

## References

- [1] Abro, H. A., and M. M. Shaikh (2023), A new family of twentieth order convergent methods with applications to nonlinear systems in engineering, *Mehran Univ. Res. J. Engin. Tech.*, **42**(1), 165, [10.22581/muet1982.2301.15](https://doi.org/10.22581/muet1982.2301.15).
- [2] Acosta-Tripailao, B., D. Pastén, and P. S. Moya (2023), Complexity parameters of solar-wind magnetic fluctuations at 1 AU during SC23 and SC24, *Astron. & Astrophys.*, **671**, A108, [10.1051/0004-6361/202245265](https://doi.org/10.1051/0004-6361/202245265).
- [3] Adekoya, B. J., V. U. Chukwuma, S. J. Adebisi, B. O. Adebisin, S. O. Ikubanni, O. S. Bolaji, H. T. Oladunjoye, and O. O. Bisuga (2023), Ionospheric storm effects in the EIA region in the American and Asian-Australian sectors during geomagnetic storms of October 2016 and September 2017, *Adv. Space Res.*, **72**(4), 1237–1265, [10.1016/j.asr.2023.04.016](https://doi.org/10.1016/j.asr.2023.04.016).
- [4] Aghabozorgi Nafchi, M., F. Němec, G. Pi, Z. Němeček, J. Šafránková, K. Grygorov, and J. Šimunek (2023), Interplanetary Magnetic Field  $B_y$  Controls the Magnetopause Location, *J. Geophys. Res.*, **128**(5), e2023JA031303, [10.1029/2023JA031303](https://doi.org/10.1029/2023JA031303).
- [5] Agudo, I., L. Amati, T. An, F. E. Bauer, S. Benetti, M. G. Bernardini, R. Beswick, K. Bhirimbhakdi, T. de Boer, M. Branchesi, S. J. Brennan, E. Brocato, M. D. Caballero-García, E. Cappellaro, N. Castro Rodríguez, A. J. Castro-Tirado, K. C. Chambers, E. Chassande-Mottin, S. Chaty, T. W. Chen, A. Coleiro, S. Covino, F. D’Ammando, P. D’Avanzo, V. D’Elia, A. Fiore, A. Flörs, M. Fraser, S. Frey, C. Frohmaier, M. Fulton, L. Galbany, C. Gall, H. Gao, J. García-Rojas, G. Ghirlanda, S. Giarratana, J. H. Gillanders, M. Giroletti, B. P. Gompertz, M. Gromadzki, K. E. Heintz, J. Hjorth, Y. D. Hu, M. E. Huber, A. Inkenhaag, L. Izzo, Z. P. Jin, P. G. Jonker, D. A. Kann, E. C. Kool, R. Kotak, G. Leloudas, A. J. Levan, C. C. Lin, J. D. Lyman, E. A. Magnier, K. Maguire, I. Mandel, B. Marcote, D. Mata Sánchez, S. Mattila, A. Melandri, M. J. Michałowski, J. Moldon, M. Nicholl, A. Nicuesa Guelbenzu, S. R. Oates, F. Onori, M. Orienti, R. Paladino, Z. Paragi, M. Perez-Torres, E. Pian, G. Pignata, S. Piranomonte, J. Quirola-Vásquez, F. Ragosta, A. Rau, S. Ronchini, A. Rossi, R. Sánchez-Ramírez, O. S. Salafia, S. Schulze, S. J. Smartt, K. W. Smith, J. Sollerman, S. Srivastav, R. L. C. Starling, D. Steeghs, H. F. Stevance, N. R. Tanvir, V. Testa, M. A. P. Torres, A. Valeev, S. D. Vergani, D. Vescovi, R. Wainscoat, D. Watson, K. Wiersema, Ł. Wyrzykowski, J. Yang, S. Yang, and D. R. Young (2023), Panning for gold, but finding helium: Discovery of the ultra-stripped supernova SN 2019wxt from gravitational-wave follow-up observations, *Astron. & Astrophys.*, **675**, A201, [10.1051/0004-6361/202244751](https://doi.org/10.1051/0004-6361/202244751).
- [6] Agüí Fernández, J. F., C. C. Thöne, D. A. Kann, A. de Ugarte Postigo, J. Selsing, P. Schady, R. M. Yates, J. Greiner, S. R. Oates, D. B. Malesani, D. Xu, A. Klotz, S. Campana, A. Rossi, D. A. Perley, M. Blažek, P. D’Avanzo, A. Giunta, D. Hartmann, K. E. Heintz, P. Jakobsson, I. Kirkpatrick, C. C., C. Kouveliotou, A. Melandri, G. Pugliese, R. Salvaterra, R. L. C. Starling, N. R. Tanvir, S. D. Vergani, and K. Wiersema (2023), GRB 160410A: The first chemical study of the interstellar medium of a short GRB, *Mon. Not. Roy. Astron. Soc.*, **520**(1), 613–636, [10.1093/mnras/stad099](https://doi.org/10.1093/mnras/stad099).

## List of Refereed Publications

### Wind Spacecraft: 2023

- [7] Aimuratov, Y., L. M. Becerra, C. L. Bianco, C. Cherubini, M. Della Valle, S. Filippi, L. Li, R. Moradi, F. Rastegarnia, J. A. Rueda, R. Ruffini, N. Sahakyan, Y. Wang, and S. R. Zhang (2023), GRB-SN Association within the Binary-driven Hypernova Model, *Astrophys. J.*, **955**(2), 93, [10.3847/1538-4357/ace721](https://doi.org/10.3847/1538-4357/ace721).
- [8] Akhavan-Tafti, M., T. Y. Atilaw, D. Fontaine, O. Le Contel, J. A. Slavin, and T. Pulkkinen (2023), Magnetospheric Time History in Storm-Time Magnetic Flux Dynamics, *J. Geophys. Res.*, **128**(9), e2023JA031832, [10.1029/2023JA031832](https://doi.org/10.1029/2023JA031832).
- [9] Akhmetov, O. I., V. B. Belakhovsky, I. V. Mingalev, O. V. Mingalev, A. V. Larchenko, and Z. V. Suvorova (2023), About the Propagation of RSDN-20 “Alpha” Signals in the Earth-Ionosphere Waveguide During Geomagnetic Disturbances, *Radio Sci.*, **58**(1), e2022RS007490, [10.1029/2022RS007490](https://doi.org/10.1029/2022RS007490).
- [10] Ala-Lahti, M., T. I. Pulkkinen, J. Ruohotie, M. Akhavan-Tafti, S. W. Good, and E. K. J. Kilpua (2023), Multipoint Observations of the Dynamics at an ICME Sheath-Ejecta Boundary, *Astrophys. J.*, **956**(2), 131, [10.3847/1538-4357/acf99e](https://doi.org/10.3847/1538-4357/acf99e).
- [11] Alberti, T., P. De Michelis, L. Santarelli, D. Faranda, G. Consolini, and M. F. Marcucci (2023), Tracking Geomagnetic Storms with Dynamical System Approach: Ground-Based Observations, *Remote Sensing*, **15**(12), 3031, [10.3390/rs15123031](https://doi.org/10.3390/rs15123031).
- [12] Allen, R. C., S. E. Gibson, I. Hewins, S. K. Vines, L. Qian, G. de Toma, B. J. Thompson, M. Hudson, C. O. Lee, R. J. Filwett, P. Mostafavi, W. Mo, and M. E. Hill (2023), A Mosaic of the Inner Heliosphere: Three Carrington Rotations During the Whole Heliosphere and Planetary Interactions Interval, *J. Geophys. Res.*, **128**(6), e2023JA031361, [10.1029/2023JA031361](https://doi.org/10.1029/2023JA031361).
- [13] Ameri, D., E. Valtonen, A. Al-Sawad, and R. Vainio (2023), Relationships between energetic storm particle events and interplanetary shocks driven by full and partial halo coronal mass ejections, *Adv. Space Res.*, **71**(5), 2521–2533, [10.1016/j.asr.2022.12.014](https://doi.org/10.1016/j.asr.2022.12.014).
- [14] Anoruo, C. M., F. N. Okeke, and K. C. Okpala (2023), Total Electron Content Variability in the African Ionosphere Observed during Ascending and Decaying Geomagnetic Storms, *Geomag. and Aeron.*, **63**(6), 839–853, [10.1134/S001679322360042X](https://doi.org/10.1134/S001679322360042X).
- [15] Antonov, Y. A., V. I. Zakharov, and N. A. Sukhareva (2023), Entropy Functionals and Information Difference of Satellite-Monitoring Time Series, *Cosmic Res.*, **61**(6), 522–533, [10.1134/S0010952523700429](https://doi.org/10.1134/S0010952523700429).
- [16] Archana, R. K., K. Arora, and N. Nagarajan (2023), Prompt penetration effects on Equatorial Electrojet from the Indian sector, *Earth, Planets and Space*, **75**(1), 122, [10.1186/s40623-023-01874-9](https://doi.org/10.1186/s40623-023-01874-9).
- [17] Arnold, H., K. Sorathia, G. Stephens, M. Sitnov, V. G. Merkin, and J. Birn (2023), Data Mining Inspired Localized Resistivity in Global MHD Simulations of the Magnetosphere, *J. Geophys. Res.*, **128**(2), e2022JA030990, [10.1029/2022JA030990](https://doi.org/10.1029/2022JA030990).

