

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

## References

- [1] Adhikari, B., S. Dahal, N. Sapkota, P. Baruwal, B. Bhattarai, K. Khanal, and N. P. Chapagain (2018), Field-Aligned Current and Polar Cap Potential and Geomagnetic Disturbances: A Review of Cross-Correlation Analysis, *Earth and Space Science*, **5**, 440–455, [10.1029/2018EA000392](https://doi.org/10.1029/2018EA000392).
- [2] Afanasiev, A., A. Aran, R. Vainio, A. Rouillard, P. Zucca, D. Lario, S. Barcewicz, R. Siipola, J. Pomoell, B. Sanahuja, and O. E. Malandraki (2018), Modelling of Shock-Accelerated Gamma-Ray Events, in *Solar Particle Radiation Storms Forecasting and Analysis, Astrophysics and Space Science Library*, vol. 444, edited by O. E. Malandraki and N. B. Crosby, pp. 157–177, [10.1007/978-3-319-60051-2\\_9](https://doi.org/10.1007/978-3-319-60051-2_9).
- [3] Akita, M., J. Kataoka, M. Arimoto, Y. Sofue, T. Totani, Y. Inoue, and S. Nakashima (2018), Diffuse X-Ray Emission from the Northern Arc of Loop I Observed with Suzaku, *Astrophys. J.*, **862**, 88, [10.3847/1538-4357/aacd08](https://doi.org/10.3847/1538-4357/aacd08).
- [4] Al-Haddad, N., T. Nieves-Chinchilla, N. P. Savani, N. Lugaz, and I. I. Roussev (2018), Fitting and Reconstruction of Thirteen Simple Coronal Mass Ejections, *Solar Phys.*, **293**, 73, [10.1007/s11207-018-1288-3](https://doi.org/10.1007/s11207-018-1288-3).
- [5] Al-Shakarchi, D. A., and H. Morgan (2018), Properties of the HPS-ICME-CIR Interaction Event of 9-10 September 2011, *J. Geophys. Res.*, **123**(4), 2535–2556, [10.1002/2017JA024849](https://doi.org/10.1002/2017JA024849).
- [6] Ala-Lahti, M. M., E. K. J. Kilpua, A. P. Dimmock, A. Osmane, T. Pulkkinen, and J. Souček (2018), Statistical analysis of mirror mode waves in sheath regions driven by interplanetary coronal mass ejection, *Ann. Geophys.*, **36**, 793–808, [10.5194/angeo-36-793-2018](https://doi.org/10.5194/angeo-36-793-2018).
- [7] Alabdulgader, A., R. McCraty, M. Atkinson, Y. Dobyms, A. Vainoras, M. Ragulskis, and V. Stolc (2018), Long-Term Study of Heart Rate Variability Responses to Changes in the Solar and Geomagnetic Environment, *Sci. Rep.*, **8**, 2663, [10.1038/s41598-018-20932-x](https://doi.org/10.1038/s41598-018-20932-x).
- [8] Alberti, T., G. Consolini, P. De Michelis, M. Laurenza, and M. F. Marcucci (2018), On fast and slow Earth’s magnetospheric dynamics during geomagnetic storms: a stochastic Langevin approach, *J. Space Weather Space Clim.*, **8**(27), A56, [10.1051/swsc/2018039](https://doi.org/10.1051/swsc/2018039).
- [9] Alterman, B. L., J. C. Kasper, M. L. Stevens, and A. Koval (2018), A Comparison of Alpha Particle and Proton Beam Differential Flows in Collisionally Young Solar Wind, *Astrophys. J.*, **864**, 112, [10.3847/1538-4357/aad23f](https://doi.org/10.3847/1538-4357/aad23f).
- [10] André, N., M. Grande, N. Achilleos, M. Barthélémy, M. Bouchemit, K. Benson, P.-L. Blelly, E. Budnik, S. Caussarieu, B. Cecconi, T. Cook, V. Génot, P. Guio, A. Goutenoir, B. Grison, R. Hueso, M. Indurain, G. H. Jones, J. Liliensten, A. Marchaudon, D. Matthiä, A. Opitz, A. Rouillard, I. Stanislawska, J. Soucek, C. Tao, L. Tomasik, and J. Vaubailon (2018), Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure, *Planet. Space Sci.*, **150**, 50–59, [10.1016/j.pss.2017.04.020](https://doi.org/10.1016/j.pss.2017.04.020).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [11] Andreeva, V. A., and N. A. Tsyganenko (2018), Empirical Modeling of the Quiet and Storm Time Geosynchronous Magnetic Field, *Space Weather*, **16**, 16–36, [10.1002/2017SW001684](https://doi.org/10.1002/2017SW001684).
- [12] Antonova, E. E., M. V. Stepanova, P. S. Moya, V. A. Pinto, V. V. Vovchenko, I. L. Ovchinnikov, and N. V. Sotnikov (2018), Processes in auroral oval and outer electron radiation belt, *Earth, Planets, and Space*, **70**, 127, [10.1186/s40623-018-0898-1](https://doi.org/10.1186/s40623-018-0898-1).
- [13] Archer, M. O., M. D. Hartinger, R. Redmon, V. Angelopoulos, and B. M. Walsh (2018), First Results From Sonification and Exploratory Citizen Science of Magnetospheric ULF Waves: Long-Lasting Decreasing-Frequency Poloidal Field Line Resonances Following Geomagnetic Storms, *Space Weather*, **16**, 1753–1769, [10.1029/2018SW001988](https://doi.org/10.1029/2018SW001988).
- [14] Artemyev, A. V., V. Angelopoulos, J. S. Halekas, A. A. Vinogradov, I. Y. Vasko, and L. M. Zelenyi (2018), Dynamics of Intense Currents in the Solar Wind, *Astrophys. J.*, **859**, 95, [10.3847/1538-4357/aabe89](https://doi.org/10.3847/1538-4357/aabe89).
- [15] Artemyev, A. V., V. Angelopoulos, and J. M. McTiernan (2018), Near-Earth Solar Wind: Plasma Characteristics From ARTEMIS Measurements, *J. Geophys. Res.*, **123**, 9955–9962, [10.1029/2018JA025904](https://doi.org/10.1029/2018JA025904).
- [16] Augusto, C. R. A., C. E. Navia, M. N. de Oliveira, A. Nepomuceno, V. Kopenkin, and T. Sinzi (2018), Possible GeV counterpart at the ground level associated with Fermi LAT gamma-ray bursts, *J. Phys. Comm.*, **2**(7), 075013, [10.1088/2399-6528/aad3a0](https://doi.org/10.1088/2399-6528/aad3a0).
- [17] Bag, T. (2018), Local Time Hemispheric Asymmetry in Nitric Oxide Radiative Emission During Geomagnetic Activity, *J. Geophys. Res.*, **123**, 9669–9681, [10.1029/2018JA025731](https://doi.org/10.1029/2018JA025731).
- [18] Bagiya, M. S., S. V. Thampi, D. Hui, A. S. Sunil, D. Chakrabarty, and R. K. Choudhary (2018), Signatures of the Solar Transient Disturbances Over the Low Latitude Ionosphere During 6 to 8 September 2017, *J. Geophys. Res.*, **123**, 7598–7608, [10.1029/2018JA025496](https://doi.org/10.1029/2018JA025496).
- [19] Bai, S., Q. Shi, A. Tian, M. Nowada, A. W. Degeling, X.-Z. Zhou, Q.-G. Zong, I. J. Rae, S. Fu, H. Zhang, Z. Pu, and A. N. Fazakerly (2018), Spatial Distribution and Semiannual Variation of Cold-Dense Plasma Sheet, *J. Geophys. Res.*, **123**, 464–472, [10.1002/2017JA024565](https://doi.org/10.1002/2017JA024565).
- [20] Balasis, G., I. A. Daglis, Y. Contoyiannis, S. M. Potirakis, C. Papadimitriou, N. S. Melis, O. Giannakis, A. Papaioannou, A. Anastasiadis, and C. Kontoes (2018), Observation of Intermittency-Induced Critical Dynamics in Geomagnetic Field Time Series Prior to the Intense Magnetic Storms of March, June, and December 2015, *J. Geophys. Res.*, **123**(6), 4594–4613, [10.1002/2017JA025131](https://doi.org/10.1002/2017JA025131).
- [21] Battarbee, M., J. Guo, S. Dalla, R. Wimmer-Schweingruber, B. Swalwell, and D. J. Lawrence (2018), Multi-spacecraft observations and transport simulations of solar energetic particles for the May 17th 2012 event, *Astron. & Astrophys.*, **612**, A116, [10.1051/0004-6361/201731451](https://doi.org/10.1051/0004-6361/201731451).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [22] Behar, E., B. Tabone, and H. Nilsson (2018), Dawn-dusk asymmetry induced by the Parker spiral angle in the plasma dynamics around comet 67P/Churyumov-Gerasimenko, *Mon. Not. Roy. Astron. Soc.*, **478**, 1570–1575, [10.1093/mnras/sty1111](https://doi.org/10.1093/mnras/sty1111).
- [23] Bilenko, I. A. (2018), Determination of the Coronal and Interplanetary Magnetic Field Strength and Radial Profiles from Large-Scale Photospheric Magnetic Fields, *Solar Phys.*, **293**, 106, [10.1007/s11207-018-1324-3](https://doi.org/10.1007/s11207-018-1324-3).
- [24] Bilenko, I. A. (2018), Regularities in the Formation of Coronal Mass Ejections Associated and not Associated with Type II Radio Bursts, *Geomag. and Aeron.*, **58**, 989–1000, [10.1134/S0016793218070034](https://doi.org/10.1134/S0016793218070034).
- [25] Bingham, S. T., C. G. Mouikis, L. M. Kistler, A. J. Boyd, K. Paulson, C. J. Farrugia, C. L. Huang, H. E. Spence, S. G. Claudepierre, and C. Kletzing (2018), The Outer Radiation Belt Response to the Storm Time Development of Seed Electrons and Chorus Wave Activity During CME and CIR Driven Storms, *J. Geophys. Res.*, **123**(12), 10,139–10,157, [10.1029/2018JA025963](https://doi.org/10.1029/2018JA025963).
- [26] Bocchialini, K., B. Grison, M. Menvielle, A. Chambodut, N. Cornilleau-Wehrlin, D. Fontaine, A. Marchaudon, M. Pick, F. Pitout, B. Schmieder, S. Régnier, and I. Zouganelis (2018), Statistical Analysis of Solar Events Associated with Storm Sudden Commencements over One Year of Solar Maximum During Cycle 23: Propagation from the Sun to the Earth and Effects, *Solar Phys.*, **293**, 75, [10.1007/s11207-018-1278-5](https://doi.org/10.1007/s11207-018-1278-5).
- [27] Bonde, R. E. F. (2018), A Study of the Geospace Response to Dynamic Solar Wind Using the Lyon-Fedder-Mobarry Global MHD Simulation, Ph.D. thesis, The University of Texas at Arlington.
- [28] Borovsky, J. E. (2018), On the Origins of the Intercorrelations Between Solar Wind Variables, *J. Geophys. Res.*, **123**, 20–29, [10.1002/2017JA024650](https://doi.org/10.1002/2017JA024650).
- [29] Borovsky, J. E. (2018), The spatial structure of the oncoming solar wind at Earth and the shortcomings of a solar-wind monitor at L1, *J. Atmos. Solar-Terr. Phys.*, **177**, 2–11, [10.1016/j.jastp.2017.03.014](https://doi.org/10.1016/j.jastp.2017.03.014).
- [30] Boschini, M. J., S. Della Torre, M. Gervasi, G. La Vacca, and P. G. Rancoita (2018), Propagation of cosmic rays in heliosphere: The HELMOD model, *Adv. Space Res.*, **62**, 2859–2879, [10.1016/j.asr.2017.04.017](https://doi.org/10.1016/j.asr.2017.04.017).
- [31] Boschini, M. J., S. Della Torre, M. Gervasi, D. Grandi, G. Jóhannesson, G. La Vacca, N. Masi, I. V. Moskalenko, S. Pensotti, T. A. Porter, L. Quadrani, P. G. Rancoita, D. Rozza, and M. Tacconi (2018), Deciphering the Local Interstellar Spectra of Primary Cosmic-Ray Species with HELMOD, *Astrophys. J.*, **858**, 61, [10.3847/1538-4357/aabc54](https://doi.org/10.3847/1538-4357/aabc54).
- [32] Bowen, T. A., S. Badman, P. Hellinger, and S. D. Bale (2018), Density Fluctuations in the Solar Wind Driven by Alfvén Wave Parametric Decay, *Astrophys. J. Lett.*, **854**, L33, [10.3847/2041-8213/aaabbe](https://doi.org/10.3847/2041-8213/aaabbe).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [33] Bowen, T. A., A. Mallet, J. W. Bonnell, and S. D. Bale (2018), Impact of Residual Energy on Solar Wind Turbulent Spectra, *Astrophys. J.*, **865**, 45, [10.3847/1538-4357/aad95b](https://doi.org/10.3847/1538-4357/aad95b).
- [34] Boynton, R. J., H. Aryan, S. N. Walker, V. Krasnoselskikh, and M. A. Balikhin (2018), The Influence of Solar Wind and Geomagnetic Indices on Lower Band Chorus Emissions in the Inner Magnetosphere, *J. Geophys. Res.*, **123**, 9022–9034, [10.1029/2018JA025704](https://doi.org/10.1029/2018JA025704).
- [35] Bronarska, K., M. S. Wheatland, N. Gopalswamy, and G. Michalek (2018), Very narrow coronal mass ejections producing solar energetic particles, *Astron. & Astrophys.*, **619**, A34, [10.1051/0004-6361/201833237](https://doi.org/10.1051/0004-6361/201833237).
- [36] Burrell, A. G., A. Halford, J. Klenzing, R. A. Stoneback, S. K. Morley, A. M. Annex, K. M. Laundal, A. C. Kellerman, D. Stansby, and J. Ma (2018), Snakes on a Spaceship—An Overview of Python in Heliophysics, *J. Geophys. Res.*, **123**(12), 10,384–10,402, [10.1029/2018JA025877](https://doi.org/10.1029/2018JA025877).
- [37] Bučík, R., M. E. Wiedenbeck, G. M. Mason, R. Gómez-Herrero, N. V. Nitta, and L. Wang (2018), <sup>3</sup>He-rich Solar Energetic Particles from Sunspot Jets, *Astrophys. J. Lett.*, **869**, L21, [10.3847/2041-8213/aaf37f](https://doi.org/10.3847/2041-8213/aaf37f).
- [38] Bučík, R., A. Fludra, R. Gómez-Herrero, D. E. Innes, B. Kellett, R. Kumar, and Š. Mackovjak (2018), Spectroscopic EUV observations of impulsive solar energetic particle event sources, *Astron. & Astrophys.*, **617**, A40, [10.1051/0004-6361/201833120](https://doi.org/10.1051/0004-6361/201833120).
- [39] Cairns, I. H., V. V. Lobzin, A. Donea, S. J. Tingay, P. I. McCauley, D. Oberoi, R. T. Duffin, M. J. Reiner, N. Hurley-Walker, N. A. Kudryavtseva, D. B. Melrose, J. C. Harding, G. Bernardi, J. D. Bowman, R. J. Cappallo, B. E. Corey, A. Deshpande, D. Emrich, R. Goeke, B. J. Hazelton, M. Johnston-Hollitt, D. L. Kaplan, J. C. Kasper, E. Kratzenberg, C. J. Lonsdale, M. J. Lynch, S. R. McWhirter, D. A. Mitchell, M. F. Morales, E. Morgan, S. M. Ord, T. Prabu, A. Roshi, N. U. Shankar, K. S. Srivani, R. Subrahmanyam, R. B. Wayth, M. Waterson, R. L. Webster, A. R. Whitney, A. Williams, and C. L. Williams (2018), Low Altitude Solar Magnetic Reconnection, Type III Solar Radio Bursts, and X-ray Emissions, *Sci. Rep.*, **8**, 1676, [10.1038/s41598-018-19195-3](https://doi.org/10.1038/s41598-018-19195-3).
- [40] Carbone, F., L. Sorriso-Valvo, T. Alberti, F. Lepreti, C. H. K. Chen, Z. Němeček, and J. Šafránková (2018), Arbitrary-order Hilbert Spectral Analysis and Intermittency in Solar Wind Density Fluctuations, *Astrophys. J.*, **859**, 27, [10.3847/1538-4357/aabcc2](https://doi.org/10.3847/1538-4357/aabcc2).
- [41] Case, N. A., A. Grocott, S. Haaland, C. J. Martin, and T. Nagai (2018), Response of Earth’s Neutral Sheet to Reversals in the IMF B<sub>y</sub> Component, *J. Geophys. Res.*, **123**, 8206–8218, [10.1029/2018JA025712](https://doi.org/10.1029/2018JA025712).
- [42] Chand, V., T. Chattopadhyay, S. Iyyani, R. Basak, E. Aarthy, A. R. Rao, S. V. Vadawale, D. Bhattacharya, and V. B. Bhalerao (2018), Violation of Synchrotron Line of Death by the Highly Polarized GRB 160802A, *Astrophys. J.*, **862**, 154, [10.3847/1538-4357/aacd12](https://doi.org/10.3847/1538-4357/aacd12).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [43] Chandra, H., and B. Bhatt (2018), Solar flares associated coronal mass ejection accompanied with DH type II radio burst in relation with interplanetary magnetic field, geomagnetic storms and cosmic ray intensity, *New Astron.*, **60**, 22–32, [10.1016/j.newast.2017.10.001](https://doi.org/10.1016/j.newast.2017.10.001).
- [44] Chapman, S. C., N. W. Watkins, and E. Tindale (2018), Reproducible Aspects of the Climate of Space Weather Over the Last Five Solar Cycles, *Space Weather*, **16**, 1128–1142, [10.1029/2018SW001884](https://doi.org/10.1029/2018SW001884).
- [45] Charikov, Y. E., A. N. Shabalin, E. P. Ovchinnikova, A. L. Lysenko, and S. A. Kuznetsov (2018), Energy Spectra and Time Delays of Hard X-Rays of Solar Flares in Konus-Wind and RHESSI Experiments, *Geomag. and Aeron.*, **58**, 1050–1056, [10.1134/S0016793218080030](https://doi.org/10.1134/S0016793218080030).
- [46] Chelpanov, M. A., O. V. Mager, P. N. Mager, D. Y. Klimushkin, and O. I. Bergardt (2018), Properties of frequency distribution of Pc5-range pulsations observed with the Ekaterinburg decameter radar in the nightside ionosphere, *J. Atmos. Solar-Terr. Phys.*, **167**, 177–183, [10.1016/j.jastp.2017.12.002](https://doi.org/10.1016/j.jastp.2017.12.002).
- [47] Chen, L., A. Aminaei, L. I. Gurvits, M. K. Wolt, H. R. Pourshaghghi, Y. Yan, and H. Falcke (2018), Antenna design and implementation for the future space Ultra-Long wavelength radio telescope, *Exper. Astron.*, **45**, 231–253, [10.1007/s10686-018-9576-3](https://doi.org/10.1007/s10686-018-9576-3).
