

List of Refereed Publications
Wind Spacecraft: 2015

References

- [1] Agapitov, O. V., A. V. Artemyev, D. Mourenas, F. S. Mozer, and V. Krasnoselskikh (2015), Nonlinear local parallel acceleration of electrons through Landau trapping by oblique whistler mode waves in the outer radiation belt, *Geophys. Res. Lett.*, **42**, 10, [10.1002/2015GL066887](https://doi.org/10.1002/2015GL066887).
- [2] Alexander, R. L. (2015), The Bird's Ear View: Audification for the Spectral Analysis of Heliospheric Time Series Data, Ph.D. thesis, University of Michigan.
- [3] Alissandrakis, C. E., A. Nindos, S. Patsourakos, A. Kontogeorgos, and P. Tsitsipis (2015), A tiny event producing an interplanetary type III burst, *Astron. & Astrophys.*, **582**, A52, [10.1051/0004-6361/201526265](https://doi.org/10.1051/0004-6361/201526265).
- [4] Andersson, L., R. E. Ergun, G. T. Delory, A. Eriksson, J. Westfall, H. Reed, J. McCauly, D. Summers, and D. Meyers (2015), The Langmuir Probe and Waves (LPW) Instrument for MAVEN, *Space Sci. Rev.*, **195**, 173–198, [10.1007/s11214-015-0194-3](https://doi.org/10.1007/s11214-015-0194-3).
- [5] Archer, M. O., D. L. Turner, J. P. Eastwood, S. J. Schwartz, and T. S. Horbury (2015), Global impacts of a Foreshock Bubble: Magnetosheath, magnetopause and ground-based observations, *Planet. Space Sci.*, **106**, 56–66, [10.1016/j.pss.2014.11.026](https://doi.org/10.1016/j.pss.2014.11.026).
- [6] Arunbabu, K. P., H. M. Antia, S. R. Dugad, S. K. Gupta, Y. Hayashi, S. Kawakami, P. K. Mohanty, A. Oshima, and P. Subramanian (2015), How are Forbush decreases related to interplanetary magnetic field enhancements?, *Astron. & Astrophys.*, **580**, A41, [10.1051/0004-6361/201425115](https://doi.org/10.1051/0004-6361/201425115).
- [7] Aslam, O. P. M., and Badruddin (2015), Study of Cosmic-Ray Modulation During the Recent Unusual Minimum and Mini-Maximum of Solar Cycle 24, *Solar Phys.*, **290**, 2333–2353, [10.1007/s11207-015-0753-5](https://doi.org/10.1007/s11207-015-0753-5).
- [8] Badruddin, and A. Kumar (2015), Study of the Forbush Decreases, Geomagnetic Storms, and Ground-Level Enhancements in Selected Intervals and Their Space Weather Implications, *Solar Phys.*, **290**, 1271–1283, [10.1007/s11207-015-0665-4](https://doi.org/10.1007/s11207-015-0665-4).
- [9] Banjac, S., R. Gómez-Herrero, B. Heber, P. Kühl, and C. Terasa (2015), EPHIN anisotropy measurement capability, *J. Phys. Conf. Ser.*, **632**(1), 012048, [10.1088/1742-6596/632/1/012048](https://doi.org/10.1088/1742-6596/632/1/012048).
- [10] Berdichevsky, D. B., and K. Schefers (2015), On the Thermodynamics and Other Constitutive Properties of a Class of Strongly Magnetized Matter Observed in Astrophysics, *Astrophys. J.*, **805**, 70, [10.1088/0004-637X/805/1/70](https://doi.org/10.1088/0004-637X/805/1/70).
- [11] Blum, L. W., A. Halford, R. Millan, J. W. Bonnell, J. Goldstein, M. Usanova, M. Engebretson, M. Ohnsted, G. Reeves, H. Singer, M. Clilverd, and X. Li (2015), Observations of coincident EMIC wave activity and duskside energetic electron precipitation on 18-19 January 2013, *Geophys. Res. Lett.*, **42**, 5727–5735, [10.1002/2015GL065245](https://doi.org/10.1002/2015GL065245).

List of Refereed Publications
Wind Spacecraft: 2015

- [12] Boardsen, S. A., L. K. Jian, J. L. Raines, D. J. Gershman, T. H. Zurbuchen, D. A. Roberts, and H. Korth (2015), MESSENGER survey of in situ low frequency wave storms between 0.3 and 0.7 AU, *J. Geophys. Res.*, **120**, 10,207–10,220, [10.1002/2015JA021506](https://doi.org/10.1002/2015JA021506).
- [13] Boldyrev, S., C. H. K. Chen, Q. Xia, and V. Zhdankin (2015), Spectral Breaks of Alfvénic Turbulence in a Collisionless Plasma, *Astrophys. J.*, **806**, 238, [10.1088/0004-637X/806/2/238](https://doi.org/10.1088/0004-637X/806/2/238).
- [14] Boynton, R. J., M. A. Balikhin, and S. A. Billings (2015), Online NARMAX model for electron fluxes at GEO, *Ann. Geophys.*, **33**, 405–411, [10.5194/angeo-33-405-2015](https://doi.org/10.5194/angeo-33-405-2015).
- [15] Broomhall, A.-M., and V. M. Nakariakov (2015), A Comparison Between Global Proxies of the Sun’s Magnetic Activity Cycle: Inferences from Helioseismology, *Solar Phys.*, **290**, 3095–3111, [10.1007/s11207-015-0728-6](https://doi.org/10.1007/s11207-015-0728-6).
- [16] Brown, M. R., D. A. Schaffner, and P. J. Weck (2015), Magnetohydrodynamic turbulence: Observation and experimenta), *Phys. Plasmas*, **22**(5), 055601, [10.1063/1.4919391](https://doi.org/10.1063/1.4919391).
- [17] Cattell, C. A., A. W. Breneman, S. A. Thaller, J. R. Wygant, C. A. Kletzing, and W. S. Kurth (2015), Van Allen Probes observations of unusually low frequency whistler mode waves observed in association with moderate magnetic storms: Statistical study, *Geophys. Res. Lett.*, **42**, 7273–7281, [10.1002/2015GL065565](https://doi.org/10.1002/2015GL065565).
- [18] Chandra, R., G. R. Gupta, S. Mulay, and D. Tripathi (2015), Sunspot waves and triggering of homologous active region jets, *Mon. Not. Roy. Astron. Soc.*, **446**, 3741–3748, [10.1093/mnras/stu2305](https://doi.org/10.1093/mnras/stu2305).
- [19] Chappell, C. R. (2015), The Role of the Ionosphere in Providing Plasma to the Terrestrial Magnetosphere – An Historical Overview, *Space Sci. Rev.*, **192**, 5–25, [10.1007/s11214-015-0168-5](https://doi.org/10.1007/s11214-015-0168-5).
- [20] Chen, C. H. K., L. Matteini, D. Burgess, and T. S. Horbury (2015), Magnetic field rotations in the solar wind at kinetic scales, *Mon. Not. Roy. Astron. Soc.*, **453**, L64–L68, [10.1093/mnrasl/slv107](https://doi.org/10.1093/mnrasl/slv107).
- [21] Chen, N.-h., R. Bučík, D. E. Innes, and G. M. Mason (2015), Case studies of multi-day ³He-rich solar energetic particle periods, *Astron. & Astrophys.*, **580**, A16, [10.1051/0004-6361/201525618](https://doi.org/10.1051/0004-6361/201525618).
- [22] Chowdhury, P., D. P. Choudhary, S. Gosain, and Y.-J. Moon (2015), Short-term periodicities in interplanetary, geomagnetic and solar phenomena during solar cycle 24, *Astrophys. Space Sci.*, **356**, 7–18, [10.1007/s10509-014-2188-0](https://doi.org/10.1007/s10509-014-2188-0).
- [23] Cid, C. (2015), Space Weather: Forecasting the Sun-Earth Interaction., in *Highlights of Spanish Astrophysics VIII*, edited by A. J. Cenarro, F. Figueras, C. Hernández-Monteagudo, J. Trujillo Bueno, and L. Valdivielso, pp. 667–676.

List of Refereed Publications
Wind Spacecraft: 2015

- [24] Colaninno, R. C., and A. Vourlidas (2015), Using Multiple-viewpoint Observations to Determine the Interaction of Three Coronal Mass Ejections Observed on 2012 March 5, *Astrophys. J.*, **815**, 70, [10.1088/0004-637X/815/1/70](https://doi.org/10.1088/0004-637X/815/1/70).
- [25] Colombi, J. M., M. E. Miller, J. S. Bohren, and J. K. Howard (2015), Conceptual Design Using Executable Architectures for a Manned Mission to Mars, *IEEE Systems J.*, **9**, 495–507, [10.1109/JSYST.2014.2314793](https://doi.org/10.1109/JSYST.2014.2314793).
- [26] Corona-Romero, P., J. A. Gonzalez-Esparza, E. Aguilar-Rodriguez, V. De-la-Luz, and J. C. Mejia-Ambriz (2015), Kinematics of ICMs/Shocks: Blast Wave Reconstruction Using Type-II Emissions, *Solar Phys.*, **290**, 2439–2454, [10.1007/s11207-015-0683-2](https://doi.org/10.1007/s11207-015-0683-2).
- [27] Cowen, R. (2015), Sound Bytes, *Scientific American*, **312**(3), 44–47, [10.1038/scientificamerican0315-44](https://doi.org/10.1038/scientificamerican0315-44).
- [28] Cremades, H., F. A. Iglesias, O. C. St. Cyr, H. Xie, M. L. Kaiser, and N. Gopalswamy (2015), Low-Frequency Type-II Radio Detections and Coronagraph Data Employed to Describe and Forecast the Propagation of 71 CMEs/Shocks, *Solar Phys.*, **290**, 2455–2478, [10.1007/s11207-015-0776-y](https://doi.org/10.1007/s11207-015-0776-y).
- [29] Dahlin, J. T., J. F. Drake, and M. Swisdak (2015), Electron acceleration in three-dimensional magnetic reconnection with a guide field, *Phys. Plasmas*, **22**(10), 100704, [10.1063/1.4933212](https://doi.org/10.1063/1.4933212).
- [30] Dai, L., K. Takahashi, R. Lysak, C. Wang, J. R. Wygant, C. Kletzing, J. Bonnell, C. A. Cattell, C. W. Smith, R. J. MacDowall, S. Thaller, A. Breneman, X. Tang, X. Tao, and L. Chen (2015), Storm time occurrence and spatial distribution of Pc4 poloidal ULF waves in the inner magnetosphere: A Van Allen Probes statistical study, *J. Geophys. Res.*, **120**, 4748–4762, [10.1002/2015JA021134](https://doi.org/10.1002/2015JA021134).
- [31] Dai, L., C. Wang, S. Duan, Z. He, J. R. Wygant, C. A. Cattell, X. Tao, Z. Su, C. Kletzing, D. N. Baker, X. Li, D. Malaspina, J. B. Blake, J. Fennell, S. Claudepierre, D. L. Turner, G. D. Reeves, H. O. Funsten, H. E. Spence, V. Angelopoulos, D. Fruehauff, L. Chen, S. Thaller, A. Breneman, and X. Tang (2015), Near-Earth injection of MeV electrons associated with intense dipolarization electric fields: Van Allen Probes observations, *Geophys. Res. Lett.*, **42**, 6170–6179, [10.1002/2015GL064955](https://doi.org/10.1002/2015GL064955).
- [32] D’Amicis, R., and R. Bruno (2015), On the Origin of Highly Alfvénic Slow Solar Wind, *Astrophys. J.*, **805**, 84, [10.1088/0004-637X/805/1/84](https://doi.org/10.1088/0004-637X/805/1/84).
- [33] Démoulin, P., M. Janvier, and S. Dasso (2015), Magnetic Flux and Helicity of Magnetic Clouds, *Solar Phys.*, [10.1007/s11207-015-0836-3](https://doi.org/10.1007/s11207-015-0836-3).
- [34] Dierckxsens, M., K. Tziotziou, S. Dalla, I. Patsou, M. S. Marsh, N. B. Crosby, O. Malandraki, and G. Tsiropoula (2015), Relationship between Solar Energetic Particles and Properties of Flares and CMEs: Statistical Analysis of Solar Cycle 23 Events, *Solar Phys.*, **290**, 841–874, [10.1007/s11207-014-0641-4](https://doi.org/10.1007/s11207-014-0641-4).