---

### Wind Spacecraft: 2023

#### List of Refereed Publications

## List of Refereed Publications

### Wind Spacecraft: 2023

- [18] Arrazola, D., J. J. Blanco, and M. A. Hidalgo (2023), HCS background magnetic field study HYTARO+, *Astron. & Astrophys.*, **677**, A135, [10.1051/0004-6361/202245517](https://doi.org/10.1051/0004-6361/202245517).
- [19] Arutyunyan, S., A. Kodukov, M. Subbotin, and D. Pavlov (2023), A Prototype of a Background Solar Wind Forecasting Service Based on MHD Modeling and WSA Boundary Conditions, *Cosmic Res.*, **61**(6), 457–463, [10.1134/S0010952523700508](https://doi.org/10.1134/S0010952523700508).
- [20] Bag, T., D. Rout, Y. Ogawa, and V. Singh (2023), Thermospheric NO Cooling during an Unusual Geomagnetic Storm of 21–22 January 2005: A Comparative Study between TIMED/SABER Measurements and TIEGCM Simulations, *Atmosphere*, **14**(3), 556, [10.3390/atmos14030556](https://doi.org/10.3390/atmos14030556).
- [21] Balasis, G., M. A. Balikhin, S. C. Chapman, G. Consolini, I. A. Daglis, R. V. Donner, J. Kurths, M. Paluš, J. Runge, B. T. Tsurutani, D. Vassiliadis, S. Wing, J. W. Gjerloev, J. Johnson, M. Materassi, T. Alberti, C. Papadimitriou, P. Manshour, A. Z. Boutsis, and M. Stumpo (2023), Complex Systems Methods Characterizing Nonlinear Processes in the Near-Earth Electromagnetic Environment: Recent Advances and Open Challenges, *Space Sci. Rev.*, **219**(5), 38, [10.1007/s11214-023-00979-7](https://doi.org/10.1007/s11214-023-00979-7).
- [22] Baral, R., B. Adhikari, A. Calabria, M. Shah, R. K. Mishra, A. Silwal, S. Bohara, R. Manandhar, L. del Peral, and M. D. Rodríguez Frías (2023), Spectral Features of Forbush Decreases during Geomagnetic Storms, *J. Atmos. Solar-Terr. Phys.*, **242**, 105981, [10.1016/j.jastp.2022.105981](https://doi.org/10.1016/j.jastp.2022.105981).
- [23] Barata, T., J. Pereira, M. Hernández-Pajares, T. Barlyaeva, and A. Morozova (2023), Ionosphere over Eastern North Atlantic Midlatitudinal Zone during Geomagnetic Storms, *Atmosphere*, **14**(6), 949, [10.3390/atmos14060949](https://doi.org/10.3390/atmos14060949).
- [24] Basciftci, F. (2023), Using artificial neural networks in the investigation of four moderate geomagnetic storms (mGSs) that occurred in 2015, *Adv. Space Res.*, **71**(10), 4382–4400, [10.1016/j.asr.2023.01.001](https://doi.org/10.1016/j.asr.2023.01.001).
- [25] Battaglia, A. F., W. Wang, J. Saqri, T. Podladchikova, A. M. Veronig, H. Collier, E. C. M. Dickson, O. Podladchikova, C. Monstein, A. Warmuth, F. Schuller, L. Harra, and S. Krucker (2023), Identifying the energy release site in a solar microflare with a jet, *Astron. & Astrophys.*, **670**, A56, [10.1051/0004-6361/202244996](https://doi.org/10.1051/0004-6361/202244996).
- [26] Becerra, R. L., E. Troja, A. M. Watson, B. O’Connor, P. Veres, S. Dichiara, N. R. Butler, F. De Colle, T. Sakamoto, K. O. C. López, K. Aoki, N. Fraija, M. Im, A. S. Kutyrev, W. H. Lee, G. S. H. Paek, M. Pereyra, S. Ravi, and Y. Urata (2023), Deciphering the unusual stellar progenitor of GRB 210704A, *Mon. Not. Roy. Astron. Soc.*, **522**(4), 5204–5216, [10.1093/mnras/stad1372](https://doi.org/10.1093/mnras/stad1372).
- [27] Belakhovsky, V. B., V. A. Pilipenko, E. E. Antonova, Y. Miyoshi, Y. Kasahara, S. Kasahara, N. Higashio, I. Shinohara, T. Hori, S. Matsuda, S. Yokota, T. Takashima, M. Takefumi, K. Keika, and S. Nakamura (2023), Relativistic electron flux growth during storm and non-storm periods as observed by ARASE and GOES satellites, *Earth, Planets and Space*, **75**(1), 189, [10.1186/s40623-023-01925-1](https://doi.org/10.1186/s40623-023-01925-1).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [28] Benedito Nunes, A. M., J. Gamper, S. C. Chapman, M. Friel, and J. Gjerloev (2023), Newcomb-Benford Law as a generic flag for changes in the derivation of long-term solar terrestrial physics timeseries, *RAS Tech. Inst.*, **2**(1), 599–606, [10.1093/rasti/rzad041](https://doi.org/10.1093/rasti/rzad041).
- [29] Bera, R. K., F. Fraternali, N. V. Pogorelov, V. Roytershteyn, M. Gedalin, D. J. McComas, and G. P. Zank (2023), The Role of Pickup Ions in the Interaction of the Solar Wind with the Local Interstellar Medium. I. Importance of Kinetic Processes at the Heliospheric Termination Shock, *Astrophys. J.*, **954**(2), 147, [10.3847/1538-4357/acea7d](https://doi.org/10.3847/1538-4357/acea7d).
- [30] Bhardwaj, S., M. G. Dainotti, S. Venkatesh, A. Narendra, A. Kalsi, E. Rinaldi, and A. Pollo (2023), GRB optical and X-ray plateau properties classifier using unsupervised machine learning, *Mon. Not. Roy. Astron. Soc.*, **525**(4), 5204–5223, [10.1093/mnras/stad2593](https://doi.org/10.1093/mnras/stad2593).
- [31] Bhattacharjee, D., P. Subramanian, A. Vourlidas, T. Nieves-Chinchilla, N. Thejaswi, and N. Sachdeva (2023), Characterizing the specific energy and pressure in near-Earth magnetic clouds, *Astron. & Astrophys.*, **669**, A153, [10.1051/0004-6361/202243603](https://doi.org/10.1051/0004-6361/202243603).
- [32] Bhattacharjee, D., P. Subramanian, T. Nieves-Chinchilla, and A. Vourlidas (2023), Turbulence and anomalous resistivity inside near-Earth magnetic clouds, *Mon. Not. Roy. Astron. Soc.*, **518**(1), 1185–1194, [10.1093/mnras/stac3186](https://doi.org/10.1093/mnras/stac3186).
- [33] Biltzinger, B., J. M. Burgess, and J. Greiner (2023), Time-resolved spectral catalogue of INTEGRAL/SPI gamma-ray bursts, *Astron. & Astrophys.*, **675**, A175, [10.1051/0004-6361/202245191](https://doi.org/10.1051/0004-6361/202245191).
- [34] Blanco-Cano, X., D. Rojas-Castillo, P. Kajdič, and L. Preisser (2023), Jets and Mirror Mode Waves in Earth’s Magnetosheath, *J. Geophys. Res.*, **128**(7), e2022JA031221, [10.1029/2022JA031221](https://doi.org/10.1029/2022JA031221).
- [35] Borisenko, A., and S. Bogachev (2023), Relation between the area of polar coronal holes and the solar wind speed at a minimum between solar cycles 22 and 23, *Solar-Terr. Phys.*, **9**(3), 112–117, [10.12737/stp-93202313](https://doi.org/10.12737/stp-93202313).
- [36] Borries, C., A. A. Ferreira, G. Nykiel, and R. A. Borges (2023), A new index for statistical analyses and prediction of travelling ionospheric disturbances, *J. Atmos. Solar-Terr. Phys.*, **247**, 106069, [10.1016/j.jastp.2023.106069](https://doi.org/10.1016/j.jastp.2023.106069).
- [37] Bostan, S. M., J. V. Urbina, J. D. Mathews, R. L. Dinsmore, and R. M. Robinson (2023), Multi-instrument study of a spread-F event at Arecibo linked to solar wind variations, *J. Atmos. Solar-Terr. Phys.*, **249**, 106099, [10.1016/j.jastp.2023.106099](https://doi.org/10.1016/j.jastp.2023.106099).
- [38] Botek, E., V. Pierrard, and A. Winant (2023), Prediction of Radiation Belts Electron Fluxes at a Low Earth Orbit Using Neural Networks With PROBA-V/EPT Data, *Space Weather*, **21**(7), e2023SW003466, [10.1029/2023SW003466](https://doi.org/10.1029/2023SW003466).
- [39] Bouriati, S., S. Wing, and M. Barthélémy (2023), Electron Aurora and Polar Rain Dependencies on Solar Wind Parameters, *J. Geophys. Res.*, **128**(9), e2023JA031598, [10.1029/2023JA031598](https://doi.org/10.1029/2023JA031598).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [40] Bower, G. E., S. E. Milan, L. J. Paxton, E. Spanswick, and M. R. Hairston (2023), Formation and Motion of Horse Collar Aurora Events, *J. Geophys. Res.*, **128**(5), e2022JA031105, [10.1029/2022JA031105](https://doi.org/10.1029/2022JA031105).
- [41] Bright, J. S., L. Rhodes, W. Farah, R. Fender, A. J. van der Horst, J. K. Leung, D. R. A. Williams, G. E. Anderson, P. Atri, D. R. DeBoer, S. Giarratana, D. A. Green, I. Heywood, E. Lenc, T. Murphy, A. W. Pollak, P. H. Premnath, P. F. Scott, S. Z. Sheikh, A. Siemion, and D. J. Titterton (2023), Precise measurements of self-absorbed rising reverse shock emission from gamma-ray burst 221009A, *Nature Astron.*, **7**, 986–995, [10.1038/s41550-023-01997-9](https://doi.org/10.1038/s41550-023-01997-9).
- [42] Bruno, A., G. A. de Nolfo, J. M. Ryan, I. G. Richardson, and S. Dalla (2023), Statistical Relationship between Long-duration High-energy Gamma-Ray Emission and Solar Energetic Particles, *Astrophys. J.*, **953**(2), 187, [10.3847/1538-4357/ace24c](https://doi.org/10.3847/1538-4357/ace24c).
- [43] Bunting, K. A., and H. Morgan (2023), An Empirical Relationship Between Coronal Density and Solar Wind Velocity in the Middle Corona With Applications to Space Weather, *Space Weather*, **21**(3), e2023SW003448, [10.1029/2023SW003448](https://doi.org/10.1029/2023SW003448).
- [44] Burkholder, B. L., L.-J. Chen, N. Romanelli, D. Sibeck, J. Verniero, G. A. DiBraccio, D. Gershman, and M. Sarantos (2023), Heliocentric Distance and Solar Activity Dependence of Sustained Quasi-radial Interplanetary Magnetic Field Occurrence, *Astrophys. J.*, **953**(1), 85, [10.3847/1538-4357/ace328](https://doi.org/10.3847/1538-4357/ace328).
- [45] Burns, E., D. Svinkin, E. Fenimore, D. A. Kann, J. F. Agüí Fernández, D. Frederiks, R. Hamburg, S. Lesage, Y. Temiraev, A. Tsvetkova, E. Bissaldi, M. S. Briggs, S. Dalessi, R. Dunwoody, C. Fletcher, A. Goldstein, C. M. Hui, B. A. Hristov, D. Kocevski, A. L. Lysenko, B. Mailyan, J. Mangan, S. McBreen, J. Racusin, A. Ridnaia, O. J. Roberts, M. Ulanov, P. Veres, C. A. Wilson-Hodge, and J. Wood (2023), GRB 221009A: The Boat, *Astrophys. J. Lett.*, **946**(1), L31, [10.3847/2041-8213/acc39c](https://doi.org/10.3847/2041-8213/acc39c).
- [46] Caballero-García, M. D., R. Gupta, S. B. Pandey, S. R. Oates, M. Marisaldi, A. Ramsli, Y. D. Hu, A. J. Castro-Tirado, R. Sánchez-Ramírez, P. H. Connell, F. Christiansen, A. K. Ror, A. Aryan, J. M. Bai, M. A. Castro-Tirado, Y. F. Fan, E. Fernández-García, A. Kumar, A. Lindanger, A. Mezentsev, J. Navarro-González, T. Neubert, N. Østgaard, I. Pérez-García, V. Reglero, D. Sarria, T. R. Sun, D. R. Xiong, J. Yang, Y. H. Yang, and B. B. Zhang (2023), Multiwavelength study of the luminous GRB 210619B observed with Fermi and ASIM, *Mon. Not. Roy. Astron. Soc.*, **519**(3), 3201–3226, [10.1093/mnras/stac3629](https://doi.org/10.1093/mnras/stac3629).
- [47] Camacho, E., L. Benyosef, O. Mendes, and M. O. Domingues (2023), Pc5 Pulsations in the South Atlantic Magnetic Anomaly, *Brazilian J. Phys.*, **53**(1), 16, [10.1007/s13538-022-01229-x](https://doi.org/10.1007/s13538-022-01229-x).
- [48] Camisasca, A. E., C. Guidorzi, L. Amati, F. Frontera, X. Y. Song, S. Xiao, S. L. Xiong, S. N. Zhang, R. Margutti, S. Kobayashi, C. G. Mundell, M. Y. Ge, A. Gomboc, S. M. Jia, N. Jordana-Mitjans, C. K. Li, X. B. Li, R. Maccary, M. Shrestha, W. C. Xue, and