- [48] Chen, L.-J., S. Wang, L. B. Wilson, S. Schwartz, N. Bessho, T. Moore, D. Gershman, B. Giles, D. Malaspina, F. D. Wilder, R. E. Ergun, M. Hesse, H. Lai, C. Russell, R. Strangeway, R. B. Torbert, A. F.-Vinas, J. Burch, S. Lee, C. Pollock, J. Dorelli, W. Paterson, N. Ahmadi, K. Goodrich, B. Lavraud, O. Le Contel, Y. V. Khotyaintsev, P.-A. Lindqvist, S. Boardsen, H. Wei, A. Le, and L. Avanov (2018), Electron Bulk Acceleration and Thermalization at Earth’s Quasiperpendicular Bow Shock, *Phys. Rev. Lett.*, **120**(22), 225101, [10.1103/PhysRevLett.120.225101](https://doi.org/10.1103/PhysRevLett.120.225101).
- [49] Chen, M. W., T. P. O’Brien, C. L. Lemon, and T. B. Guild (2018), Effects of Uncertainties in Electric Field Boundary Conditions for Ring Current Simulations, *J. Geophys. Res.*, **123**, 638–652, [10.1002/2017JA024496](https://doi.org/10.1002/2017JA024496).
- [50] Chen, Y., Q. Hu, J. le Roux, and J. Zheng (2018), Observational Analysis of Small-scale Magnetic Flux Ropes from Ulysses In-situ Measurements, in *Journal of Physics Conference Series*, *J. Phys. Conf. Ser.*, vol. 1100, p. 012006, [10.1088/1742-6596/1100/1/012006](https://doi.org/10.1088/1742-6596/1100/1/012006).
- [51] Cheng, X., B. Kliem, and M. D. Ding (2018), Unambiguous Evidence of Filament Splitting-induced Partial Eruptions, *Astrophys. J.*, **856**, 48, [10.3847/1538-4357/aab08d](https://doi.org/10.3847/1538-4357/aab08d).
- [52] Cheng, Z. W., J. K. Shi, J. C. Zhang, K. Torkar, L. M. Kistler, M. Dunlop, C. Carr, H. Rème, I. Dandouras, and A. Fazakerley (2018), Influence of the IMF Cone Angle on Invariant Latitudes of Polar Region Footprints of FACs in the Magnetotail: Cluster Observation, *J. Geophys. Res.*, **123**, 2588–2597, [10.1002/2017JA024941](https://doi.org/10.1002/2017JA024941).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [53] Chernogor, L. F., and K. P. Garmash (2018), Magnetospheric and Ionospheric Effects Accompanying the Strongest Technogenic Catastrophe, *Geomag. and Aeron.*, **58**, 673–685, [10.1134/S0016793218050031](https://doi.org/10.1134/S0016793218050031).
- [54] Chi, Y., J. Zhang, C. Shen, P. Hess, L. Liu, W. Mishra, and Y. Wang (2018), Observational Study of an Earth-affecting Problematic ICME from STEREO, *Astrophys. J.*, **863**, 108, [10.3847/1538-4357/aacf44](https://doi.org/10.3847/1538-4357/aacf44).
- [55] Chi, Y., C. Shen, B. Luo, Y. Wang, and M. Xu (2018), Geoeffectiveness of Stream Interaction Regions From 1995 to 2016, *Space Weather*, **16**, 1960–1971, [10.1029/2018SW001894](https://doi.org/10.1029/2018SW001894).
- [56] Cliver, E. W., and E. D’Huys (2018), Size Distributions of Solar Proton Events and Their Associated Soft X-Ray Flares: Application of the Maximum Likelihood Estimator, *Astrophys. J.*, **864**, 48, [10.3847/1538-4357/aad043](https://doi.org/10.3847/1538-4357/aad043).
- [57] Cliver, E. W., and K. Herbst (2018), Evolution of the Sunspot Number and Solar Wind B Time Series, *Space Sci. Rev.*, **214**, 56, [10.1007/s11214-018-0487-4](https://doi.org/10.1007/s11214-018-0487-4).
- [58] Court, J. M. C., D. Altamirano, A. C. Albayati, A. Sanna, T. Belloni, T. Overton, N. Degenaar, R. Wijnands, K. Yamaoka, A. B. Hill, and C. Knigge (2018), The evolution of X-ray bursts in the ‘Bursting Pulsar’ GRO J1744-28, *Mon. Not. Roy. Astron. Soc.*, **481**(2), 2273–2298, [10.1093/mnras/sty2312](https://doi.org/10.1093/mnras/sty2312).
- [59] Cunha-Silva, R. D., C. L. Selhorst, F. C. R. Fernandes, and A. J. Oliveira e Silva (2018), Well-defined EUV wave associated with a CME-driven shock, *Astron. & Astrophys.*, **612**, A100, [10.1051/0004-6361/201630358](https://doi.org/10.1051/0004-6361/201630358).
- [60] Dainotti, M. G., and L. Amati (2018), Gamma-ray Burst Prompt Correlations: Selection and Instrumental Effects, *Publ. Astron. Soc. Pacific*, **130**(987), 051,001, [10.1088/1538-3873/aaa8d7](https://doi.org/10.1088/1538-3873/aaa8d7).
- [61] D’Amicis, R., L. Matteini, and R. Bruno (2019), On the slow solar wind with high Alfvénicity: from composition and microphysics to spectral properties, *Mon. Not. Roy. Astron. Soc.*, **483**, 4665–4677, [10.1093/mnras/sty3329](https://doi.org/10.1093/mnras/sty3329).
- [62] Dang, T., B. Zhang, M. Wiltberge, W. Wang, R. Varney, X. Dou, W. Wan, and J. Lei (2018), On the Relation Between Soft Electron Precipitations in the Cusp Region and Solar Wind Coupling Functions, *J. Geophys. Res.*, **123**, 211–226, [10.1002/2017JA024379](https://doi.org/10.1002/2017JA024379).
- [63] De Pascuale, S., V. K. Jordanova, J. Goldstein, C. A. Kletzing, W. S. Kurth, S. A. Thaller, and J. R. Wygant (2018), Simulations of Van Allen Probes Plasmaspheric Electron Density Observations, *J. Geophys. Res.*, **123**, 9453–9475, [10.1029/2018JA025776](https://doi.org/10.1029/2018JA025776).
- [64] Deca, J., A. Divin, C. Lue, T. Ahmadi, and M. Horányi (2018), Reiner Gamma albedo features reproduced by modeling solar wind standoff, *Nature Comm. Phys.*, **1**, 12, [10.1038/s42005-018-0012-9](https://doi.org/10.1038/s42005-018-0012-9).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [65] Demetrescu, C., V. Dobrica, R. Greculeasa, and C. Stefan (2018), The induced surface electric response in Europe to 2015 St. Patrick’s Day geomagnetic storm, *J. Atmos. Solar-Terr. Phys.*, **180**, 106–115, [10.1016/j.jastp.2017.09.003](https://doi.org/10.1016/j.jastp.2017.09.003).
- [66] Démoulin, P., S. Dasso, and M. Janvier (2018), Exploring the biases of a new method based on minimum variance for interplanetary magnetic clouds, *Astron. & Astrophys.*, **619**, A139, [10.1051/0004-6361/201833831](https://doi.org/10.1051/0004-6361/201833831).
- [67] Denardini, C. M., S. S. Chen, L. C. A. Resende, J. Moro, A. V. Bilibio, P. R. Fagundes, M. A. Gende, M. A. Cabrera, M. J. A. Bolzan, A. L. Padilha, N. J. Schuch, J. L. Hormaechea, L. R. Alves, P. F. Barbosa Neto, P. A. B. Nogueira, G. A. S. Picanço, and T. O. Bertolotto (2018), The Embrace Magnetometer Network for South America: First Scientific Results, *Radio Science*, **53**(3), 379–393, [10.1002/2018RS006540](https://doi.org/10.1002/2018RS006540).
- [68] Despirak, I., A. Lubchich, and N. Kleimenova (2018), High-latitudes magnetic substorms under different types of the solar wind large-scale structure, *Sun and Geosphere*, **13**, 57–61.
- [69] Despirak, I. V., A. A. Lubchich, and N. G. Kleimenova (2018), High-latitude substorm dependence on space weather conditions in solar cycle 23 and 24 (SC23 and SC24), *J. Atmos. Solar-Terr. Phys.*, **177**, 54–62, [10.1016/j.jastp.2017.09.011](https://doi.org/10.1016/j.jastp.2017.09.011).
- [70] Domínguez, M., G. Nigro, V. Muñoz, and V. Carbone (2018), Study of the fractality of magnetized plasma using an MHD shell model driven by solar wind data, *Phys. Plasmas*, **25**(9), 092302, [10.1063/1.5034129](https://doi.org/10.1063/1.5034129).
- [71] Dósa, M., A. Opitz, Z. Dályá, and K. Szegő (2018), Magnetic Lasso: A New Kinematic Solar Wind Propagation Method. Magnetic Lasso Propagation, *Solar Phys.*, **293**, 127, [10.1007/s11207-018-1340-3](https://doi.org/10.1007/s11207-018-1340-3).
- [72] Dremukhina, L. A., I. G. Lodkina, and Y. I. Yermolaev (2018), Relationship between the Parameters of Various Solar Wind Types and Geomagnetic Activity Indices, *Cosmic Res.*, **56**, 426–433, [10.1134/S0010952518060011](https://doi.org/10.1134/S0010952518060011).
- [73] Dremukhina, L. A., I. G. Lodkina, and Y. I. Yermolaev (2018), Statistical Study of the Effect of Different Solar Wind Types on Magnetic Storm Generation During 1995-2016, *Geomag. and Aeron.*, **58**, 737–743, [10.1134/S0016793218060038](https://doi.org/10.1134/S0016793218060038).
- [74] Dresing, N., R. Gómez-Herrero, B. Heber, A. Klassen, M. Temmer, and A. Veronig (2018), Long-lasting injection of solar energetic electrons into the heliosphere, *Astron. & Astrophys.*, **613**, A21, [10.1051/0004-6361/201731573](https://doi.org/10.1051/0004-6361/201731573).
- [75] Dröge, W., Y. Y. Kartavykh, L. Wang, D. Telloni, and R. Bruno (2018), Transport Modeling of Interplanetary Electrons in the 2002 October 20 Solar Particle Event, *Astrophys. J.*, **869**, 168, [10.3847/1538-4357/aaec6c](https://doi.org/10.3847/1538-4357/aaec6c).
- [76] Du, A. M., K. T. Wang, H. Luo, B. T. Tsurutani, J. Gjerloev, W. Sun, Y. Wang, J. Ou, and Y. Ge (2018), Coupling of semiannual and annual variations in the SuperMAG SML and SMU indices, *Planet. Space Sci.*, **158**, 87–95, [10.1016/j.pss.2018.05.001](https://doi.org/10.1016/j.pss.2018.05.001).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [77] Duan, D., J. He, Z. Pei, S. Huang, H. Wu, D. Verscharen, and L. Wang (2018), Angular Independence of Break Position for Magnetic Power Spectral Density in Solar Wind Turbulence, *Astrophys. J.*, **865**, 89, [10.3847/1538-4357/aad9aa](https://doi.org/10.3847/1538-4357/aad9aa).
- [78] El-Borie, M. A., A. M. El-Taher, N. E. Aly, and A. A. Bishara (2018), The occurrence of non-uniformity of solar and plasma features throughout five solar cycles, *Astroparticle Phys.*, **100**, 13–21, [10.1016/j.astropartphys.2018.02.007](https://doi.org/10.1016/j.astropartphys.2018.02.007).
- [79] El-Borie, M. A., A. M. El-Taher, N. E. Aly, and A. A. Bishara (2018), A study of the asymmetrical distribution of solar activity features on solar and plasma parameters (1967–2016), *Phys. Plasmas*, **25**(4), 042901, [10.1063/1.5018058](https://doi.org/10.1063/1.5018058).
- [80] El-Borie, M. A., A. M. El-Taher, N. E. Aly, and A. A. Bishara (2018), A study of the geomagnetic indices asymmetry based on the interplanetary magnetic field polarities, *Astrophys. Space Sci.*, **363**, 106, [10.1007/s10509-018-3329-7](https://doi.org/10.1007/s10509-018-3329-7).
- [81] Engebretson, M. J., J. L. Posch, N. S. S. Capman, N. G. Campuzano, P. Bělik, R. C. Allen, S. K. Vines, B. J. Anderson, S. Tian, C. A. Cattell, J. R. Wygant, S. A. Fuselier, M. R. Argall, M. R. Lessard, R. B. Torbert, M. B. Moldwin, M. D. Hartinger, H. Kim, C. T. Russell, C. A. Kletzing, G. D. Reeves, and H. J. Singer (2018), MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock, *J. Geophys. Res.*, **123**, 8331–8357, [10.1029/2018JA025984](https://doi.org/10.1029/2018JA025984).
- [82] Eriksson, E., A. Vaivads, D. B. Graham, A. Divin, Y. V. Khotyaintsev, E. Yordanova, M. André, B. L. Giles, C. J. Pollock, C. T. Russell, O. L. Contel, R. B. Torbert, R. E. Ergun, P.-A. Lindqvist, and J. L. Burch (2018), Electron Energization at a Reconnecting Magnetosheath Current Sheet, *Geophys. Res. Lett.*, **45**, 8081–8090, [10.1029/2018GL078660](https://doi.org/10.1029/2018GL078660).
- [83] Eroglu, E. (2018), Mathematical modeling of the moderate storm on 28 February 2008, *New Astron.*, **60**, 33–41, [10.1016/j.newast.2017.10.002](https://doi.org/10.1016/j.newast.2017.10.002).
- [84] Eselevich, V. G., N. L. Borodkova, O. V. Sapunova, G. N. Zastenker, and Y. I. Yermolaev (2018), Structure of the Front of a Collisionless Oblique Interplanetary Shock Wave from High Time Resolution Measurements of Solar-Wind Plasma Parameters, *Geomag. and Aeron.*, **58**, 728–736, [10.1134/S001679321806004X](https://doi.org/10.1134/S001679321806004X).
- [85] Farrugia, C. J., I. J. Cohen, B. J. Vasquez, N. Lugaz, L. Alm, R. B. Torbert, M. R. Argall, K. Paulson, B. Lavraud, D. J. Gershman, F. T. Gratton, H. Matsui, A. Rogers, T. G. Forbes, D. Payne, R. E. Ergun, B. Mauk, J. L. Burch, C. T. Russell, R. J. Strangeway, J. Shuster, R. Nakamura, S. A. Fuselier, B. L. Giles, Y. V. Khotyaintsev, P. A. Lindqvist, G. T. Marklund, S. M. Petrinec, and C. J. Pollock (2018), Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity, *J. Geophys. Res.*, **123**, 8983–9004, [10.1029/2018JA025724](https://doi.org/10.1029/2018JA025724).



**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [86] Feng, H. Q., J. M. Wang, G. Q. Zhao, and Y. Zhao (2018), Observations on the Magnetic Disconnections of a Magnetic Cloud from the Sun through Magnetic Reconnection, *Astrophys. J.*, **864**, 101, [10.3847/1538-4357/aad95e](https://doi.org/10.3847/1538-4357/aad95e).
- [87] Feng, X., S. Yao, D. Li, G. Li, and X. Yan (2018), Statistical Study of ICMEs with Low Mean Carbon Charge State Plasmas Detected from 1998 to 2011, *Astrophys. J.*, **868**, 124, [10.3847/1538-4357/aae92c](https://doi.org/10.3847/1538-4357/aae92c).
- [88] Ferradas, C. P., J.-C. Zhang, H. E. Spence, L. M. Kistler, B. A. Larsen, G. D. Reeves, R. M. Skoug, and H. O. Funsten (2018), Temporal Evolution of Ion Spectral Structures During a Geomagnetic Storm: Observations and Modeling, *J. Geophys. Res.*, **123**, 179–196, [10.1002/2017JA024702](https://doi.org/10.1002/2017JA024702).
- [89] Filwett, R. J. (2018), Measuring the Sources and Acceleration Mechanisms of Suprathermal Heavy Ions in Stream Interaction Regions near 1 AU, Ph.D. thesis, The University of Texas at San Antonio.
- [90] Fioretti, V., A. Bulgarelli, S. Molendi, S. Lotti, C. Macculi, M. Barbera, T. Mineo, L. Piro, M. Cappi, M. Dadina, N. Meidinger, A. von Kienlin, and A. Rau (2018), Magnetic Shielding of Soft Protons in Future X-Ray Telescopes: The Case of the ATHENA Wide Field Imager, *Astrophys. J.*, **867**, 9, [10.3847/1538-4357/aade99](https://doi.org/10.3847/1538-4357/aade99).
- [91] Fraija, N., and P. Veres (2018), The Origin of the Optical Flashes: The Case Study of GRB 080319B and GRB 130427A, *Astrophys. J.*, **859**, 70, [10.3847/1538-4357/aabd79](https://doi.org/10.3847/1538-4357/aabd79).
- [92] Fu, H., M. S. Madjarska, B. Li, L. Xia, and Z. Huang (2018), Helium abundance and speed difference between helium ions and protons in the solar wind from coronal holes, active regions, and quiet Sun, *Mon. Not. Roy. Astron. Soc.*, **478**, 1884–1892, [10.1093/mnras/sty1211](https://doi.org/10.1093/mnras/sty1211).
- [93] Fuselier, S. A., S. M. Petrinec, K. J. Trattner, J. M. Broll, J. L. Burch, B. L. Giles, R. J. Strangeway, C. T. Russell, B. Lavraud, M. Øieroset, R. B. Torbert, C. J. Farrugia, S. K. Vines, R. G. Gomez, J. Mukherjee, and P. A. Cassak (2018), Observational Evidence of Large-Scale Multiple Reconnection at the Earth’s Dayside Magnetopause, *J. Geophys. Res.*, **123**, 8407–8421, [10.1029/2018JA025681](https://doi.org/10.1029/2018JA025681).
- [94] Fuselier, S. A., K. J. Trattner, S. M. Petrinec, B. Lavraud, and J. Mukherjee (2018), Nonlobe Reconnection at the Earth’s Magnetopause for Northward IMF, *J. Geophys. Res.*, **123**, 8275–8291, [10.1029/2018JA025435](https://doi.org/10.1029/2018JA025435).
- [95] Gabrielse, C., Y. Nishimura, L. Lyons, B. Gallardo-Lacourt, Y. Deng, and E. Donovan (2018), Statistical Properties of Mesoscale Plasma Flows in the Nightside High-Latitude Ionosphere, *J. Geophys. Res.*, **123**, 6798–6820, [10.1029/2018JA025440](https://doi.org/10.1029/2018JA025440).
- [96] Georgiou, M., I. A. Daglis, I. J. Rae, E. Zesta, D. G. Sibeck, I. R. Mann, G. Balasis, and K. Tsinganos (2018), Ultralow Frequency Waves as an Intermediary for Solar Wind Energy Input Into the Radiation Belts, *J. Geophys. Res.*, **123**(12), 10, [10.1029/2018JA025355](https://doi.org/10.1029/2018JA025355).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [97] Georgoulis, M. K., A. Papaioannou, I. Sandberg, A. Anastasiadis, I. A. Daglis, R. Rodríguez-Gasén, A. Aran, B. Sanahuja, and P. Nieminen (2018), Analysis and interpretation of inner-heliospheric SEP events with the ESA Standard Radiation Environment Monitor (SREM) onboard the INTEGRAL and Rosetta Missions, *J. Space Weather Space Clim.*, **8**(27), A40, [10.1051/swsc/2018027](https://doi.org/10.1051/swsc/2018027).
