, E. C. Richard, T. N. Woods, F. Epavier, and P. Chamberlin, Solar Spectral Irradiance during WHPI and comparison to WHI and WSM, *AGU Fall Meeting*, SH43A-01, San Francisco, December 9-13, 2019.
44. Swenson, G. R., Atomic oxygen variability in the MLT through production (solar cycle and photo-dissociation), loss (k<sub>zz</sub> and recombination), and implications for the IT, *AGU Fall Meeting*, SA43B-3202, San Francisco, December 9-13, 2019.
45. Tamburri, A., L. P. Goncharenko, W. E. Rideout, and A. Coster, A New Empirical Model for Ionospheric Total Electron Content Cole, *AGU Fall Meeting*, SA12A-04, San Francisco, December 9-13, 2019.
46. Tian, Y., and D. Lyu, Lower, Middle and Upper Atmosphere Dynamics Based on Beijing MST Radar, *27th IUGG General Assembly*, IUGG19-2415, Montreal, July 8-18, 2019.

47. Ugolnikov, O. S., and I. A. Maslov, Clouds and aerosol in stratosphere and mesosphere: Polarization analysis and trends in the beginning of 21st century, *42nd Annual Apatity seminar, Physics of Auroral Phenomena*, Apatity, Russia, March 11-15, 2019.
48. Vitharana, A., J. Du, X. Zhu, J. Oberheide, and W. E. Ward, Possible Physical Mechanisms for Quasi 23-day Oscillation in DW1 Tidal Variability in the MLT Region, *AGU Fall Meeting*, SA21B-3088, San Francisco, December 9-13, 2019.
49. Wang, W., D. Lin, L. Qian, A. G. Burns, and J. Yue, The driving processes for the mesosphere and lower thermosphere (MLT) responses to magnetic storms, *AGU Fall Meeting*, SA33A-12, San Francisco, December 9-13, 2019.
50. Watson, C., D. Themens, and P. T. Jayachandran, Development of a GUVI/SSUSI-based model for E-region electron density enhancements at northern auroral latitudes, *AGU Fall Meeting*, SA51C-3179, San Francisco, December 9-13, 2019.
51. Wautelet, G., B. A. Hubert, and J.-C. M. C. Gerard, Detection of medium-scale traveling ionospheric disturbances with TIMED/GUVI limb observations at mid and low latitude regions, *AGU Fall Meeting*, SA51B-3135, San Francisco, December 9-13, 2019.
52. Weimer, D. R., P. M. Mehta, W. K. Tobiska, M. G. Mlynczak, and L. A. Hunt, An Exospheric Temperature Model Using a Polyhedral Grid, *AGU Fall Meeting*, SA21B-3103, San Francisco, December 9-13, 2019.
53. Wing, R., A. Hauchecorne, P. Keckhut, S. Godin-Beekmann, S. Khaykin, and E. M. McCullough, Assessment of 16 years of satellite temperature profiles from SABER and MLS using lidar temperature profiles from OHP, *EGU General Assembly*, EGU2019-11081, Vienna, April 7–12, 2019.
54. Winick, J. R., P. P. Wintersteiner, R. H. Picard, and M. G. Mlynczak, Trends in Seventeen Years of TIMED/SABER OH Measurements, *AGU Fall Meeting*, SA21B-3091, San Francisco, December 9-13, 2019.
55. Wright, C., Do the Gravity Waves Generated by Tropical Cyclones, Hurricanes and Typhoons Matter?, *AGU Fall Meeting*, SA23B-3104, San Francisco, December 9-13, 2019.
56. 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, *EGU General Assembly*, EGU2019-17071, Vienna, April 7–12, 2019.
57. 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, *EGU General Assembly*, EGU2019-17071, Vienna, April 7–12, 2019.
58. Xue, X., Long term trend of gravity wave momentum fluxes in the mesosphere and lower thermosphere over the polar region, *AGU Fall Meeting*, SA23B-3107, San Francisco, December 9-13, 2019.
59. Yizengaw, E., and K. M. Groves, Longitudinal Features of Low-Latitude Scintillation and Forcing from Lower Thermosphere, *AGU Fall Meeting*, SA41A-05, San Francisco, December 9-13, 2019.