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- S. Zhang (2023), GRB minimum variability timescale with Insight-HXMT and Swift. Implications for progenitor models, dissipation physics, and GRB classifications, *Astron. & Astrophys.*, **671**, A112, [10.1051/0004-6361/202245657](https://doi.org/10.1051/0004-6361/202245657).
- [49] Cao, X., J. S. Halekas, S. Haaland, S. Ruhunusiri, and K.-H. Glassmeier (2023), Using machine learning to characterize solar wind driving of convection in the terrestrial magnetotail lobes, *Front. Astron. Space Sci.*, **10**, 1180410, [10.3389/fspas.2023.1180410](https://doi.org/10.3389/fspas.2023.1180410).
- [50] Cao, Z., F. Aharonian, Q. An, Axikegu, Y. X. Bai, Y. W. Bao, D. Bastieri, X. J. Bi, Y. J. Bi, J. T. Cai, Q. Cao, W. Y. Cao, Z. Cao, J. Chang, J. F. Chang, A. M. Chen, E. S. Chen, L. Chen, L. Chen, L. Chen, M. J. Chen, M. L. Chen, Q. H. Chen, S. H. Chen, S. Z. Chen, T. L. Chen, Y. Chen, N. Cheng, Y. D. Cheng, M. Y. Cui, S. W. Cui, X. H. Cui, Y. D. Cui, B. Z. Dai, H. L. Dai, Z. G. Dai, Danzengluobu, D. della Volpe, X. Q. Dong, K. K. Duan, J. H. Fan, Y. Z. Fan, J. Fang, K. Fang, C. F. Feng, L. Feng, S. H. Feng, X. T. Feng, Y. L. Feng, S. Gabici, B. Gao, C. D. Gao, L. Q. Gao, Q. Gao, W. Gao, W. K. Gao, M. M. Ge, L. S. Geng, G. Giacinti, G. H. Gong, Q. B. Gou, M. H. Gu, F. L. Guo, X. L. Guo, Y. Q. Guo, Y. Y. Guo, Y. A. Han, H. H. He, H. N. He, J. Y. He, X. B. He, Y. He, M. Heller, Y. K. Hor, B. W. Hou, C. Hou, X. Hou, H. B. Hu, Q. Hu, S. C. Hu, D. H. Huang, T. Q. Huang, W. J. Huang, X. T. Huang, X. Y. Huang, Y. Huang, Z. C. Huang, X. L. Ji, H. Y. Jia, K. Jia, K. Jiang, X. W. Jiang, Z. J. Jiang, M. Jin, M. M. Kang, T. Ke, D. Kuleshov, K. Kurinov, B. B. Li, C. Li, C. Li, D. Li, F. Li, H. B. Li, H. C. Li, H. Y. Li, J. Li, J. Li, J. Li, K. Li, W. L. Li, W. L. Li, X. R. Li, X. Li, Y. Z. Li, Z. Li, Z. Li, E. W. Liang, Y. F. Liang, S. J. Lin, B. Liu, C. Liu, D. Liu, H. Liu, H. D. Liu, J. Liu, J. L. Liu, J. Y. Liu, M. Y. Liu, R. Y. Liu, S. M. Liu, W. Liu, Y. Liu, Y. N. Liu, R. Lu, Q. Luo, H. K. Lv, B. Q. Ma, L. L. Ma, X. H. Ma, J. R. Mao, Z. Min, W. Mitthumsiri, H. J. Mu, Y. C. Nan, A. Neronov, Z. W. Ou, B. Y. Pang, P. Pattarakijwanich, Z. Y. Pei, M. Y. Qi, Y. Q. Qi, B. Q. Qiao, J. J. Qin, D. Ruffolo, A. Sáiz, D. Semikoz, C. Y. Shao, L. Shao, O. Shchegolev, X. D. Sheng, F. W. Shu, H. C. Song, Y. V. Stenkin, V. Stepanov, Y. Su, Q. N. Sun, X. N. Sun, Z. B. Sun, P. H. T. Tam, Q. W. Tang, Z. B. Tang, W. W. Tian, C. Wang, C. B. Wang, G. W. Wang, H. G. Wang, H. H. Wang, J. C. Wang, K. Wang, L. P. Wang, L. Y. Wang, P. H. Wang, R. Wang, W. Wang, X. G. Wang, X. Y. Wang, Y. Wang, Y. D. Wang, Y. J. Wang, Z. H. Wang, Z. X. Wang, Z. Wang, Z. Wang, D. M. Wei, J. J. Wei, Y. J. Wei, T. Wen, C. Y. Wu, H. R. Wu, S. Wu, X. F. Wu, Y. S. Wu, S. Q. Xi, J. Xia, J. J. Xia, G. M. Xiang, D. X. Xiao, G. Xiao, G. G. Xin, Y. L. Xin, Y. Xing, Z. Xiong, D. L. Xu, R. F. Xu, R. X. Xu, W. L. Xu, L. Xue, D. H. Yan, J. Z. Yan, T. Yan, C. W. Yang, F. Yang, F. F. Yang, H. W. Yang, J. Y. Yang, L. L. Yang, M. J. Yang, R. Z. Yang, S. B. Yang, Y. H. Yao, Z. G. Yao, Y. M. Ye, L. Q. Yin, N. Yin, X. H. You, Z. Y. You, Y. H. Yu, Q. Yuan, H. Yue, H. D. Zeng, T. X. Zeng, W. Zeng, M. Zha, B. B. Zhang, F. Zhang, H. M. Zhang, H. Y. Zhang, J. L. Zhang, L. X. Zhang, L. Zhang, P. F. Zhang, P. P. Zhang, R. Zhang, S. B. Zhang, S. R. Zhang, S. S. Zhang, X. Zhang, X. P. Zhang, Y. F. Zhang, Y. Zhang, Y. Zhang, B. Zhao, J. Zhao, L. Zhao, L. Z. Zhao, S. P. Zhao, F. Zheng, B. Zhou, H. Zhou, J. N. Zhou, M. Zhou, P. Zhou, R. Zhou, X. X. Zhou, C. G. Zhu, F. R. Zhu, H. Zhu, K. J. Zhu, and X. Zuo (2023), Very high-energy gamma-ray emission beyond 10 TeV from GRB 221009A, *Sci. Adv.*, **9**(46), eadj2778, [10.1126/sciadv.adj2778](https://doi.org/10.1126/sciadv.adj2778).