List of Refereed Publications
Wind Spacecraft: 2015

- [35] Dixon, P., E. A. MacDonald, H. O. Funsten, A. Glocer, M. Grande, C. Kletzing, B. A. Larsen, G. Reeves, R. M. Skoug, H. Spence, and M. F. Thomsen (2015), Multipoint observations of the open-closed field line boundary as observed by the Van Allen Probes and geostationary satellites during the 14 November 2012 geomagnetic storm, *J. Geophys. Res.*, **120**, 6596–6613, [10.1002/2014JA020883](https://doi.org/10.1002/2014JA020883).
- [36] Duffin, R. T., S. M. White, P. S. Ray, and M. L. Kaiser (2015), Type III-L Solar Radio Bursts and Solar Energetic Particle Events, *J. Phys. Conf. Ser.*, **642**(1), 012006, [10.1088/1742-6596/642/1/012006](https://doi.org/10.1088/1742-6596/642/1/012006).
- [37] Dumbović, M., A. Devos, B. Viřnak, D. Sudar, L. Rodriguez, D. Ruždjak, K. Leer, S. Vennerstrøm, and A. Veronig (2015), Geoeffectiveness of Coronal Mass Ejections in the SOHO Era, *Solar Phys.*, **290**, 579–612, [10.1007/s11207-014-0613-8](https://doi.org/10.1007/s11207-014-0613-8).
- [38] Engebretson, M. J., J. L. Posch, J. R. Wygant, C. A. Kletzing, M. R. Lessard, C.-L. Huang, H. E. Spence, C. W. Smith, H. J. Singer, Y. Omura, R. B. Horne, G. D. Reeves, D. N. Baker, M. Gkioulidou, K. Oksavik, I. R. Mann, T. Raita, and K. Shiokawa (2015), Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time, *J. Geophys. Res.*, **120**, 5465–5488, [10.1002/2015JA021227](https://doi.org/10.1002/2015JA021227).
- [39] Eriksson, S., G. Lapenta, D. L. Newman, T. D. Phan, J. T. Gosling, B. Lavraud, Y. V. Khotyaintsev, C. M. Carr, S. Markidis, and M. V. Goldman (2015), On Multiple Reconnection X-lines and Tripolar Perturbations of Strong Guide Magnetic Fields, *Astrophys. J.*, **805**, 43, [10.1088/0004-637X/805/1/43](https://doi.org/10.1088/0004-637X/805/1/43).
- [40] Fermo, R. L., N. V. Pogorelov, and L. F. Burlaga (2015), Transient shocks beyond the heliopause, *J. Phys. Conf. Ser.*, **642**(1), 012008, [10.1088/1742-6596/642/1/012008](https://doi.org/10.1088/1742-6596/642/1/012008).
- [41] Firoz, K. A., W. Q. Gan, Y. P. Li, and J. Rodríguez-Pacheco (2015), An Interpretation of a Possible Mechanism for the First Ground-Level Enhancement of Solar Cycle 24, *Solar Phys.*, **290**, 613–626, [10.1007/s11207-014-0619-2](https://doi.org/10.1007/s11207-014-0619-2).
- [42] Foster, J. C., J. R. Wygant, M. K. Hudson, A. J. Boyd, D. N. Baker, P. J. Erickson, and H. E. Spence (2015), Shock-induced prompt relativistic electron acceleration in the inner magnetosphere, *J. Geophys. Res.*, **120**, 1661–1674, [10.1002/2014JA020642](https://doi.org/10.1002/2014JA020642).
- [43] Fox, N. J., M. C. Velli, S. D. Bale, R. Decker, A. Driesman, R. A. Howard, J. C. Kasper, J. Kinnison, M. Kusterer, D. Lario, M. K. Lockwood, D. J. McComas, N. E. Raouafi, and A. Szabo (2015), The Solar Probe Plus Mission: Humanity’s First Visit to Our Star, *Space Sci. Rev.*, [10.1007/s11214-015-0211-6](https://doi.org/10.1007/s11214-015-0211-6).
- [44] Fujiki, K., M. Tokumaru, T. Iju, K. Hakamada, and M. Kojima (2015), Relationship Between Solar-Wind Speed and Coronal Magnetic-Field Properties, *Solar Phys.*, **290**, 2491–2505, [10.1007/s11207-015-0742-8](https://doi.org/10.1007/s11207-015-0742-8).
- [45] Gary, S. P. (2015), Short-wavelength plasma turbulence and temperature anisotropy instabilities: recent computational progress, *Phil. Trans. R. Soc. A*, **373**, 20140,149–20140,149, [10.1098/rsta.2014.0149](https://doi.org/10.1098/rsta.2014.0149).

List of Refereed Publications
Wind Spacecraft: 2015

- [46] Gilbert, J. A., S. T. Lepri, M. Rubin, M. Combi, and T. H. Zurbuchen (2015), In Situ Plasma Measurements of Fragmented Comet 73P Schwassmann-Wachmann 3, *Astrophys. J.*, **815**, 12, [10.1088/0004-637X/815/1/12](https://doi.org/10.1088/0004-637X/815/1/12).
- [47] Gkioulidou, M., S. Ohtani, D. G. Mitchell, A. Y. Ukhorskiy, G. D. Reeves, D. L. Turner, J. W. Gjerloev, M. Nosé, K. Koga, J. V. Rodriguez, and L. J. Lanzerotti (2015), Spatial structure and temporal evolution of energetic particle injections in the inner magnetosphere during the 14 July 2013 substorm event, *J. Geophys. Res.*, **120**, 1924–1938, [10.1002/2014JA020872](https://doi.org/10.1002/2014JA020872).
- [48] Goldstein, M. L., R. T. Wicks, S. Perri, and F. Sahraoui (2015), Kinetic scale turbulence and dissipation in the solar wind: key observational results and future outlook, *Phil. Trans. R. Soc. A*, **373**, 20140,147–20140,147, [10.1098/rsta.2014.0147](https://doi.org/10.1098/rsta.2014.0147).
- [49] Goldstein, M. L., M. Ashour-Abdalla, A. F. Viñas, J. Dorelli, D. Wendel, A. Klimas, K.-J. Hwang, M. El-Alaoui, R. J. Walker, Q. Pan, and H. Liang (2015), Mission Oriented Support and Theory (MOST) for MMS—the Goddard Space Flight Center/University of California Los Angeles Interdisciplinary Science Program, *Space Sci. Rev.*, [10.1007/s11214-014-0127-6](https://doi.org/10.1007/s11214-014-0127-6).
- [50] Goldstein, M. L., P. Escoubet, K.-J. Hwang, D. E. Wendel, A.-F. Viñas, S. F. Fung, S. Perri, S. Servidio, J. S. Pickett, G. K. Parks, F. Sahraoui, C. Gurgiolo, W. Matthaeus, and J. M. Weygand (2015), Multipoint observations of plasma phenomena made in space by Cluster, *J. Plasma Phys.*, **81**(3), 325810301, [10.1017/S0022377815000185](https://doi.org/10.1017/S0022377815000185).
- [51] Gómez-Herrero, R., N. Dresing, A. Klassen, B. Heber, D. Lario, N. Agueda, O. E. Malandraki, J. J. Blanco, J. Rodríguez-Pacheco, and S. Banjac (2015), Circumsolar Energetic Particle Distribution on 2011 November 3, *Astrophys. J.*, **799**, 55, [10.1088/0004-637X/799/1/55](https://doi.org/10.1088/0004-637X/799/1/55).
- [52] Gopalswamy, N. (2015), The Dynamics of Eruptive Prominences, in *Solar Prominences, Astrophysics and Space Science Library*, vol. 415, edited by J.-C. Vial and O. Engvold, p. 381, [10.1007/978-3-319-10416-4_15](https://doi.org/10.1007/978-3-319-10416-4_15).
- [53] Gopalswamy, N., P. Mäkelä, S. Akiyama, S. Yashiro, H. Xie, N. Thakur, and S. W. Kahler (2015), Large Solar Energetic Particle Events Associated with Filament Eruptions Outside of Active Regions, *Astrophys. J.*, **806**, 8, [10.1088/0004-637X/806/1/8](https://doi.org/10.1088/0004-637X/806/1/8).
- [54] Gopalswamy, N., P. Mäkelä, S. Yashiro, H. Xie, S. Akiyama, and N. Thakur (2015), High-energy solar particle events in cycle 24, *J. Phys. Conf. Ser.*, **642**(1), 012012, [10.1088/1742-6596/642/1/012012](https://doi.org/10.1088/1742-6596/642/1/012012).
- [55] Gopalswamy, N., S. Yashiro, H. Xie, S. Akiyama, and P. Mäkelä (2015), Properties and geoeffectiveness of magnetic clouds during solar cycles 23 and 24, *J. Geophys. Res.*, **120**, 9221–9245, [10.1002/2015JA021446](https://doi.org/10.1002/2015JA021446).
- [56] Grechnev, V. V., A. M. Uralov, I. V. Kuzmenko, A. A. Kochanov, I. M. Chertok, and S. S. Kalashnikov (2015), Responsibility of a Filament Eruption for the Initiation of a

List of Refereed Publications
Wind Spacecraft: 2015

- Flare, CME, and Blast Wave, and its Possible Transformation into a Bow Shock, *Solar Phys.*, **290**, 129–158, [10.1007/s11207-014-0621-8](https://doi.org/10.1007/s11207-014-0621-8).
- [57] Greiner, J., P. A. Mazzali, D. A. Kann, T. Krühler, E. Pian, S. Prentice, F. Olivares E., A. Rossi, S. Klose, S. Taubenberger, F. Knust, P. M. J. Afonso, C. Ashall, J. Bolmer, C. Delvaux, R. Diehl, J. Elliott, R. Filgas, J. P. U. Fynbo, J. F. Graham, A. N. Guelbenzu, S. Kobayashi, G. Leloudas, S. Savaglio, P. Schady, S. Schmidl, T. Schweyer, V. Sudilovsky, M. Tanga, A. C. Updike, H. van Eerten, and K. Varela (2015), A very luminous magnetar-powered supernova associated with an ultra-long γ -ray burst, *Nature*, **523**, 189–192, [10.1038/nature14579](https://doi.org/10.1038/nature14579).
- [58] Grimani, C., M. Fabi, A. Lobo, I. Mateos, and D. Telloni (2015), LISA Pathfinder test-mass charging during galactic cosmic-ray flux short-term variations, *Class. Quantum Grav.*, **32**(3), 035001, [10.1088/0264-9381/32/3/035001](https://doi.org/10.1088/0264-9381/32/3/035001).
- [59] Gruesbeck, J. R., S. T. Lepri, T. H. Zurbuchen, and E. R. Christian (2015), Evidence for Local Acceleration of Suprathermal Heavy Ion Observations during Interplanetary Coronal Mass Ejections, *Astrophys. J.*, **799**, 57, [10.1088/0004-637X/799/1/57](https://doi.org/10.1088/0004-637X/799/1/57).
- [60] Guidorzi, C., S. Dichiara, F. Frontera, R. Margutti, A. Baldeschi, and L. Amati (2015), A Common Stochastic Process Rules Gamma-ray Burst Prompt Emission and X-ray Flares, *Astrophys. J.*, **801**, 57, [10.1088/0004-637X/801/1/57](https://doi.org/10.1088/0004-637X/801/1/57).
- [61] Hajra, R., B. T. Tsurutani, E. Echer, W. D. Gonzalez, and O. Santolik (2015), Relativistic ($e > 0.6$, > 2.0 , and > 4.0 MeV) Electron Acceleration at Geosynchronous Orbit during High-intensity, Long-duration, Continuous AE Activity (HILDCAA) Events, *Astrophys. J.*, **799**, 39, [10.1088/0004-637X/799/1/39](https://doi.org/10.1088/0004-637X/799/1/39).
- [62] Hajra, R., B. T. Tsurutani, E. Echer, W. D. Gonzalez, C. G. M. Brum, L. E. A. Vieira, and O. Santolik (2015), Relativistic electron acceleration during HILDCAA events: are precursor CIR magnetic storms important?, *Earth, Planets, and Space*, **67**, 109, [10.1186/s40623-015-0280-5](https://doi.org/10.1186/s40623-015-0280-5).
- [63] Halekas, J. S., E. R. Taylor, G. Dalton, G. Johnson, D. W. Curtis, J. P. McFadden, D. L. Mitchell, R. P. Lin, and B. M. Jakosky (2015), The Solar Wind Ion Analyzer for MAVEN, *Space Sci. Rev.*, **195**, 125–151, [10.1007/s11214-013-0029-z](https://doi.org/10.1007/s11214-013-0029-z).
- [64] Halford, A. J., S. L. McGregor, K. R. Murphy, R. M. Millan, M. K. Hudson, L. A. Woodger, C. A. Cattel, A. W. Breneman, I. R. Mann, W. S. Kurth, G. B. Hospodarsky, M. Gkioulidou, and J. F. Fennell (2015), BARREL observations of an ICME-shock impact with the magnetosphere and the resultant radiation belt electron loss, *J. Geophys. Res.*, **120**, 2557–2570, [10.1002/2014JA020873](https://doi.org/10.1002/2014JA020873).
- [65] He, H.-Q. (2015), Perpendicular Diffusion in the Transport of Solar Energetic Particles from Unconnected Sources: The Counter-streaming Particle Beams Revisited, *Astrophys. J.*, **814**, 157, [10.1088/0004-637X/814/2/157](https://doi.org/10.1088/0004-637X/814/2/157).