- [98] Gerontidou, M., H. Mavromichalaki, and T. Daglis (2018), High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24, *Solar Phys.*, **293**, 131, [10.1007/s11207-018-1348-8](https://doi.org/10.1007/s11207-018-1348-8).
- [99] Glesener, L., and G. D. Fleishman (2018), Electron Acceleration and Jet-facilitated Escape in an M-class Solar Flare on 2002 August 19, *Astrophys. J.*, **867**, 84, [10.3847/1538-4357/aacefe](https://doi.org/10.3847/1538-4357/aacefe).
- [100] Gogoberidze, G., Y. M. Voitenko, and G. Machabeli (2018), Temperature spectra in the solar wind turbulence, *Mon. Not. Roy. Astron. Soc.*, **480**(2), 1864–1869, [10.1093/mnras/sty1914](https://doi.org/10.1093/mnras/sty1914).
- [101] Goncharov, O., A. Koval, J. Å afránková, Z. Němeček, M. L. Stevens, A. Szabo, and L. Přech (2018), Interaction of the Interplanetary Shock and IMF Directional Discontinuity in the Solar Wind, *J. Geophys. Res.*, **123**(5), 3822–3835, [10.1029/2018JA025195](https://doi.org/10.1029/2018JA025195).
- [102] Gopalswamy, N., P. Mäkelä, S. Yashiro, A. Lara, H. Xie, S. Akiyama, and R. J. MacDowall (2018), Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source, *Astrophys. J. Lett.*, **868**, L19, [10.3847/2041-8213/aaef36](https://doi.org/10.3847/2041-8213/aaef36).
- [103] Gopalswamy, N., P. Mäkelä, S. Akiyama, S. Yashiro, H. Xie, and N. Thakur (2018), Sun-to-earth propagation of the 2015 June 21 coronal mass ejection revealed by optical, EUV, and radio observations, *J. Atmos. Solar-Terr. Phys.*, **179**, 225–238, [10.1016/j.jastp.2018.07.013](https://doi.org/10.1016/j.jastp.2018.07.013).
- [104] Gopalswamy, N., S. Akiyama, S. Yashiro, and H. Xie (2018), Coronal flux ropes and their interplanetary counterparts, *J. Atmos. Solar-Terr. Phys.*, **180**, 35–45, [10.1016/j.jastp.2017.06.004](https://doi.org/10.1016/j.jastp.2017.06.004).
- [105] Goswami, A. (2018), Difference in the parameters of ICMEs in Ejecta and Sheath region and their impact on Dst index during 1997-2014, *Adv. Space Res.*, **62**, 692–706, [10.1016/j.asr.2018.05.017](https://doi.org/10.1016/j.asr.2018.05.017).
- [106] Graham, G. A., I. J. Rae, C. J. Owen, and A. P. Walsh (2018), Investigating the Effect of IMF Path Length on Pitch-angle Scattering of Strahl within 1 au, *Astrophys. J.*, **855**, 40, [10.3847/1538-4357/aaaf1b](https://doi.org/10.3847/1538-4357/aaaf1b).
- [107] Grechnev, V. V., V. I. Kiselev, L. K. Kashapova, A. A. Kochanov, I. V. Zimovets, A. M. Uralov, B. A. Nizamov, I. Y. Grigorieva, D. V. Golovin, M. L. Litvak, I. G. Mitrofanov, and A. B. Sanin (2018), Radio, Hard X-Ray, and Gamma-Ray Emissions Associated with a Far-Side Solar Event, *Solar Phys.*, **293**, 133, [10.1007/s11207-018-1352-z](https://doi.org/10.1007/s11207-018-1352-z).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [108] Greiner, J. (2019), The Benefit of Simultaneous Seven-filter Imaging: 10 Years of GROND Observations, *Publ. Astron. Soc. Pacific*, **131**(1), 015,002, [10.1088/1538-3873/aaec5d](https://doi.org/10.1088/1538-3873/aaec5d).
- [109] Grigorenko, E. E., H. V. Malova, V. Y. Popov, R. Koleva, and L. M. Zelenyi (2018), A shear  $B_Y$  field in the Earth's magnetotail and its variations in the current sheet, *J. Atmos. Solar-Terr. Phys.*, **177**, 46–53, [10.1016/j.jastp.2017.08.018](https://doi.org/10.1016/j.jastp.2017.08.018).
- [110] Gruet, M. A., M. Chandorkar, A. Sicard, and E. Camporeale (2018), Multiple-Hour-Ahead Forecast of the Dst Index Using a Combination of Long Short-Term Memory Neural Network and Gaussian Process, *Space Weather*, **16**, 1882–1896, [10.1029/2018SW001898](https://doi.org/10.1029/2018SW001898).
- [111] Guineva, V., I. Despirak, and R. Werner (2018), Substorm observations by THEMIS D and ground-based observations by MAIN camera system in Apatity - a case study, *Sun and Geosphere*, **13**, 95–100.
- [112] Guineva, V., I. V. Despirak, and R. Werner (2018), Observations of substorm auroras by MAIN cameras system in Apatity during two winter seasons: 2014/2015 and 2015/2016, *J. Atmos. Solar-Terr. Phys.*, **177**, 63–72, [10.1016/j.jastp.2017.09.014](https://doi.org/10.1016/j.jastp.2017.09.014).
- [113] Guo, J., M. Dumbović, R. F. Wimmer-Schweingruber, M. Temmer, H. Lohf, Y. Wang, A. Veronig, D. M. Hassler, L. M. Mays, C. Zeitlin, B. Ehresmann, O. Witasse, J. L. Freiherr von Forstner, B. Heber, M. Holmström, and A. Posner (2018), Modeling the Evolution and Propagation of 10 September 2017 CMEs and SEPs Arriving at Mars Constrained by Remote Sensing and In Situ Measurement, *Space Weather*, **16**, 1156–1169, [10.1029/2018SW001973](https://doi.org/10.1029/2018SW001973).
- [114] Hammer, M. D., and C. C. Finlay (2019), Local averages of the core-mantle boundary magnetic field from satellite observations, *Geophys. J. Int.*, **216**, 1901–1918, [10.1093/gji/ggy515](https://doi.org/10.1093/gji/ggy515).
- [115] Hamrin, M., H. Gunell, J. Lindkvist, P. A. Lindqvist, R. E. Ergun, and B. L. Giles (2018), Bow Shock Generator Current Systems: MMS Observations of Possible Current Closure, *J. Geophys. Res.*, **123**(1), 242–258, [10.1002/2017JA024826](https://doi.org/10.1002/2017JA024826).
- [116] Han, S., G. Murakami, H. Kita, F. Tsuchiya, C. Tao, H. Misawa, A. Yamazaki, and M. Nakamura (2018), Investigating Solar Wind-Driven Electric Field Influence on Long-Term Dynamics of Jovian Synchrotron Radiation, *J. Geophys. Res.*, **123**, 9508–9516, [10.1029/2018JA025849](https://doi.org/10.1029/2018JA025849).
- [117] Hargreaves, J. K., and M. J. Birch (2018), Observations by incoherent scatter radar of related D- and F-region structuring at very high latitude, *J. Atmos. Solar-Terr. Phys.*, **174**, 5–16, [10.1016/j.jastp.2018.01.032](https://doi.org/10.1016/j.jastp.2018.01.032).
- [118] Hatch, S. M., C. C. Chaston, and J. LaBelle (2018), Nonthermal Limit of Monoenergetic Precipitation in the Auroral Acceleration Region, *Geophys. Res. Lett.*, **45**, 10,167–10,176, [10.1029/2018GL078948](https://doi.org/10.1029/2018GL078948).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [119] Hayakawa, H., J. M. Vaquero, and Y. Ebihara (2018), Sporadic auroras near the geomagnetic equator: in the Philippines, on 27 October 1856, *Ann. Geophys.*, **36**(4), 1153–1160, [10.5194/angeo-36-1153-2018](https://doi.org/10.5194/angeo-36-1153-2018).
- [120] He, J., X. Zhu, Y. Chen, C. Salem, M. Stevens, H. Li, W. Ruan, L. Zhang, and C. Tu (2018), Plasma Heating and Alfvénic Turbulence Enhancement During Two Steps of Energy Conversion in Magnetic Reconnection Exhaust Region of Solar Wind, *Astrophys. J.*, **856**, 148, [10.3847/1538-4357/aab3cd](https://doi.org/10.3847/1538-4357/aab3cd).
- [121] He, W., Y. D. Liu, H. Hu, R. Wang, and X. Zhao (2018), A Stealth CME Bracketed between Slow and Fast Wind Producing Unexpected Geoeffectiveness, *Astrophys. J.*, **860**(1), 78, [10.3847/1538-4357/aac381](https://doi.org/10.3847/1538-4357/aac381).
- [122] He, Y., F. Xiao, Z. Su, H. Zheng, C. Yang, S. Liu, and Q. Zhou (2018), Generation of Lower L Shell Dayside Chorus by Energetic Electrons From the Plasma Sheet, *J. Geophys. Res.*, **123**, 8109–8121, [10.1029/2017JA024889](https://doi.org/10.1029/2017JA024889).
- [123] Heilig, B., and H. Lühr (2018), Quantifying the relationship between the plasmopause and the inner boundary of small-scale field-aligned currents, as deduced from Swarm observations, *Ann. Geophys.*, **36**, 595–607, [10.5194/angeo-36-595-2018](https://doi.org/10.5194/angeo-36-595-2018).
- [124] Heinemann, S. G., M. Temmer, S. J. Hofmeister, A. M. Veronig, and S. Vennerstrøm (2018), Three-phase Evolution of a Coronal Hole. I. 360° Remote Sensing and In Situ Observations, *Astrophys. J.*, **861**, 151, [10.3847/1538-4357/aac897](https://doi.org/10.3847/1538-4357/aac897).
- [125] Higashio, N., T. Takashima, I. Shinohara, and H. Matsumoto (2018), The extremely high-energy electron experiment (XEP) onboard the Arase (ERG) satellite, *Earth, Planets, and Space*, **70**, 134, [10.1186/s40623-018-0901-x](https://doi.org/10.1186/s40623-018-0901-x).
- [126] Horaites, K., P. Astfalk, S. Boldyrev, and F. Jenko (2018), Stability analysis of core-strahl electron distributions in the solar wind, *Mon. Not. Roy. Astron. Soc.*, **480**, 1499–1506, [10.1093/mnras/sty1808](https://doi.org/10.1093/mnras/sty1808).
- [127] Horaites, K., S. Boldyrev, I. Wilson, Lynn B., A. F. Viñas, and J. Merka (2018), Kinetic Theory and Fast Wind Observations of the Electron Strahl, *Mon. Not. Roy. Astron. Soc.*, **474**(1), 115–127, [10.1093/mnras/stx2555](https://doi.org/10.1093/mnras/stx2555).
- [128] Horaites, K., S. Boldyrev, and M. V. Medvedev (2019), Electron strahl and halo formation in the solar wind, *Mon. Not. Roy. Astron. Soc.*, **484**, 2474–2481, [10.1093/mnras/sty3504](https://doi.org/10.1093/mnras/sty3504).
- [129] Horbury, T. S., L. Matteini, and D. Stansby (2018), Short, large-amplitude speed enhancements in the near-Sunfast solar wind, *Mon. Not. Roy. Astron. Soc.*, **478**(2), 1980–1986, [10.1093/mnras/sty953](https://doi.org/10.1093/mnras/sty953).
- [130] Hoshi, Y., H. Hasegawa, N. Kitamura, Y. Saito, and V. Angelopoulos (2018), Seasonal and Solar Wind Control of the Reconnection Line Location on the Earth’s Dayside Magnetopause, *J. Geophys. Res.*, **123**, 7498–7512, [10.1029/2018JA025305](https://doi.org/10.1029/2018JA025305).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [131] Howard, R. A., and A. Vourlidas (2018), Evolution of CME Mass in the Corona, *Solar Phys.*, **293**, 55, [10.1007/s11207-018-1274-9](https://doi.org/10.1007/s11207-018-1274-9).
- [132] Hu, Q., J. Zheng, and Y. Chen (2018), A database of small-scale magnetic flux ropes in the solar wind from Wind spacecraft measurements, in *Journal of Physics Conference Series, J. Phys. Conf. Ser.*, vol. 1100, p. 012012, [10.1088/1742-6596/1100/1/012012](https://doi.org/10.1088/1742-6596/1100/1/012012).
- [133] Hu, Q., J. Zheng, Y. Chen, J. le Roux, and L. Zhao (2018), Automated Detection of Small-scale Magnetic Flux Ropes in the Solar Wind: First Results from the Wind Spacecraft Measurements, *Astrophys. J. Suppl.*, **239**(1), 12, [10.3847/1538-4365/aae57d](https://doi.org/10.3847/1538-4365/aae57d).
- [134] Huang, J., Y. C.-M. Liu, J. Peng, Z. Qi, H. Li, B. Klecker, H. Song, J. Zheng, and Q. Hu (2018), The Distributions of Iron Average Charge States in Small Flux Ropes in Interplanetary Space: Clues to Their Twisted Structures, *J. Geophys. Res.*, **123**, 7167–7180, [10.1029/2018JA025660](https://doi.org/10.1029/2018JA025660).
- [135] Iyyani, S. (2018), Observations and physics of prompt emission of gamma ray bursts, *J. Astrophys. Astron.*, **39**, 75, [10.1007/s12036-018-9567-9](https://doi.org/10.1007/s12036-018-9567-9).
- [136] Jaynes, A. N., A. F. Ali, S. R. Elkington, D. M. Malaspina, D. N. Baker, X. Li, S. G. Kanekal, M. G. Henderson, C. A. Kletzing, and J. R. Wygant (2018), Fast Diffusion of Ultrarelativistic Electrons in the Outer Radiation Belt: 17 March 2015 Storm Event, *Geophys. Res. Lett.*, **45**, 10,874–10,882, [10.1029/2018GL079786](https://doi.org/10.1029/2018GL079786).
- [137] Jian, L. K., C. T. Russell, J. G. Luhmann, and A. B. Galvin (2018), STEREO Observations of Interplanetary Coronal Mass Ejections in 2007-2016, *Astrophys. J.*, **855**, 114, [10.3847/1538-4357/aab189](https://doi.org/10.3847/1538-4357/aab189).
- [138] Jin, M., V. Petrosian, W. Liu, N. V. Nitta, N. Omodei, F. Rubio da Costa, F. Effenberger, G. Li, M. Pesce-Rollins, A. Allafort, and W. Manchester, IV (2018), Probing the Puzzle of Behind-the-limb  $\gamma$ -Ray Flares: Data-driven Simulations of Magnetic Connectivity and CME-driven Shock Evolution, *Astrophys. J.*, **867**, 122, [10.3847/1538-4357/aae1fd](https://doi.org/10.3847/1538-4357/aae1fd).
- [139] Johlander, A., A. Vaivads, Y. V. Khotyaintsev, I. Gingell, S. J. Schwartz, B. L. Giles, R. B. Torbert, and C. T. Russell (2018), Shock ripples observed by the MMS spacecraft: ion reflection and dispersive properties, *Plasma Phys. & Controlled Fusion*, **60**(12), 125006, [10.1088/1361-6587/aae920](https://doi.org/10.1088/1361-6587/aae920).
- [140] Johnson, J. R., S. Wing, and E. Camporeale (2018), Transfer entropy and cumulant-based cost as measures of nonlinear causal relationships in space plasmas: applications to  $D_{st}$ , *Ann. Geophys.*, **36**, 945–952, [10.5194/angeo-36-945-2018](https://doi.org/10.5194/angeo-36-945-2018).
- [141] Johnson, R. E., H. Melin, T. S. Stallard, C. Tao, J. D. Nichols, and M. N. Chowdhury (2018), Mapping  $H_3^+$  Temperatures in Jupiter’s Northern Auroral Ionosphere Using VLT-CRIFES, *J. Geophys. Res.*, **123**, 5990–6008, [10.1029/2018JA025511](https://doi.org/10.1029/2018JA025511).
- [142] Joshi, B., M. S. Ibrahim, A. Shanmugaraju, and D. Chakrabarty (2018), A Major Geoeffective CME from NOAA 12371: Initiation, CME-CME Interactions, and Interplanetary Consequences, *Solar Phys.*, **293**, 107, [10.1007/s11207-018-1325-2](https://doi.org/10.1007/s11207-018-1325-2).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [143] Joshua, B. W., J. O. Adeniyi, O. A. Oladipo, P. H. Doherty, I. A. Adimula, A. O. Olawepo, and S. J. Adebisi (2018), Simultaneous response of NmF2 and GPS-TEC to storm events at Ilorin, *Adv. Space Res.*, **61**, 2904–2913, [10.1016/j.asr.2018.03.031](https://doi.org/10.1016/j.asr.2018.03.031).
- [144] Kacem, I., C. Jacquy, V. Génot, B. Lavraud, Y. Vernisse, A. Marchaudon, O. Le Contel, H. Breuillard, T. D. Phan, H. Hasegawa, M. Oka, K. J. Trattner, C. J. Farrugia, K. Paulson, J. P. Eastwood, S. A. Fuselier, D. Turner, S. Eriksson, F. Wilder, C. T. Russell, M. Øieroset, J. Burch, D. B. Graham, J. A. Sauvaud, L. Avanov, M. Chandler, V. Coffey, J. Dorelli, D. J. Gershman, B. L. Giles, T. E. Moore, Y. Saito, L. J. Chen, and E. Penou (2018), Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth’s Magnetopause, *J. Geophys. Res.*, **123**(3), 1779–1793, [10.1002/2017JA024537](https://doi.org/10.1002/2017JA024537).
- [145] Kavosi, S., H. E. Spence, J. F. Fennell, D. L. Turner, H. K. Connor, and J. Raeder (2018), MMS/FEEPS Observations of Electron Microinjections Due to Kelvin-Helmholtz Waves and Flux Transfer Events: A Case Study, *J. Geophys. Res.*, **123**(7), 5364–5378, [10.1029/2018JA025244](https://doi.org/10.1029/2018JA025244).
- [146] Kawakubo, Y., T. Sakamoto, S. Nakahira, K. Yamaoka, M. Serino, Y. Asaoka, M. L. Cherry, S. Matsukawa, M. Mori, Y. Nakagawa, S. Ozawa, A. V. Penacchioni, S. B. Ricciarini, A. Tezuka, S. Torii, Y. Yamada, and A. Yoshida (2018), Detection of the thermal component in GRB 160107A, *Publ. Astron. Soc. Japan*, **70**(1), 6, [10.1093/pasj/psx152](https://doi.org/10.1093/pasj/psx152).
- [147] Keika, K., K. Seki, M. Nosé, Y. Miyoshi, L. J. Lanzerotti, D. G. Mitchell, M. Gkioulidou, and J. W. Manweiler (2018), Three-Step Buildup of the 17 March 2015 Storm Ring Current: Implication for the Cause of the Unexpected Storm Intensification, *J. Geophys. Res.*, **123**, 414–428, [10.1002/2017JA024462](https://doi.org/10.1002/2017JA024462).