---

### Wind Spacecraft: 2023

#### List of Refereed Publications

## List of Refereed Publications

### Wind Spacecraft: 2023

- [51] Casti, M., C. N. Arge, A. Bemporad, R. F. Pinto, and C. J. Henney (2023), A New Method Linking the Solar Wind Speed to the Coronal Magnetic Field, *Astrophys. J.*, **949**(2), 42, [10.3847/1538-4357/acc85d](https://doi.org/10.3847/1538-4357/acc85d).
- [52] Cazzola, E., D. Fontaine, and P. Savoini (2023), On the 3D global dynamics of terrestrial bow-shock rippling in a quasi-perpendicular interaction with steady solar wind, *J. Atmos. Solar-Terr. Phys.*, **246**, 106053, [10.1016/j.jastp.2023.106053](https://doi.org/10.1016/j.jastp.2023.106053).
- [53] Chakraborty, M., V. K. Yadav, and R. Kumar (2023), Two-stream instability generation in the lunar ionosphere, *Adv. Space Res.*, **71**(6), 2954–2966, [10.1016/j.asr.2022.11.050](https://doi.org/10.1016/j.asr.2022.11.050).
- [54] Chakraborty, N., H. Turner, M. Owens, and M. Lang (2023), Causal Analysis of Influence of the Solar Cycle and Latitudinal Solar-Wind Structure on Co-Rotation Forecasts, *Solar Phys.*, **298**(12), 142, [10.1007/s11207-023-02232-4](https://doi.org/10.1007/s11207-023-02232-4).
- [55] Chen, C. J., and B. Zhang (2023), FRB-SRB-XRB: Geometric and relativistic beaming constraints of fast radio bursts from the Galactic magnetar SGR J1935+2154, *Mon. Not. Roy. Astron. Soc.*, **519**(4), 6284–6296, [10.1093/mnras/stac3747](https://doi.org/10.1093/mnras/stac3747).
- [56] Chen, H., X. Gao, Q. Lu, and B. T. Tsurutani (2023), Global Distribution of Relativistic Electron Precipitation and the Dependences on Substorm Injection and Solar Wind Ram Pressure: Long-Term POES Observations, *J. Geophys. Res.*, **128**(11), e2023JA031566, [10.1029/2023JA031566](https://doi.org/10.1029/2023JA031566).
- [57] Chen, S. S., L. C. A. Resende, C. M. Denardini, R. A. J. Chagas, L. A. Da Silva, J. P. Marchezi, J. Moro, P. A. B. Nogueira, A. M. Santos, P. R. Jauer, C. S. Carmo, G. A. S. Picanço, and R. P. Silva (2023), The 14 December 2020 Total Solar Eclipse Effects on Geomagnetic Field Variations and Plasma Density Over South America, *J. Geophys. Res.*, **128**(2), e2022JA030775, [10.1029/2022JA030775](https://doi.org/10.1029/2022JA030775).
- [58] Chen, X., E. P. Kontar, N. Chrysaphi, P. Zhang, V. Krupar, S. Musset, M. Maksimovic, N. L. S. Jeffrey, F. Azzollini, and A. Vecchio (2023), Source positions of an interplanetary type III radio burst and anisotropic radio-wave scattering, *Astron. & Astrophys.*, **680**, A1, [10.1051/0004-6361/202347185](https://doi.org/10.1051/0004-6361/202347185).
- [59] Chen, Y., Q. Hu, R. C. Allen, and L. K. Jian (2023), Small-scale Magnetic Flux Ropes in Stream Interaction Regions from Parker Solar Probe and Wind Spacecraft Observations, *Astrophys. J.*, **943**(1), 33, [10.3847/1538-4357/aca894](https://doi.org/10.3847/1538-4357/aca894).
- [60] Chorashe, K., Z. Shaikh, A. Raghav, K. Ghag, and O. Dhamane (2023), Intense ( $SYM - H \leq -100$  nT) geomagnetic storms induced by planar magnetic structures in co-rotating interaction regions, *Adv. Space Res.*, **72**(8), 3220–3228, [10.1016/j.asr.2023.06.022](https://doi.org/10.1016/j.asr.2023.06.022).
- [61] Chu, X., J. Bortnik, W. Li, X.-C. Shen, Q. Ma, D. Ma, D. Malaspina, and S. Huang (2023), Distribution and Evolution of Chorus Waves Modeled by a Neural Network: The Importance of Imbalanced Regression, *Space Weather*, **21**(10), e2023SW003524, [10.1029/2023SW003524](https://doi.org/10.1029/2023SW003524).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [62] Cid, C., E. Saiz, M. Flores-Soriano, and D. J. Knipp (2023), Interplanetary Signatures during the 1972 Early August Solar Storms, *Astrophys. J.*, **958**(2), 159, [10.3847/1538-4357/acf9fd](https://doi.org/10.3847/1538-4357/acf9fd).
- [63] Collado-Vega, Y. M., P. Dredger, R. E. Lopez, S. Khurana, L. Rastaetter, D. Sibeck, and M. Anastopulos (2023), Magnetopause Standoff Position Changes and Geosynchronous Orbit Crossings: Models and Observations, *Space Weather*, **21**(6), e2022SW003212, [10.1029/2022SW003212](https://doi.org/10.1029/2022SW003212).
- [64] Conde, D., F. L. Castillo, C. Escobar, C. García, J. E. García, V. Sanz, B. Zaldívar, J. J. Curto, S. Marsal, and J. M. Torta (2023), Forecasting Geomagnetic Storm Disturbances and Their Uncertainties Using Deep Learning, *Space Weather*, **21**(11), e2023SW003474, [10.1029/2023SW003474](https://doi.org/10.1029/2023SW003474).
- [65] Corsi, A., A. Y. Q. Ho, S. B. Cenko, S. R. Kulkarni, S. Anand, S. Yang, J. Sollerman, G. P. Srinivasaragavan, C. M. B. Omand, A. Balasubramanian, D. A. Frail, C. Fremling, D. A. Perley, Y. Yao, A. S. Dahiwale, K. De, A. Dugas, M. Hankins, J. Jencson, M. M. Kasliwal, A. Tzanidakis, E. C. Bellm, R. R. Laher, F. J. Masci, J. N. Purdum, and N. Regnault (2023), A Search for Relativistic Ejecta in a Sample of ZTF Broad-lined Type Ic Supernovae, *Astrophys. J.*, **953**(2), 179, [10.3847/1538-4357/acd3f2](https://doi.org/10.3847/1538-4357/acd3f2).
- [66] Coyle, S. E., J. B. H. Baker, S. Chakraborty, M. D. Hartinger, M. P. Freeman, C. R. Clauer, Z. Xu, and D. R. Weimer (2023), Substorms and Solar Eclipses: A Mutual Information Based Study, *Geophys. Res. Lett.*, **50**(24), e2023GL106432, [10.1029/2023GL106432](https://doi.org/10.1029/2023GL106432).
- [67] Cranmer, S. R., R. Chhiber, C. R. Gilly, I. H. Cairns, R. C. Colaninno, D. J. McComas, N. E. Raouafi, A. V. Usmanov, S. E. Gibson, and C. E. DeForest (2023), The Sun's Alfvén Surface: Recent Insights and Prospects for the Polarimeter to Unify the Corona and Heliosphere (PUNCH), *Solar Phys.*, **298**(11), 126, [10.1007/s11207-023-02218-2](https://doi.org/10.1007/s11207-023-02218-2).
- [68] Curtin, A. P., S. P. Tendulkar, A. Josephy, P. Chawla, B. Andersen, V. M. Kaspi, M. Bhardwaj, T. Cassanelli, A. Cook, F. A. Dong, E. Fonseca, B. M. Gaensler, J. F. Kaczmarek, A. E. Lanmnan, C. Leung, A. B. Pearlman, E. Petroff, Z. Pleunis, M. Rafiei-Ravandi, S. M. Ransom, K. Shin, P. Scholz, K. Smith, and I. Stairs (2023), Limits on Fast Radio Burst-like Counterparts to Gamma-Ray Bursts Using CHIME/FRB, *Astrophys. J.*, **954**(2), 154, [10.3847/1538-4357/ace52f](https://doi.org/10.3847/1538-4357/ace52f).
- [69] Dall'Osso, S., G. Stratta, R. Perna, G. De Cesare, and L. Stella (2023), Magnetar Central Engines in Gamma-Ray Bursts Follow the Universal Relation of Accreting Magnetic Stars, *Astrophys. J. Lett.*, **949**(2), L32, [10.3847/2041-8213/acccce](https://doi.org/10.3847/2041-8213/acccce).
- [70] Danilova, O. A., N. G. Ptitsyna, M. I. Tyasto, and V. E. Sdobnov (2023), The Relationship of Magnetospheric Parameters with Cosmic-Ray Cutoff Rigidities Depending on Latitude, *Cosmic Res.*, **61**(1), 18–26, [10.1134/S0010952523010021](https://doi.org/10.1134/S0010952523010021).



## List of Refereed Publications

### Wind Spacecraft: 2023

- [71] Davies, E. E., C. Scolini, R. M. Winslow, A. P. Jordan, and C. Möstl (2023), The Effect of Magnetic Field Line Topology on ICME-related GCR Modulation, *Astrophys. J.*, **959**(2), 133, [10.3847/1538-4357/ad046a](https://doi.org/10.3847/1538-4357/ad046a).
- [72] de Wet, S., L. Izzo, P. J. Groot, S. Bisero, V. D’Elia, M. De Pasquale, D. H. Hartmann, K. E. Heintz, P. Jakobsson, T. Laskar, A. Levan, A. Martin-Carrillo, A. Melandri, A. Nicuesa Guelbenzu, G. Pugliese, A. Rossi, A. Saccardi, S. Savaglio, P. Schady, N. R. Tanvir, H. van Eerten, and S. D. Vergani (2023), The ultra-long GRB 220627A at  $z = 3.08$ , *Astron. & Astrophys.*, **677**, A32, [10.1051/0004-6361/202347017](https://doi.org/10.1051/0004-6361/202347017).
- [73] Decotte, M., K. M. Laundal, S. M. Hatch, and J. P. Reistad (2023), Auroral Oval Morphology: Dawn-Dusk Asymmetry Partially Induced by Earth’s Rotation, *J. Geophys. Res.*, **128**(6), e2023JA031345, [10.1029/2023JA031345](https://doi.org/10.1029/2023JA031345).
- [74] Del Corpo, A., and M. Vellante (2023), Plasmasphere Refilling after the 1 June 2013 Geomagnetic Storm, *Remote Sensing*, **15**(8), 2016, [10.3390/rs15082016](https://doi.org/10.3390/rs15082016).
- [75] Deng, H., Y. Zhong, H. Chen, J. Chen, J. Wang, Y. Chen, and B. Luo (2023), Two-stage Hierarchical Framework for Solar Flare Prediction, *Astrophys. J. Suppl.*, **268**(2), 43, [10.3847/1538-4365/acebbe](https://doi.org/10.3847/1538-4365/acebbe).
- [76] Dhamane, O., V. Pawaskar, A. Raghav, Z. Shaikh, R. D’Amicis, K. Ghag, K. Kumbhar, D. Telloni, G. Nicolaou, P. Tari, R. Wicks, U. Panchal, B. Sathe, and P. Pathare (2023), Observation of Alfvén Ion Cyclotron Waves in ICME Magnetic Clouds at 1 au, *Astrophys. J.*, **957**(1), 38, [10.3847/1538-4357/acf19f](https://doi.org/10.3847/1538-4357/acf19f).
- [77] Dhamane, O., A. Raghav, Z. Shaikh, U. Panchal, K. Ghag, P. Tari, K. Choraghe, A. Bhaskar, D. Telloni, and W. Mishra (2023), Observation of Alfvén Waves in an ICME-HSS Interaction Region, *Solar Phys.*, **298**(3), 34, [10.1007/s11207-023-02127-4](https://doi.org/10.1007/s11207-023-02127-4).
- [78] Dichiaro, S., D. Tsang, E. Troja, D. Neill, J. P. Norris, and Y. H. Yang (2023), A Luminous Precursor in the Extremely Bright GRB 230307A, *Astrophys. J. Lett.*, **954**(1), L29, [10.3847/2041-8213/acf21d](https://doi.org/10.3847/2041-8213/acf21d).
- [79] Dong, X. F., Z. B. Zhang, Q. M. Li, Y. F. Huang, and K. Bian (2023), The Origin of Low-redshift Event Rate Excess as Revealed by the Low-luminosity Gamma-Ray Bursts, *Astrophys. J.*, **958**(1), 37, [10.3847/1538-4357/acf852](https://doi.org/10.3847/1538-4357/acf852).
- [80] Dredger, P. M., R. E. Lopez, Y. M. Collado-Vega, S. Khurana, and L. M. Rastaetter (2023), Investigating Potential Causes for the Prediction of Spurious Magnetopause Crossings at Geosynchronous Orbit in MHD Simulations, *Space Weather*, **21**(6), e2022SW003266, [10.1029/2022SW003266](https://doi.org/10.1029/2022SW003266).
- [81] Dresing, N., L. Rodríguez-García, I. C. Jebaraj, A. Warmuth, S. Wallace, L. Balmaceda, T. Podladchikova, R. D. Strauss, A. Kouloumvakos, C. Palmroos, V. Krupar, J. Gieseler, Z. Xu, J. G. Mitchell, C. M. S. Cohen, G. A. de Nolfo, E. Palmerio, F. Carcaboso, E. K. J. Kilpua, D. Trotta, U. Auster, E. Asvestari, D. da Silva, W. Dröge, T. Getachew, R. Gómez-Herrero, M. Grande, D. Heyner, M. Holmström, J. Huovelin, Y. Kartavykh,