List of Refereed Publications
Wind Spacecraft: 2015

- [66] He, J., L. Wang, C. Tu, E. Marsch, and Q. Zong (2015), Evidence of Landau and Cyclotron Resonance between Protons and Kinetic Waves in Solar Wind Turbulence, *Astrophys. J. Lett.*, **800**, L31, [10.1088/2041-8205/800/2/L31](https://doi.org/10.1088/2041-8205/800/2/L31).
- [67] He, J., Z. Pei, L. Wang, C. Tu, E. Marsch, L. Zhang, and C. Salem (2015), Sunward Propagating Alfvén Waves in Association with Sunward Drifting Proton Beams in the Solar Wind, *Astrophys. J.*, **805**, 176, [10.1088/0004-637X/805/2/176](https://doi.org/10.1088/0004-637X/805/2/176).
- [68] He, J., C. Tu, E. Marsch, C. H. K. Chen, L. Wang, Z. Pei, L. Zhang, C. S. Salem, and S. D. Bale (2015), Proton Heating in Solar Wind Compressible Turbulence with Collisions between Counter-propagating Waves, *Astrophys. J. Lett.*, **813**, L30, [10.1088/2041-8205/813/2/L30](https://doi.org/10.1088/2041-8205/813/2/L30).
- [69] He, Y., F. Xiao, Q. Zhou, C. Yang, S. Liu, D. N. Baker, C. A. Kletzing, W. S. Kurth, G. B. Hospodarsky, H. E. Spence, G. D. Reeves, H. O. Funsten, and J. B. Blake (2015), Van Allen Probes observation and modeling of chorus excitation and propagation during weak geomagnetic activities, *J. Geophys. Res.*, **120**, 6371–6385, [10.1002/2015JA021376](https://doi.org/10.1002/2015JA021376).
- [70] Heber, B., C. Wallmann, D. Galsdorf, Herbst K., P. Köhl, M. Dumbovic, B. Vršnak, A. Veronig, M. Temmer, C. Möstl, and S. Dalla (2015), Forbush decreases associated to Stealth Coronal Mass Ejections, *Central European Astrophys. Bull.*, **39**, 75–82.
- [71] Horaites, K., S. Boldyrev, S. I. Krasheninnikov, C. Salem, S. D. Bale, and M. Pulupa (2015), Self-Similar Theory of Thermal Conduction and Application to the Solar Wind, *Physical Review Letters*, **114**(24), 245003, [10.1103/PhysRevLett.114.245003](https://doi.org/10.1103/PhysRevLett.114.245003).
- [72] Horesh, A., S. B. Cenko, D. A. Perley, S. R. Kulkarni, G. Hallinan, and E. Bellm (2015), The Unusual Radio Afterglow of the Ultra-long Gamma-Ray Burst GRB 130925A, *Astrophys. J.*, **812**, 86, [10.1088/0004-637X/812/1/86](https://doi.org/10.1088/0004-637X/812/1/86).
- [73] Hori, T., A. Shinbori, S. Fujita, and N. Nishitani (2015), IMF-By dependence of transient ionospheric flow perturbation associated with sudden impulses: SuperDARN observations, *Earth, Planets, and Space*, **67**, 190, [10.1186/s40623-015-0360-6](https://doi.org/10.1186/s40623-015-0360-6).
- [74] Huang, T., H. Wang, J.-H. Shue, L. Cai, and G. Pi (2015), The dayside magnetopause location during radial interplanetary magnetic field periods: Cluster observation and model comparison, *Ann. Geophys.*, **33**, 437–448, [10.5194/angeo-33-437-2015](https://doi.org/10.5194/angeo-33-437-2015).
- [75] Intriligator, D. S., W. Sun, W. D. Miller, M. Dryer, C. Deehr, W. R. Webber, J. M. Intriligator, and T. M. Detman (2015), Modelling the March 2012 solar events and their impacts at Voyager 1 in the vicinity of the heliopause, *J. Phys. Conf. Ser.*, **577**(1), 012013, [10.1088/1742-6596/577/1/012013](https://doi.org/10.1088/1742-6596/577/1/012013).
- [76] Izmodenov, V. V., and D. B. Alexashov (2015), Three-dimensional Kinetic-MHD Model of the Global Heliosphere with the Heliopause-surface Fitting, *Astrophys. J. Suppl.*, **220**, 32, [10.1088/0067-0049/220/2/32](https://doi.org/10.1088/0067-0049/220/2/32).

List of Refereed Publications
Wind Spacecraft: 2015

- [77] Jackson, B. V., P. P. Hick, A. Buffington, H.-S. Yu, M. M. Bisi, M. Tokumar, and X. Zhao (2015), A Determination of the North-South Heliospheric Magnetic Field Component from Inner Corona Closed-loop Propagation, *Astrophys. J. Lett.*, **803**, L1, [10.1088/2041-8205/803/1/L1](https://doi.org/10.1088/2041-8205/803/1/L1).
- [78] Jaynes, A. N., D. N. Baker, H. J. Singer, J. V. Rodriguez, T. M. Loto'aniu, A. F. Ali, S. R. Elkington, X. Li, S. G. Kanekal, J. F. Fennell, W. Li, R. M. Thorne, C. A. Kletzing, H. E. Spence, and G. D. Reeves (2015), Source and seed populations for relativistic electrons: Their roles in radiation belt changes, *J. Geophys. Res.*, **120**, 7240–7254, [10.1002/2015JA021234](https://doi.org/10.1002/2015JA021234).
- [79] Jaynes, A. N., M. R. Lessard, K. Takahashi, A. F. Ali, D. M. Malaspina, R. G. Michell, E. L. Spanswick, D. N. Baker, J. B. Blake, C. Cully, E. F. Donovan, C. A. Kletzing, G. D. Reeves, M. Samara, H. E. Spence, and J. R. Wygant (2015), Correlated Pc4-5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems, *J. Geophys. Res.*, **120**, 8749–8761, [10.1002/2015JA021380](https://doi.org/10.1002/2015JA021380).
- [80] Kahler, S. W., and A. Ling (2015), Dynamic SEP event probability forecasts, *Space Weather*, **13**, 665–675, [10.1002/2015SW001222](https://doi.org/10.1002/2015SW001222).
- [81] Kallio, E., and G. Facskó (2015), Properties of plasma near the moon in the magnetotail, *Planet. Space Sci.*, **115**, 69–76, [10.1016/j.pss.2014.11.007](https://doi.org/10.1016/j.pss.2014.11.007).
- [82] Kanekal, S. G., D. N. Baker, M. G. Henderson, W. Li, J. F. Fennell, Y. Zheng, I. G. Richardson, A. Jones, A. F. Ali, S. R. Elkington, A. Jaynes, X. Li, J. B. Blake, G. D. Reeves, H. E. Spence, and C. A. Kletzing (2015), Relativistic electron response to the combined magnetospheric impact of a coronal mass ejection overlapping with a high-speed stream: Van Allen Probes observations, *J. Geophys. Res.*, **120**, 7629–7641, [10.1002/2015JA021395](https://doi.org/10.1002/2015JA021395).
- [83] Kasper, J. C., R. Abiad, G. Austin, M. Balat-Pichelin, S. D. Bale, J. W. Belcher, P. Berg, H. Bergner, M. Berthomier, J. Bookbinder, E. Brodu, D. Caldwell, A. W. Case, B. D. G. Chandran, P. Cheimets, J. W. Cirtain, S. R. Cranmer, D. W. Curtis, P. Daigneau, G. Dalton, B. Dasgupta, D. DeTomaso, M. Diaz-Aguado, B. Djordjevic, B. Donaskowski, M. Effinger, V. Florinski, N. Fox, M. Freeman, D. Gallagher, S. P. Gary, T. Gauron, R. Gates, M. L. Goldstein, L. Golub, D. A. Gordon, R. Gurnee, G. Guth, J. Halekas, K. Hatch, J. Heerikuisen, G. Ho, Q. Hu, G. Johnson, S. P. Jordan, K. E. Korreck, D. Larson, A. J. Lazarus, G. Li, R. Livi, M. Ludlam, M. Maksimovic, J. P. McFadden, W. Marchant, B. A. Maruca, D. J. McComas, L. Messina, T. Mercer, S. Park, A. M. Peddie, N. Pogorelov, M. J. Reinhart, J. D. Richardson, M. Robinson, I. Rosen, R. M. Skoug, A. Slagle, J. T. Steinberg, M. L. Stevens, A. Szabo, E. R. Taylor, C. Tiu, P. Turin, M. Velli, G. Webb, P. Whittlesey, K. Wright, S. T. Wu, and G. Zank (2015), Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus, *Space Sci. Rev.*, pp. 1–56, [10.1007/s11214-015-0206-3](https://doi.org/10.1007/s11214-015-0206-3).

List of Refereed Publications
Wind Spacecraft: 2015

- [84] Katsavrias, C., I. A. Daglis, W. Li, S. Dimitrakoudis, M. Georgiou, D. L. Turner, and C. Papadimitriou (2015), Combined effects of concurrent Pc5 and chorus waves on relativistic electron dynamics, *Ann. Geophys.*, **33**, 1173–1181, [10.5194/angeo-33-1173-2015](https://doi.org/10.5194/angeo-33-1173-2015).
- [85] Katushkina, O. A., V. V. Izmodenov, and D. B. Alexashov (2015), Direction of interstellar hydrogen flow in the heliosphere: theoretical modelling and comparison with SOHO/SWAN data, *Mon. Not. Roy. Astron. Soc.*, **446**, 2929–2943, [10.1093/mnras/stu2218](https://doi.org/10.1093/mnras/stu2218).
- [86] Khabarova, O., G. P. Zank, G. Li, J. A. le Roux, G. M. Webb, A. Dosch, and O. E. Malandraki (2015), Small-scale Magnetic Islands in the Solar Wind and Their Role in Particle Acceleration. I. Dynamics of Magnetic Islands Near the Heliospheric Current Sheet, *Astrophys. J.*, **808**, 181, [10.1088/0004-637X/808/2/181](https://doi.org/10.1088/0004-637X/808/2/181).
- [87] Khabarova, O. V., G. P. Zank, G. Li, J. A. le Roux, G. M. Webb, O. E. Malandraki, and V. V. Zharkova (2015), Dynamical small-scale magnetic islands as a source of local acceleration of particles in the solar wind, *J. Phys. Conf. Ser.*, **642**(1), 012033, [10.1088/1742-6596/642/1/012033](https://doi.org/10.1088/1742-6596/642/1/012033).
- [88] Kilpua, E. K. J., H. Hietala, D. L. Turner, H. E. J. Koskinen, T. I. Pulkkinen, J. V. Rodriguez, G. D. Reeves, S. G. Claudepierre, and H. E. Spence (2015), Unraveling the drivers of the storm time radiation belt response, *Geophys. Res. Lett.*, **42**, 3076–3084, [10.1002/2015GL063542](https://doi.org/10.1002/2015GL063542).
- [89] Kim, S., P. H. Yoon, G. S. Choe, and L. Wang (2015), Asymptotic Theory of Solar Wind Electrons, *Astrophys. J.*, **806**, 32, [10.1088/0004-637X/806/1/32](https://doi.org/10.1088/0004-637X/806/1/32).
- [90] Kojima, H., H. M. Antia, S. R. Dugad, S. K. Gupta, Y. Hayashi, P. Jagadeesan, A. Jain, S. Kawakami, P. K. Mohanty, T. Nonaka, A. Oshima, B. S. Rao, and S. Shibata (2015), Measurement of the radial density gradient of cosmic ray in the heliosphere by the GRAPES-3 experiment, *Astroparticle Phys.*, **62**, 21–29, [10.1016/j.astropartphys.2014.07.003](https://doi.org/10.1016/j.astropartphys.2014.07.003).
- [91] Korotova, I. G., D. G. Sibeck, K. Tahakashi, L. Dai, H. E. Spence, K.-J. Hwang, J. R. Wygant, J. W. Manweiler, P. S. Moya, P. S. Moya, and R. J. Redmon (2015), Van Allen Probe observations of drift-bounce resonances with Pc 4 pulsations and waveparticle interactions in the pre-midnight inner magnetosphere, *Ann. Geophys.*, **33**, 955–964, [10.5194/angeo-33-955-2015](https://doi.org/10.5194/angeo-33-955-2015).
- [92] Kouloumvakos, A., A. Ninos, E. Valtonen, C. E. Alissandrakis, O. Malandraki, P. Tsimis, A. Kontogeorgos, X. Moussas, and A. Hillaris (2015), Properties of solar energetic particle events inferred from their associated radio emission, *Astron. & Astrophys.*, **580**, A80, [10.1051/0004-6361/201424397](https://doi.org/10.1051/0004-6361/201424397).
- [93] Krafft, C., A. S. Volokitin, and V. V. Krasnoselskikh (2015), Langmuir Wave Decay in Inhomogeneous Solar Wind Plasmas: Simulation Results, *Astrophys. J.*, **809**, 176, [10.1088/0004-637X/809/2/176](https://doi.org/10.1088/0004-637X/809/2/176).