60. Yu, T., Z. Ren, H. Le, and W. Wan, Seasonal Variations of O/N<sub>2</sub> Volume Density Ratio Retrieved from GUVI Dayside Limb Measurement, *AGU Fall Meeting*, SA21B-3092, San Francisco, December 9-13, 2019.
61. Yudin, V. A., T. J. Fuller-Rowell, S. I. Karol, and S. C. Solomon, Developing the Near-Real Time and Retrospective Data Analysis of Neutral Dynamics and Composition in the ITM, *AGU Fall Meeting*, SA43B-3203, San Francisco, December 9-13, 2019.

62. Yue, J., R. S. Lieberman, W. Wang, and Y. Jian, Planetary wave-like oscillations in thermospheric composition, *AGU Fall Meeting*, SA21B-3087, San Francisco, December 9-13, 2019.
63. Zawada, D., A. E. Bourassa, and D. A. Degenstein, Analysis of Stratospheric Temperatures Retrieved from OSIRIS from 2002-2019, *AGU Fall Meeting*, A51R-2649, San Francisco, December 9-13, 2019.
64. Zesta, E., D. M. Oliveira, Y. Zhang, E. C. M. Dawkins, and P. Panka, Ionosphere-thermosphere system heating and cooling during storms, *AGU Fall Meeting*, SA51A-09, San Francisco, December 9-13, 2019.
65. Zhu, Y., and M. Kaufmann, Atomic oxygen derived from SCIAMACHY OH(9-6) nightglow measurements, *EGU General Assembly*, EGU2019-15251, Vienna, April 7–12, 2019.
66. Zhu, Y., and M. Kaufmann, Atomic oxygen derived from SCIAMACHY OH(9-6) nightglow measurements, *EGU General Assembly*, EGU2019-15251, Vienna, April 7–12, 2019.

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67. Ammosov, P. P., G. A. Gavriilyeva, 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, *1<sup>st</sup> International Conference on Space Weather and Satellite Application (ICeSSAT 2018)*, Shah Alam, Selangor, Malaysia, August 7-9, 2018.
68. Anderson, L., C. Swenson, R. Davidson, A. J. Mastropietro, E. Maghsoudi, S. Luong, S. Cappucci, and I. Mckinley, CubeSat active thermal management in support of cooled electro-optical instrumentation for advanced atmospheric observing missions, *SPIE Optical Engineering + Applications: CubeSats and NanoSats for Remote Sensing II*, 10769-6, San Diego, August 19-23, 2018.
69. Bag, T., Inter-Hemispheric Asymmetry in Nitric Oxide 5.3  $\mu\text{m}$  Radiative Cooling During Geomagnetic Storm Events, *EGU General Assembly*, EGU2018-40, Vienna, April 8-13, 2018.
70. Bag, T., Seasonal variation and long-term trend of nitric oxide radiative emission over Indian longitude sector: TIMED-SABER observation, *42nd COSPAR Scientific Assembly*, C1.1-0057-18, Pasadena, California, July 14-22, 2018.
71. Bailey, S. M., C. E. Randall, M. E. Hervig, D. E. Siskind, B. Thurairajah, and J. M. Russell III, The Roles of Greenhouse Gas, Solar Cycle Forcing, and Atmospheric Coupling on the Interannual Variability of Temperature near the Mesopause Region, *AGU Fall Meeting*, SA31C-3459, Washington, DC, December 10-14, 2018.
72. Bekker S. Z., A. N. Lyakhov, S. I. Kozlov, and I. A. Ryakhovskiy, Verification of the deterministic-probabilistic model of the D–region of the ionosphere by the radio physical data obtained in the geophysical observatory Mikhnevo, *XXIV International Symposium, Atmospheric and Ocean Optics, Atmospheric Physics*, Tomsk, Russian Federation, July 2-5, 2018.
73. Bekker, S. Z., A. N. Lyakhov, S. I. Kozlov, and I. A. Ryakhovsky, Verification of the deterministic-probabilistic model of the D–region of the ionosphere by the radio physical data obtained in the geophysical observatory Mikhnevo, *24th International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics*, 22, Tomsk, Russia, July 2-5, 2018.
74. Bingxuan, L., B. Han, T.-. Fang, and A. Chandran, First results from VELOX-CI GPS radio occultation measurements, *42nd COSPAR Scientific Assembly*, C2.4-0013-18, Pasadena, California, July 14-22, 2018.