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- M. Laurenza, C. O. Lee, G. Mason, M. Maksimovic, J. Mieth, G. Murakami, P. Oleynik, M. Pinto, M. Pulupa, I. Richter, J. Rodríguez-Pacheco, B. Sánchez-Cano, F. Schuller, H. Ueno, R. Vainio, A. Vecchio, A. M. Veronig, and N. Wijsen (2023), The 17 April 2021 widespread solar energetic particle event, *Astron. & Astrophys.*, **674**, A105, [10.1051/0004-6361/202345938](https://doi.org/10.1051/0004-6361/202345938).
- [82] Dugassa, T., N. Mezgebe, J. B. Habarulema, V. Habyarimana, and A. Oljira (2023), Ionospheric response to the 23-31 August 2018 geomagnetic storm in the Europe-African longitude sector using multi-instrument observations, *Adv. Space Res.*, **71**(5), 2269–2287, [10.1016/j.asr.2022.10.063](https://doi.org/10.1016/j.asr.2022.10.063).
- [83] Efimov, A. I., V. M. Smirnov, I. V. Chashei, and A. S. Nabatov (2023), Large-Scale Disturbances of the Solar Wind According to Spacecraft Radio Transmission Data from the Mars Express and Local Measurements on the Wind Spacecraft, *Geomag. and Aeron.*, **63**(3), 239–247, [10.1134/S0016793223600157](https://doi.org/10.1134/S0016793223600157).
- [84] Elhawary, R., K. M. Laundal, J. P. Reistad, M. Madelaire, and A. Ohma (2023), Substorm Impact on Dayside Ionospheric Currents, *Geophys. Res. Lett.*, **50**(14), e2023GL104800, [10.1029/2023GL104800](https://doi.org/10.1029/2023GL104800).
- [85] Eroglu, E. (2023), Ionospheric anomalies probably related to the  $M_w$  7.1 northern Mid-Atlantic Ridge earthquake, *Adv. Space Res.*, **71**(8), 3382–3393, [10.1016/j.asr.2022.12.010](https://doi.org/10.1016/j.asr.2022.12.010).
- [86] Evensberget, D., S. C. Marsden, B. D. Carter, R. Salmeron, A. A. Vidotto, C. P. Folsom, R. D. Kavanagh, J. S. Pineda, F. A. Driessen, and K. M. Strickert (2023), The winds of young Solar-type stars in the Pleiades, AB Doradus, Columba, and  $\beta$  Pictoris, *Mon. Not. Roy. Astron. Soc.*, **524**(2), 2042–2063, [10.1093/mnras/stad1650](https://doi.org/10.1093/mnras/stad1650).
- [87] Farrugia, C. J., B. J. Vasquez, N. Lugaz, N. A. Al-Haddad, I. G. Richardson, E. E. Davies, R. M. Winslow, B. Zhuang, C. Scolini, R. B. Torbert, L. B. Wilson, F. Regnault, A. Rogers, A. B. Galvin, and W. Yu (2023), How Magnetic Reconnection May Affect the Coherence of Interplanetary Coronal Mass Ejections, *Astrophys. J.*, **953**(1), 15, [10.3847/1538-4357/acdcf7](https://doi.org/10.3847/1538-4357/acdcf7).
- [88] Feng, X., J. Lv, C. Xiang, and C. Jiang (2023), Time-dependent boundary conditions for data-driven coronal global and spherical wedge-shaped models, *Mon. Not. Roy. Astron. Soc.*, **519**(4), 6297–6332, [10.1093/mnras/stac3818](https://doi.org/10.1093/mnras/stac3818).
- [89] Ferro, M., R. Brivio, P. D’Avanzo, A. Rossi, L. Izzo, S. Campana, L. Christensen, M. Dinatolo, S. Hussein, A. J. Levan, A. Melandri, M. G. Bernardini, S. Covino, V. D’Elia, M. Della Valle, M. De Pasquale, B. P. Gompertz, D. Hartmann, K. E. Heintz, P. Jakobsson, C. Kouveliotou, D. B. Malesani, A. Martin-Carrillo, L. Nava, A. Nicuesa Guelbenzu, G. Pugliese, C. Salvaggio, R. Salvaterra, S. Savaglio, T. Sbarrato, N. R. Tanvir, R. A. M. J. Wijers, and T. Zafar (2023), A search for the afterglows, kilonovae, and host galaxies of two short GRBs: GRB 211106A and GRB 211227A, *Astron. & Astrophys.*, **678**, A142, [10.1051/0004-6361/202347113](https://doi.org/10.1051/0004-6361/202347113).