List of Refereed Publications
Wind Spacecraft: 2015

- [94] Kryakunova, O., A. Belov, A. Abunin, M. Abunina, E. Eroshenko, A. Malimbayev, I. Tsepakina, and V. Yanke (2015), Recurrent and sporadic Forbush-effects in deep solar minimum, *J. Phys. Conf. Ser.*, **632**(1), 012062, [10.1088/1742-6596/632/1/012062](https://doi.org/10.1088/1742-6596/632/1/012062).
- [95] Kubyshkina, M., N. Tsyganenko, V. Semenov, D. Kubyshkina, N. Partamies, and E. Gordeev (2015), Further evidence for the role of magnetotail current shape in sub-storm initiation, *Earth, Planets, and Space*, **67**, 139, [10.1186/s40623-015-0304-1](https://doi.org/10.1186/s40623-015-0304-1).
- [96] Kumar, P., V. M. Nakariakov, and K.-S. Cho (2015), X-Ray and EUV Observations of Simultaneous Short and Long Period Oscillations in Hot Coronal Arcade Loops, *Astrophys. J.*, **804**, 4, [10.1088/0004-637X/804/1/4](https://doi.org/10.1088/0004-637X/804/1/4).
- [97] Kundert, A., F. Gastaldello, E. D’Onghia, M. Girardi, J. A. L. Aguerri, R. Barrena, E. M. Corsini, S. De Grandi, E. Jiménez-Bailón, M. Lozada-Muñoz, J. Méndez-Abreu, R. Sánchez-Janssen, E. Wilcots, and S. Zarattini (2015), Fossil group origins - VI. Global X-ray scaling relations of fossil galaxy clusters, *Mon. Not. Roy. Astron. Soc.*, **454**, 161–176, [10.1093/mnras/stv1879](https://doi.org/10.1093/mnras/stv1879).
- [98] Lakhina, G. S., and S. V. Singh (2015), Generation of Weak Double Layers and Low-Frequency Electrostatic Waves in the Solar Wind, *Solar Phys.*, **290**, 3033–3049, [10.1007/s11207-015-0773-1](https://doi.org/10.1007/s11207-015-0773-1).
- [99] Lalescu, C. C., Y.-K. Shi, G. L. Eyink, T. D. Drivas, E. T. Vishniac, and A. Lazarian (2015), Inertial-Range Reconnection in Magnetohydrodynamic Turbulence and in the Solar Wind, *Phys. Rev. Lett.*, **115**(2), 025001, [10.1103/PhysRevLett.115.025001](https://doi.org/10.1103/PhysRevLett.115.025001).
- [100] Laming, J. M. (2015), The FIP and Inverse FIP Effects in Solar and Stellar Coronae, *Living Rev. Solar Phys.*, **12**, [10.1007/lrsp-2015-2](https://doi.org/10.1007/lrsp-2015-2).
- [101] Larson, D. E., R. J. Lillis, C. O. Lee, P. A. Dunn, K. Hatch, M. Robinson, D. Glaser, J. Chen, D. Curtis, C. Tiu, R. P. Lin, J. G. Luhmann, and B. M. Jakosky (2015), The MAVEN Solar Energetic Particle Investigation, *Space Sci. Rev.*, **195**, 153–172, [10.1007/s11214-015-0218-z](https://doi.org/10.1007/s11214-015-0218-z).
- [102] Lawrance, M. B., A. Shanmugaraju, and B. Vršnak (2015), Investigation of X-class Flare-Associated Coronal Mass Ejections with and without DH Type II Radio Bursts, *Solar Phys.*, **290**, 3365–3377, [10.1007/s11207-015-0811-z](https://doi.org/10.1007/s11207-015-0811-z).
- [103] Lazarian, A., G. Eyink, E. Vishniac, and G. Kowal (2015), Turbulent reconnection and its implications, *Phil. Trans. R. Soc. A*, **373**, 20140,144–20140,144, [10.1098/rsta.2014.0144](https://doi.org/10.1098/rsta.2014.0144).
- [104] Lepping, R. P., C.-C. Wu, and D. B. Berdichevsky (2015), Yearly Comparison of Magnetic Cloud Parameters, Sunspot Number, and Interplanetary Quantities for the First 18 Years of the Wind Mission, *Solar Phys.*, **290**, 553–578, [10.1007/s11207-014-0622-7](https://doi.org/10.1007/s11207-014-0622-7).
- [105] Lepping, R. P., C.-C. Wu, D. B. Berdichevsky, and A. Szabo (2015), Wind Magnetic Clouds for 2010 - 2012: Model Parameter Fittings, Associated Shock Waves, and Comparisons to Earlier Periods, *Solar Phys.*, **290**, 2265–2290, [10.1007/s11207-015-0755-3](https://doi.org/10.1007/s11207-015-0755-3).

List of Refereed Publications
Wind Spacecraft: 2015

- [106] Li, W., R. M. Thorne, J. Bortnik, D. N. Baker, G. D. Reeves, S. G. Kanekal, H. E. Spence, and J. C. Green (2015), Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis, *Geophys. Res. Lett.*, **42**, 6906–6915, [10.1002/2015GL065342](https://doi.org/10.1002/2015GL065342).
- [107] Liu, Y. D., H. Hu, R. Wang, Z. Yang, B. Zhu, Y. A. Liu, J. G. Luhmann, and J. D. Richardson (2015), Plasma and Magnetic Field Characteristics of Solar Coronal Mass Ejections in Relation to Geomagnetic Storm Intensity and Variability, *Astrophys. J. Lett.*, **809**, L34, [10.1088/2041-8205/809/2/L34](https://doi.org/10.1088/2041-8205/809/2/L34).
- [108] López, R. A., V. Muñoz, A. F. Viñas, and J. A. Valdivia (2015), Propagation of localized structures in relativistic magnetized electron-positron plasmas using particle-in-cell simulations, *Phys. Plasmas*, **22**(9), 092115, [10.1063/1.4930266](https://doi.org/10.1063/1.4930266).
- [109] Lopez, R. E., W. D. Gonzalez, V. Vasyliūnas, I. G. Richardson, C. Cid, E. Echer, G. D. Reeves, and P. C. Brandt (2015), Decrease in SYM-H during a storm main phase without evidence of a ring current injection, *J. Atmos. Solar-Terr. Phys.*, **134**, 118–129, [10.1016/j.jastp.2015.09.016](https://doi.org/10.1016/j.jastp.2015.09.016).
- [110] Lotz, S., B. Heilig, and P. Sutcliffe (2015), A solar-wind-driven empirical model of Pc3 wave activity at a mid-latitude location, *Ann. Geophys.*, **33**, 225–234, [10.5194/angeo-33-225-2015](https://doi.org/10.5194/angeo-33-225-2015).
- [111] Lotz, S. I., and P. J. Cilliers (2015), A solar wind-based model of geomagnetic field fluctuations at a mid-latitude station, *Adv. Space Res.*, **55**, 220–230, [10.1016/j.asr.2014.09.014](https://doi.org/10.1016/j.asr.2014.09.014).
- [112] Lugaz, N. (2015), Eruptive Prominences and Their Impact on the Earth and Our Life, in *Solar Prominences, Astrophysics and Space Science Library*, vol. 415, edited by J.-C. Vial and O. Engvold, p. 433, [10.1007/978-3-319-10416-4_17](https://doi.org/10.1007/978-3-319-10416-4_17).
- [113] Lugaz, N., and C. Farrugia (2015), Shocks Propagating Inside CMEs: Properties and Impact on Earth’s Magnetosheath and Magnetosphere, in *AAS/AGU Triennial Earth-Sun Summit, AAS/AGU Triennial Earth-Sun Summit*, vol. 1, p. 200.03.
- [114] Lugaz, N., C. J. Farrugia, C. W. Smith, and K. Paulson (2015), Shocks inside CMEs: A survey of properties from 1997 to 2006, *J. Geophys. Res.*, **120**, 2409–2427, [10.1002/2014JA020848](https://doi.org/10.1002/2014JA020848).
- [115] Lugaz, N., C. J. Farrugia, C.-L. Huang, and H. E. Spence (2015), Extreme geomagnetic disturbances due to shocks within CMEs, *Geophys. Res. Lett.*, **42**, 4694–4701, [10.1002/2015GL064530](https://doi.org/10.1002/2015GL064530).
- [116] Ma, Q., W. Li, R. M. Thorne, B. Ni, C. A. Kletzing, W. S. Kurth, G. B. Hospodarsky, G. D. Reeves, M. G. Henderson, H. E. Spence, D. N. Baker, J. B. Blake, J. F. Fennell, S. G. Claudepierre, and V. Angelopoulos (2015), Modeling inward diffusion and slow decay of energetic electrons in the Earth’s outer radiation belt, *Geophys. Res. Lett.*, **42**, 987–995, [10.1002/2014GL062977](https://doi.org/10.1002/2014GL062977).

List of Refereed Publications
Wind Spacecraft: 2015

- [117] Mäkelä, P., N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro (2015), Estimating the Height of CMEs Associated with a Major SEP Event at the Onset of the Metric Type II Radio Burst during Solar Cycles 23 and 24, *Astrophys. J.*, **806**, 13, [10.1088/0004-637X/806/1/13](https://doi.org/10.1088/0004-637X/806/1/13).
- [118] Malandraki, O. E. (2015), Space Weather Research in Greece: The Solar Energetic Particle Perspective, *Sun and Geosphere*, **10**, 21–30.
- [119] Malaspina, D. M., S. G. Claudepierre, K. Takahashi, A. N. Jaynes, S. R. Elkington, R. E. Ergun, J. R. Wygant, G. D. Reeves, and C. A. Kletzing (2015), Kinetic Alfvén waves and particle response associated with a shock-induced, global ULF perturbation of the terrestrial magnetosphere, *Geophys. Res. Lett.*, **42**, 9203–9212, [10.1002/2015GL065935](https://doi.org/10.1002/2015GL065935).
- [120] Malaspina, D. M., L. E. O’Brien, F. Thayer, Z. Sternovsky, and A. Collette (2015), Revisiting STEREO interplanetary and interstellar dust flux and mass estimates, *J. Geophys. Res.*, **120**, 6085–6100, [10.1002/2015JA021352](https://doi.org/10.1002/2015JA021352).
- [121] Maneva, Y. G., A. F. Viñas, P. S. Moya, R. T. Wicks, and S. Poedts (2015), Dissipation of Parallel and Oblique Alfvén-Cyclotron Waves—Implications for Heating of Alpha Particles in the Solar Wind, *Astrophys. J.*, **814**, 33, [10.1088/0004-637X/814/1/33](https://doi.org/10.1088/0004-637X/814/1/33).
- [122] Mannucci, A. J., O. P. Verkhoglyadova, B. T. Tsurutani, X. Meng, X. Pi, C. Wang, G. Rosen, E. Lynch, S. Sharma, A. Ridley, W. Manchester, B. Van Der Holst, E. Echer, and R. Hajra (2015), Medium-Range Thermosphere-Ionosphere Storm Forecasts, *Space Weather*, **13**, 125–129, [10.1002/2014SW001125](https://doi.org/10.1002/2014SW001125).
- [123] Manoharan, P., T. Kim, N. V. Pogorelov, C. N. Arge, and P. K. Manoharan (2015), Modeling solar wind with boundary conditions from interplanetary scintillations, *J. Phys. Conf. Ser.*, **642**(1), 012016, [10.1088/1742-6596/642/1/012016](https://doi.org/10.1088/1742-6596/642/1/012016).
- [124] Markovskii, S. A., B. J. Vasquez, and C. W. Smith (2015), Statistical Analysis of the Magnetic Helicity Signature of the Solar Wind Turbulence at 1 AU, *Astrophys. J.*, **806**, 78, [10.1088/0004-637X/806/1/78](https://doi.org/10.1088/0004-637X/806/1/78).
- [125] Martinez-Calderon, C., K. Shiokawa, Y. Miyoshi, M. Ozaki, I. Schofield, and M. Connors (2015), Polarization analysis of VLF/ELF waves observed at subauroral latitudes during the VLF-CHAIN campaign, *Earth, Planets, and Space*, **67**, 21, [10.1186/s40623-014-0178-7](https://doi.org/10.1186/s40623-014-0178-7).
- [126] Martínez-Oliveros, J. C., C. Raftery, H. Bain, Y. Liu, M. Pulupa, P. Saint-Hilaire, P. Higgins, V. Krupar, S. Krucker, and S. D. Bale (2015), STEREO- Wind Radio Positioning of an Unusually Slow Drifting Event, *Solar Phys.*, **290**, 891–901, [10.1007/s11207-014-0638-z](https://doi.org/10.1007/s11207-014-0638-z).
- [127] Mays, M. L., A. Taktakishvili, A. Pulkkinen, P. J. MacNeice, L. Rastätter, D. Odstreil, L. K. Jian, I. G. Richardson, J. A. LaSota, Y. Zheng, and M. M. Kuznetsova (2015), Ensemble Modeling of CMEs Using the WSA-ENLIL+Cone Model, *Solar Phys.*, **290**, 1775–1814, [10.1007/s11207-015-0692-1](https://doi.org/10.1007/s11207-015-0692-1).