- [148] Kellogg, P. J., K. Goetz, and S. J. Monson (2018), Are STEREO Single Hits Dust Impacts?, *J. Geophys. Res.*, **123**, 7211–7219, [10.1029/2018JA025554](https://doi.org/10.1029/2018JA025554).
- [149] Kellogg, P. J., K. Goetz, and S. J. Monson (2018), Sign of the Dust Impact-Antenna Coupling Cloud, *J. Geophys. Res.*, **123**(5), 3273–3276, [10.1029/2017JA025173](https://doi.org/10.1029/2017JA025173).
- [150] Kharayat, H., L. Prasad, and S. Pant (2018), Association of solar flares with coronal mass ejections accompanied by Deca-Hectometric type II radio burst for two solar cycles 23 and 24, *Astrophys. Space Sci.*, **363**, 87, [10.1007/s10509-018-3309-y](https://doi.org/10.1007/s10509-018-3309-y).
- [151] Khoo, L. Y., X. Li, H. Zhao, T. E. Sarris, Z. Xiang, K. Zhang, A. C. Kellerman, and J. B. Blake (2018), On the Initial Enhancement of Energetic Electrons and the Innermost Plasmapause Locations: Coronal Mass Ejection-Driven Storm Periods, *J. Geophys. Res.*, **123**, 9252–9264, [10.1029/2018JA026074](https://doi.org/10.1029/2018JA026074).
- [152] Kirpichev, I. P., and E. E. Antonova (2018), Plasma Pressure Profiles in the Dark Sector of the Earth’s Magnetosphere during the Magnetic Storm of May 29, 2010, *Geomag. and Aeron.*, **58**, 710–717, [10.1134/S0016793218060075](https://doi.org/10.1134/S0016793218060075).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [153] Klein, K. G., B. L. Alterman, M. L. Stevens, D. Vech, and J. C. Kasper (2018), Majority of Solar Wind Intervals Support Ion-Driven Instabilities, *Phys. Rev. Lett.*, **120**(20), 205102, [10.1103/PhysRevLett.120.205102](https://doi.org/10.1103/PhysRevLett.120.205102).
- [154] Klimenko, M. V., V. V. Klimenko, I. V. Despirak, I. E. Zakharenkova, B. V. Kozelov, S. M. Cherniakov, E. S. Andreeva, E. D. Tereshchenko, A. M. Vesnin, N. A. Korenkova, A. D. Gomonov, E. B. Vasiliev, and K. G. Ratovsky (2018), Disturbances of the thermosphere-ionosphere-plasmasphere system and auroral electrojet at 30°E longitude during the St. Patrick's Day geomagnetic storm on 17-23 March 2015, *J. Atmos. Solar-Terr. Phys.*, **180**, 78–92, [10.1016/j.jastp.2017.12.017](https://doi.org/10.1016/j.jastp.2017.12.017).
- [155] Kocharov, L., S. Pohjolainen, M. J. Reiner, A. Mishev, H. Wang, I. Usoskin, and R. Vainio (2018), Spatial Organization of Seven Extreme Solar Energetic Particle Events, *Astrophys. J. Lett.*, **862**, L20, [10.3847/2041-8213/aad18d](https://doi.org/10.3847/2041-8213/aad18d).
- [156] Kojima, H., K. P. Arunbabu, S. R. Dugad, S. K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, P. K. Mohanty, P. S. Rakshe, K. Ramesh, B. S. Rao, Y. Hayashi, S. Kawakami, T. Nonaka, A. Oshima, S. Shibata, K. Tanaka, and M. Tokumaru (2018), Measurement of the radial diffusion coefficient of galactic cosmic rays near the Earth by the GRAPES-3 experiment, *Phys. Rev. D*, **98**(2), 022004, [10.1103/PhysRevD.98.022004](https://doi.org/10.1103/PhysRevD.98.022004).
- [157] Kondrashov, D., and M. D. Chekroun (2018), Data-adaptive harmonic analysis and modeling of solar wind-magnetosphere coupling, *J. Atmos. Solar-Terr. Phys.*, **177**, 179–189, [10.1016/j.jastp.2017.12.021](https://doi.org/10.1016/j.jastp.2017.12.021).
- [158] Korotova, G., D. Sibeck, S. Thaller, J. Wygant, H. Spence, C. Kletzing, V. Angelopoulos, and R. Redmon (2018), Multisatellite observations of the magnetosphere response to changes in the solar wind and interplanetary magnetic field, *Ann. Geophys.*, **36**, 1319–1333, [10.5194/angeo-36-1319-2018](https://doi.org/10.5194/angeo-36-1319-2018).
- [159] Kosar, B. C., E. A. MacDonald, N. A. Case, Y. Zhang, E. J. Mitchell, and R. Viereck (2018), 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, [10.1016/j.jastp.2018.05.006](https://doi.org/10.1016/j.jastp.2018.05.006).
- [160] Koskela, J. S., I. I. Virtanen, and K. Mursula (2018), Southward shift of the coronal neutral line and the heliospheric current sheet: Evidence for radial evolution of hemispheric asymmetry, *Astron. & Astrophys.*, **618**, A105, [10.1051/0004-6361/201832609](https://doi.org/10.1051/0004-6361/201832609).
- [161] Kočiščák, S., J. Pavlů, J. Šafránková, Z. Němeček, and L. Přech (2018), Do we detect interplanetary dust with Faraday cups?, *Planet. Space Sci.*, **156**, 17–22, [10.1016/j.pss.2017.11.004](https://doi.org/10.1016/j.pss.2017.11.004).
- [162] Kozyreva, O. V., V. A. Pilipenko, V. B. Belakhovsky, and Y. A. Sakharov (2018), Ground geomagnetic field and GIC response to March 17, 2015, storm, *Earth, Planets, and Space*, **70**, 157, [10.1186/s40623-018-0933-2](https://doi.org/10.1186/s40623-018-0933-2).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [163] Krauss, S., M. Temmer, and S. Vennerstrom (2018), Multiple Satellite Analysis of the Earth's Thermosphere and Interplanetary Magnetic Field Variations Due to ICME/CIR Events During 2003-2015, *J. Geophys. Res.*, **123**, 8884–8894, [10.1029/2018JA025778](https://doi.org/10.1029/2018JA025778).
- [164] Kurita, S., Y. Miyoshi, J. B. Blake, and R. H. W. Friedel (2018), Response of Relativistic Electron Microbursts to the Arrival of High-Speed Solar Wind Streams and its Relation to Flux Variation of Trapped Radiation Belt Electrons, *J. Geophys. Res.*, **123**, 7452–7461, [10.1029/2018JA025675](https://doi.org/10.1029/2018JA025675).
- [165] Kwagala, N. K., K. Oksavik, D. A. Lorentzen, and M. G. Johnsen (2018), How Often Do Thermally Excited 630.0 nm Emissions Occur in the Polar Ionosphere?, *J. Geophys. Res.*, **123**, 698–710, [10.1002/2017JA024744](https://doi.org/10.1002/2017JA024744).
- [166] Lakhina, G. S., S. V. Singh, R. Rubia, and T. Sreeraj (2018), A review of nonlinear fluid models for ion-and electron-acoustic solitons and double layers: Application to weak double layers and electrostatic solitary waves in the solar wind and the lunar wake, *Phys. Plasmas*, **25**(8), 080501, [10.1063/1.5033498](https://doi.org/10.1063/1.5033498).
- [167] Lamy, L., R. Prangé, C. Tao, T. Kim, S. V. Badman, P. Zarka, B. Cecconi, W. S. Kurth, W. Pryor, E. Bunce, and A. Radioti (2018), Saturn's Northern Aurorae at Solstice From HST Observations Coordinated With Cassini's Grand Finale, *Geophys. Res. Lett.*, **45**, 9353–9362, [10.1029/2018GL078211](https://doi.org/10.1029/2018GL078211).
- [168] Lario, D., L. Berger, L. B. Wilson, III, R. B. Decker, D. K. Haggerty, E. C. Roelof, R. F. Wimmer-Schweingruber, and J. Giacalone (2018), Flat Proton Spectra in Large Solar Energetic Particle Events, in *Journal of Physics Conference Series*, *J. Phys. Conf. Ser.*, vol. 1100, p. 012014, [10.1088/1742-6596/1100/1/012014](https://doi.org/10.1088/1742-6596/1100/1/012014).
- [169] Laurenza, M., T. Alberti, and E. W. Cliver (2018), A Short-term ESPERTA-based Forecast Tool for Moderate-to-extreme Solar Proton Events, *Astrophys. J.*, **857**, 107, [10.3847/1538-4357/aab712](https://doi.org/10.3847/1538-4357/aab712).
- [170] Lavraud, B., C. Jacquy, T. Achilli, S. A. Fuselier, E. Grigorenko, T. D. Phan, M. Øieroset, J. McFadden, and V. Angelopoulos (2018), Concomitant Double Ion and Electron Populations in the Earth's Magnetopause Boundary Layers From Double Reconnection With Lobe and Closed Field Lines, *J. Geophys. Res.*, **123**(7), 5407–5419, [10.1029/2017JA025152](https://doi.org/10.1029/2017JA025152).
- [171] Lee, J.-O., K.-S. Cho, R.-S. Kim, S. Jang, and K. Marubashi (2018), Effects of Geometries and Substructures of ICMEs on Geomagnetic Storms, *Solar Phys.*, **293**, 129, [10.1007/s11207-018-1344-z](https://doi.org/10.1007/s11207-018-1344-z).
- [172] Lepping, R. P., C.-C. Wu, D. B. Berdichevsky, and A. Szabo (2018), Wind Magnetic Clouds for the Period 2013 - 2015: Model Fitting, Types, Associated Shock Waves, and Comparisons to Other Periods, *Solar Phys.*, **293**, 65, [10.1007/s11207-018-1273-x](https://doi.org/10.1007/s11207-018-1273-x).
- [173] Lepping, R. P., C.-C. Wu, D. B. Berdichevsky, and C. Kay (2018), Magnetic Field Magnitude Modification for a Force-free Magnetic Cloud Model, *Solar Phys.*, **293**, 162, [10.1007/s11207-018-1383-5](https://doi.org/10.1007/s11207-018-1383-5).



**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [174] Lethy, A., M. A. El-Eraki, A. Samy, and H. A. Deebes (2018), Prediction of the Dst Index and Analysis of Its Dependence on Solar Wind Parameters Using Neural Network, *Space Weather*, **16**, 1277–1290, [10.1029/2018SW001863](https://doi.org/10.1029/2018SW001863).
- [175] Li, C., X. Feng, C. Xiang, M. Zhang, H. Li, and F. Wei (2018), Solar Coronal Modeling by Path-conservative HLLEM Riemann Solver, *Astrophys. J.*, **867**, 42, [10.3847/1538-4357/aae200](https://doi.org/10.3847/1538-4357/aae200).
- [176] Li, K., Y. Wei, S. Haaland, E. A. Kronberg, Z. J. Rong, L. Maes, R. Maggiolo, M. André, H. Nilsson, and E. Grigorenko (2018), Estimating the Kinetic Energy Budget of the Polar Wind Outflow, *J. Geophys. Res.*, **123**, 7917–7929, [10.1029/2018JA025819](https://doi.org/10.1029/2018JA025819).
- [177] Li, X., Y. Wang, R. Liu, C. Shen, Q. Zhang, B. Zhuang, J. Liu, and Y. Chi (2018), Reconstructing Solar Wind Inhomogeneous Structures From Stereoscopic Observations in White Light: Small Transients Along the Sun-Earth Line, *J. Geophys. Res.*, **123**, 7257–7270, [10.1029/2018JA025485](https://doi.org/10.1029/2018JA025485).
- [178] Li, Y., J. G. Luhmann, and B. J. Lynch (2018), Magnetic Clouds: Solar Cycle Dependence, Sources, and Geomagnetic Impacts, *Solar Phys.*, **293**, 135, [10.1007/s11207-018-1356-8](https://doi.org/10.1007/s11207-018-1356-8).
- [179] Lin, P. H., Y. H. Yang, J. K. Chao, H. Q. Feng, and J. Y. Liu (2018), Understanding Magnetic Cloud Structure From Shock/Discontinuity Analysis, *J. Geophys. Res.*, **123**, 6130–6147, [10.1029/2018JA025225](https://doi.org/10.1029/2018JA025225).
- [180] Ling, Y., Q. Shi, X.-C. Shen, A. Tian, W. Li, B. Tang, A. W. Degeling, H. Hasegawa, M. Nowada, H. Zhang, I. J. Rae, Q.-G. Zong, S. Fu, A. N. Fazakerley, and Z. Pu (2018), Observations of Kelvin-Helmholtz Waves in the Earth’s Magnetotail Near the Lunar Orbit, *J. Geophys. Res.*, **123**(5), 3836–3847, [10.1029/2018JA025183](https://doi.org/10.1029/2018JA025183).
- [181] Liou, K., and D. G. Sibeck (2018), Dawn-Dusk Auroral Oval Oscillations Associated With High-Speed Solar Wind, *J. Geophys. Res.*, **123**(1), 600–610, [10.1002/2017JA024527](https://doi.org/10.1002/2017JA024527).
- [182] Liou, K., T. Sotirelis, and I. Richardson (2018), Substorm Occurrence and Intensity Associated With Three Types of Solar Wind Structure, *J. Geophys. Res.*, **123**, 485–496, [10.1002/2017JA024451](https://doi.org/10.1002/2017JA024451).
- [183] Liu, H.-F., L. Yang, C.-J. Tang, Y. Luo, X. Zhang, and Y.-H. Xu (2018), Alfvénic turbulence driven temperature anisotropies of thermal non-equilibrium ions, *Europhys. Lett.*, **123**, 65,004, [10.1209/0295-5075/123/65004](https://doi.org/10.1209/0295-5075/123/65004).
- [184] Liu, J., L. R. Lyons, W. E. Archer, B. Gallardo-Lacourt, Y. Nishimura, Y. Zou, C. Gabrielse, and J. M. Weygand (2018), Flow Shears at the Poleward Boundary of Omega Bands Observed During Conjunctions of Swarm and THEMIS ASI, *Geophys. Res. Lett.*, **45**(3), 1218–1227, [10.1002/2017GL076485](https://doi.org/10.1002/2017GL076485).
- [185] Liu, M., Y. D. Liu, Z. Yang, L. B. Wilson, III, and H. Hu (2018), Kinetic Properties of an Interplanetary Shock Propagating inside a Coronal Mass Ejection, *Astrophys. J. Lett.*, **859**, L4, [10.3847/2041-8213/aac269](https://doi.org/10.3847/2041-8213/aac269).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [186] Liu, T. Z., S. Lu, V. Angelopoulos, Y. Lin, and X. Y. Wang (2018), Ion Acceleration Inside Foreshock Transients, *J. Geophys. Res.*, **123**, 163–178, [10.1002/2017JA024838](https://doi.org/10.1002/2017JA024838).
- [187] Liu, Y., L. Fu, J. Wang, and C. Zhang (2018), Studying Ionosphere Responses to a Geomagnetic Storm in June 2015 with Multi-Constellation Observations, *Remote Sensing*, **10**, 666, [10.3390/rs10050666](https://doi.org/10.3390/rs10050666).
- [188] Liu, Y. A., Y. D. Liu, H. Hu, R. Wang, and X. Zhao (2018), Multi-spacecraft Observations of the Rotation and Nonradial Motion of a CME Flux Rope Causing an Intense Geomagnetic Storm, *Astrophys. J.*, **854**(2), 126, [10.3847/1538-4357/aaa959](https://doi.org/10.3847/1538-4357/aaa959).
- [189] Liu, Z. (2018), Foreshock Transients: Their Characteristics and Effects on Particle Acceleration, Ph.D. thesis, University of California, Los Angeles.
- [190] Livadiotis, G. (2018), Long-Term Independence of Solar Wind Polytopic Index on Plasma Flow Speed, *Entropy*, **20**, 799, [10.3390/e20100799](https://doi.org/10.3390/e20100799).
- [191] Livadiotis, G. (2018), Thermodynamic origin of kappa distributions, *Europhys. Lett.*, **122**, 50,001, [10.1209/0295-5075/122/50001](https://doi.org/10.1209/0295-5075/122/50001).
- [192] Livadiotis, G., M. I. Desai, and L. B. Wilson, III (2018), Generation of Kappa Distributions in Solar Wind at 1 au, *Astrophys. J.*, **853**, 142, [10.3847/1538-4357/aaa713](https://doi.org/10.3847/1538-4357/aaa713).
- [193] Lodkina, I. G., Y. I. Yermolaev, M. Y. Yermolaev, and M. O. Riazantseva (2018), Some Problems of Identifying Types of Large-Scale Solar Wind and Their Role in the Physics of the Magnetosphere: 2, *Cosmic Res.*, **56**, 331–342, [10.1134/S0010952518050052](https://doi.org/10.1134/S0010952518050052).
- [194] Lotti, S., T. Mineo, C. Jacquy, M. Laurenza, V. Fioretti, G. Minervini, G. Santin, S. Molendi, T. Alberti, P. Dondero, A. Mantero, V. Ivanchenko, C. Macculi, and L. Piro (2018), Soft proton flux on ATHENA focal plane and its impact on the magnetic diverter design, *Exper. Astron.*, **45**, 411–428, [10.1007/s10686-018-9599-9](https://doi.org/10.1007/s10686-018-9599-9).
- [195] Lugaz, N., C. J. Farrugia, R. M. Winslow, N. Al-Haddad, A. B. Galvin, T. Nieves-Chinchilla, C. O. Lee, and M. Janvier (2018), On the Spatial Coherence of Magnetic Ejecta: Measurements of Coronal Mass Ejections by Multiple Spacecraft Longitudinally Separated by 0.01 au, *Astrophys. J. Lett.*, **864**, L7, [10.3847/2041-8213/aad9f4](https://doi.org/10.3847/2041-8213/aad9f4).
- [196] Lund, E. J., N. Nowrouzi, L. M. Kistler, X. Cai, and H. U. Frey (2018), On the Role of Ionospheric Ions in Sawtooth Events, *J. Geophys. Res.*, **123**(1), 665–684, [10.1002/2017JA024378](https://doi.org/10.1002/2017JA024378).
- [197] Lyons, L. R., B. Gallardo-Lacourt, Y. Zou, Y. Nishimura, P. Anderson, V. Angelopoulos, E. F. Donovan, J. M. Ruohoniemi, E. Mitchell, L. J. Paxton, and N. Nishitani (2018), Driving of strong nightside reconnection and geomagnetic activity by polar cap flows: Application to CME shocks and possibly other situations, *J. Atmos. Solar-Terr. Phys.*, **177**, 73–83, [10.1016/j.jastp.2017.09.013](https://doi.org/10.1016/j.jastp.2017.09.013).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [198] Lysenko, A. L., A. T. Altyntsev, N. S. Meshalkina, D. Zhdanov, and G. D. Fleishman (2018), Statistics of “Cold” Early Impulsive Solar Flares in X-Ray and Microwave Domains, *Astrophys. J.*, **856**, 111, [10.3847/1538-4357/aab271](https://doi.org/10.3847/1538-4357/aab271).