## List of Refereed Publications

### Wind Spacecraft: 2023

- [90] Finley, A. J., and A. S. Brun (2023), Accounting for differential rotation in calculations of the Sun’s angular momentum-loss rate, *Astron. & Astrophys.*, **674**, A42, [10.1051/0004-6361/202245642](https://doi.org/10.1051/0004-6361/202245642).
- [91] Fleetham, A. L., S. E. Milan, S. M. Imber, and S. K. Vines (2023), Solar Wind Control of Hemispherically-Integrated Field-Aligned Currents at Earth, *J. Geophys. Res.*, **128**(8), e2023JA031540, [10.1029/2023JA031540](https://doi.org/10.1029/2023JA031540).
- [92] Fleishman, G. D., G. M. Nita, and G. G. Motorina (2023), Data-constrained 3D Modeling of a Solar Flare Evolution: Acceleration, Transport, Heating, and Energy Budget, *Astrophys. J.*, **953**(2), 174, [10.3847/1538-4357/ace1f4](https://doi.org/10.3847/1538-4357/ace1f4).
- [93] Fogg, A. R., M. Lester, T. K. Yeoman, J. A. Carter, S. E. Milan, H. K. Sangha, T. Elsdon, S. J. Wharton, M. K. James, J. Malone-Leigh, L. J. Paxton, B. J. Anderson, and S. K. Vines (2023), Multi-Instrument Observations of the Effects of a Solar Wind Pressure Pulse on the High Latitude Ionosphere: A Detailed Case Study of a Geomagnetic Sudden Impulse, *J. Geophys. Res.*, **128**(3), e2022JA031136, [10.1029/2022JA031136](https://doi.org/10.1029/2022JA031136).
- [94] Fogg, A. R., C. M. Jackman, I. Coco, L. Douglas Rooney, D. M. Weigt, and M. Lester (2023), Why Are Some Solar Wind Pressure Pulses Followed by Geomagnetic Storms?, *J. Geophys. Res.*, **128**(8), e2022JA031259, [10.1029/2022JA031259](https://doi.org/10.1029/2022JA031259).
- [95] Fogg, A. R., C. M. Jackman, J. Malone-Leigh, P. T. Gallagher, A. W. Smith, M. Lester, M. T. Walach, and J. E. Waters (2023), Extreme Value Analysis of Ground Magnetometer Observations at Valentia Observatory, Ireland, *Space Weather*, **21**(7), e2023SW003565, [10.1029/2023SW003565](https://doi.org/10.1029/2023SW003565).
- [96] Fordin, S., M. Shay, I. Wilson, Lynn B., B. Maruca, and B. J. Thompson (2023), A Machine Learning-Based Approach to Time-series Wave Identification in the Solar Wind, *Astrophys. J.*, **949**(2), 40, [10.3847/1538-4357/acc8d5](https://doi.org/10.3847/1538-4357/acc8d5).
- [97] Fraternali, F., N. V. Pogorelov, and R. K. Bera (2023), The Role of Electrons and Helium Atoms in Global Modeling of the Heliosphere, *Astrophys. J.*, **946**(2), 97, [10.3847/1538-4357/acba10](https://doi.org/10.3847/1538-4357/acba10).
- [98] Frederiks, D., D. Svinkin, A. L. Lysenko, S. Molkov, A. Tsvetkova, M. Ulanov, A. Ridnaia, A. A. Lutovinov, I. Lapshov, A. Tkachenko, and V. Levin (2023), Properties of the Extremely Energetic GRB 221009A from Konus-WIND and SRG/ART-XC Observations, *Astrophys. J. Lett.*, **949**(1), L7, [10.3847/2041-8213/acd1eb](https://doi.org/10.3847/2041-8213/acd1eb).
- [99] Fu, H., X. Shi, Z. Huang, Y. Qi, and L. Xia (2023), The Contribution and FIP Bias of Three Types of Materials inside ICMEs Associated with Different Flare Intensities, *Astrophys. J.*, **956**(2), 129, [10.3847/1538-4357/acfa76](https://doi.org/10.3847/1538-4357/acfa76).
- [100] Fu, S., X. Zhang, L. Zhao, M. Wang, W. Shang, and P. Luo (2023), Measurements of anomalous cosmic rays from the WIND spacecraft over 1994-2021, *Mon. Not. Roy. Astron. Soc.*, **518**(4), 4832–4838, [10.1093/mnras/stac3437](https://doi.org/10.1093/mnras/stac3437).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [101] Fung, S. F., A. Masson, L. F. Bargatze, T. King, R. Ringuette, R. M. Candey, C. Wiegand, L. K. Jian, D. De Zeeuw, K. Muglach, R. M. McGranaghan, D. Aaron Roberts, B. Cecconi, N. André, V. Génot, J. Vandegriff, and M. A. Reiss (2023), SPASE metadata as a building block of a heliophysics science-enabling framework, *Adv. Space Res.*, **72**(12), 5707–5752, [10.1016/j.asr.2023.09.066](https://doi.org/10.1016/j.asr.2023.09.066).
- [102] Fuselier, S. A., S. M. Petrinec, K. J. Trattner, K. LLera, J. L. Burch, D. J. Gershman, M. A. Dayeh, N. Schwadron, H. O. Funsten, and D. J. McComas (2023), Plasma Properties in the Earth’s Magnetosheath Near the Subsolar Magnetopause: Implications for Geocoronal Density Estimates, *Geophys. Res. Lett.*, **50**(20), e2023GL105553, [10.1029/2023GL105553](https://doi.org/10.1029/2023GL105553).
- [103] Gburi, S. I., and N. M. R. AL-Ubaidi (2023), Effect of solar proton events on the electron density of the ionosphere for different altitudes, in *American Institute of Physics Conference Series, American Institute of Physics Conference Series*, vol. 2839, p. 050009, AIP, [10.1063/5.0167912](https://doi.org/10.1063/5.0167912).
- [104] Ge, M. Y., C. Z. Liu, S. N. Zhang, F. J. Lu, Z. Zhang, Z. Chang, Y. L. Tuo, X. B. Li, C. K. Li, S. L. Xiong, C. Cai, X. F. Li, R. Zhang, Z. G. Dai, J. L. Qu, L. M. Song, S. Zhang, and L. J. Wang (2023), Reanalysis of the X-Ray-burst-associated FRB 200428 with Insight-HXMT Observations, *Astrophys. J.*, **953**(1), 67, [10.3847/1538-4357/acda1d](https://doi.org/10.3847/1538-4357/acda1d).
- [105] Geletaw, B., N. Melessew, and G. D. Reeves (2023), Performance evaluation of SNB<sup>3</sup>GEO electrons flux forecasting model using LANL and GOES-13 observations, *Adv. Space Res.*, **71**(6), 2833–2845, [10.1016/j.asr.2022.11.044](https://doi.org/10.1016/j.asr.2022.11.044).
- [106] Gershkovich, I., S. Lepri, N. Viall, S. Di Matteo, and L. Kepko (2023), Distributions of Mesoscale Periodic Structures in the Elemental and Ionic Composition of the Solar Wind, *Solar Phys.*, **298**(7), 89, [10.1007/s11207-023-02176-9](https://doi.org/10.1007/s11207-023-02176-9).
- [107] Geyer, P., M. Dumbović, M. Temmer, A. Veronig, K. Dissauer, and B. Vršnak (2023), Interaction of a coronal mass ejection and a stream interaction region: A case study, *Astron. & Astrophys.*, **672**, A168, [10.1051/0004-6361/202245433](https://doi.org/10.1051/0004-6361/202245433).
- [108] Ghag, K., P. Tari, A. Raghav, Z. Shaikh, O. Dhamane, U. Panchal, G. Hilbert, M. Katvankar, K. Choraghe, D. Mishra, and K. Kumbhar (2023), The role of extreme geomagnetic storms in the Forbush decrease profile observed by neutron monitors, *J. Atmos. Solar-Terr. Phys.*, **252**, 106146, [10.1016/j.jastp.2023.106146](https://doi.org/10.1016/j.jastp.2023.106146).
- [109] Ghag, K., B. Sathe, A. Raghav, Z. Shaikh, D. Mishra, A. Bhaskar, T. K. Pant, O. Dhamane, P. Tari, P. Pathare, V. Pawaskar, K. Kumbhar, and G. Hilbert (2023), Statistical Study of Geo-Effectiveness of Planar Magnetic Structures Evolved within ICME’s, *Universe*, **9**(8), 350, [10.3390/universe9080350](https://doi.org/10.3390/universe9080350).
- [110] Ghanbari, K., and V. Florinski (2023), Simulation of Solar Wind Turbulence near Corotating Interaction Regions: Superposed Epoch Analysis of Simulations and Observations, *Astrophys. J.*, **943**(2), 87, [10.3847/1538-4357/acabc4](https://doi.org/10.3847/1538-4357/acabc4).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [111] Giarratana, S., M. Giroletti, C. Spingola, G. Migliori, S. Belladitta, and M. Pedani (2023), Multi-scale VLBI observations of the candidate host galaxy of GRB 200716C, *Astron. & Astrophys.*, **670**, A35, [10.1051/0004-6361/202243829](https://doi.org/10.1051/0004-6361/202243829).
- [112] Goel, D., Y.-J. J. Wu, B. J. Harding, C. C. Triplett, T. J. Immel, C. Cullens, and S. England (2023), On the Variation of Column Density Ratio  $\Sigma\text{O}/\text{N}_2$  in the Upper Atmosphere Using Principal Component Analysis in 2-Dimensional Images, *J. Geophys. Res.*, **128**(6), e2022JA031037, [10.1029/2022JA031037](https://doi.org/10.1029/2022JA031037).
- [113] Goetz, C., L. Scharré, C. S. Wedlund, A. Moeslinger, H. Nilsson, E. Odelstad, M. G. G. T. Taylor, and M. Volwerk (2023), Solar Wind Protons in the Diamagnetic Cavity at Comet 67P/Churyumov-Gerasimenko, *J. Geophys. Res.*, **128**(4), e2022JA031249, [10.1029/2022JA031249](https://doi.org/10.1029/2022JA031249).
- [114] Goldstein, J., J. L. Burch, S. A. Fuselier, R. Gomez, C. A. Gonzalez, M. J. Kim, J. Mukherjee, N. E. Turner, and M. E. Wilson (2023), MMS Observations of Dayside Warm (Several eV to 100 eV) Ions in the Middle and Outer Magnetosphere, *J. Geophys. Res.*, **128**(3), e2022JA031051, [10.1029/2022JA031051](https://doi.org/10.1029/2022JA031051).
- [115] Gomes, L. F., T. F. P. Gomes, E. L. Rempel, and S. Gama (2023), Origin of multifractality in solar wind turbulence: the role of current sheets, *Mon. Not. Roy. Astron. Soc.*, **519**(3), 3623–3634, [10.1093/mnras/stac3577](https://doi.org/10.1093/mnras/stac3577).
- [116] Goodrich, K. A., I. Wilson, Lynn B., S. Schwartz, I. J. Cohen, D. L. Turner, P. Whittlesey, A. Caspi, R. Rose, K. Smith, R. Allen, D. Burgess, D. Caprioli, P. Cassak, J. Eastwood, J. Giacalone, I. Gingell, C. Haggerty, J. Halekas, G. Hospodarsky, G. Howes, J. Juno, Y. Khotyaintsev, K. Klein, H. Kucharek, B. Lembège, E. Lichko, T. Liu, D. Malaspina, M. F. Marcucci, C. Mazelle, K. Meziane, F. Plaschke, A. Retino, C. Russell, E. Scime, D. Sibeck, M. Stevens, J. TenBarge, I. Vasko, S. Wang, L. Wang, and H. Zhang (2023), Multi-point Assessment of the Kinematics of Shocks (MAKOS): A Heliophysics Mission Concept Study, in *Bull. American Astron. Soc.*, vol. 55, p. 135, [10.3847/25c2cfcb.431a46a0](https://doi.org/10.3847/25c2cfcb.431a46a0).
- [117] Gopalswamy, N., G. Michalek, S. Yashiro, P. Mäkelä, S. Akiyama, and H. Xie (2023), What Do Halo CMEs Tell Us about Solar Cycle 25?, *Astrophys. J. Lett.*, **952**(1), L13, [10.3847/2041-8213/acdde2](https://doi.org/10.3847/2041-8213/acdde2).
- [118] Gopalswamy, N., S. Christe, S. Fung, Q. Gong, L. Jian, S. Kanekal, C. Kay, T. Kucera, J. Leake, P. Mäkelä, A. Shih, S. Tadikonda, N. Viall, I. Wilson, Lynn, S. Yashiro, L. Golub, E. DeLuca, K. Reeves, A. Sterling, S. Savage, A. Winebarger, C. DeForest, M. Desai, D. Seaton, J. Lazio, E. Jensen, W. Manchester, N. Sachdeva, B. Wood, J. Kooi, P. Hess, D. Wexler, S. Bale, S. Krucker, N. Hurlburt, M. DeRosa, A. Pevtsov, G. Petrie, S. Trpathy, K. Jain, S. Gosain, S. Kholikov, J. Zhao, P. Scherrer, P. Rajaguru, T. Woods, M. Kenney, J. Zhang, C. Scolini, K. Cho, and Y.-d. Park (2023), The Multiview Observatory for Solar Terrestrial Science (MOST), in *Bull. American Astron. Soc.*, vol. 55, p. 138, [10.3847/25c2cfcb.0c98a944](https://doi.org/10.3847/25c2cfcb.0c98a944).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [119] Grechnev, V. V., A. A. Kochanov, and A. M. Uralov (2023), Eruptive Flare, CME, and Shock Wave in the 25 August 2001 High-Energy Solar Event, *Solar Phys.*, **298**(3), 49, [10.1007/s11207-023-02144-3](https://doi.org/10.1007/s11207-023-02144-3).
- [120] Grimmich, N., F. Plaschke, M. O. Archer, D. Heyner, J. Z. D. Mieth, R. Nakamura, and D. G. Sibeck (2023), Study of Extreme Magnetopause Distortions Under Varying Solar Wind Conditions, *J. Geophys. Res.*, **128**(8), e2023JA031603, [10.1029/2023JA031603](https://doi.org/10.1029/2023JA031603).
- [121] Gu, Y. X., Y. Wang, F. S. Wei, X. S. Feng, X. J. Song, B. Y. Wang, P. B. Zuo, C. W. Jiang, X. J. Xu, and Z. L. Zhou (2023), Quasi-elastodynamic Processes Involved in the Interaction between Solar Wind and Magnetosphere, *Astrophys. J.*, **946**(2), 102, [10.3847/1538-4357/acbe9b](https://doi.org/10.3847/1538-4357/acbe9b).
- [122] Guastavino, S., V. Candiani, A. Bemporad, F. Marchetti, F. Benvenuto, A. M. Massone, S. Mancuso, R. Susino, D. Telloni, S. Fineschi, and M. Piana (2023), Physics-driven Machine Learning for the Prediction of Coronal Mass Ejections' Travel Times, *Astrophys. J.*, **954**(2), 151, [10.3847/1538-4357/ace62d](https://doi.org/10.3847/1538-4357/ace62d).
- [123] Gulyaeva, T., I. Stanislawska, and R. Lukianova (2023), Arctic-Antarctic asymmetry of the ionospheric weather, *Adv. Space Res.*, **72**(12), 5428–5442, [10.1016/j.asr.2022.05.008](https://doi.org/10.1016/j.asr.2022.05.008).
- [124] Gulyaeva, T., M. Hernández-Pajares, and I. Stanislawska (2023), Ionospheric Weather at Two Starlink Launches during Two-Phase Geomagnetic Storms, *Sensors*, **23**(15), 7005, [10.3390/s23157005](https://doi.org/10.3390/s23157005).
- [125] Guo, J., X. Li, J. Zhang, M. I. Dobynde, Y. Wang, Z. Xu, T. Berger, J. Semkova, R. F. Wimmer-Schweingruber, D. M. Hassler, C. Zeitlin, B. Ehresmann, D. Matthiä, and B. Zhuang (2023), The First Ground Level Enhancement Seen on Three Planetary Surfaces: Earth, Moon, and Mars, *Geophys. Res. Lett.*, **50**(15), e2023GL103069, [10.1029/2023GL103069](https://doi.org/10.1029/2023GL103069).
- [126] Hajoš, M., F. Němec, A. Demekhov, O. Santolík, M. Parrot, T. Raita, and B. Bezděková (2023), Quasiperiodic ELF/VLF Emissions Associated With Corresponding Pulsations of the Geomagnetic Field, *J. Geophys. Res.*, **128**(4), e2022JA031103, [10.1029/2022JA031103](https://doi.org/10.1029/2022JA031103).
- [127] Hajra, R., E. Echer, A. M. d. S. Franco, and M. J. A. Bolzan (2023), Earth's magnetotail variability during supersubstorms (SSSs): A study on solar wind-magnetosphere-ionosphere coupling, *Adv. Space Res.*, **72**(4), 1208–1223, [10.1016/j.asr.2023.04.013](https://doi.org/10.1016/j.asr.2023.04.013).
- [128] Hajra, S., N. Dashora, and J. Solomon Ivan (2023), On the multi-scale dynamics and energy flow near reconnection regions in the magnetopause and magnetotail using the MMS, Cluster and THEMIS observations during the geomagnetic storm of 31 December 2015, *Adv. Space Res.*, **72**(8), 3229–3250, [10.1016/j.asr.2023.06.025](https://doi.org/10.1016/j.asr.2023.06.025).
- [129] Hajra, S., N. Dashora, and J. S. Ivan (2023), Global Observations of the Short-Term Disturbances in the Geomagnetic Field and Induced Currents During the Supersubstorms Events of Solar Cycle 24, *Space Weather*, **21**(4), e2022SW003355, [10.1029/2022SW003355](https://doi.org/10.1029/2022SW003355).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [130] Halekas, J. S., S. Shaver, A. R. Azari, C. M. Fowler, Y. Ma, S. Xu, L. Andersson, C. Bertucci, S. M. Curry, C. Dong, Y. Dong, X. Fang, P. Garnier, K. G. Hanley, T. Hara, S. K. Howard, A. Hughes, R. J. Lillis, C. O. Lee, J. G. Luhmann, H. Madanian, M. Marquette, C. Mazelle, J. P. McFadden, K. Meziane, D. L. Mitchell, A. Rahmati, W. Reed, N. Romanelli, and N. R. Schnepf (2023), The Day the Solar Wind Disappeared at Mars, *J. Geophys. Res.*, **128**(12), e2023JA031935, [10.1029/2023JA031935](https://doi.org/10.1029/2023JA031935).
- [131] Hamrin, M., A. Schillings, H. Opgenoorth, S. Nesbit-Östman, E. Krämer, J. Araújo, L. Baddeley, H. Gunell, T. Pitkänen, J. Gjerloev, and R. J. Barnes (2023), Space Weather Disturbances in Non-Stormy Times: Occurrence of dB/dt Spikes During Three Solar Cycles, *J. Geophys. Res.*, **128**(10), e2023JA031804, [10.1029/2023JA031804](https://doi.org/10.1029/2023JA031804).
- [132] Hao, Y. X., Q. G. Zong, C. Yue, X. Z. Zhou, H. Zhang, Z. Y. Pu, and Y. Y. Shprits (2023), Plasmapause Surface Waves Triggered by Substorms, *J. Geophys. Res.*, **128**(6), e2021JA029962, [10.1029/2021JA029962](https://doi.org/10.1029/2021JA029962).
- [133] Hariharan, B., M. Chakraborty, S. R. Dugad, S. K. Gupta, Y. Hayashi, P. Jagadeesan, A. Jain, S. Kawakami, H. Kojima, S. Mahapatra, P. K. Mohanty, Y. Muraki, P. K. Nayak, T. Nonaka, A. Oshima, D. Pattanaik, M. Rameez, K. Ramesh, L. V. Reddy, S. Shibata, and M. Zuberi (2023), Probing solar storms with GRAPES-3 scintillator detectors, *J. Atmos. Solar-Terr. Phys.*, **243**, 106005, [10.1016/j.jastp.2023.106005](https://doi.org/10.1016/j.jastp.2023.106005).
- [134] Harrison, R. A., J. A. Davies, D. Barnes, and C. Möstl (2023), L1 and Off Sun-Earth Line Visible-Light Imaging of Earth-Directed CMEs: An Analysis of Inconsistent Observations, *Space Weather*, **21**(4), e2022SW003358, [10.1029/2022SW003358](https://doi.org/10.1029/2022SW003358).
- [135] Hayes, F., I. S. Heng, G. Lamb, E.-T. Lin, J. Veitch, and M. J. Williams (2023), Unpacking Merger Jets: A Bayesian Analysis of GW170817, GW190425 and Electromagnetic Observations of Short Gamma-Ray Bursts, *Astrophys. J.*, **954**(1), 92, [10.3847/1538-4357/ace899](https://doi.org/10.3847/1538-4357/ace899).
- [136] He, J., E. Astafyeva, X. Yue, F. Ding, and B. Maletckii (2023), The Giant Ionospheric Depletion on 15 January 2022 Around the Hunga Tonga-Hunga Ha’apai Volcanic Eruption, *J. Geophys. Res.*, **128**(1), e2022JA030984, [10.1029/2022JA030984](https://doi.org/10.1029/2022JA030984).
- [137] He, J., E. Astafyeva, X. Yue, N. M. Pedatella, D. Lin, T. J. Fuller-Rowell, M. Fedrizzi, M. Codrescu, E. Doornbos, C. Siemes, S. Bruinsma, F. Pitout, and A. Kubaryk (2023), Comparison of Empirical and Theoretical Models of the Thermospheric Density Enhancement During the 3-4 February 2022 Geomagnetic Storm, *Space Weather*, **21**(9), e2023SW003521, [10.1029/2023SW003521](https://doi.org/10.1029/2023SW003521).
- [138] He, Q., Z. Wang, Q. Liu, K. Liu, and L. Guo (2023), Using Tianwen-1 Differential One-way Range Signals to Probe Corotating Interaction Regions: Case Studies, *Astrophys. J.*, **955**(1), 62, [10.3847/1538-4357/acf30e](https://doi.org/10.3847/1538-4357/acf30e).
- [139] Hennessy, A., R. L. C. Starling, A. Rowlinson, I. de Ruiter, A. Kumar, R. A. J. Eyles-Ferris, A. K. Ror, G. E. Anderson, K. Gourdji, A. J. van der Horst, S. B. Pandey, T. W. Shimwell, D. Steeghs, N. Stylianou, S. ter Veen, K. Wiersema, and R. A. M. J. Wijers