List of Refereed Publications
Wind Spacecraft: 2015

- [128] Mays, M. L., B. J. Thompson, L. K. Jian, R. C. Colaninno, D. Odstrcil, C. Möstl, M. Temmer, N. P. Savani, G. Collinson, A. Taktakishvili, P. J. MacNeice, and Y. Zheng (2015), Propagation of the 7 January 2014 CME and Resulting Geomagnetic Non-event, *Astrophys. J.*, **812**, 145, [10.1088/0004-637X/812/2/145](https://doi.org/10.1088/0004-637X/812/2/145).
- [129] McIntosh, S. W., R. J. Leamon, L. D. Krista, A. M. Title, H. S. Hudson, P. Riley, J. W. Harder, G. Kopp, M. Snow, T. N. Woods, J. C. Kasper, M. L. Stevens, and R. K. Ulrich (2015), The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability, *Nature Comm.*, **6**, 6491, [10.1038/ncomms7491](https://doi.org/10.1038/ncomms7491).
- [130] Meng, X., B. van der Holst, G. Tóth, and T. I. Gombosi (2015), Alfvén wave solar model (AWSOM): proton temperature anisotropy and solar wind acceleration, *Mon. Not. Roy. Astron. Soc.*, **454**, 3697–3709, [10.1093/mnras/stv2249](https://doi.org/10.1093/mnras/stv2249).
- [131] Michael, A. T., M. Opher, E. Provornikova, J. D. Richardson, and G. Tóth (2015), Magnetic Flux Conservation in the Heliosheath Including Solar Cycle Variations of Magnetic Field Intensity, *Astrophys. J. Lett.*, **803**, L6, [10.1088/2041-8205/803/1/L6](https://doi.org/10.1088/2041-8205/803/1/L6).
- [132] Min, K., K. Liu, J. W. Bonnell, A. W. Breneman, R. E. Denton, H. O. Funsten, J.-M. Jahn, C. A. Kletzing, W. S. Kurth, B. A. Larsen, G. D. Reeves, H. E. Spence, and J. R. Wygant (2015), Study of EMIC wave excitation using direct ion measurements, *J. Geophys. Res.*, **120**, 2702–2719, [10.1002/2014JA020717](https://doi.org/10.1002/2014JA020717).
- [133] Mishra, W., and N. Srivastava (2015), Heliospheric tracking of enhanced density structures of the 6 October 2010 CME, *J. Space Weather Space Clim.*, **5**(27), A20, [10.1051/swsc/2015021](https://doi.org/10.1051/swsc/2015021).
- [134] Mishra, W., N. Srivastava, and D. Chakrabarty (2015), Evolution and Consequences of Interacting CMEs of 9 - 10 November 2012 Using STEREO/SECCHI and In Situ Observations, *Solar Phys.*, **290**, 527–552, [10.1007/s11207-014-0625-4](https://doi.org/10.1007/s11207-014-0625-4).
- [135] Mishra, W., N. Srivastava, and T. Singh (2015), Kinematics of interacting CMEs of 25 and 28 September 2012, *J. Geophys. Res.*, **120**, 10, [10.1002/2015JA021415](https://doi.org/10.1002/2015JA021415).
- [136] Mistry, R., J. P. Eastwood, and H. Hietala (2015), Detection of small-scale folds at a solar wind reconnection exhaust, *J. Geophys. Res.*, **120**, 30–42, [10.1002/2014JA020465](https://doi.org/10.1002/2014JA020465).
- [137] Mistry, R., J. P. Eastwood, T. D. Phan, and H. Hietala (2015), Development of bifurcated current sheets in solar wind reconnection exhausts, *Geophys. Res. Lett.*, **42**, 10, [10.1002/2015GL066820](https://doi.org/10.1002/2015GL066820).
- [138] Mittal, N., and U. Narain (2015), On the arrival times of halo Coronal Mass Ejections in the vicinity of the Earth, *NRIAG J. Astron. Geophys.*, **4**, 100–105, [10.1016/j.nrjag.2015.05.001](https://doi.org/10.1016/j.nrjag.2015.05.001).
- [139] Moiseev, A. V., D. G. Baishev, E. S. Barkova, A. Du, and K. Yumoto (2015), Specific features of the generation of long-periodic geomagnetic pulsations in the event on June 25, 2008, *Cosmic Res.*, **53**, 111–118, [10.1134/S0010952515020057](https://doi.org/10.1134/S0010952515020057).

List of Refereed Publications
Wind Spacecraft: 2015

- [140] Moiseyev, A. V., V. I. Popov, V. A. Mullayarov, S. N. Samsonov, A. Du, and A. Yoshikawa (2015), Generation of different long-period geomagnetic pulsations during a sudden impulse, *Cosmic Res.*, **53**, 257–266, [10.1134/S001095251504005X](https://doi.org/10.1134/S001095251504005X).
- [141] Möstl, C., T. Rollett, R. A. Frahm, Y. D. Liu, D. M. Long, R. C. Colaninno, M. A. Reiss, M. Temmer, C. J. Farrugia, A. Posner, M. Dumbović, M. Janvier, P. Démoulin, P. Boakes, A. Devos, E. Kraaikamp, M. L. Mays, and B. Vršnak (2015), Strong coronal channelling and interplanetary evolution of a solar storm up to Earth and Mars, *Nature Comm.*, **6**, 7135, [10.1038/ncomms8135](https://doi.org/10.1038/ncomms8135).
- [142] Motoba, T., K. Takahashi, A. Ukhorskiy, M. Gkioulidou, D. G. Mitchell, L. J. Lanzerotti, G. I. Korotova, E. F. Donovan, J. R. Wygant, C. A. Kletzing, W. S. Kurth, and J. B. Blake (2015), Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager, *J. Geophys. Res.*, **120**, 1814–1831, [10.1002/2014JA020863](https://doi.org/10.1002/2014JA020863).
- [143] Moya, P. S., V. A. Pinto, A. F. Viñas, D. G. Sibeck, W. S. Kurth, G. B. Hospodarsky, and J. R. Wygant (2015), Weak kinetic Alfvén waves turbulence during the 14 November 2012 geomagnetic storm: Van Allen Probes observations, *J. Geophys. Res.*, **120**, 5504–5523, [10.1002/2014JA020281](https://doi.org/10.1002/2014JA020281).
- [144] Mursula, K., R. Lukianova, and L. Holappa (2015), Occurrence of High-speed Solar Wind Streams over the Grand Modern Maximum, *Astrophys. J.*, **801**, 30, [10.1088/0004-637X/801/1/30](https://doi.org/10.1088/0004-637X/801/1/30).
- [145] Myllys, M., E. Kilpua, and T. Pulkkinen (2015), Solar-wind control of plasma sheet dynamics, *Ann. Geophys.*, **33**, 845–855, [10.5194/angeo-33-845-2015](https://doi.org/10.5194/angeo-33-845-2015).
- [146] Naor, Y., and U. Keshet (2015), Magnetohydrodynamics Using Path or Stream Functions, *Astrophys. J.*, **810**, 152, [10.1088/0004-637X/810/2/152](https://doi.org/10.1088/0004-637X/810/2/152).
- [147] Ni, B., Z. Zou, X. Gu, C. Zhou, R. M. Thorne, J. Bortnik, R. Shi, Z. Zhao, D. N. Baker, S. G. Kanekal, H. E. Spence, G. D. Reeves, and X. Li (2015), Variability of the pitch angle distribution of radiation belt ultrarelativistic electrons during and following intense geomagnetic storms: Van Allen Probes observations, *J. Geophys. Res.*, **120**, 4863–4876, [10.1002/2015JA021065](https://doi.org/10.1002/2015JA021065).
- [148] Niembro, T., J. Cantó, A. Lara, and R. F. González (2015), An Analytical Model of Interplanetary Coronal Mass Ejection Interactions, *Astrophys. J.*, **811**, 69, [10.1088/0004-637X/811/1/69](https://doi.org/10.1088/0004-637X/811/1/69).
- [149] Nieves-Chinchilla, T., A. Vourlidas, A. Szabo, N. Savani, M. L. Mays, M. A. Hidalgo, and Y. Wenyuan (2015), Earth-directed ICME magnetic field configurations, in *AAS/AGU Triennial Earth-Sun Summit*, *AAS/AGU Triennial Earth-Sun Summit*, vol. 1, p. 210.04.
- [150] Nikolaeva, N., Y. Yermolaev, and I. Lodkina (2015), Predicted dependence of the cross polar cap potential saturation on the type of solar wind stream, *Adv. Space Res.*, **56**, 1366–1373, [10.1016/j.asr.2015.06.029](https://doi.org/10.1016/j.asr.2015.06.029).

List of Refereed Publications
Wind Spacecraft: 2015

- [151] Nishino, M. N., Y. Saito, H. Tsunakawa, F. Takahashi, M. Fujimoto, Y. Harada, S. Yokota, M. Matsushima, H. Shibuya, and H. Shimizu (2015), Electrons on closed field lines of lunar crustal fields in the solar wind wake, *Icarus*, **250**, 238–248, [10.1016/j.icarus.2014.12.007](https://doi.org/10.1016/j.icarus.2014.12.007).
- [152] Nitta, N. V., G. M. Mason, L. Wang, C. M. S. Cohen, and M. E. Wiedenbeck (2015), Solar Sources of ³He-rich Solar Energetic Particle Events in Solar Cycle 24, *Astrophys. J.*, **806**, 235, [10.1088/0004-637X/806/2/235](https://doi.org/10.1088/0004-637X/806/2/235).
- [153] Nosé, M., S. Oimatsu, K. Keika, C. A. Kletzing, W. S. Kurth, S. D. Pascuale, C. W. Smith, R. J. MacDowall, S. Nakano, G. D. Reeves, H. E. Spence, and B. A. Larsen (2015), Formation of the oxygen torus in the inner magnetosphere: Van Allen Probes observations, *J. Geophys. Res.*, **120**, 1182–1196, [10.1002/2014JA020593](https://doi.org/10.1002/2014JA020593).
- [154] Oliveira, D. M., J. Raeder, B. T. Tsurutani, and J. W. Gjerloev (2016), Effects of Interplanetary Shock Inclinations on Nightside Auroral Power Intensity, *Brazilian J. Phys.*, **46**, 97–104, [10.1007/s13538-015-0389-9](https://doi.org/10.1007/s13538-015-0389-9).
- [155] Opher, M., J. F. Drake, B. Zieger, and T. I. Gombosi (2015), Magnetized Jets Driven By the Sun: the Structure of the Heliosphere Revisited, *Astrophys. J. Lett.*, **800**, L28, [10.1088/2041-8205/800/2/L28](https://doi.org/10.1088/2041-8205/800/2/L28).
- [156] Pacini, A. A., and I. G. Usoskin (2015), An Unusual Pattern of Cosmic-Ray Modulation During Solar Cycles 23 and 24, *Solar Phys.*, **290**, 943–950, [10.1007/s11207-014-0645-0](https://doi.org/10.1007/s11207-014-0645-0).
- [157] Pan, Q. (2015), Charged Particle Energization and Transport in the Magnetotail during Substorms, Ph.D. thesis, University of California, Los Angeles.
- [158] Panda, S. K., S. S. Gedam, G. Rajaram, S. Sripathi, and A. Bhaskar (2015), Impact of the 15 January 2010 annular solar eclipse on the equatorial and low latitude ionosphere over the Indian region, *J. Atmos. Solar-Terr. Phys.*, **135**, 181–191, [10.1016/j.jastp.2015.11.004](https://doi.org/10.1016/j.jastp.2015.11.004).
- [159] Paral, J., M. K. Hudson, B. T. Kress, M. J. Wiltberger, J. R. Wygant, and H. J. Singer (2015), Magnetohydrodynamic modeling of three Van Allen Probes storms in 2012 and 2013, *Ann. Geophys.*, **33**, 1037–1050, [10.5194/angeo-33-1037-2015](https://doi.org/10.5194/angeo-33-1037-2015).
- [160] Park, J., D. E. Innes, R. Bucik, Y.-J. Moon, and S. W. Kahler (2015), Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves, *Astrophys. J.*, **808**, 3, [10.1088/0004-637X/808/1/3](https://doi.org/10.1088/0004-637X/808/1/3).
- [161] Park, W., J. Lee, Y. Yi, N. Ssessanga, and S. Oh (2015), Storm Sudden Commencements Without Interplanetary Shocks, *J. Astron. Space Sci.*, **32**, 181–187, [10.5140/JASS.2015.32.3.181](https://doi.org/10.5140/JASS.2015.32.3.181).
- [162] Parkhomov, V. A., N. L. Borodkova, V. G. Eselevich, and M. V. Eselevich (2015), Abrupt changes of density in sporadic solar wind and their effect on Earth magnetosphere, *Cosmic Res.*, **53**, 411–422, [10.1134/S0010952515050093](https://doi.org/10.1134/S0010952515050093).