- [199] MacNeice, P. (2018), On the Need to Automate Support for Quality Assessment Studies of Space Weather Models, *Space Weather*, **16**, 1627–1634, [10.1029/2018SW002039](https://doi.org/10.1029/2018SW002039).
- [200] MacNeice, P., L. K. Jian, S. K. Antiochos, C. N. Arge, C. D. Bussy-Virat, M. L. DeRosa, B. V. Jackson, J. A. Linker, Z. Mikic, M. J. Owens, A. J. Ridley, P. Riley, N. Savani, and I. Sokolov (2018), Assessing the Quality of Models of the Ambient Solar Wind, *Space Weather*, **16**, 1644–1667, [10.1029/2018SW002040](https://doi.org/10.1029/2018SW002040).
- [201] Maj, R., and I. H. Cairns (2018), Dust Detection via Voltage Power Spectroscopy on a CubeSat in Earth’s Ionosphere, *J. Geophys. Res.*, **123**, 7871–7888, [10.1029/2018JA025546](https://doi.org/10.1029/2018JA025546).
- [202] Mäkelä, P., N. Gopalswamy, and S. Akiyama (2018), Direction-finding Analysis of the 2012 July 6 Type II Solar Radio Burst at Low Frequencies, *Astrophys. J.*, **867**, 40, [10.3847/1538-4357/aae2b6](https://doi.org/10.3847/1538-4357/aae2b6).
- [203] Malandraki, O. E., and N. B. Crosby (2018), Solar Energetic Particles and Space Weather: Science and Applications, in *Solar Particle Radiation Storms Forecasting and Analysis, Astrophysics and Space Science Library*, vol. 444, edited by O. E. Malandraki and N. B. Crosby, pp. 1–26, [10.1007/978-3-319-60051-2\\_1](https://doi.org/10.1007/978-3-319-60051-2_1).
- [204] Maneva, Y. G., and S. Poedts (2018), Generation and evolution of anisotropic turbulence and related energy transfer in drifting proton-alpha plasmas, *Astron. & Astrophys.*, **613**, A10, [10.1051/0004-6361/201731204](https://doi.org/10.1051/0004-6361/201731204).
- [205] Mann, G., F. Breitling, C. Vocks, H. Aurass, M. Steinmetz, K. G. Strassmeier, M. M. Bisi, R. A. Fallows, P. Gallagher, A. Kerdraon, A. Mackinnon, J. Magdalenic, H. Rucker, J. Anderson, A. Asgekar, I. M. Avruich, M. E. Bell, M. J. Bentum, G. Bernardi, P. Best, L. Bîrzan, A. Bonafede, J. W. Broderick, M. Brüggen, H. R. Butcher, B. Ciardi, A. Corstanje, F. de Gasperin, E. de Geus, A. Deller, S. Duscha, J. Eislöffel, D. Engels, H. Falcke, R. Fender, C. Ferrari, W. Frieswijk, M. A. Garrett, J. Grießmeier, A. W. Gunst, M. van Haarlem, T. E. Hassall, G. Heald, J. W. T. Hessels, M. Hoeft, J. Hörandel, A. Horneffer, E. Juette, A. Karastergiou, W. F. A. Klijn, V. I. Kondratiev, M. Kramer, M. Kuniyoshi, G. Kuper, P. Maat, S. Markoff, R. McFadden, D. McKay-Bukowski, J. P. McKean, D. D. Mulcahy, H. Munk, A. Nelles, M. J. Norden, E. Orru, H. Paas, M. Pandey-Pommier, V. N. Pandey, R. Pizzo, A. G. Polatidis, D. Rafferty, W. Reich, H. Röttgering, A. M. M. Scaife, D. J. Schwarz, M. Serylak, J. Sluman, O. Smirnov, B. W. Stappers, M. Tagger, Y. Tang, C. Tasse, S. ter Veen, S. Thoudam, M. C. Toribio, R. Vermeulen, R. J. van Weeren, M. W. Wise, O. Wucknitz, S. Yatawatta, P. Zarka, and J. A. Zensus (2018), Tracking of an electron beam through the solar corona with LOFAR, *Astron. & Astrophys.*, **611**, A57, [10.1051/0004-6361/201629017](https://doi.org/10.1051/0004-6361/201629017).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [206] Manninen, J., N. Kleimenova, T. Turunen, and L. Gromova (2018), New high-frequency (7-12 kHz) quasi-periodic VLF emissions observed on the ground at  $L \sim 5.5$ , *Ann. Geophys.*, **36**, 915–923, [10.5194/angeo-36-915-2018](https://doi.org/10.5194/angeo-36-915-2018).
- [207] Manoharan, P. K., K. Mahalakshmi, A. Johri, B. V. Jackson, D. Ravikumar, K. Kalyanasundaram, S. P. Subramanian, and A. K. Mittal (2018), Current State of Reduced Solar Activity: Intense Geomagnetic Storms, *Sun and Geosphere*, **13**, 135–143, [10.31401/Sun-Geo.2018.02.03](https://doi.org/10.31401/Sun-Geo.2018.02.03).
- [208] Markovskii, S. A., B. D. G. Chandran, and B. J. Vasquez (2018), Two-dimensional Non-linear Simulations of Temperature-anisotropy Instabilities with a Proton-alpha Drift, *Astrophys. J.*, **856**, 153, [10.3847/1538-4357/aab60a](https://doi.org/10.3847/1538-4357/aab60a).
- [209] Marques de Souza, A., E. Echer, M. José Alves Bolzan, and R. Hajra (2018), Cross-correlation and cross-wavelet analyses of the solar wind IMF  $B_z$  and auroral electrojet index AE coupling during HILDCAAs, *Ann. Geophys.*, **36**, 205–211, [10.5194/angeo-36-205-2018](https://doi.org/10.5194/angeo-36-205-2018).
- [210] McComas, D. J., M. A. Dayeh, H. O. Funsten, J. Heerikhuisen, P. H. Janzen, D. B. Reisenfeld, N. A. Schwadron, J. R. Szalay, and E. J. Zirnstein (2018), Heliosphere Responds to a Large Solar Wind Intensification: Decisive Observations from IBEX, *Astrophys. J. Lett.*, **856**, L10, [10.3847/2041-8213/aab611](https://doi.org/10.3847/2041-8213/aab611).
- [211] McKenna-Lawlor, S., B. Jackson, and D. Odstrcil (2018), Space weather at planet Venus during the forthcoming BepiColombo flybys, *Planet. Space Sci.*, **152**, 176–185, [10.1016/j.pss.2017.10.001](https://doi.org/10.1016/j.pss.2017.10.001).
- [212] Milan, S. E., J. A. Carter, H. Sangha, K. M. Laundal, N. Østgaard, P. Tenfjord, J. P. Reistad, K. Snekvik, J. C. Coxon, H. Korth, and B. J. Anderson (2018), Timescales of Dayside and Nightside Field-Aligned Current Response to Changes in Solar Wind-Magnetosphere Coupling, *J. Geophys. Res.*, **123**, 7307–7319, [10.1029/2018JA025645](https://doi.org/10.1029/2018JA025645).
- [213] Minasyants, G., T. Minasyants, and V. Tomozov (2018), Fe/O ratio behavior as an indicator of solar plasma state at different solar activity manifestations and in periods of their absence, *Solar-Terr. Phys.*, **4**(1), 29–50, [10.12737/stp-41201804](https://doi.org/10.12737/stp-41201804).
- [214] Miteva, R., S. W. Samwel, and M. V. Costa-Duarte (2018), The Wind/EPACT Proton Event Catalog (1996 - 2016), *Solar Phys.*, **293**, 27, [10.1007/s11207-018-1241-5](https://doi.org/10.1007/s11207-018-1241-5).
- [215] Miteva, R., S. W. Samwel, and M. V. Costa-Duarte (2018), Solar energetic particle catalogs: Assumptions, uncertainties and validity of reports, *J. Atmos. Solar-Terr. Phys.*, **180**, 26–34, [10.1016/j.jastp.2017.05.003](https://doi.org/10.1016/j.jastp.2017.05.003).
- [216] Moloto, K. D., N. E. Engelbrecht, and R. A. Burger (2018), A Simplified Ab Initio Cosmic-ray Modulation Model with Simulated Time Dependence and Predictive Capability, *Astrophys. J.*, **859**, 107, [10.3847/1538-4357/aac174](https://doi.org/10.3847/1538-4357/aac174).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [217] Moretto, T., M. Hesse, S. Vennerstrøm, and P. Tenfjord (2018), Estimating the Rate of Cessation of Magnetospheric Activity in AMPERE Field-Aligned Currents, *Geophys. Res. Lett.*, **45**, 12,713–12,719, [10.1029/2018GL080631](https://doi.org/10.1029/2018GL080631).
- [218] Morgachev, A. S., Y. T. Tsap, V. V. Smirnova, and G. G. Motorina (2018), Simulation of Subterahertz Emission from the April 2, 2017 Solar Flare Based on the Multiwavelength Observations, *Geomag. and Aeron.*, **58**, 1113–1122, [10.1134/S001679321808011X](https://doi.org/10.1134/S001679321808011X).
- [219] Morley, S. K., D. T. Welling, and J. R. Woodroffe (2018), Perturbed Input Ensemble Modeling With the Space Weather Modeling Framework, *Space Weather*, **16**, 1330–1347, [10.1029/2018SW002000](https://doi.org/10.1029/2018SW002000).
- [220] Möstl, C., T. Amerstorfer, E. Palmerio, A. Isavnin, C. J. Farrugia, C. Lowder, R. M. Winslow, J. M. Donnerer, E. K. J. Kilpua, and P. D. Boakes (2018), Forward Modeling of Coronal Mass Ejection Flux Ropes in the Inner Heliosphere with 3DCORE, *Space Weather*, **16**(3), 216–229, [10.1002/2017SW001735](https://doi.org/10.1002/2017SW001735).
- [221] Munini, R., M. Boezio, A. Bruno, E. C. Christian, G. A. de Nolfo, V. Di Felice, M. Martucci, M. Merge', I. G. Richardson, J. M. Ryan, S. Stochaj, O. Adriani, G. C. Barbarino, G. A. Bazilevskaya, R. Bellotti, M. Bongi, V. Bonvicini, S. Bottai, F. Cafagna, D. Campana, P. Carlson, M. Casolino, G. Castellini, C. De Santis, A. M. Galper, A. V. Karelin, S. V. Koldashov, S. Koldobskiy, S. Y. Krutkov, A. N. Kvashnin, A. Leonov, V. Malakhov, L. Marcelli, A. G. Mayorov, W. Menn, V. V. Mikhailov, E. Mocchiutti, A. Monaco, N. Mori, G. Osteria, B. Panico, P. Papini, M. Pearce, P. Picozza, M. Ricci, S. B. Ricciarini, M. Simon, R. Sparvoli, P. Spillantini, Y. I. Stozhkov, A. Vacchi, E. Vannuccini, G. Vasilyev, S. A. Voronov, Y. T. Yurkin, G. Zampa, N. Zampa, and M. S. Potgieter (2018), Evidence of Energy and Charge Sign Dependence of the Recovery Time for the 2006 December Forbush Event Measured by the PAMELA Experiment, *Astrophys. J.*, **853**, 76, [10.3847/1538-4357/aaa0c8](https://doi.org/10.3847/1538-4357/aaa0c8).
- [222] Nieves-Chinchilla, T. (2018), Modeling Heliospheric Flux Ropes: A Comparative Study of Physical Quantities, *IEEE Trans. Plasma Sci.*, **46**, 2370–2377, [10.1109/TPS.2018.2811400](https://doi.org/10.1109/TPS.2018.2811400).
- [223] Nieves-Chinchilla, T., A. Vourlidas, J. C. Raymond, M. G. Linton, N. Al-haddad, N. P. Savani, A. Szabo, and M. A. Hidalgo (2018), Understanding the Internal Magnetic Field Configurations of ICMEs Using More than 20 Years of Wind Observations, *Solar Phys.*, **293**, 25, [10.1007/s11207-018-1247-z](https://doi.org/10.1007/s11207-018-1247-z).
- [224] Nieves-Chinchilla, T., M. G. Linton, M. A. Hidalgo, and A. Vourlidas (2018), Elliptic-cylindrical Analytical Flux Rope Model for Magnetic Clouds, *Astrophys. J.*, **861**, 139, [10.3847/1538-4357/aac951](https://doi.org/10.3847/1538-4357/aac951).
- [225] Nizamov, B. A., I. V. Zimovets, D. V. Golovin, A. B. Sanin, M. L. Litvak, V. I. Tretyakov, I. G. Mitrofanov, and A. S. Kozyrev (2018), New estimation of non-thermal electron energetics in the giant solar flare on 28 October 2003 based on Mars Odyssey observations, *J. Atmos. Solar-Terr. Phys.*, **179**, 484–493, [10.1016/j.jastp.2018.08.004](https://doi.org/10.1016/j.jastp.2018.08.004).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [226] Ogasawara, K., F. Allegrini, M. I. Desai, R. W. Ebert, S. A. Fuselier, J.-M. Jahn, S. A. Livi, and D. J. McComas (2018), A double-cusp type electrostatic analyzer for high-cadence solar-wind suprathermal ion observations, *Rev. Sci. Inst.*, **89**(11), 114503, [10.1063/1.5030123](https://doi.org/10.1063/1.5030123).
- [227] Ohtani, S., J. W. Gjerloev, B. J. Anderson, R. Kataoka, O. Troshichev, and S. Watari (2018), Dawnside Wedge Current System Formed During Intense Geomagnetic Storms, *J. Geophys. Res.*, **123**, 9093–9109, [10.1029/2018JA025678](https://doi.org/10.1029/2018JA025678).
- [228] Oimatsu, S., M. Nosé, M. Teramoto, K. Yamamoto, A. Matsuoka, S. Kasahara, S. Yokota, K. Keika, G. Le, R. Nomura, A. Fujimoto, D. Sormakov, O. Troshichev, Y.-M. Tanaka, M. Shinohara, I. Shinohara, Y. Miyoshi, J. A. Slavin, R. E. Ergun, and P.-A. Lindqvist (2018), Drift-Bounce Resonance Between Pc5 Pulsations and Ions at Multiple Energies in the Nightside Magnetosphere: Arase and MMS Observations, *Geophys. Res. Lett.*, **45**, 7277–7286, [10.1029/2018GL078961](https://doi.org/10.1029/2018GL078961).
- [229] Oka, M., J. Birn, M. Battaglia, C. C. Chaston, S. M. Hatch, G. Livadiotis, S. Imada, Y. Miyoshi, M. Kuhar, F. Effenberger, E. Eriksson, Y. V. Khotyaintsev, and A. Retinò (2018), Electron Power-Law Spectra in Solar and Space Plasmas, *Space Sci. Rev.*, **214**, 82, [10.1007/s11214-018-0515-4](https://doi.org/10.1007/s11214-018-0515-4).
- [230] Oliveira, D. M., and A. A. Samsonov (2018), Geoeffectiveness of interplanetary shocks controlled by impact angles: A review, *Adv. Space Res.*, **61**, 1–44, [10.1016/j.asr.2017.10.006](https://doi.org/10.1016/j.asr.2017.10.006).
- [231] Orger, N. C., J. R. Cordova Alarcon, K. Toyoda, and M. Cho (2018), Lunar dust lofting due to surface electric field and charging within Micro-cavities between dust grains above the terminator region, *Adv. Space Res.*, **62**, 896–911, [10.1016/j.asr.2018.05.027](https://doi.org/10.1016/j.asr.2018.05.027).
- [232] Orsolini, Y. J., C. Smith-Johnsen, D. R. Marsh, F. Stordal, C. J. Rodger, P. T. Verronen, and M. A. Clilverd (2018), Mesospheric Nitric Acid Enhancements During Energetic Electron Precipitation Events Simulated by WACCM-D, *J. Geophys. Res.*, **123**, 6984–6998, [10.1029/2017JD028211](https://doi.org/10.1029/2017JD028211).
- [233] Osherovich, V. A., and J. Fainberg (2018), Nonlinear theory for axisymmetric self-similar two-dimensional oscillations of electrons in cold plasma with constant proton background, *Phys. Plasmas*, **25**(1), 012115, [10.1063/1.5020888](https://doi.org/10.1063/1.5020888).
- [234] Owens, M. J. (2018), Time-Window Approaches to Space-Weather Forecast Metrics: A Solar Wind Case Study, *Space Weather*, **16**, 1847–1861, [10.1029/2018SW002059](https://doi.org/10.1029/2018SW002059).
- [235] Owens, M. J., M. Lockwood, P. Riley, and L. Barnard (2018), Long-term variations in the heliosphere, in *IAU Symposium*, *IAU Symposium*, vol. 340, edited by D. Banerjee, J. Jiang, K. Kusano, and S. Solanki, pp. 108–114, [10.1017/S1743921318000972](https://doi.org/10.1017/S1743921318000972).
- [236] Ozturk, D. S., S. Zou, A. J. Ridley, and J. A. Slavin (2018), Modeling Study of the Geospace System Response to the Solar Wind Dynamic Pressure Enhancement on 17 March 2015, *J. Geophys. Res.*, **123**(4), 2974–2989, [10.1002/2017JA025099](https://doi.org/10.1002/2017JA025099).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [237] Paassilta, M., A. Papaioannou, N. Dresing, R. Vainio, E. Valtonen, and B. Heber (2018), Catalogue of >55 MeV Wide-longitude Solar Proton Events Observed by SOHO, ACE, and the STEREOs at  $\approx 1$  AU During 2009 - 2016, *Solar Phys.*, **293**, 70, [10.1007/s11207-018-1284-7](https://doi.org/10.1007/s11207-018-1284-7).
- [238] Palmerio, E., E. K. J. Kilpua, C. Möstl, V. Bothmer, A. W. James, L. M. Green, A. Isavnin, J. A. Davies, and R. A. Harrison (2018), Coronal Magnetic Structure of Earthbound CMEs and In Situ Comparison, *Space Weather*, **16**, 442–460, [10.1002/2017SW001767](https://doi.org/10.1002/2017SW001767).
- [239] Palmroth, M., H. Hietala, F. Plaschke, M. Archer, T. Karlsson, X. Blanco-Cano, D. Sibeck, P. Kajdič, U. Ganse, Y. Pfau-Kempf, M. Battarbee, and L. Turc (2018), Magnetosheath jet properties and evolution as determined by a global hybrid-Vlasov simulation, *Ann. Geophys.*, **36**, 1171–1182, [10.5194/angeo-36-1171-2018](https://doi.org/10.5194/angeo-36-1171-2018).
- [240] Pandya, M., B. Veenadhari, M. Nosé, S. Kumar, G. D. Reeves, and A. T. Y. Lui (2018), Characteristics of storm time ion composition in the near-Earth plasma sheet using Geotail and RBSP measurements, *Earth, Planets, and Space*, **70**, 203, [10.1186/s40623-018-0977-3](https://doi.org/10.1186/s40623-018-0977-3).
- [241] Panov, E. V., and P. L. Pritchett (2018), Dawnward Drifting Interchange Heads in the Earth’s Magnetotail, *Geophys. Res. Lett.*, **45**, 8834–8843, [10.1029/2018GL078482](https://doi.org/10.1029/2018GL078482).