75. Chang, L. C., C. C. J. Salinas, C. C. H. Lin, and Y.-C. Chiu, On the Possibility of Tidal Forcing of the Zonal Variation of Solstice Equatorial Spread F, *AGU Fall Meeting*, SA53A-03, Washington, DC, December 10-14, 2018.

76. Chang, Y.-S., C.-H. Chen, C. C. H. Lin, H.-H. Chu, and T. Matsuo, Reconstruction the Ionospheric Responses to the October-November 2003 Halloween Super Storm: A Data Assimilation Approach, *AGU Fall Meeting*, SA33B-3473, Washington, DC, December 10-14, 2018.
77. Chen, Z., Estimation of the QBO forcing of equatorial waves using the TIMED/SABER data set, *42nd COSPAR Scientific Assembly*, C2.2-0035-18, Pasadena, California, July 14-22, 2018.
78. Chen, Z., Y. Deng, J.-S. Wang, C. Sheng, M. Jin, Y. Zhang, L. J. Paxton, X. Deng, and C.-M. Huang, Development of a new aurora model for the small- and meso-scale structures through deep-learning methods and their influence on the upper atmosphere, *AGU Fall Meeting*, SA32A-07, Washington, DC, December 10-14, 2018.
79. Curtis, A, J. L. Price, and V. B. Wickwar, Comparison of Mesospheric Densities and Temperatures from the SABER Instrument on NASA's TIMED Satellite and USU's ALO Rayleigh-Scatter Lidar, *2018 Annual Meeting of the APS Four Corners Section*, G01.00017, Salt Lake City, Utah, October 12-13, 2018.
80. Eparvier, F. G., Recent advances and outstanding issues in solar EUV irradiance, *42nd COSPAR Scientific Assembly*, C2.3-0011-18, Pasadena, California, July 14-22, 2018.
81. Ern, M., Q. T. Trinh, P. Preusse, and M. Riese, GRACILE: A comprehensive climatology of atmospheric gravity wave parameters based on satellite limb soundings, Vol. 20, *EGU General Assembly*, EGU2018-6962, Vienna, April 8-13, 2018
82. Fang, T.-W., T. Fuller-Rowell, T. Matsuo, V. Yudin, and R. Viereck, Quantifying the sources of ionosphere day-to-day variability, *42nd COSPAR Scientific Assembly*, C1.1-0059-18, Pasadena, California, July 14-22, 2018.
83. Fedrizzi, M., Assessing Nitric Oxide Cooling in CTIPe model using TIMED/SABER Observations, *CEDAR Workshop*, COUP-03, Santa Fe, NM, June 25-29, 2018.
84. France, J. A., and R. S. Lieberman, The role of inertial instability and the quasi 2-day wave in coupling wintertime planetary waves with the polar summer mesopause, *AGU Fall Meeting*, SA42A-04, Washington, DC, December 10-14, 2018.
85. France, J., and R. S. Lieberman, The role of inertial instability and the quasi 2-day wave in coupling wintertime planetary waves with the polar summer mesopause, *42nd COSPAR Scientific Assembly*, C2.1-0003-18, Pasadena, California, July 14-22, 2018.
86. Gan, Q., J. Oberheide, and N. M. Pedatell, Revisiting the Quasi 6-day Wave Dynamics in the Mesosphere and Lower Thermosphere by using WACCM+DART Data Assimilation System, *AGU Fall Meeting*, SA33B-3482, Washington, DC, December 10-14, 2018.
87. Gasperini, F., and H. Liu, A whole-atmospheric perspective on connections between intra-seasonal variations in the troposphere and thermosphere, *AGU Fall Meeting*, SA51B-2731, Washington, DC, December 10-14, 2018.
88. Ghosh, P., Vertical coupling from the lower atmosphere to the ionosphere: Observations inferred from Indian MST radar, GPS radiosonde, Ionosonde and SABER/TIMED instrument o, *CEDAR Workshop*, COUP-04, Santa Fe, NM, June 25-29, 2018.
89. Gordley, L., D. Fritts, J. Fisher, B. Marshall, CUAD: Constellation for Upper Atmosphere Dynamics, *42nd COSPAR Scientific Assembly*, INVITED, A1.1-0042-18, Pasadena, California, July 14-22, 2018.
90. Hao, Y., Q. Li, D. Zhang, and Z. Xiao, Nighttime enhancement of midlatitude ionosphere and its connection to the plasmasphere, *42nd COSPAR Scientific Assembly*, C1.1-0107-18, Pasadena, California, July 14-22, 2018.