List of Refereed Publications
Wind Spacecraft: 2015

- [163] Petrie, G. J. D. (2015), On the Enhanced Coronal Mass Ejection Detection Rate since the Solar Cycle 23 Polar Field Reversal, *Astrophys. J.*, **812**, 74, [10.1088/0004-637X/812/1/74](https://doi.org/10.1088/0004-637X/812/1/74).
- [164] Petrie, G. J. D. (2015), Solar Magnetism in the Polar Regions, *Living Reviews in Solar Physics*, **12**, [10.1007/lrsp-2015-5](https://doi.org/10.1007/lrsp-2015-5).
- [165] Pham, K. H. (2014), Investigating the global geospace response to a period of solar wind high speed streams using the Lyon-Fedder-Mobarry MHD simulation, Ph.D. thesis, The University of Texas at Arlington.
- [166] Podesta, J. J. (2015), On the resolution of the phase space density required to obtain a specified accuracy of the solar wind bulk velocity, *J. Geophys. Res.*, **120**, 3350–3365, [10.1002/2015JA021010](https://doi.org/10.1002/2015JA021010).
- [167] Pohjolainen, S., M. Karlický, L. van Driel-Gesztelyi, and C. H. Mandrini (2015), New Eyes Looking at Solar Activity: Challenges for Theory and Simulations - Placing It into Context, *Solar Phys.*, **290**, 1–5, [10.1007/s11207-014-0631-6](https://doi.org/10.1007/s11207-014-0631-6).
- [168] Pohjolainen, S., F. Al-Hamadani, and E. Valtonen (2016), Propagation of Solar Energetic Particles During Multiple Coronal Mass Ejection Events, *Solar Phys.*, [10.1007/s11207-015-0835-4](https://doi.org/10.1007/s11207-015-0835-4).
- [169] Pokhotelov, D., I. J. Rae, K. R. Murphy, and I. R. Mann (2015), The influence of solar wind variability on magnetospheric ULF wave power, *Ann. Geophys.*, **33**, 697–701, [10.5194/angeo-33-697-2015](https://doi.org/10.5194/angeo-33-697-2015).
- [170] Posch, J. L., M. J. Engebretson, C. N. Olson, S. A. Thaller, A. W. Breneman, J. R. Wygant, S. A. Boardsen, C. A. Kletzing, C. W. Smith, and G. D. Reeves (2015), Low-harmonic magnetosonic waves observed by the Van Allen Probes, *J. Geophys. Res.*, **120**, 6230–6257, [10.1002/2015JA021179](https://doi.org/10.1002/2015JA021179).
- [171] Prikryl, P., R. Ghoddousi-Fard, L. Spogli, C. N. Mitchell, G. Li, B. Ning, P. J. Cilliers, V. Sreeja, M. Aquino, M. Terkildsen, P. T. Jayachandran, Y. Jiao, Y. T. Morton, J. M. Ruohoniemi, E. G. Thomas, Y. Zhang, A. T. Weatherwax, L. Alfonsi, G. De Franceschi, and V. Romano (2015), GPS phase scintillation at high latitudes during geomagnetic storms of 7-17 March 2012 - Part 2: Interhemispheric comparison, *Ann. Geophys.*, **33**, 657–670, [10.5194/angeo-33-657-2015](https://doi.org/10.5194/angeo-33-657-2015).
- [172] Purohit, P. K., A. A. Mansoori, P. A. Khan, R. Atulkar, P. Bhawre, S. C. Tripathi, P. Khatarkar, S. Bhardwaj, A. M. Aslam, M. A. Waheed, and A. K. Gwal (2015), Evaluation of geomagnetic storm effects on the GPS derived Total Electron Content (TEC), *J. Phys. Conf. Ser.*, **640**(1), 012072, [10.1088/1742-6596/640/1/012072](https://doi.org/10.1088/1742-6596/640/1/012072).
- [173] Reames, D. V. (2015), What Are the Sources of Solar Energetic Particles? Element Abundances and Source Plasma Temperatures, *Space Sci. Rev.*, **194**, 303–327, [10.1007/s11214-015-0210-7](https://doi.org/10.1007/s11214-015-0210-7).

List of Refereed Publications
Wind Spacecraft: 2015

- [174] Reames, D. V., E. W. Cliver, and S. W. Kahler (2015), Temperature of the Source Plasma for Impulsive Solar Energetic Particles, *Solar Phys.*, **290**, 1761–1774, [10.1007/s11207-015-0711-2](https://doi.org/10.1007/s11207-015-0711-2).
- [175] Reid, H. A. S., and E. P. Kontar (2015), Stopping frequency of type III solar radio bursts in expanding magnetic flux tubes, *Astron. & Astrophys.*, **577**, A124, [10.1051/0004-6361/201425309](https://doi.org/10.1051/0004-6361/201425309).
- [176] Reiner, M. J., and R. J. MacDowall (2015), Electron Exciter Speeds Associated with Interplanetary Type III Solar Radio Bursts, *Solar Phys.*, **290**, 2975–3004, [10.1007/s11207-015-0779-8](https://doi.org/10.1007/s11207-015-0779-8).
- [177] Ritter, B., A. J. H. Meskers, O. Miles, M. Rußwurm, S. Scully, A. Roldán, O. Hartkorn, P. Jüstel, V. Réville, S. Lupu, and A. Ruffenach (2015), A Space weather information service based upon remote and in-situ measurements of coronal mass ejections heading for Earth. A concept mission consisting of six spacecraft in a heliocentric orbit at 0.72 AU, *J. Space Weather Space Clim.*, **5**(27), A3, [10.1051/swsc/2015006](https://doi.org/10.1051/swsc/2015006).
- [178] Ruffenach, A., B. Lavraud, C. J. Farrugia, P. Démoulin, S. Dasso, M. J. Owens, J.-A. Sauvaud, A. P. Rouillard, A. Lynnyk, C. Foullon, N. P. Savani, J. G. Luhmann, and A. B. Galvin (2015), Statistical study of magnetic cloud erosion by magnetic reconnection, *J. Geophys. Res.*, **120**, 43–60, [10.1002/2014JA020628](https://doi.org/10.1002/2014JA020628).
- [179] Sachdeva, N., P. Subramanian, R. Colaninno, and A. Vourlidas (2015), CME Propagation: Where does Aerodynamic Drag 'Take Over'?, *Astrophys. J.*, **809**, 158, [10.1088/0004-637X/809/2/158](https://doi.org/10.1088/0004-637X/809/2/158).
- [180] Safargaleev, V. V., T. I. Sergienko, A. V. Safargaleev, and A. L. Kotikov (2015), Magnetic and optical measurements and signatures of reconnection in the cusp and vicinity, *Phys. Uspekhi*, **58**, 612-620, [10.3367/UFNe.0185.201506j.0655](https://doi.org/10.3367/UFNe.0185.201506j.0655).
- [181] Šafránková, J., Z. Němeček, F. Němec, L. Přech, A. Pitňa, C. H. K. Chen, and G. N. Zastenker (2015), Solar Wind Density Spectra around the Ion Spectral Break, *Astrophys. J.*, **803**, 107, [10.1088/0004-637X/803/2/107](https://doi.org/10.1088/0004-637X/803/2/107).
- [182] Sakaguchi, K., T. Nagatsuma, G. D. Reeves, and H. E. Spence (2015), Prediction of MeV electron fluxes throughout the outer radiation belt using multivariate autoregressive models, *Space Weather*, **13**, 853–867, [10.1002/2015SW001254](https://doi.org/10.1002/2015SW001254).
- [183] Salas-Matamoros, C., and K.-L. Klein (2015), On the Statistical Relationship Between CME Speed and Soft X-Ray Flux and Fluence of the Associated Flare, *Solar Phys.*, **290**, 1337–1353, [10.1007/s11207-015-0677-0](https://doi.org/10.1007/s11207-015-0677-0).
- [184] Sandholt, P. E., C. J. Farrugia, and W. F. Denig (2015), Transitions between states of magnetotail-ionosphere coupling and the role of solar wind dynamic pressure: the 25 July 2004 interplanetary CME case, *Ann. Geophys.*, **33**, 427–436, [10.5194/angeo-33-427-2015](https://doi.org/10.5194/angeo-33-427-2015).

List of Refereed Publications
Wind Spacecraft: 2015

- [185] Savani, N. P., A. Vourlidas, A. Szabo, M. L. Mays, I. G. Richardson, B. J. Thompson, A. Pulkkinen, R. Evans, and T. Nieves-Chinchilla (2015), Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 1. Initial architecture, *Space Weather*, **13**, 374–385, [10.1002/2015SW001171](https://doi.org/10.1002/2015SW001171).
- [186] Segarra, A., M. Nosé, J. José Curto, and T. Araki (2015), Multipoint observation of the response of the magnetosphere and ionosphere related to the sudden impulse event on 19 November 2007, *J. Space Weather Space Clim.*, **5**(27), A13, [10.1051/swsc/2015016](https://doi.org/10.1051/swsc/2015016).
- [187] Sergeev, V. A., N. P. Dmitrieva, N. A. Stepanov, D. A. Sormakov, V. Angelopoulos, and A. V. Runov (2015), On the plasma sheet dependence on solar wind and substorms and its role in magnetosphere-ionosphere coupling, *Earth, Planets, and Space*, **67**, 133, [10.1186/s40623-015-0296-x](https://doi.org/10.1186/s40623-015-0296-x).
- [188] Servidio, S., F. Valentini, D. Perrone, A. Greco, F. Califano, W. H. Matthaeus, and P. Veltri (2015), A kinetic model of plasma turbulence, *J. Plasma Phys.*, **81**(1), 325810107, [10.1017/S0022377814000841](https://doi.org/10.1017/S0022377814000841).
- [189] Shaaban, S. M., M. Lazar, S. Poedts, and A. Elhanbaly (2015), Effects of Electrons on the Electromagnetic Ion Cyclotron Instability: Solar Wind Implications, *Astrophys. J.*, **814**, 34, [10.1088/0004-637X/814/1/34](https://doi.org/10.1088/0004-637X/814/1/34).
- [190] Shanmugaraju, A., and M. Benedict Lawrance (2015), Halo Coronal Mass Ejections and Their Relation to DH Type-II Radio Bursts, *Solar Phys.*, **290**, 2963–2973, [10.1007/s11207-015-0765-1](https://doi.org/10.1007/s11207-015-0765-1).
- [191] Shanmugaraju, A., M. Syed Ibrahim, Y.-J. Moon, K. Kasro Lourdhina, and M. Dharanya (2015), Arrival time of solar eruptive CMEs associated with ICMEs of magnetic cloud and ejecta, *Astrophys. Space Sci.*, **357**, 69, [10.1007/s10509-015-2251-5](https://doi.org/10.1007/s10509-015-2251-5).
- [192] Sharma, J., N. Mittal, and U. Narain (2015), On some statistical characteristics of radio-rich CMEs in the solar cycles 23 and 24, *NRIAG J. Astron. Geophys.*, **4**, 44–47, [10.1016/j.nrjag.2015.03.001](https://doi.org/10.1016/j.nrjag.2015.03.001).
- [193] Shi, M. J., C. J. Xiao, Q. S. Li, H. G. Wang, X. G. Wang, and H. Li (2015), Observations of Alfvén and Slow Waves in the Solar Wind near 1 AU, *Astrophys. J.*, **815**, 122, [10.1088/0004-637X/815/2/122](https://doi.org/10.1088/0004-637X/815/2/122).
- [194] Shi, T., Y. Wang, L. Wan, X. Cheng, M. Ding, and J. Zhang (2015), Predicting the Arrival Time of Coronal Mass Ejections with the Graduated Cylindrical Shell and Drag Force Model, *Astrophys. J.*, **806**, 271, [10.1088/0004-637X/806/2/271](https://doi.org/10.1088/0004-637X/806/2/271).
- [195] Shprits, Y. Y., A. C. Kellerman, A. Y. Drozdov, H. E. Spence, G. D. Reeves, and D. N. Baker (2015), Combined convective and diffusive simulations: VERB-4D comparison with 17 March 2013 Van Allen Probes observations, *Geophys. Res. Lett.*, **42**, 9600–9608, [10.1002/2015GL065230](https://doi.org/10.1002/2015GL065230).