- [242] Parkhomov, V. A., N. L. Borodkova, V. G. Eselevich, M. V. Eselevich, A. V. Dmitriev, and V. E. Chilikin (2018), Solar wind diamagnetic structures as a source of substorm-like disturbances, *J. Atmos. Solar-Terr. Phys.*, **181**, 55–67, [10.1016/j.jastp.2018.10.010](https://doi.org/10.1016/j.jastp.2018.10.010).
- [243] Parrot, M. (2018), DEMETER observations of manmade waves that propagate in the ionosphere, *Comptes Rendus Physique*, **19**, 26–35, [10.1016/j.crhy.2018.02.001](https://doi.org/10.1016/j.crhy.2018.02.001).
- [244] Perez, J. D., J. Edmond, S. Hill, H. Xu, N. Buzulukova, M.-C. Fok, J. Goldstein, D. J. McComas, and P. Valek (2018), Dynamics of a geomagnetic storm on 7-10 September 2015 as observed by TWINS and simulated by CIMI, *Ann. Geophys.*, **36**, 1439–1456, [10.5194/angeo-36-1439-2018](https://doi.org/10.5194/angeo-36-1439-2018).
- [245] Pilipenko, V. A., O. V. Kozyreva, D. A. Lorentzen, and L. J. Baddeley (2018), The correspondence between dayside long-period geomagnetic pulsations and the open-closed field line boundary, *J. Atmos. Solar-Terr. Phys.*, **170**, 64–74, [10.1016/j.jastp.2018.02.012](https://doi.org/10.1016/j.jastp.2018.02.012).
- [246] Pinto, V. A., J. Bortnik, P. S. Moya, L. R. Lyons, D. G. Sibeck, S. G. Kanekal, H. E. Spence, and D. N. Baker (2018), Characteristics, Occurrence, and Decay Rates of Remnant Belts Associated With Three-Belt Events in the Earth’s Radiation Belts, *Geophys. Res. Lett.*, **45**, 12,099–12,107, [10.1029/2018GL080274](https://doi.org/10.1029/2018GL080274).
- [247] Plaschke, F., and H. Hietala (2018), Plasma flow patterns in and around magnetosheath jets, *Ann. Geophys.*, **36**, 695–703, [10.5194/angeo-36-695-2018](https://doi.org/10.5194/angeo-36-695-2018).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [248] Plaschke, F., H. Hietala, M. Archer, X. Blanco-Cano, P. Kajdič, T. Karlsson, S. H. Lee, N. Omid, M. Palmroth, V. Roytershteyn, D. Schmid, V. Sergeev, and D. Sibeck (2018), Jets Downstream of Collisionless Shocks, *Space Sci. Rev.*, **214**, 81, [10.1007/s11214-018-0516-3](https://doi.org/10.1007/s11214-018-0516-3).
- [249] Podladchikova, T., A. Petrukovich, and Y. Yermolaev (2018), Geomagnetic storm forecasting service StormFocus: 5 years online, *J. Space Weather Space Clim.*, **8**(27), A22, [10.1051/swsc/2018017](https://doi.org/10.1051/swsc/2018017).
- [250] Pomoell, J., and S. Poedts (2018), EUHFORIA: European heliospheric forecasting information asset, *J. Space Weather Space Clim.*, **8**(27), A35, [10.1051/swsc/2018020](https://doi.org/10.1051/swsc/2018020).
- [251] Potapov, A. S. (2018), Current and high- $\beta$  sheets in CIR streams: statistics and interaction with the HCS and the magnetosphere, *Astrophys. Space Sci.*, **363**, 81, [10.1007/s10509-018-3304-3](https://doi.org/10.1007/s10509-018-3304-3).
- [252] Potapov, A. S., T. N. Polyushkina, and A. V. Guglielmi (2018), Troitskaya-Bolshakova effect as a manifestation of the solar wind wave turbulence, *Planet. Space Sci.*, **151**, 78–84, [10.1016/j.pss.2017.11.008](https://doi.org/10.1016/j.pss.2017.11.008).
- [253] Prikryl, P., R. Bruntz, T. Tsukijihara, K. Iwao, D. B. Muldrew, V. Rušin, M. Rybanský, M. Turňa, and P. Šťastný (2018), Tropospheric weather influenced by solar wind through atmospheric vertical coupling downward control, *J. Atmos. Solar-Terr. Phys.*, **171**, 94–110, [10.1016/j.jastp.2017.07.023](https://doi.org/10.1016/j.jastp.2017.07.023).
- [254] Priyadarshi, S., Q.-H. Zhang, and Y.-Z. Ma (2018), Antarctica SED/TOI associated ionospheric scintillation during 27 February 2014 geomagnetic storm, *Astrophys. Space Sci.*, **363**, 262, [10.1007/s10509-018-3484-x](https://doi.org/10.1007/s10509-018-3484-x).
- [255] Raghav, A. N., and A. Kule (2018), The first in situ observation of torsional Alfvén waves during the interaction of large-scale magnetic clouds, *Mon. Not. Roy. Astron. Soc.*, **476**, L6–L9, [10.1093/mnrasl/sly020](https://doi.org/10.1093/mnrasl/sly020).
- [256] Raghav, A. N., and A. Kule (2018), Does the Alfvén wave disrupt the large-scale magnetic cloud structure?, *Mon. Not. Roy. Astron. Soc.*, **480**, L6–L11, [10.1093/mnrasl/sly106](https://doi.org/10.1093/mnrasl/sly106).
- [257] Raghav, A. N., A. Kule, A. Bhaskar, W. Mishra, G. Vichare, and S. Surve (2018), Torsional Alfvén Wave Embedded ICME Magnetic Cloud and Corresponding Geomagnetic Storm, *Astrophys. J.*, **860**, 26, [10.3847/1538-4357/aabba3](https://doi.org/10.3847/1538-4357/aabba3).
- [258] Ragot, B. R. (2018), Flow-line Wandering in the Turbulent Solar Wind and Space Environment Forecasts, *Astrophys. J.*, **868**, 35, [10.3847/1538-4357/aae47e](https://doi.org/10.3847/1538-4357/aae47e).
- [259] Rakhmanova, L., M. Riazantseva, G. Zastenker, and M. Verigin (2018), Kinetic-Scale Ion Flux Fluctuations Behind the Quasi-Parallel and Quasi-Perpendicular Bow Shock, *J. Geophys. Res.*, **123**(7), 5300–5314, [10.1029/2018JA025179](https://doi.org/10.1029/2018JA025179).
- [260] Reames, D. V. (2018), Corotating Shock Waves and the Solar-wind Source of Energetic Ion Abundances: Power Laws in A/Q, *Solar Phys.*, **293**, 144, [10.1007/s11207-018-1369-3](https://doi.org/10.1007/s11207-018-1369-3).



**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [261] Reames, D. V. (2018), Abundances, Ionization States, Temperatures, and FIP in Solar Energetic Particles, *Space Sci. Rev.*, **214**, 61, [10.1007/s11214-018-0495-4](https://doi.org/10.1007/s11214-018-0495-4).
- [262] Reames, D. V. (2018), The “FIP Effect” and the Origins of Solar Energetic Particles and of the Solar Wind, *Solar Phys.*, **293**(3), 47, [10.1007/s11207-018-1267-8](https://doi.org/10.1007/s11207-018-1267-8).
- [263] Redmon, R. J., D. B. Seaton, R. Steenburgh, J. He, and J. V. Rodriguez (2018), September 2017’s Geoeffective Space Weather and Impacts to Caribbean Radio Communications During Hurricane Response, *Space Weather*, **16**(9), 1190–1201, [10.1029/2018SW001897](https://doi.org/10.1029/2018SW001897).
- [264] Reidy, J. A., R. C. Fear, D. K. Whiter, B. Lanchester, A. J. Kavanagh, S. E. Milan, J. A. Carter, L. J. Paxton, and Y. Zhang (2018), Interhemispheric Survey of Polar Cap Aurora, *J. Geophys. Res.*, **123**, 7283–7306, [10.1029/2017JA025153](https://doi.org/10.1029/2017JA025153).
- [265] Ren, Z., M. Guo, Y. Cheng, Y. Wang, W. Sun, H. Zhang, M. Dong, and G. Li (2018), A review of the development and application of space miniature mass spectrometers, *Vacuum*, **155**, 108–117, [10.1016/j.vacuum.2018.05.048](https://doi.org/10.1016/j.vacuum.2018.05.048).
- [266] Richardson, I. G., M. L. Mays, and B. J. Thompson (2018), Prediction of Solar Energetic Particle Event Peak Proton Intensity Using a Simple Algorithm Based on CME Speed and Direction and Observations of Associated Solar Phenomena, *Space Weather*, **16**, 1862–1881, [10.1029/2018SW002032](https://doi.org/10.1029/2018SW002032).
- [267] Roberg-Clark, G. T., J. F. Drake, M. Swisdak, and C. S. Reynolds (2018), Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems, *Astrophys. J.*, **867**, 154, [10.3847/1538-4357/aae393](https://doi.org/10.3847/1538-4357/aae393).
- [268] Rodkin, D., V. Slemzin, A. N. Zhukov, F. Goryaev, Y. Shugay, and I. Veselovsky (2018), Single ICMEs and Complex Transient Structures in the Solar Wind in 2010 - 2011, *Solar Phys.*, **293**, 78, [10.1007/s11207-018-1295-4](https://doi.org/10.1007/s11207-018-1295-4).
- [269] Ruhunusiri, S. (2018), Identification of Plasma Waves at Saturn Using Convolutional Neural Networks, *IEEE Trans. Plasma Sci.*, **46**, 3090–3099, [10.1109/TPS.2018.2849940](https://doi.org/10.1109/TPS.2018.2849940).
- [270] Saiz, E., C. Cid, and A. Guerrero (2018), Environmental Conditions During the Reported Charging Anomalies of the Two Geosynchronous Satellites: Telstar 401 and Galaxy 15, *Space Weather*, **16**(11), 1784–1796, [10.1029/2018SW001974](https://doi.org/10.1029/2018SW001974).
- [271] Salman, T. M., N. Lugaz, C. J. Farrugia, R. M. Winslow, A. B. Galvin, and N. A. Schwadron (2018), Forecasting Periods of Strong Southward Magnetic Field Following Interplanetary Shocks, *Space Weather*, **16**(12), 2004–2021, [10.1029/2018SW002056](https://doi.org/10.1029/2018SW002056).
- [272] Sánchez-Cano, B., O. Witasse, M. Lester, A. Rahmati, R. Ambrosi, R. Lillis, F. Leblanc, P.-L. Blelly, M. Costa, S. W. H. Cowley, J. R. Espley, S. E. Milan, J. J. Plaut, C. Lee, and D. Larson (2018), Energetic Particle Showers Over Mars from Comet C/2013 A1 Siding Spring, *J. Geophys. Res.*, **123**, 8778–8796, [10.1029/2018JA025454](https://doi.org/10.1029/2018JA025454).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [273] Santhosh, K. G., S. Gopinath, and P. R. Prince (2018), A study on universality, non-extensivity and Lévy statistics of solar wind turbulence, in *IAU Symposium, IAU Symposium*, vol. 340, edited by D. Banerjee, J. Jiang, K. Kusano, and S. Solanki, pp. 65–66, [10.1017/S1743921318001618](https://doi.org/10.1017/S1743921318001618).
- [274] Schiller, Q., S. G. Kanekal, A. J. Boyd, L. Blum, A. D. Jones, D. N. Baker, and J. B. Blake (2018), On the cause of two prompt shock-induced relativistic electron depletion events, *J. Atmos. Solar-Terr. Phys.*, **177**, 208–217, [10.1016/j.jastp.2017.08.017](https://doi.org/10.1016/j.jastp.2017.08.017).
- [275] Schwadron, N. A., and M. Bzowski (2018), The Heliosphere Is Not Round, *Astrophys. J.*, **862**, 11, [10.3847/1538-4357/aacbcf](https://doi.org/10.3847/1538-4357/aacbcf).
- [276] Schwadron, N. A., F. Allegrini, M. Bzowski, E. R. Christian, M. A. Dayeh, M. I. Desai, K. Fairchild, P. C. Frisch, H. O. Funsten, S. A. Fuselier, A. Galli, P. Janzen, M. A. Kubiak, D. J. McComas, E. Moebius, D. B. Reisenfeld, J. M. Sokół, P. Swaczyna, J. R. Szalay, P. Wurz, and E. J. Zirnstein (2018), Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations, *Astrophys. J. Suppl.*, **239**, 1, [10.3847/1538-4365/aae48e](https://doi.org/10.3847/1538-4365/aae48e).
- [277] Schwartz, S. J., L. Avanov, D. Turner, H. Zhang, I. Gingell, J. P. Eastwood, D. J. Gershman, A. Johlander, C. T. Russell, J. L. Burch, J. C. Dorelli, S. Eriksson, R. E. Ergun, S. A. Fuselier, B. L. Giles, K. A. Goodrich, Y. V. Khotyaintsev, B. Lavraud, P.-A. Lindqvist, M. Oka, T.-D. Phan, R. J. Strangeway, K. J. Trattner, R. B. Torbert, A. Vaivads, H. Wei, and F. Wilder (2018), Ion Kinetics in a Hot Flow Anomaly: MMS Observations, *Geophys. Res. Lett.*, **45**, 11,520–11,529, [10.1029/2018GL080189](https://doi.org/10.1029/2018GL080189).
- [278] Scolini, C., M. Messerotti, S. Poedts, and L. Rodriguez (2018), Halo Coronal Mass Ejections during Solar Cycle 24: reconstruction of the global scenario and geoeffectiveness, *J. Space Weather Space Clim.*, **8**(27), A9, [10.1051/swsc/2017046](https://doi.org/10.1051/swsc/2017046).
- [279] Seki, K., Y. Miyoshi, Y. Ebihara, Y. Katoh, T. Amano, S. Saito, M. Shoji, A. Nakamizo, K. Keika, T. Hori, S. Nakano, S. Watanabe, K. Kamiya, N. Takahashi, Y. Omura, M. Nose, M.-C. Fok, T. Tanaka, A. Ieda, and A. Yoshikawa (2018), Theory, modeling, and integrated studies in the Arase (ERG) project, *Earth, Planets, and Space*, **70**, 17, [10.1186/s40623-018-0785-9](https://doi.org/10.1186/s40623-018-0785-9).
- [280] Semkova, J., R. Koleva, V. Benghin, T. Dachev, Y. Matviichuk, B. Tomov, K. Krastev, S. Maltchev, P. Dimitrov, I. Mitrofanov, A. Malahov, D. Golovin, M. Mokrousov, A. Sanin, M. Litvak, A. Kozyrev, V. Tretyakov, S. Nikiforov, A. Vostrukhin, F. Fedosov, N. Grebennikova, L. Zelenyi, V. Shurshakov, and S. Drobishev (2018), Charged particles radiation measurements with Liulin-MO dosimeter of FRENDA instrument aboard ExoMars Trace Gas Orbiter during the transit and in high elliptic Mars orbit, *Icarus*, **303**, 53–66, [10.1016/j.icarus.2017.12.034](https://doi.org/10.1016/j.icarus.2017.12.034).
- [281] Sergeev, V., N. Stepanov, Y. Ogawa, S. Käki, and K. Kauristie (2018), Solar wind dependence of electric conductances and currents in the auroral zone, *J. Atmos. Solar-Terr. Phys.*, **177**, 38–45, [10.1016/j.jastp.2017.07.006](https://doi.org/10.1016/j.jastp.2017.07.006).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [282] Sha, X. M., A. M. Du, H. Luo, Y. S. Ge, and Y. Zhang (2018), Dependence of the Spring-Autumnal asymmetry in geomagnetic activity on the solar main dipole magnetic field polarity over last 140 years, *Planet. Space Sci.*, **158**, 1–5, [10.1016/j.pss.2018.05.014](https://doi.org/10.1016/j.pss.2018.05.014).
- [283] Shah, A., S. u. Rehman, and Q. u. Haque (2018), Plasma Waves and Particles during Multi-dip Storms Invoked by Turbulent Solar Wind, *Astrophys. J.*, **869**, 144, [10.3847/1538-4357/aaeb9a](https://doi.org/10.3847/1538-4357/aaeb9a).
- [284] Shaikh, Z. I., A. N. Raghav, G. Vichare, A. Bhaskar, and W. Mishra (2018), The Identification of a Planar Magnetic Structure within the ICME Shock Sheath and Its influence on Galactic Cosmic-Ray Flux, *Astrophys. J.*, **866**(2), 118, [10.3847/1538-4357/aae1b1](https://doi.org/10.3847/1538-4357/aae1b1).
- [285] Shanmugaraju, A., K. Suresh, V. Vasanth, G. Selvarani, and S. Umapathy (2018), Interplanetary type II radio bursts and their association with CMEs and flares, *Astrophys. Space Sci.*, **363**, 126, [10.1007/s10509-018-3345-7](https://doi.org/10.1007/s10509-018-3345-7).
- [286] Share, G. H., R. J. Murphy, S. M. White, A. K. Tolbert, B. R. Dennis, R. A. Schwartz, D. F. Smart, and M. A. Shea (2018), Characteristics of Late-phase >100 MeV Gamma-Ray Emission in Solar Eruptive Events, *Astrophys. J.*, **869**, 182, [10.3847/1538-4357/aaebf7](https://doi.org/10.3847/1538-4357/aaebf7).
- [287] Sharykin, I. N., and A. G. Kosovichev (2018), Onset of Photospheric Impacts and Helioseismic Waves in X9.3 Solar Flare of 2017 September 6, *Astrophys. J.*, **864**, 86, [10.3847/1538-4357/aad558](https://doi.org/10.3847/1538-4357/aad558).
- [288] Sharykin, I. N., and A. G. Kosovichev (2018), Onset of Photospheric Impacts and Helioseismic Waves in X9.3 Solar Flare of 2017 September 6, *Astrophys. J.*, **864**, 86, [10.3847/1538-4357/aad558](https://doi.org/10.3847/1538-4357/aad558).
- [289] Shen, F., Z. Yang, J. Zhang, W. Wei, and X. Feng (2018), Three-dimensional MHD Simulation of Solar Wind Using a New Boundary Treatment: Comparison with In Situ Data at Earth, *Astrophys. J.*, **866**, 18, [10.3847/1538-4357/aad806](https://doi.org/10.3847/1538-4357/aad806).
- [290] Shen, Z.-N., and G. Qin (2018), Modulation of Galactic Cosmic Rays in the Inner Heliosphere over Solar Cycles, *Astrophys. J.*, **854**, 137, [10.3847/1538-4357/aaab64](https://doi.org/10.3847/1538-4357/aaab64).
- [291] Sheshagiriappa Suryanarayana, G. (2018), Flares before and after coronal mass ejections, *Res. Astron. Astrophys.*, **18**(3), 034, [10.1088/1674-4527/18/3/34](https://doi.org/10.1088/1674-4527/18/3/34).