91. Hervig, M., D. Siskind, S. Bailey, J. Lumpe, and P. Rong, The solar cycle response of the polar mesosphere, a long term perspective from multiple data sets, *42nd COSPAR Scientific Assembly*, C2.1-0014-18, Pasadena, California, July 14-22, 2018.

92. Huang, T.-Y., and M. Vanyo, Trends in SABER Kinetic Temperatures and Groundbased Airglow Temperature Measurements in Comparison to Model Simulations, *AGU Fall Meeting*, SA43D-3531, Washington, DC, December 10-14, 2018.
93. Hunt, L. A., M. G. Mlynczak, B. T. Marshall, and SABER Science Team, Infrared radiation in the thermosphere near the end of solar cycle 24, *AGU Fall Meeting*, SA31C-3453, Washington, DC, December 10-14, 2018.
94. Joshi, P., and L. Waldrop, Parametric estimation of neutral hydrogen density under charge exchange and quantification of its effect on plasmasphere-ionosphere coupling, *AGU Fall Meeting*, SA21A-3160, Washington, DC, December 10-14, 2018.
95. Kan, V., and V. F. Sofieva, Anisotropy of stratospheric irregularities inferred from stellar scintillation measurements by GOMOS/ENVISAT, IOP Conference Series: Earth and Environmental Science, Moscow, May 16-18, 2018.
96. Karanam, K. K., Long-term observations of mesosphere lower thermosphere dynamics over the low and equatorial latitudes, *42nd COSPAR Scientific Assembly*, C2.1-0017-18, Pasadena, California, July 14-22, 2018.
97. Koltovskoi, I. I., P. P. Ammosov, G. A. Gavriilyeva, S. G. Parnikov, IGW registration at two altitude levels on all sky cameras, *XXIV International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics*, Tomsk, Russian Federation, July 2-5, 2018.
98. Krishna, M.V. S., and G. Bharti, Variation of radiative cooling and nitric oxide abundance during intense geomagnetic storms and observed by TIME SABER and GUVI, *42nd COSPAR Scientific Assembly*, C1.3-0052-18, Pasadena, California, July 14-22, 2018.
99. Kumari, K., and J. Oberheide, Connecting Weather and Space Weather: An Information Theory Based Approach to Diagnose Atmospheric Tidal Variability Using Satellite Data, *AGU Fall Meeting*, U14B-17, Washington, DC, December 10-14, 2018.
100. Kumari, K., and J. Oberheide, Short-term Tidal Variability From SABER as a Function of Geophysical Conditions Using Bayesian Statistics and Information Theory, *AGU Fall Meeting*, SA51B-2734, Washington, DC, December 10-14, 2018.
101. Kumari, K., Clemson University, Short-term Tidal Variability From SABER Related to the Quasi-Biennial Oscillation From Information Theory and Bayesian Statistics, *CEDAR Workshop*, MLTT-03, Santa Fe, NM, June 25-29, 2018.
102. Lastovicka, J., Data problems in deriving long-term trends in the upper atmosphere, *AGU Fall Meeting*, SA33B-3477, Washington, DC, December 10-14, 2018.
103. Lewis, M., J. Juergens, E. Aretskin-Hariton, and R. Woodruff, Image guider subsystem analysis for the GHAPS project, *SPIE Astronomical Telescopes + Instrumentation*, Austin, Texas, June 10-14, 2018.
104. Li, Q., J. Xu, J. Yue, X. Liu, and W. Yuan, Evolutions of a Mesospheric Bore in a Duct Observed by Ground-Based Double Layer Imagers and Satellite Observations Over Tibetan Plateau Region, *AGU Fall Meeting*, SA43B-3517, Washington, DC, December 10-14, 2018.
105. Li, X., W. Wan, and Z. Ren, The Variability of SE2 Tide Extracted from TIMED/SABER Observations, *AOGS 15th Annual Meeting*, ST04-A001, Honolulu, June 3-8, 2018.
106. Li, Z., D. Knipp, W. Wang, and C. Sheng, A Comparison Study of NO Cooling Between TIMED/SABER Data and TIEGCM Outputs, *AOGS 15th Annual Meeting*, ST17-A023, Honolulu, June 3-8, 2018.
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