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- (2023), A LOFAR prompt search for radio emission accompanying X-ray flares in GRB 210112A, *Mon. Not. Roy. Astron. Soc.*, **526**(1), 106–117, [10.1093/mnras/stad2670](https://doi.org/10.1093/mnras/stad2670).
- [140] Hirai, A., F. Tsuchiya, T. Obara, Y. Katoh, Y. Miyoshi, K. Shiokawa, Y. Kasaba, H. Misawa, C.-W. Jun, S. Kurita, M. G. Connors, A. T. Hendry, A. Shinbori, Y. Otsuka, T. Tsugawa, M. Nishioka, S. Perwitasari, and J. W. Manweiler (2023), Spatio-Temporal Characteristics of IPDP-Type EMIC Waves on April 19, 2017: Implications for Loss of Relativistic Electrons in the Outer Belt, *J. Geophys. Res.*, **128**(8), e2023JA031479, [10.1029/2023JA031479](https://doi.org/10.1029/2023JA031479).
- [141] Ho, A. Y. Q., D. A. Perley, P. Chen, S. Schulze, V. Dhillon, H. Kumar, A. Suresh, V. Swain, M. Bremer, S. J. Smartt, J. P. Anderson, G. C. Anupama, S. Awiphan, S. Barway, E. C. Bellm, S. Ben-Ami, V. Bhalerao, T. de Boer, T. G. Brink, R. Burruss, P. Chandra, T.-W. Chen, W.-P. Chen, J. Cooke, M. W. Coughlin, K. K. Das, A. J. Drake, A. V. Filippenko, J. Freeburn, C. Fremling, M. D. Fulton, A. Gal-Yam, L. Galbany, H. Gao, M. J. Graham, M. Gromadzki, C. P. Gutiérrez, K. R. Hinds, C. Inserra, N. A. J, V. Karambelkar, M. M. Kasliwal, S. Kulkarni, T. E. Müller-Bravo, E. A. Magnier, A. A. Mahabal, T. Moore, C.-C. Ngeow, M. Nicholl, E. O. Ofek, C. M. B. Omand, F. Onori, Y.-C. Pan, P. J. Pessi, G. Petitpas, D. Polishook, S. Poshyachinda, M. Pursiainen, R. Riddle, A. C. Rodriguez, B. Rusholme, E. Segre, Y. Sharma, K. W. Smith, J. Sollerman, S. Srivastav, N. L. Strotjohann, M. Suhr, D. Svinikin, Y. Wang, P. Wiseman, A. Wold, S. Yang, Y. Yang, Y. Yao, D. R. Young, and W. Zheng (2023), Minutes-duration optical flares with supernova luminosities, *Nature*, **623**(7989), 927–931, [10.1038/s41586-023-06673-6](https://doi.org/10.1038/s41586-023-06673-6).
- [142] Horaites, K., E. Rintamäki, I. Zaitsev, L. Turc, M. Grandin, G. Cozzani, H. Zhou, M. Alho, J. Suni, F. Kebede, E. Gordeev, H. George, M. Battarbee, M. Bussov, M. Dubart, U. Ganse, K. Papadakis, Y. Pfau-Kempf, V. Tarvus, and M. Palmroth (2023), Magnetospheric Response to a Pressure Pulse in a Three-Dimensional Hybrid-Vlasov Simulation, *J. Geophys. Res.*, **128**(8), e2023JA031374, [10.1029/2023JA031374](https://doi.org/10.1029/2023JA031374).
- [143] Horvath, I., and B. C. Lovell (2023), Sub-Auroral Flows and Associated Magnetospheric and Ionospheric Phenomena Developed During 7-8 September 2017, *J. Geophys. Res.*, **128**(3), e2022JA030966, [10.1029/2022JA030966](https://doi.org/10.1029/2022JA030966).
- [144] Hu, A., E. Camporeale, and B. Swiger (2023), Multi-Hour-Ahead Dst Index Prediction Using Multi-Fidelity Boosted Neural Networks, *Space Weather*, **21**(4), e2022SW003286, [10.1029/2022SW003286](https://doi.org/10.1029/2022SW003286).
- [145] Huang, S., N. Cappelluti, M. Galeazzi, A. Gupta, W. Liu, E. Ursino, and T. J. Velliyedathu (2023), Point-source Contribution to the Diffuse X-Ray Background below 1 keV and Its Effect on Our Understanding of the Circumgalactic Medium, *Astrophys. J.*, **947**(2), 49, [10.3847/1538-4357/acaf7b](https://doi.org/10.3847/1538-4357/acaf7b).
- [146] Huang, Y.-Y., C.-Y. Dai, H.-M. Zhang, R.-Y. Liu, and X.-Y. Wang (2023), Constraints on the Intergalactic Magnetic Field Strength from  $\gamma$ -Ray Observations of GRB 221009A, *Astrophys. J. Lett.*, **955**(1), L10, [10.3847/2041-8213/acf66a](https://doi.org/10.3847/2041-8213/acf66a).