- [292] Shi, X., J. B. H. Baker, J. M. Ruohoniemi, M. D. Hartinger, K. R. Murphy, J. V. Rodriguez, Y. Nishimura, K. A. McWilliams, and V. Angelopoulos (2018), Long-Lasting Poloidal ULF Waves Observed by Multiple Satellites and High-Latitude SuperDARN Radars, *J. Geophys. Res.*, **123**, 8422–8438, [10.1029/2018JA026003](https://doi.org/10.1029/2018JA026003).
- [293] Shim, J. S., I. Tsagouri, L. Goncharenko, L. Rastaetter, M. Kuznetsova, D. Bilitza, M. Codrescu, A. J. Coster, S. C. Solomon, M. Fedrizzi, M. Förster, T. J. Fuller-Rowell, L. C. Gardner, J. Huba, A. A. Namgaladze, B. E. Prokhorov, A. J. Ridley, L. Scherliess, R. W. Schunk, J. J. Sojka, and L. Zhu (2018), Validation of Ionospheric Specifications

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event, *Space Weather*, **16**, 1686–1701, [10.1029/2018SW002034](https://doi.org/10.1029/2018SW002034).
- [294] Shinbori, A., Y. Otsuka, T. Tsugawa, M. Nishioka, A. Kumamoto, F. Tsuchiya, S. Matsuda, Y. Kasahara, A. Matsuoka, J. M. Ruohoniemi, S. G. Shepherd, and N. Nishitani (2018), Temporal and Spatial Variations of Storm Time Midlatitude Ionospheric Trough Based on Global GNSS-TEC and Arase Satellite Observations, *Geophys. Res. Lett.*, **45**, 7362–7370, [10.1029/2018GL078723](https://doi.org/10.1029/2018GL078723).
- [295] Shiokawa, K., M. Ozaki, A. Kadokura, Y. Endo, T. Sakanoi, S. Kurita, Y. Miyoshi, S.-I. Oyama, M. Connors, I. Schofield, J. M. Ruohoniemi, M. Noše, T. Nagatsuma, K. Sakaguchi, D. G. Baishev, A. Pashinin, R. Rakhmatulin, B. Shevtsov, I. Poddelsky, M. Engebretson, T. Raita, Y.-M. Tanaka, M. Shinohara, M. Teramoto, R. Nomura, A. Fujimoto, A. Matsuoka, N. Higashio, T. Takashima, I. Shinohara, and J. M. Albert (2018), Purple Auroral Rays and Global Pc1 Pulsations Observed at the CIR-Associated Solar Wind Density Enhancement on 21 March 2017, *Geophys. Res. Lett.*, **45**, 10,819–10,828, [10.1029/2018GL079103](https://doi.org/10.1029/2018GL079103).
- [296] 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 (2018), 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, [10.1016/j.jastp.2017.10.014](https://doi.org/10.1016/j.jastp.2017.10.014).
- [297] Shugay, Y., V. Slemzin, D. Rodkin, Y. Yermolaev, and I. Veselovsky (2018), Influence of coronal mass ejections on parameters of high-speed solar wind: a case study, *J. Space Weather Space Clim.*, **8**(27), A28, [10.1051/swsc/2018015](https://doi.org/10.1051/swsc/2018015).
- [298] Shukhtina, M. A., E. I. Gordeev, V. A. Sergeev, and I. Shinohara (2018), Diagnostics of Closed Magnetic Flux Depletion in the Near-Earth Magnetotail During the Substorm Growth Phase, *J. Geophys. Res.*, **123**, 8377–8389, [10.1029/2018JA025979](https://doi.org/10.1029/2018JA025979).
- [299] Sibeck, D. G., R. Allen, H. Aryan, D. Bodewits, P. Brandt, G. Branduardi-Raymont, G. Brown, J. A. Carter, Y. M. Collado-Vega, M. R. Collier, H. K. Connor, T. E. Cravens, Y. Ezoe, M.-C. Fok, M. Galeazzi, O. Gutynska, M. Holmström, S.-Y. Hsieh, K. Ishikawa, D. Koutroumpa, K. D. Kuntz, M. Leutenegger, Y. Miyoshi, F. S. Porter, M. E. Purucker, A. M. Read, J. Raeder, I. P. Robertson, A. A. Samsonov, S. Sembay, S. L. Snowden, N. E. Thomas, R. von Steiger, B. M. Walsh, and S. Wing (2018), Imaging Plasma Density Structures in the Soft X-Rays Generated by Solar Wind Charge Exchange with Neutrals, *Space Sci. Rev.*, **214**, 79, [10.1007/s11214-018-0504-7](https://doi.org/10.1007/s11214-018-0504-7).
- [300] Sieradzki, R., and J. Paziewski (2018), On the Feasibility of Interhemispheric Patch Detection Using Ground-Based GNSS Measurements, *Remote Sensing*, **10**, 2044, [10.3390/rs10122044](https://doi.org/10.3390/rs10122044).
- [301] Søråas, F., M. I. Sandanger, and C. Smith-Johnsen (2018), NOAA POES and MetOp particle observations during the 17 March 2013 storm, *J. Atmos. Solar-Terr. Phys.*, **177**, 115–124, [10.1016/j.jastp.2017.09.004](https://doi.org/10.1016/j.jastp.2017.09.004).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [302] Sripathi, S., M. A. Abdu, A. K. Patra, and R. N. Ghodpage (2018), Unusual Generation of Localized EPB in the Dawn Sector Triggered by a Moderate Geomagnetic Storm, *J. Geophys. Res.*, **123**, 9697–9710, [10.1029/2018JA025642](https://doi.org/10.1029/2018JA025642).
- [303] Srivastava, N., W. Mishra, and D. Chakrabarty (2018), Interplanetary and Geomagnetic Consequences of Interacting CMEs of 13 - 14 June 2012, *Solar Phys.*, **293**, 5, [10.1007/s11207-017-1227-8](https://doi.org/10.1007/s11207-017-1227-8).
- [304] Stauning, P. (2018), Multi-station basis for Polar Cap (PC) indices: ensuring credibility and operational reliability, *J. Space Weather Space Clim.*, **8**(27), A07, [10.1051/swsc/2017036](https://doi.org/10.1051/swsc/2017036).
- [305] Stauning, P. (2018), Reliable real-time Polar Cap (PC) indices for space weather monitoring and forecasts, *J. Space Weather Space Clim.*, **8**(27), A49, [10.1051/swsc/2018031](https://doi.org/10.1051/swsc/2018031).
- [306] Su, Z., N. Liu, H. Zheng, Y. Wang, and S. Wang (2018), Large-Amplitude Extremely Low Frequency Hiss Waves in Plasmaspheric Plumes, *Geophys. Res. Lett.*, **45**, 565–577, [10.1002/2017GL076754](https://doi.org/10.1002/2017GL076754).
- [307] Su, Z., N. Liu, H. Zheng, Y. Wang, and S. Wang (2018), Multipoint Observations of Nightside Plasmaspheric Hiss Generated by Substorm-Injected Electrons, *Geophys. Res. Lett.*, **45**, 10,921–10,932, [10.1029/2018GL079927](https://doi.org/10.1029/2018GL079927).
- [308] Suji, K. J., and P. R. Prince (2018), Global and local Joule heating during substorms in St. Patrick's Day 2015 geomagnetic storm, *Earth, Planets, and Space*, **70**, 167, [10.1186/s40623-018-0940-3](https://doi.org/10.1186/s40623-018-0940-3).
- [309] Suji, K. J., and P. R. Prince (2018), Superposed Epoch Analysis of High Latitude Ionospheric Joule Heating during Major Geomagnetic Storms over three Solar Cycles, in *IAU Symposium, IAU Symposium*, vol. 340, edited by D. Banerjee, J. Jiang, K. Kusano, and S. Solanki, pp. 67–68, [10.1017/S1743921318001941](https://doi.org/10.1017/S1743921318001941).
- [310] Sun, W. J., J. A. Slavin, R. M. Dewey, J. M. Raines, S. Y. Fu, Y. Wei, T. Karlsson, G. K. Poh, X. Jia, D. J. Gershman, Q. G. Zong, W. X. Wan, Q. Q. Shi, Z. Y. Pu, and D. Zhao (2018), A Comparative Study of the Proton Properties of Magnetospheric Substorms at Earth and Mercury in the Near Magnetotail, *Geophys. Res. Lett.*, **45**, 7933–7941, [10.1029/2018GL079181](https://doi.org/10.1029/2018GL079181).
- [311] Suresh, K., A. Shanmugaraju, and Y.-J. Moon (2018), Distinction in the Interplanetary Characteristics of Accelerated and Decelerated CMEs/Shocks, *Earth Moon and Planets*, [10.1007/s11038-018-9522-4](https://doi.org/10.1007/s11038-018-9522-4).
- [312] Svertilov, S. I., M. I. Panasyuk, V. V. Bogomolov, A. M. Amelushkin, V. O. Barinova, V. I. Galkin, A. F. Iyudin, E. A. Kuznetsova, A. V. Prokhorov, V. L. Petrov, G. V. Rozhkov, I. V. Yashin, E. S. Gorbovskoy, V. M. Lipunov, I. H. Park, S. Jeong, and M. B. Kim (2018), Wide-Field Gamma-Spectrometer BDRG: GRB Monitor On-Board the Lomonosov Mission, *Space Sci. Rev.*, **214**, 8, [10.1007/s11214-017-0442-9](https://doi.org/10.1007/s11214-017-0442-9).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [313] Talebpour Sheshvan, N., and S. Pohjolainen (2018), Visibility and Origin of Compact Interplanetary Radio Type IV Bursts, *Solar Phys.*, **293**, 148, [10.1007/s11207-018-1371-9](https://doi.org/10.1007/s11207-018-1371-9).
- [314] Tan, L. C. (2018), Electron Spectral Breaking Caused by Magnetic Reconnection in Impulsive Flare Events, *Astrophys. J.*, **858**, 25, [10.3847/1538-4357/aaba7e](https://doi.org/10.3847/1538-4357/aaba7e).
- [315] Tang, B., W. Li, C. Wang, L. Dai, Y. Khotyaintsev, P.-A. Lindqvist, R. Ergun, O. Le Contel, C. Pollock, C. Russell, and J. Burch (2018), Magnetic depression and electron transport in an ion-scale flux rope associated with Kelvin-Helmholtz waves, *Ann. Geophys.*, **36**, 879–889, [10.5194/angeo-36-879-2018](https://doi.org/10.5194/angeo-36-879-2018).
- [316] Tao, C., T. Kimura, F. Tsuchiya, G. Muirakami, K. Yoshioka, A. Yamazaki, S. V. Badman, H. Misawa, H. Kita, Y. Kasaba, I. Yoshikawa, and M. Fujimoto (2018), Variation of Jupiter’s Aurora Observed by Hisaki/EXCEED: 3. Volcanic Control of Jupiter’s Aurora, *Geophys. Res. Lett.*, **45**, 71–79, [10.1002/2017GL075814](https://doi.org/10.1002/2017GL075814).
- [317] Tasnim, S., I. H. Cairns, and M. S. Wheatland (2018), A Generalized Equatorial Model for the Accelerating Solar Wind, *J. Geophys. Res.*, **123**, 1061–1085, [10.1002/2017JA024532](https://doi.org/10.1002/2017JA024532).
- [318] Tindale, E., S. C. Chapman, N. R. Moloney, and N. W. Watkins (2018), The Dependence of Solar Wind Burst Size on Burst Duration and Its Invariance Across Solar Cycles 23 and 24, *J. Geophys. Res.*, **123**, 7196–7210, [10.1029/2018JA025740](https://doi.org/10.1029/2018JA025740).
- [319] Tong, Y., I. Y. Vasko, M. Pulupa, F. S. Mozer, S. D. Bale, A. V. Artemyev, and V. Krasnoselskikh (2019), Whistler Wave Generation by Halo Electrons in the Solar Wind, *Astrophys. J. Lett.*, **870**, L6, [10.3847/2041-8213/aaf734](https://doi.org/10.3847/2041-8213/aaf734).
- [320] Török, T., C. Downs, J. A. Linker, R. Lionello, V. S. Titov, Z. Mikić, P. Riley, R. M. Caplan, and J. Wijaya (2018), Sun-to-Earth MHD Simulation of the 2000 July 14 “Bastille Day” Eruption, *Astrophys. J.*, **856**, 75, [10.3847/1538-4357/aab36d](https://doi.org/10.3847/1538-4357/aab36d).
- [321] Tortempun, U., D. Ruffolo, and J. W. Bieber (2018), Galactic Cosmic-Ray Anisotropy During the Forbush Decrease Starting 2013 April 13, *Astrophys. J. Lett.*, **852**, L26, [10.3847/2041-8213/aaa407](https://doi.org/10.3847/2041-8213/aaa407).
- [322] Townsend, L. W., J. H. Adams, S. R. Blattnig, M. S. Cloudsley, D. J. Fry, I. Jun, C. D. McLeod, J. I. Minow, D. F. Moore, J. W. Norbury, R. B. Norman, D. V. Reames, N. A. Schwadron, E. J. Semones, R. C. Singleterry, T. C. Slaba, C. M. Werneth, and M. A. Xapsos (2018), Solar particle event storm shelter requirements for missions beyond low Earth orbit, *Life Sciences and Space Research*, **17**, 32–39, [10.1016/j.lssr.2018.02.002](https://doi.org/10.1016/j.lssr.2018.02.002).
- [323] Trattner, K. J., J. L. Burch, P. A. Cassak, R. Ergun, S. Eriksson, S. A. Fuselier, B. L. Giles, R. G. Gomez, E. W. Grimes, S. M. Petriner, J. M. Webster, and F. D. Wilder (2018), The Transition Between Antiparallel and Component Magnetic Reconnection at Earth’s Dayside Magnetopause, *J. Geophys. Res.*, **123**(12), 10,177–10,188, [10.1029/2018JA026081](https://doi.org/10.1029/2018JA026081).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [324] Tsap, Y. T., I. N. Myagkova, Y. G. Kopylova, G. G. Motorina, A. V. Bogomolov, T. B. Gol'dvarg, M. I. Panasyuk, S. I. Svertilov, V. V. Bogomolov, I. V. Yashin, and V. L. Petrov (2018), Electron Acceleration and Subsecond Time Delays of Hard X-Rays of Solar Flares According to Lomonosov Satellite Data, *Cosmic Res.*, **56**, 420–425, [10.1134/S0010952518060096](https://doi.org/10.1134/S0010952518060096).
- [325] Tsurutani, B. T., S. A. Park, B. J. Falkowski, G. S. Lakhina, J. S. Pickett, J. Bortnik, G. Hospodarsky, O. Santolik, M. Parrot, P. Henri, and R. Hajra (2018), Plasmaspheric Hiss: Coherent and Intense, *J. Geophys. Res.*, **123**(12), 10,009–10,029, [10.1029/2018JA025975](https://doi.org/10.1029/2018JA025975).
- [326] Tsvetkov, T., and N. Petrov (2018), Three case studies of height-time profiles of prominence eruptions observed by AIA and LASCO, *J. Atmos. Solar-Terr. Phys.*, **177**, 29–37, [10.1016/j.jastp.2018.05.013](https://doi.org/10.1016/j.jastp.2018.05.013).
- [327] Tsyganenko, N. A., and V. A. Andreeva (2018), Empirical Modeling of Dayside Magnetic Structures Associated With Polar Cusps, *J. Geophys. Res.*, **123**, 9078–9092, [10.1029/2018JA025881](https://doi.org/10.1029/2018JA025881).
- [328] Turner, D. L., L. B. Wilson, T. Z. Liu, I. J. Cohen, S. J. Schwartz, A. Osmane, J. F. Fennell, J. H. Clemmons, J. B. Blake, J. Westlake, B. H. Mauk, A. N. Jaynes, T. Leonard, D. N. Baker, R. J. Strangeway, C. T. Russell, D. J. Gershman, L. Avanov, B. L. Giles, R. B. Torbert, J. Broll, R. G. Gomez, S. A. Fuselier, and J. L. Burch (2018), Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock, *Nature*, **561**, 206–210, [10.1038/s41586-018-0472-9](https://doi.org/10.1038/s41586-018-0472-9).
- [329] Ulrich, R. K., P. Riley, and T. Tran (2018), Solar Sources of Interplanetary Magnetic Clouds Leading to Helicity Prediction, *Space Weather*, **16**, 1668–1685, [10.1029/2018SW001912](https://doi.org/10.1029/2018SW001912).
- [330] Usanova, M. E., N. Ahmadi, D. M. Malaspina, R. E. Ergun, K. J. Trattner, Q. Reece, T. Leonard, S. A. Fuselier, R. B. Torbert, C. T. Russell, and J. L. Burch (2018), MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves, *Geophys. Res. Lett.*, **45**, 8764–8772, [10.1029/2018GL079006](https://doi.org/10.1029/2018GL079006).
- [331] Vafin, S., M. Lazar, H. Fichtner, R. Schlickeiser, and M. Drillisch (2018), Solar wind temperature anisotropy constraints from streaming instabilities, *Astron. & Astrophys.*, **613**, A23, [10.1051/0004-6361/201731852](https://doi.org/10.1051/0004-6361/201731852).
- [332] Vasquez, B. J., S. A. Markovskii, and C. W. Smith (2018), The Turbulence Magnetic Helicity Signature in the Interplanetary Medium: A Blackman-Tukey and Morlet Wavelet Analysis, *Astrophys. J.*, **855**, 121, [10.3847/1538-4357/aaad0d](https://doi.org/10.3847/1538-4357/aaad0d).
- [333] Vech, D., A. Mallet, K. G. Klein, and J. C. Kasper (2018), Magnetic Reconnection May Control the Ion-scale Spectral Break of Solar Wind Turbulence, *Astrophys. J. Lett.*, **855**, L27, [10.3847/2041-8213/aab351](https://doi.org/10.3847/2041-8213/aab351).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [334] Vech, D., K. G. Klein, and J. C. Kasper (2018), Large-scale Control of Kinetic Dissipation in the Solar Wind, *Astrophys. J. Lett.*, **863**(1), L4, [10.3847/2041-8213/aad329](https://doi.org/10.3847/2041-8213/aad329).
- [335] Venzmer, M. S., and V. Bothmer (2018), Solar-wind predictions for the Parker Solar Probe orbit. Near-Sun extrapolations derived from an empirical solar-wind model based on Helios and OMNI observations, *Astron. & Astrophys.*, **611**, A36, [10.1051/0004-6361/201731831](https://doi.org/10.1051/0004-6361/201731831).
- [336] Verdini, A., R. Grappin, O. Alexandrova, and S. Lion (2018), 3D Anisotropy of Solar Wind Turbulence, Tubes, or Ribbons?, *Astrophys. J.*, **853**, 85, [10.3847/1538-4357/aaa433](https://doi.org/10.3847/1538-4357/aaa433).
- [337] Verdini, A., R. Grappin, O. Alexandrova, and S. Lion (2018), Erratum: “3D Anisotropy of Solar Wind Turbulence, Tubes, or Ribbons?”, *Astrophys. J.*, **867**, 168, [10.3847/1538-4357/aae821](https://doi.org/10.3847/1538-4357/aae821).
- [338] Volwerk, M., C. Goetz, I. Richter, M. Delva, K. Ostaszewski, K. Schwingenschuh, and K.-H. Glassmeier (2018), A tail like no other. The RPC-MAG view of Rosetta’s tail excursion at comet 67P/Churyumov-Gerasimenko, *Astron. & Astrophys.*, **614**, A10, [10.1051/0004-6361/201732198](https://doi.org/10.1051/0004-6361/201732198).