List of Refereed Publications
Wind Spacecraft: 2015

- [196] Simionescu, A., N. Werner, O. Urban, S. W. Allen, Y. Ichinohe, and I. Zhuravleva (2015), A Uniform Contribution of Core-collapse and Type Ia Supernovae to the Chemical Enrichment Pattern in the Outskirts of the Virgo Cluster, *Astrophys. J. Lett.*, **811**, L25, [10.1088/2041-8205/811/2/L25](https://doi.org/10.1088/2041-8205/811/2/L25).
- [197] Singer, L. P., M. M. Kasliwal, S. B. Cenko, D. A. Perley, G. E. Anderson, G. C. Anupama, I. Arcavi, V. Bhalerao, B. D. Bue, Y. Cao, V. Connaughton, A. Corsi, A. Cucchiara, R. P. Fender, D. B. Fox, N. Gehrels, A. Goldstein, J. Gorosabel, A. Horesh, K. Hurley, J. Johansson, D. A. Kann, C. Kouveliotou, K. Huang, S. R. Kulkarni, F. Masci, P. Nugent, A. Rau, U. D. Rebbapragada, T. D. Staley, D. Svinkin, C. C. Thöne, A. de Ugarte Postigo, Y. Urata, and A. Weinstein (2015), The Needle in the 100 deg² Haystack: Uncovering Afterglows of Fermi GRBs with the Palomar Transient Factory, *Astrophys. J.*, **806**, 52, [10.1088/0004-637X/806/1/52](https://doi.org/10.1088/0004-637X/806/1/52).
- [198] Singh, Y. P., and Badruddin (2015), Solar-rotational oscillation and its harmonics in the solar-wind, geomagnetic and cosmic ray particles during the last two solar minima, *Astrophys. Space Sci.*, **359**, 20, [10.1007/s10509-015-2503-4](https://doi.org/10.1007/s10509-015-2503-4).
- [199] Skalsky, A. A., and A. M. Sadowski (2015), Reflection of solar wind protons from magnetic anomalies of the moon, *Cosmic Res.*, **53**, 70–73, [10.1134/S0010952515010062](https://doi.org/10.1134/S0010952515010062).
- [200] Slemzin, V. A., and Y. S. Shugai (2015), Identification of coronal sources of the solar wind from solar images in the EUV spectral range, *Cosmic Res.*, **53**, 47–58, [10.1134/S0010952515010074](https://doi.org/10.1134/S0010952515010074).
- [201] Sokół, J. M., P. Swaczyna, M. Bzowski, and M. Tokumaru (2015), Reconstruction of Helio-Latitudinal Structure of the Solar Wind Proton Speed and Density, *Solar Phys.*, **290**, 2589–2615, [10.1007/s11207-015-0800-2](https://doi.org/10.1007/s11207-015-0800-2).
- [202] Sokół, J. M., M. Bzowski, M. A. Kubiak, P. Swaczyna, A. Galli, P. Wurz, E. Möbius, H. Kucharek, S. A. Fuselier, and D. J. McComas (2015), The Interstellar Neutral He Haze in the Heliosphere: What Can We Learn?, *Astrophys. J. Suppl.*, **220**, 29, [10.1088/0067-0049/220/2/29](https://doi.org/10.1088/0067-0049/220/2/29).
- [203] Sterken, V. J., P. Strub, H. Krüger, R. von Steiger, and P. Frisch (2015), Sixteen Years of Ulysses Interstellar Dust Measurements in the Solar System. III. Simulations and Data Unveil New Insights into Local Interstellar Dust, *Astrophys. J.*, **812**, 141, [10.1088/0004-637X/812/2/141](https://doi.org/10.1088/0004-637X/812/2/141).
- [204] Su, Z., H. Zhu, F. Xiao, H. Zheng, Y. Wang, C. Shen, M. Zhang, S. Wang, C. A. Kletzing, W. S. Kurth, G. B. Hospodarsky, H. E. Spence, G. D. Reeves, H. O. Funsten, J. B. Blake, D. N. Baker, and J. R. Wygant (2015), Disappearance of plasmaspheric hiss following interplanetary shock, *Geophys. Res. Lett.*, **42**, 3129–3140, [10.1002/2015GL063906](https://doi.org/10.1002/2015GL063906).
- [205] Su, Z., H. Zhu, F. Xiao, Q.-G. Zong, X.-Z. Zhou, H. Zheng, Y. Wang, S. Wang, Y.-X. Hao, Z. Gao, Z. He, D. N. Baker, H. E. Spence, G. D. Reeves, J. B. Blake, and J. R. Wygant (2015), Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons, *Nature Comm.*, **6**, 10096, [10.1038/ncomms10096](https://doi.org/10.1038/ncomms10096).

List of Refereed Publications
Wind Spacecraft: 2015

- [206] Suresh, K., and A. Shanmugaraju (2015), Investigation on Radio-Quiet and Radio-Loud Fast CMEs and Their Associated Flares During Solar Cycles 23 and 24, *Solar Phys.*, **290**, 875–889, [10.1007/s11207-014-0637-0](https://doi.org/10.1007/s11207-014-0637-0).
- [207] Susino, R., A. Bemporad, and S. Mancuso (2015), Physical Conditions of Coronal Plasma at the Transit of a Shock Driven by a Coronal Mass Ejection, *Astrophys. J.*, **812**, 119, [10.1088/0004-637X/812/2/119](https://doi.org/10.1088/0004-637X/812/2/119).
- [208] Svinkin, D. S., K. Hurley, R. L. Aptekar, S. V. Golenetskii, and D. D. Frederiks (2015), A search for giant flares from soft gamma-ray repeaters in nearby galaxies in the Konus-WIND short burst sample, *Mon. Not. Roy. Astron. Soc.*, **447**, 1028–1032, [10.1093/mnras/stu2436](https://doi.org/10.1093/mnras/stu2436).
- [209] Syed Ibrahim, M., A. Shanmugaraju, and M. Benedict Lawrance (2015), Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24, *Adv. Space Res.*, **55**, 407–415, [10.1016/j.asr.2014.09.031](https://doi.org/10.1016/j.asr.2014.09.031).
- [210] Szabo, A. (2015), *NASA Wind Satellite (1994)*, pp. 141–157, [10.1007/978-3-319-03952-7_13](https://doi.org/10.1007/978-3-319-03952-7_13).
- [211] Taguchi, S., K. Hosokawa, and Y. Ogawa (2015), Three-dimensional imaging of the plasma parameters of a moving cusp aurora, *J. Atmos. Solar-Terr. Phys.*, **133**, 98–110, [10.1016/j.jastp.2015.08.012](https://doi.org/10.1016/j.jastp.2015.08.012).
- [212] Takahashi, K., R. E. Denton, W. Kurth, C. Kletzing, J. Wygant, J. Bonnell, L. Dai, K. Min, C. W. Smith, and R. MacDowall (2015), Externally driven plasmaspheric ULF waves observed by the Van Allen Probes, *J. Geophys. Res.*, **120**, 526–552, [10.1002/2014JA020373](https://doi.org/10.1002/2014JA020373).
- [213] Teh, W.-L., M. Abdullah, and A. M. Hasbi (2015), Lack of relationship between geoeffectiveness and orientations of magnetic clouds with bipolar B_z and unipolar southward B_z , *Planet. Space Sci.*, **115**, 27–34, [10.1016/j.pss.2014.11.021](https://doi.org/10.1016/j.pss.2014.11.021).
- [214] Telloni, D., R. Bruno, and L. Trenchi (2015), Radial Evolution of Spectral Characteristics of Magnetic Field Fluctuations at Proton Scales, *Astrophys. J.*, **805**, 46, [10.1088/0004-637X/805/1/46](https://doi.org/10.1088/0004-637X/805/1/46).
- [215] Thaller, S. A., J. R. Wygant, L. Dai, A. W. Breneman, K. Kersten, C. A. Cattell, J. W. Bonnell, J. F. Fennell, M. Gkioulidou, C. A. Kletzing, S. De Pascuale, G. B. Hospodarsky, and S. R. Bounds (2015), Van Allen Probes investigation of the large-scale duskward electric field and its role in ring current formation and plasmasphere erosion in the 1 June 2013 storm, *J. Geophys. Res.*, **120**, 4531–4543, [10.1002/2014JA020875](https://doi.org/10.1002/2014JA020875).
- [216] Thejappa, G., and R. J. MacDowall (2015), Solar Type III Radio Bursts: Directivity Characteristics, *J. Phys. Conf. Ser.*, **642**(1), 012028, [10.1088/1742-6596/642/1/012028](https://doi.org/10.1088/1742-6596/642/1/012028).
- [217] Thomas, S. R., M. J. Owens, M. Lockwood, L. Barnard, and C. J. Scott (2015), Near-Earth Cosmic Ray Decreases Associated with Remote Coronal Mass Ejections, *Astrophys. J.*, **801**, 5, [10.1088/0004-637X/801/1/5](https://doi.org/10.1088/0004-637X/801/1/5).

List of Refereed Publications
Wind Spacecraft: 2015

- [218] Tracy, P. J., J. C. Kasper, T. H. Zurbuchen, J. M. Raines, P. Shearer, and J. Gilbert (2015), Thermalization of Heavy Ions in the Solar Wind, *Astrophys. J.*, **812**, 170, [10.1088/0004-637X/812/2/170](https://doi.org/10.1088/0004-637X/812/2/170).
- [219] Troshichev, O., and D. Sormakov (2015), PC index as a proxy of the solar wind energy that entered into the magnetosphere: 2. Relation to the interplanetary electric field E_{KL} before substorm onset, *Earth, Planets, and Space*, **67**, 170, [10.1186/s40623-015-0338-4](https://doi.org/10.1186/s40623-015-0338-4).
- [220] Trotter, G., S. Samwel, K.-L. Klein, T. Dudok de Wit, and R. Miteva (2015), Statistical Evidence for Contributions of Flares and Coronal Mass Ejections to Major Solar Energetic Particle Events, *Solar Phys.*, **290**, 819–839, [10.1007/s11207-014-0628-1](https://doi.org/10.1007/s11207-014-0628-1).
- [221] Tsurutani, B. T., R. Hajra, E. Echer, and J. W. Gjerloev (2015), Extremely intense (SML ≤ -2500 nT) substorms: isolated events that are externally triggered?, *Ann. Geophys.*, **33**, 519–524, [10.5194/angeo-33-519-2015](https://doi.org/10.5194/angeo-33-519-2015).
- [222] Tsyganenko, N. A., V. A. Andreeva, and E. I. Gordeev (2015), Internally and externally induced deformations of the magnetospheric equatorial current as inferred from spacecraft data, *Ann. Geophys.*, **33**, 1–11, [10.5194/angeo-33-1-2015](https://doi.org/10.5194/angeo-33-1-2015).
- [223] Turner, D. L., S. G. Claudepierre, J. F. Fennell, T. P. O’Brien, J. B. Blake, C. Lemon, M. Gkioulidou, K. Takahashi, G. D. Reeves, S. Thaller, A. Breneman, J. R. Wygant, W. Li, A. Runov, and V. Angelopoulos (2015), Energetic electron injections deep into the inner magnetosphere associated with substorm activity, *Geophys. Res. Lett.*, **42**, 2079–2087, [10.1002/2015GL063225](https://doi.org/10.1002/2015GL063225).
- [224] Ugwu, E. B. I., F. N. Okeke, and O. J. Ugonabo (2015), Solar wind turbulence as a driver of geomagnetic activity, *Advances in Space Research*, **55**, 1748–1753, [10.1016/j.asr.2015.01.013](https://doi.org/10.1016/j.asr.2015.01.013).
- [225] Ukhorskiy, A. Y., M. I. Sitnov, R. M. Millan, B. T. Kress, J. F. Fennell, S. G. Claudepierre, and R. J. Barnes (2015), Global storm time depletion of the outer electron belt, *J. Geophys. Res.*, **120**, 2543–2556, [10.1002/2014JA020645](https://doi.org/10.1002/2014JA020645).
- [226] Živković, T., S. Buchert, P. Ritter, L. Palin, and H. Opgenoorth (2015), Investigation of energy transport and thermospheric upwelling during quiet magnetospheric and ionospheric conditions from the studies of low- and middle-altitude cusp, *Ann. Geophys.*, **33**, 623–635, [10.5194/angeo-33-623-2015](https://doi.org/10.5194/angeo-33-623-2015).
- [227] Valek, P. W., J. Goldstein, J.-M. Jahn, D. J. McComas, and H. E. Spence (2015), First joint in situ and global observations of the medium-energy oxygen and hydrogen in the inner magnetosphere, *J. Geophys. Res.*, **120**, 7615–7628, [10.1002/2015JA021151](https://doi.org/10.1002/2015JA021151).
- [228] Vasanth, V., Y. Chen, X. L. Kong, and B. Wang (2015), Investigation of the Geoeffectiveness of CMEs Associated with IP Type II Radio Bursts, *Solar Phys.*, **290**, 1815–1826, [10.1007/s11207-015-0713-0](https://doi.org/10.1007/s11207-015-0713-0).

List of Refereed Publications
Wind Spacecraft: 2015

- [229] Vemareddy, P., and W. Mishra (2015), A Full Study on the Sun-Earth Connection of an Earth-directed CME Magnetic Flux Rope, *Astrophys. J.*, **814**, 59, [10.1088/0004-637X/814/1/59](https://doi.org/10.1088/0004-637X/814/1/59).
- [230] Verma, P. L. (2015), Ground Level Enhancements in Relation with Energetic Solar Features and Disturbances in Solar Wind Plasma Parameters, *Publ. Korean Astron. Soc.*, **30**, 47–51, [10.5303/PKAS.2015.30.2.047](https://doi.org/10.5303/PKAS.2015.30.2.047).
- [231] von Rosenvinge, T., I. Richardson, H. Cane, E. R. Christian, C. Cohen, A. Cummings, A. Labrador, R. Leske, R. Mewaldt, E. Stone, and M. E. Wiedenbeck (2015), The Longitudinal Propagation of Solar Energetic Particles, in *AAS/AGU Triennial Earth-Sun Summit*, *AAS/AGU Triennial Earth-Sun Summit*, vol. 1, p. 401.05.
- [232] Vorburger, A., P. Wurz, S. Barabash, M. Wieser, Y. Futaana, A. Bhardwaj, and K. Asamura (2015), Imaging the South Pole-Aitken basin in backscattered neutral hydrogen atoms, *Planet. Space Sci.*, **115**, 57–63, [10.1016/j.pss.2015.02.007](https://doi.org/10.1016/j.pss.2015.02.007).
- [233] Vourlidas, A., R. A. Howard, S. P. Plunkett, C. M. Korendyke, A. F. R. Thernisien, D. Wang, N. Rich, M. T. Carter, D. H. Chua, D. G. Socker, M. G. Linton, J. S. Morrill, S. Lynch, A. Thurn, P. Van Dyne, R. Hagood, G. Clifford, P. J. Grey, M. Velli, P. C. Liewer, J. R. Hall, E. M. DeJong, Z. Mikic, P. Rochus, E. Mazy, V. Bothmer, and J. Rodmann (2015), The Wide-Field Imager for Solar Probe Plus (WISPR), *Space Sci. Rev.*, [10.1007/s11214-014-0114-y](https://doi.org/10.1007/s11214-014-0114-y).
- [234] Wang, D., Z. Yuan, X. Yu, X. Deng, M. Zhou, S. Huang, H. Li, Z. Wang, Z. Qiao, C. A. Kletzing, and J. R. Wygant (2015), Statistical characteristics of EMIC waves: Van Allen Probe observations, *J. Geophys. Res.*, **120**, 4400–4408, [10.1002/2015JA021089](https://doi.org/10.1002/2015JA021089).
- [235] Wang, L., L. Yang, J. He, C. Tu, Z. Pei, R. F. Wimmer-Schweingruber, and S. D. Bale (2015), Solar Wind ~20-200 keV Superhalo Electrons at Quiet Times, *Astrophys. J. Lett.*, **803**, L2, [10.1088/2041-8205/803/1/L2](https://doi.org/10.1088/2041-8205/803/1/L2).
- [236] Wang, X., C. Tu, J. He, E. Marsch, L. Wang, and C. Salem (2015), The Spectral Features of Low-amplitude Magnetic Fluctuations in the Solar Wind and Their Comparison with Moderate-amplitude Fluctuations, *Astrophys. J. Lett.*, **810**, L21, [10.1088/2041-8205/810/2/L21](https://doi.org/10.1088/2041-8205/810/2/L21).
- [237] Wang, Y., and G. Qin (2015), Estimation of the Release Time of Solar Energetic Particles near the Sun, *Astrophys. J.*, **799**, 111, [10.1088/0004-637X/799/1/111](https://doi.org/10.1088/0004-637X/799/1/111).
- [238] Wang, Y., F. S. Wei, X. S. Feng, X. J. Xu, J. Zhang, T. R. Sun, and P. B. Zuo (2015), Energy Dissipation Processes in Solar Wind Turbulence, *Astrophys. J. Suppl.*, **221**, 34, [10.1088/0067-0049/221/2/34](https://doi.org/10.1088/0067-0049/221/2/34).
- [239] Wang, Y.-M., and N. R. Sheeley, Jr. (2015), Coronal Mass Ejections and the Solar Cycle Variation of the Sun's Open Flux, *Astrophys. J. Lett.*, **809**, L24, [10.1088/2041-8205/809/2/L24](https://doi.org/10.1088/2041-8205/809/2/L24).

List of Refereed Publications
Wind Spacecraft: 2015

- [240] Weck, P. J., D. A. Schaffner, M. R. Brown, and R. T. Wicks (2015), Permutation entropy and statistical complexity analysis of turbulence in laboratory plasmas and the solar wind, *Phys. Rev. E*, **91**(2), 023101, [10.1103/PhysRevE.91.023101](https://doi.org/10.1103/PhysRevE.91.023101).
- [241] Weygand, J. M., M. G. Kivelson, H. U. Frey, J. V. Rodriguez, V. Angelopoulos, R. Redmon, J. Barker-Ream, A. Grocott, and O. Amm (2015), An interpretation of spacecraft and ground based observations of multiple omega band events, *J. Atmos. Solar-Terr. Phys.*, **133**, 185–204, [10.1016/j.jastp.2015.08.014](https://doi.org/10.1016/j.jastp.2015.08.014).
- [242] Winter, L. M., and K. Ledbetter (2015), Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events, *Astrophys. J.*, **809**, 105, [10.1088/0004-637X/809/1/105](https://doi.org/10.1088/0004-637X/809/1/105).
- [243] Wood, S. R., D. M. Malaspina, L. Andersson, and M. Horanyi (2015), Hypervelocity dust impacts on the Wind spacecraft: Correlations between Ulysses and Wind interstellar dust detections, *J. Geophys. Res.*, **120**, 7121–7129, [10.1002/2015JA021463](https://doi.org/10.1002/2015JA021463).
- [244] Woodger, L. A., A. J. Halford, R. M. Millan, M. P. McCarthy, D. M. Smith, G. S. Bowers, J. G. Sample, B. R. Anderson, and X. Liang (2015), A summary of the BARREL campaigns: Technique for studying electron precipitation, *J. Geophys. Res.*, **120**, 4922–4935, [10.1002/2014JA020874](https://doi.org/10.1002/2014JA020874).
- [245] Wu, C.-C., and R. P. Lepping (2015), Comparisons of Characteristics of Magnetic Clouds and Cloud-Like Structures During 1995 - 2012, *Solar Phys.*, **290**, 1243–1269, [10.1007/s11207-015-0656-5](https://doi.org/10.1007/s11207-015-0656-5).
- [246] Xiao, F., C. Yang, Z. Su, Q. Zhou, Z. He, Y. He, D. N. Baker, H. E. Spence, H. O. Funsten, and J. B. Blake (2015), Wave-driven butterfly distribution of Van Allen belt relativistic electrons, *Nature Comm.*, **6**, 8590, [10.1038/ncomms9590](https://doi.org/10.1038/ncomms9590).
- [247] Xie, Y. Q., P. B. Zuo, X. S. Feng, and Y. Zhang (2015), Properties of Solar Wind Dynamic Pressure Pulses at 1 AU during the Deep Minimum between Solar Cycles 23 and 24, *Solar Phys.*, **290**, 1835–1849, [10.1007/s11207-015-0700-5](https://doi.org/10.1007/s11207-015-0700-5).
- [248] Xu, X., Y. Wang, F. Wei, X. Feng, X. Deng, Y. Ma, M. Zhou, Y. Pang, and H.-C. Wong (2015), Direct evidence for kinetic effects associated with solar wind reconnection, *Nature Sci. Rep.*, **5**, 8080, [10.1038/srep08080](https://doi.org/10.1038/srep08080).
- [249] Yang, L., L. Wang, G. Li, J. He, C. S. Salem, C. Tu, R. F. Wimmer-Schweingruber, and S. D. Bale (2015), The Angular Distribution of Solar Wind Superhalo Electrons at Quiet Times, *Astrophys. J. Lett.*, **811**, L8, [10.1088/2041-8205/811/1/L8](https://doi.org/10.1088/2041-8205/811/1/L8).
- [250] Yang, Y., F. Shen, and X. Feng (2015), Modeling the Global Distribution of Plasma Parameters on Coronal Source Surface for Different Solar Phases Using 1AU Observations, in *Numerical Modeling of Space Plasma Flows ASTRONUM-2014*, *Astronomical Society of the Pacific Conference Series*, vol. 498, edited by N. V. Pogorelov, E. Audit, and G. P. Zank, p. 168.

List of Refereed Publications
Wind Spacecraft: 2015

- [251] Yeeram, T., and N. Saengdokmai (2015), Effects of the Heliospheric Current Sheet on Trains of Enhanced Diurnal Variations in Galactic Cosmic Rays, *Solar Phys.*, **290**, 2311–2331, [10.1007/s11207-015-0744-6](https://doi.org/10.1007/s11207-015-0744-6).
- [252] Yoon, P. H., S. Kim, and G. S. Choe (2015), Steady-state Model of Solar Wind Electrons Revisited, *Astrophys. J.*, **812**, 169, [10.1088/0004-637X/812/2/169](https://doi.org/10.1088/0004-637X/812/2/169).
- [253] Yu, J., L. Y. Li, J. B. Cao, Z. G. Yuan, G. D. Reeves, D. N. Baker, J. B. Blake, and H. Spence (2015), Multiple loss processes of relativistic electrons outside the heart of outer radiation belt during a storm sudden commencement, *J. Geophys. Res.*, **120**, 10, [10.1002/2015JA021460](https://doi.org/10.1002/2015JA021460).
- [254] Yu, Y., V. Jordanova, S. Zou, R. Heelis, M. Ruohoniemi, and J. Wygant (2015), Modeling subauroral polarization streams during the 17 March 2013 storm, *J. Geophys. Res.*, **120**, 1738–1750, [10.1002/2014JA020371](https://doi.org/10.1002/2014JA020371).
- [255] Zachilas, L., and A. Gkana (2015), On the Verge of a Grand Solar Minimum: A Second Maunder Minimum?, *Solar Phys.*, **290**, 1457–1477, [10.1007/s11207-015-0684-1](https://doi.org/10.1007/s11207-015-0684-1).
- [256] Zastenker, G. N., V. V. Khrapchenkov, I. V. Koloskova, E. A. Gavrilova, E. E. Ryazanova, M. O. Ryazantseva, T. I. Gagua, I. T. Gagua, J. Šafrankova, Z. Nemecek, L. Prech, and J. Voita (2015), Rapid variations of the value and direction of the solar wind ion flux, *Cosmic Res.*, **53**, 59–69, [10.1134/S0010952515010098](https://doi.org/10.1134/S0010952515010098).
- [257] Zelenyi, L. M., G. N. Zastenker, A. A. Petrukovich, L. S. Chesalin, V. N. Nazarov, V. I. Prokhorenko, J. Balaz, K. Kudela, I. Strgarski, M. Slivka, V. A. Gladyshev, I. P. Kirpichev, E. Sarris, T. Sarris, E. V. Lakutina, L. K. Minskaya, E. V. Krukovskaya, A. V. Beznos, Y. I. Markov, A. E. Tretyakov, O. V. Batanov, F. V. Korotkov, A. P. Melnik, V. V. Konoplev, A. D. Ryabova, E. V. Gevorkova, M. V. Klimenchenko, A. G. Bazhenov, I. E. Belova, E. A. Gavrilova, A. N. Ananenkova, L. V. Rudnevskaya, A. V. Dyachkov, O. A. Starostina, E. E. Ryazanova, N. A. Eismont, J. Safrankova, Z. Nemecek, L. Prech, I. Cermak, J. Vaverka, A. Komarek, J. Vojta, B. T. Karimov, Y. N. Agafonov, N. L. Borodkova, T. I. Gagua, I. T. Gagua, I. V. Koloskova, A. V. Leibov, V. A. Parhomov, M. O. Ryazanceva, V. V. Khrapchenkov, and O. M. Chugunova (2015), PLASMA-F experiment: Three years of on-orbit operation, *Solar System Res.*, **49**, 580–603, [10.1134/S0038094615070230](https://doi.org/10.1134/S0038094615070230).
- [258] Zelenyi, L. M., A. M. Bykov, Y. A. Uvarov, and A. V. Artemyev (2015), Intermittency of magnetic field turbulence: Astrophysical applications of in-situ observations, *J. Plasma Phys.*, **81**(4), 395810401, [10.1017/S0022377815000409](https://doi.org/10.1017/S0022377815000409).
- [259] Zhang, J.-C., L. M. Kistler, H. E. Spence, R. A. Wolf, G. Reeves, R. Skoug, H. Funsten, B. A. Larsen, J. T. Niehof, E. A. MacDonald, R. Friedel, C. P. Ferradas, and H. Luo (2015), "Trunk-like" heavy ion structures observed by the Van Allen Probes, *J. Geophys. Res.*, **120**, 8738–8748, [10.1002/2015JA021822](https://doi.org/10.1002/2015JA021822).

List of Refereed Publications
Wind Spacecraft: 2015

- [260] Zhang, Q. M., Z. J. Ning, Y. Guo, T. H. Zhou, X. Cheng, H. S. Ji, L. Feng, and T. Wiegmann (2015), Multiwavelength Observations of a Partially Eruptive Filament on 2011 September 8, *Astrophys. J.*, **805**, 4, [10.1088/0004-637X/805/1/4](https://doi.org/10.1088/0004-637X/805/1/4).
- [261] Zhao, X. H., and X. S. Feng (2015), Influence of a CME's Initial Parameters on the Arrival of the Associated Interplanetary Shock at Earth and the Shock Propagational Model Version 3, *Astrophys. J.*, **809**, 44, [10.1088/0004-637X/809/1/44](https://doi.org/10.1088/0004-637X/809/1/44).
- [262] Zharkova, V., and O. Khabarova (2015), Additional acceleration of solar-wind particles in current sheets of the heliosphere, *Ann. Geophys.*, **33**, 457–470, [10.5194/angeo-33-457-2015](https://doi.org/10.5194/angeo-33-457-2015).
- [263] Zoennchen, J. H., U. Nass, and H. J. Fahr (2015), Terrestrial exospheric hydrogen density distributions under solar minimum and solar maximum conditions observed by the TWINS stereo mission, *Ann. Geophys.*, **33**, 413–426, [10.5194/angeo-33-413-2015](https://doi.org/10.5194/angeo-33-413-2015).
- [264] Zolotukhina, N., N. Polekh, V. Kurkin, and E. Romanova (2015), Ionospheric effects of solar flares and their associated particle ejections in March 2012, *Adv. Space Res.*, **55**, 2851–2862, [10.1016/j.asr.2015.03.004](https://doi.org/10.1016/j.asr.2015.03.004).
- [265] Zuo, P., X. Feng, Y. Xie, Y. Wang, H. Li, and X. Xu (2015), Automatic Detection Algorithm of Dynamic Pressure Pulses in the Solar Wind, *Astrophys. J.*, **803**, 94, [10.1088/0004-637X/803/2/94](https://doi.org/10.1088/0004-637X/803/2/94).
- [266] Zuo, P., X. Feng, Y. Xie, Y. Wang, and X. Xu (2015), A Statistical Survey of Dynamic Pressure Pulses in the Solar Wind Based on WIND Observations, *Astrophys. J.*, **808**, 83, [10.1088/0004-637X/808/1/83](https://doi.org/10.1088/0004-637X/808/1/83).