- [339] Vorobjev, V. G., E. E. Antonova, and O. I. Yagodkina (2018), How the intensity of isolated substorms is controlled by the solar wind parameters, *Earth, Planets, and Space*, **70**, 148, [10.1186/s40623-018-0922-5](https://doi.org/10.1186/s40623-018-0922-5).
- [340] Vorobjev, V. G., O. I. Yagodkina, E. E. Antonova, and V. L. Zverev (2018), Influence of Solar Wind Plasma Parameters on the Intensity of Isolated Magnetospheric Substorms, *Geomag. and Aeron.*, **58**, 295–306, [10.1134/S0016793218030155](https://doi.org/10.1134/S0016793218030155).
- [341] Wang, C.-P., T. Z. Liu, X. Xing, and A. Masson (2018), Multispacecraft Observations of Tailward Propagation of Transient Foreshock Perturbations to Midtail Magnetosheath, *J. Geophys. Res.*, **123**, 9381–9394, [10.1029/2018JA025921](https://doi.org/10.1029/2018JA025921).
- [342] Wang, J., Q. Liu, and Y. Zhao (2018), Magnetic Disconnections at the Boundary of a Small Interplanetary Magnetic Flux Rope Associated with a Reconnection Exhaust, *Solar Phys.*, **293**, 116, [10.1007/s11207-018-1335-0](https://doi.org/10.1007/s11207-018-1335-0).
- [343] Wang, J. M., H. Q. Feng, and G. Q. Zhao (2018), Observations of a Small Interplanetary Magnetic Flux Rope Opening by Interchange Reconnection, *Astrophys. J.*, **853**, 94, [10.3847/1538-4357/aaa131](https://doi.org/10.3847/1538-4357/aaa131).
- [344] Wang, M., J. Y. Lu, K. Kabin, H. Z. Yuan, Z. Q. Liu, J. S. Zhao, and G. Li (2018), The Influence of IMF  $B_y$  on the Bow Shock: Observation Result, *J. Geophys. Res.*, **123**(3), 1915–1926, [10.1002/2017JA024750](https://doi.org/10.1002/2017JA024750).
- [345] Wang, R., Y. D. Liu, H. Hu, and X. Zhao (2018), A Solar Eruption with Relatively Strong Geoeffectiveness Originating from Active Region Peripheral Diffusive Polarities, *Astrophys. J.*, **863**(1), 81, [10.3847/1538-4357/aad22d](https://doi.org/10.3847/1538-4357/aad22d).



**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [346] Wang, X., C.-Y. Tu, J.-S. He, and L.-H. Wang (2018), Ion-Scale Spectral Break in the Normal Plasma Beta Range in the Solar Wind Turbulence, *J. Geophys. Res.*, **123**, 68–75, [10.1002/2017JA024813](https://doi.org/10.1002/2017JA024813).
- [347] Wang, X., C.-Y. Tu, J.-S. He, L.-H. Wang, S. Yao, and L. Zhang (2018), Possible Noise Nature of Elsässer Variable  $z^-$  in Highly Alfvénic Solar Wind Fluctuations, *J. Geophys. Res.*, **123**, 57–67, [10.1002/2017JA024743](https://doi.org/10.1002/2017JA024743).
- [348] Wang, X., C. Tu, J. He, and L. Wang (2018), On the Full-range  $\beta$  Dependence of Ion-scale Spectral Break in the Solar Wind Turbulence, *Astrophys. J.*, **857**, 136, [10.3847/1538-4357/aab960](https://doi.org/10.3847/1538-4357/aab960).
- [349] Wang, Y., C. Shen, R. Liu, J. Liu, J. Guo, X. Li, M. Xu, Q. Hu, and T. Zhang (2018), Understanding the Twist Distribution Inside Magnetic Flux Ropes by Anatomizing an Interplanetary Magnetic Cloud, *J. Geophys. Res.*, **123**, 3238–3261, [10.1002/2017JA024971](https://doi.org/10.1002/2017JA024971).
- [350] Wang, Z., J. Guo, X. Feng, C. Liu, H. Huang, H. Lin, C. Tan, Y. Yan, and W. Wan (2018), The Merging of Two Stream Interaction Regions within 1 au: The Possible Role of Magnetic Reconnection, *Astrophys. J. Lett.*, **869**, L6, [10.3847/2041-8213/aaf398](https://doi.org/10.3847/2041-8213/aaf398).
- [351] Watari, S. (2018), Intense Geomagnetic Storms Associated with Coronal Holes Under the Weak Solar-Wind Conditions of Cycle 24, *Solar Phys.*, **293**, 23, [10.1007/s11207-018-1248-y](https://doi.org/10.1007/s11207-018-1248-y).
- [352] Wei, L., Q. Zhong, R. Lin, J. Wang, S. Liu, and Y. Cao (2018), Quantitative Prediction of High-Energy Electron Integral Flux at Geostationary Orbit Based on Deep Learning, *Space Weather*, **16**, 903–916, [10.1029/2018SW001829](https://doi.org/10.1029/2018SW001829).
- [353] Welling, D. T., C. M. Ngwira, H. Opgenoorth, J. D. Haiducek, N. P. Savani, S. K. Morley, C. Cid, R. S. Weigel, J. M. Weygand, J. R. Woodroffe, H. J. Singer, L. Rosenqvist, and M. W. Liemohn (2018), Recommendations for Next-Generation Ground Magnetic Perturbation Validation, *Space Weather*, **16**, 1912–1920, [10.1029/2018SW002064](https://doi.org/10.1029/2018SW002064).
- [354] Wharton, S. J., D. M. Wright, T. K. Yeoman, M. K. James, and J. K. Sandhu (2018), Cross-Phase Determination of Ultralow Frequency Wave Harmonic Frequencies and Their Associated Plasma Mass Density Distributions, *J. Geophys. Res.*, **123**, 6231–6250, [10.1029/2018JA025487](https://doi.org/10.1029/2018JA025487).
- [355] Wilson, L. B., III, M. L. Stevens, J. C. Kasper, K. G. Klein, B. A. Maruca, S. D. Bale, T. A. Bowen, M. P. Pulupa, and C. S. Salem (2018), The Statistical Properties of Solar Wind Temperature Parameters Near 1 au, *Astrophys. J. Suppl.*, **236**, 41, [10.3847/1538-4365/aab71c](https://doi.org/10.3847/1538-4365/aab71c).
- [356] Winslow, R. M., N. A. Schwadron, N. Lugaz, J. Guo, C. J. Joyce, A. P. Jordan, J. K. Wilson, H. E. Spence, D. J. Lawrence, R. F. Wimmer-Schweingruber, and M. L. Mays (2018), Opening a Window on ICME-driven GCR Modulation in the Inner Solar System, *Astrophys. J.*, **856**(2), 139, [10.3847/1538-4357/aab098](https://doi.org/10.3847/1538-4357/aab098).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [357] Winter, L. M., V. Bernstein, N. Omodei, and M. Pesce-Rollins (2018), A Statistical Study to Determine the Origin of Long-duration Gamma-Ray Flares, *Astrophys. J.*, **864**, 39, [10.3847/1538-4357/aad3c0](https://doi.org/10.3847/1538-4357/aad3c0).
- [358] Woodham, L. D., R. T. Wicks, D. Verscharen, and C. J. Owen (2018), The Role of Proton Cyclotron Resonance as a Dissipation Mechanism in Solar Wind Turbulence: A Statistical Study at Ion-kinetic Scales, *Astrophys. J.*, **856**, 49, [10.3847/1538-4357/aab03d](https://doi.org/10.3847/1538-4357/aab03d).
- [359] Wu, S.-S., and G. Qin (2018), Model of Energy Spectrum Parameters of Ground Level Enhancement Events in Solar Cycle 23, *J. Geophys. Res.*, **123**, 76–92, [10.1002/2017JA024638](https://doi.org/10.1002/2017JA024638).
- [360] Xiang, N. B., and Z. N. Qu (2018), Evolutionary Characteristics of the Interplanetary Magnetic Field Intensity, *Astron. J.*, **156**, 152, [10.3847/1538-3881/aadb91](https://doi.org/10.3847/1538-3881/aadb91).
- [361] Yadav, V. K., N. Srivastava, S. S. Ghosh, P. T. Srikar, and K. Subhalakshmi (2018), Science objectives of the magnetic field experiment onboard Aditya-L1 spacecraft, *Adv. Space Res.*, **61**, 749–758, [10.1016/j.asr.2017.11.008](https://doi.org/10.1016/j.asr.2017.11.008).
- [362] Yakymenko, K. N., A. V. Koustov, and R. A. D. Fiori (2018), Interhemispheric Asymmetry of the Sunward Plasma Flows for Strongly Dominant IMF  $B_Z > 0$ , *J. Geophys. Res.*, **123**, 315–325, [10.1002/2017JA024644](https://doi.org/10.1002/2017JA024644).
- [363] Yang, L., L. Wang, G. Li, R. F. Wimmer-Schweingruber, J. He, C. Tu, H. Tian, and S. D. Bale (2018), The Strongest Acceleration of  $>40$  keV Electrons by ICME-driven Shocks at 1 au, *Astrophys. J.*, **853**, 89, [10.3847/1538-4357/aaa245](https://doi.org/10.3847/1538-4357/aaa245).
- [364] Yang, Y., F. Shen, Z. Yang, and X. Feng (2018), Prediction of Solar Wind Speed at 1 AU Using an Artificial Neural Network, *Space Weather*, **16**, 1227–1244, [10.1029/2018SW001955](https://doi.org/10.1029/2018SW001955).
- [365] Yang, Z., F. Shen, J. Zhang, Y. Yang, X. Feng, and I. G. Richardson (2018), Correlation Between the Magnetic Field and Plasma Parameters at 1 AU, *Solar Phys.*, **293**, 24, [10.1007/s11207-017-1238-5](https://doi.org/10.1007/s11207-017-1238-5).
- [366] Yeates, A. R., T. Amari, I. Contopoulos, X. Feng, D. H. Mackay, Z. Mikić, T. Wiegelmann, J. Hutton, C. A. Lowder, H. Morgan, G. Petrie, L. A. Rachmeler, L. A. Upton, A. Canou, P. Chopin, C. Downs, M. Druckmüller, J. A. Linker, D. B. Seaton, and T. Török (2018), Global Non-Potential Magnetic Models of the Solar Corona During the March 2015 Eclipse, *Space Sci. Rev.*, **214**, 99, [10.1007/s11214-018-0534-1](https://doi.org/10.1007/s11214-018-0534-1).
- [367] Yermolaev, Y. I., I. G. Lodkina, and M. Y. Yermolaev (2018), Dynamics of Large-Scale Solar-Wind Streams Obtained by the Double Superposed Epoch Analysis: 3. Deflection of the Velocity Vector, *Solar Phys.*, **293**, 91, [10.1007/s11207-018-1310-9](https://doi.org/10.1007/s11207-018-1310-9).
- [368] Yu, J., L. Berger, C. Drews, R. Wimmer-Schweingruber, and A. Taut (2018), Spectral variation of suprathermal protons associated with stream interaction regions: STEREO A/PLASTIC observations, *Astron. & Astrophys.*, **615**, A126, [10.1051/0004-6361/201732444](https://doi.org/10.1051/0004-6361/201732444).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [369] Yu, J., L. Y. Li, J. Cui, and J. Wang (2018), Ultrawideband Rising-Tone Chorus Waves Observed Inside the Oscillating Plasmapause, *J. Geophys. Res.*, **123**, 6670–6678, [10.1029/2018JA025875](https://doi.org/10.1029/2018JA025875).
- [370] Yu, W., C. J. Farrugia, N. Lugaz, A. B. Galvin, C. Möstl, K. Paulson, and P. Vemareddy (2018), The Magnetic Field Geometry of Small Solar Wind Flux Ropes Inferred from Their Twist Distribution, *Solar Phys.*, **293**, 165, [10.1007/s11207-018-1385-3](https://doi.org/10.1007/s11207-018-1385-3).
- [371] Yue, C., J. Bortnik, W. Li, Q. Ma, M. Gkioulidou, G. D. Reeves, C.-P. Wang, R. M. Thorne, A. T. Y. Lui, A. J. Gerrard, H. E. Spence, and D. G. Mitchell (2018), The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations, *J. Geophys. Res.*, **123**, 6478–6493, [10.1029/2018JA025344](https://doi.org/10.1029/2018JA025344).
- [372] Zeldovich, M. A., Y. I. Logachev, and K. Kecskeméty (2018), Quiet-time 0.04 - 2 MeV/nucleon Ions at 1 AU in Solar Cycles 23 and 24, *Solar Phys.*, **293**, 3, [10.1007/s11207-017-1170-8](https://doi.org/10.1007/s11207-017-1170-8).
- [373] Zelenyi, L. M., E. E. Grigorenko, H. V. Malova, and V. Y. Popov (2018), Current Structures with Magnetic Shear in Space Plasma, *Sov. Phys.-JETP*, **108**, 557–569, [10.1134/S0021364018200146](https://doi.org/10.1134/S0021364018200146).
- [374] Zhang, B. (2018), *The Physics of Gamma-Ray Bursts*, [10.1017/9781139226530](https://doi.org/10.1017/9781139226530).
- [375] Zhang, B.-B., B. Zhang, A. J. Castro-Tirado, Z. G. Dai, P.-H. T. Tam, X.-Y. Wang, Y.-D. Hu, S. Karpov, A. Pozanenko, F.-W. Zhang, E. Mazaeva, P. Minaev, A. Volnova, S. Oates, H. Gao, X.-F. Wu, L. Shao, Q.-W. Tang, G. Beskin, A. Biryukov, S. Bondar, E. Ivanov, E. Katkova, N. Orekhova, A. Perkov, V. Sasyuk, L. Mankiewicz, A. F. Żarnecki, A. Cwiek, R. Opiela, A. Zadrożny, R. Aptekar, D. Frederiks, D. Svinkin, A. Kusakin, R. Inasaridze, O. Burhonov, V. Rumyantsev, E. Klunko, A. Moskvitin, T. Fatkhullin, V. V. Sokolov, A. F. Valeev, S. Jeong, I. H. Park, M. D. Caballero-García, R. Cunniffe, J. C. Tello, P. Ferrero, S. B. Pandey, M. Jelínek, F. K. Peng, R. Sánchez-Ramírez, and A. Castellón (2018), Transition from fireball to Poynting-flux-dominated outflow in the three-episode GRB 160625B, *Nature Astron.*, **2**, 69–75, [10.1038/s41550-017-0309-8](https://doi.org/10.1038/s41550-017-0309-8).
- [376] Zhang, D., W. Liu, X. Li, T. Sarris, C. Xiao, and J. R. Wygant (2018), Observations of Impulsive Electric Fields Induced by Interplanetary Shock, *Geophys. Res. Lett.*, **45**, 7287–7296, [10.1029/2018GL078809](https://doi.org/10.1029/2018GL078809).
- [377] Zhang, P. J., C. B. Wang, and L. Ye (2018), A type III radio burst automatic analysis system and statistic results for a half solar cycle with Nançay Decameter Array data, *Astron. & Astrophys.*, **618**, A165, [10.1051/0004-6361/201833260](https://doi.org/10.1051/0004-6361/201833260).
- [378] Zhang, S., A. Tian, Q. Shi, H. Li, A. W. Degeling, I. J. Rae, C. Forsyth, M. Wang, X. Shen, W. Sun, S. Bai, R. Guo, H. Wang, A. Fazakerley, S. Fu, and Z. Pu (2018), Statistical study of ULF waves in the magnetotail by THEMIS observations, *Ann. Geophys.*, **36**, 1335–1346, [10.5194/angeo-36-1335-2018](https://doi.org/10.5194/angeo-36-1335-2018).

**List of Refereed Publications**  
**Wind Spacecraft: 2018**

- [379] Zhao, A., Y. Wang, H. Feng, M. Xu, Y. Zhao, G. Zhao, and Q. Hu (2018), The Twist Profile in the Cross Section of Interplanetary Magnetic Clouds, *Astrophys. J. Lett.*, **869**, L13, [10.3847/2041-8213/aaf428](https://doi.org/10.3847/2041-8213/aaf428).
- [380] Zhao, L., and M. Zhang (2018), Effects of Coronal Magnetic Field Structures on the Transport of Solar Energetic Particles, *Astrophys. J. Lett.*, **859**(2), L29, [10.3847/2041-8213/aac6cf](https://doi.org/10.3847/2041-8213/aac6cf).
- [381] Zhao, L.-L., L. Adhikari, G. P. Zank, Q. Hu, and X. S. Feng (2018), Influence of the Solar Cycle on Turbulence Properties and Cosmic-Ray Diffusion, *Astrophys. J.*, **856**, 94, [10.3847/1538-4357/aab362](https://doi.org/10.3847/1538-4357/aab362).
- [382] Zhao, L. L., L. Adhikari, G. P. Zank, Q. Hu, and X. S. Feng (2018), Analytical investigation of turbulence quantities and cosmic ray mean free paths from 1995-2017, in *Journal of Physics Conference Series, J. Phys. Conf. Ser.*, vol. 1100, p. 012029, [10.1088/1742-6596/1100/1/012029](https://doi.org/10.1088/1742-6596/1100/1/012029).
- [383] Zheng, J., and Q. Hu (2018), Observational Evidence for Self-generation of Small-scale Magnetic Flux Ropes from Intermittent Solar Wind Turbulence, *Astrophys. J. Lett.*, **852**, L23, [10.3847/2041-8213/aaa3d7](https://doi.org/10.3847/2041-8213/aaa3d7).
- [384] Zhou, Z., F. Wei, X. Feng, Y. Wang, P. Zuo, and X. Xu (2018), Observation of Interplanetary Slow Shock Pair Associated with Reconnection Exhaust in Magnetic Cloud Boundary Layer, *Astrophys. J.*, **863**, 84, [10.3847/1538-4357/aad098](https://doi.org/10.3847/1538-4357/aad098).
- [385] Zhu, H., Y. Y. Shprits, L. Chen, X. Liu, and A. C. Kellerman (2018), An Event on Simultaneous Amplification of Exohiss and Chorus Waves Associated With Electron Density Enhancements, *J. Geophys. Res.*, **123**, 8958–8968, [10.1029/2017JA025023](https://doi.org/10.1029/2017JA025023).
- [386] Ziaepour, H. (2018), Prompt gamma-ray emission of GRB 170817A associated with GW 170817: a consistent picture, *Mon. Not. Roy. Astron. Soc.*, **478**, 3233–3252, [10.1093/mnras/sty1246](https://doi.org/10.1093/mnras/sty1246).
- [387] Zirnstein, E. J., J. Heerikhuisen, D. J. McComas, N. V. Pogorelov, D. B. Reisenfeld, and J. R. Szalay (2018), Simulation of the Solar Wind Dynamic Pressure Increase in 2014 and Its Effect on Energetic Neutral Atom Fluxes from the Heliosphere, *Astrophys. J.*, **859**, 104, [10.3847/1538-4357/aac016](https://doi.org/10.3847/1538-4357/aac016).