## List of Refereed Publications

### Wind Spacecraft: 2023

- [147] Huang, Z., Z. Yuan, X. Yu, D. Deng, and Z. Xue (2023), Simultaneous Observation of Whistler-Mode Chorus and Fast Magnetosonic Waves During the Magnetic Peak in the Inner Magnetosphere, *Geophys. Res. Lett.*, **50**(16), e2023GL104647, [10.1029/2023GL104647](https://doi.org/10.1029/2023GL104647).
- [148] Huang, Z., G. Tóth, N. Sachdeva, L. Zhao, B. van der Holst, I. Sokolov, W. B. Manchester, and T. I. Gombosi (2023), Modeling the Solar Wind during Different Phases of the Last Solar Cycle, *Astrophys. J. Lett.*, **946**(2), L47, [10.3847/2041-8213/acc5ef](https://doi.org/10.3847/2041-8213/acc5ef).
- [149] Hubert, D., C. S. Salem, and M. Pulupa (2023), The nature of the solar wind electron temperature and electron heat flux. II. Case of a spiral interplanetary magnetic field, *Astron. & Astrophys.*, **677**, A132, [10.1051/0004-6361/202244129](https://doi.org/10.1051/0004-6361/202244129).
- [150] Hull, A. J., C. C. Chaston, and P. A. Damiano (2023), Multipoint Cluster Observations of Kinetic Alfvén Waves, Electron Energization, and O<sup>+</sup> Ion Outflow Response in the Mid-Altitude Cusp Associated With Solar Wind Pressure and/or IMF B<sub>Z</sub> Variations, *J. Geophys. Res.*, **128**(11), e2023JA031982, [10.1029/2023JA031982](https://doi.org/10.1029/2023JA031982).
- [151] Hwang, K. J., R. Nakamura, J. P. Eastwood, S. A. Fuselier, H. Hasegawa, T. Nakamura, B. Lavraud, K. Dokgo, D. L. Turner, R. E. Ergun, and P. H. Reiff (2023), Cross-Scale Processes of Magnetic Reconnection, *Space Sci. Rev.*, **219**(8), 71, [10.1007/s11214-023-01010-9](https://doi.org/10.1007/s11214-023-01010-9).
- [152] Ishi, D., K. Ishikawa, Y. Miyoshi, N. Terada, and Y. Ezoe (2023), Modeling of geocoronal solar wind charge exchange events detected with Suzaku, *Publ. Astron. Soc. Japan*, **75**(1), 128–152, [10.1093/pasj/psac095](https://doi.org/10.1093/pasj/psac095).
- [153] Isravel, H., D. Bégué, and A. Pe’er (2023), Hybrid Emission Modeling of GRB 221009A: Shedding Light on TeV Emission Origins in Long GRBs, *Astrophys. J.*, **956**(1), 12, [10.3847/1538-4357/acefcd](https://doi.org/10.3847/1538-4357/acefcd).
- [154] Iwai, K., R. A. Fallows, M. M. Bisi, D. Shiota, B. V. Jackson, M. Tokumaru, and K. Fujiki (2023), Magnetohydrodynamic simulation of coronal mass ejections using interplanetary scintillation data observed from radio sites ISEE and LOFAR, *Adv. Space Res.*, **72**(12), 5328–5340, [10.1016/j.asr.2022.09.028](https://doi.org/10.1016/j.asr.2022.09.028).
- [155] Jackson, B. V., M. Tokumaru, R. A. Fallows, M. M. Bisi, K. Fujiki, I. Chashei, S. Tyul’bashev, O. Chang, D. Barnes, A. Buffington, L. Cota, and M. Bracamontes (2023), Interplanetary scintillation (IPS) analyses during LOFAR campaign mode periods that include the first three Parker Solar Probe close passes of the Sun, *Adv. Space Res.*, **72**(12), 5341–5360, [10.1016/j.asr.2022.06.029](https://doi.org/10.1016/j.asr.2022.06.029).
- [156] Jackson, B. V., M. Tokumaru, K. Iwai, M. T. Bracamontes, A. Buffington, K. Fujiki, G. Murakami, D. Heyner, B. Sanchez-Cano, M. Rojo, S. Aizawa, N. Andre, A. Barthe, E. Penou, A. Fedorov, J.-A. Sauvaud, S. Yokota, and Y. Saito (2023), Forecasting Heliospheric CME Solar-Wind Parameters Using the UCSD Time-Dependent Tomography and ISEE Interplanetary Scintillation Data: The 10 March 2022 CME, *Solar Phys.*, **298**(5), 74, [10.1007/s11207-023-02169-8](https://doi.org/10.1007/s11207-023-02169-8).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [157] James, T., and N. Vilmer (2023), Statistical study of type III bursts and associated HXR emissions, *Astron. & Astrophys.*, **673**, A57, [10.1051/0004-6361/202245825](https://doi.org/10.1051/0004-6361/202245825).
- [158] Jebaraj, I. C., J. Magdalenic, V. Krasnoselskikh, V. Krupar, and S. Poedts (2023), Structured type III radio bursts observed in interplanetary space, *Astron. & Astrophys.*, **670**, A20, [10.1051/0004-6361/202243494](https://doi.org/10.1051/0004-6361/202243494).
- [159] Jebaraj, I. C., A. Kouloumvakos, N. Dresing, A. Warmuth, N. Wijsen, C. Palmroos, J. Gieseler, A. Marmyleva, R. Vainio, V. Krupar, T. Wiegmann, J. Magdalenic, F. Schuller, A. F. Battaglia, and A. Fedeli (2023), Multiple injections of energetic electrons associated with the flare and CME event on 9 October 2021, *Astron. & Astrophys.*, **675**, A27, [10.1051/0004-6361/202245716](https://doi.org/10.1051/0004-6361/202245716).
- [160] Ji, Y., L. Ma, C. Shen, G. Zeng, Y. Yang, and S. Ti (2023), Composite Model for Predicting SYM-H Index, *Earth and Space Sci.*, **10**(10), e2022EA002560, [10.1029/2022EA002560](https://doi.org/10.1029/2022EA002560).
- [161] Jiao, Q., W. Liu, D. Zhang, and J. Cao (2023), Relation between Latitude-dependent Sunspot Data and Near-Earth Solar Wind Speed, *Astrophys. J.*, **958**(1), 70, [10.3847/1538-4357/acfc21](https://doi.org/10.3847/1538-4357/acfc21).
- [162] Jin, Y., W. J. Miloch, D. Kotova, K. S. Jacobsen, Ā. ŋ. Stevanović, L. B. N. Clausen, N. Ssessanga, and F. Da Dalt (2023), Modeling TEC Irregularities in the Arctic Ionosphere Using Empirical Orthogonal Function Method, *Space Weather*, **21**(8), e2023SW003531, [10.1029/2023SW003531](https://doi.org/10.1029/2023SW003531).
- [163] Jin, Y., B. Zhao, H. Hao, X. Yue, F. Ding, B. Ning, L. Zeng, and Z. Li (2023), Preliminary Results of the Three-Dimensional Plasma Drift Velocity at East Asian Low-Latitudes Observed by the Sanya Incoherent Scattering Radar (SYISR), *Remote Sensing*, **15**(11), 2842, [10.3390/rs15112842](https://doi.org/10.3390/rs15112842).
- [164] Jivani, A., N. Sachdeva, Z. Huang, Y. Chen, B. van der Holst, W. Manchester, D. Iong, H. Chen, S. Zou, X. Huan, and G. Toth (2023), Global Sensitivity Analysis and Uncertainty Quantification for Background Solar Wind Using the Alfvén Wave Solar Atmosphere Model, *Space Weather*, **21**(1), e2022SW003262, [10.1029/2022SW003262](https://doi.org/10.1029/2022SW003262).
- [165] Johlander, A., Y. V. Khotyaintsev, A. P. Dimmock, D. B. Graham, and A. Lalti (2023), Electron Heating Scales in Collisionless Shocks Measured by MMS, *Geophys. Res. Lett.*, **50**(5), e2022GL100400, [10.1029/2022GL100400](https://doi.org/10.1029/2022GL100400).
- [166] Johnson, E., B. A. Maruca, M. McManus, K. G. Klein, E. R. Lichko, J. Verniero, K. W. Paulson, H. DeWeese, I. Dieguez, R. A. Qudsi, J. Kasper, M. Stevens, B. L. Alterman, I. Wilson, L. B., R. Livi, A. Rahmati, and D. Larson (2023), Anterograde Collisional Analysis of Solar Wind Ions, *Astrophys. J.*, **950**(1), 51, [10.3847/1538-4357/accc32](https://doi.org/10.3847/1538-4357/accc32).
- [167] Jonah, O., P. Reyes, L. Lamarche, and A. van Eyken (2023), Automated Detection and Characterization of Wave Structures Obtained From GNSS Measurements, *Earth and Space Sci.*, **10**(12), e2023EA003183, [10.1029/2023EA003183](https://doi.org/10.1029/2023EA003183).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [168] Kader, S. S., N. Dashora, and K. Niranjana (2023), Study of the ionospheric responses over African and Asian longitudes to the intense geomagnetic storm of August 2018, *Astrophys. Space Sci.*, **368**(12), 102, [10.1007/s10509-023-04259-2](https://doi.org/10.1007/s10509-023-04259-2).
- [169] Kahler, S. W., and A. G. Ling (2023), Solar-Stellar Connection: X-Ray Flares to Energetic ( $E > 10$  MeV) Particle Events, *Astrophys. J.*, **956**(1), 24, [10.3847/1538-4357/acf1ff](https://doi.org/10.3847/1538-4357/acf1ff).
- [170] Kahler, S. W., A. G. Ling, and D. V. Reames (2023), Spatial Evolution of 20 MeV Solar Energetic Proton Events, *Astrophys. J.*, **942**(2), 68, [10.3847/1538-4357/aca7c0](https://doi.org/10.3847/1538-4357/aca7c0).
- [171] Kann, D. A., S. Agayeva, V. Aivazyan, S. Alishov, C. M. Andrade, S. Antier, A. Baransky, P. Bendjoya, Z. Benkhaldoun, S. Beradze, D. Berezin, M. Boër, E. Broens, S. Brunier, M. Bulla, O. Burkhonov, E. Burns, Y. Chen, Y. P. Chen, M. Conti, M. W. Coughlin, W. W. Cui, F. Daigne, B. Delaveau, H. A. R. Devillepoix, T. Dietrich, D. Dornic, F. Dubois, J. G. Ducoin, E. Durand, P. A. Duverne, H. B. Eggenstein, S. Ehgamberdiev, A. Fouad, M. Freeberg, D. Froebrich, M. Y. Ge, S. Gervasoni, V. Godunova, P. Gokuldass, E. Gurbanov, D. W. Han, E. Hasanov, P. Hello, T. Hussenot-Desenonges, R. Inasaridze, A. Iskandar, N. Ismailov, A. Janati, T. J. du Laz, S. M. Jia, S. Karpov, A. Kaeouach, R. W. Kiendrebeogo, A. Klotz, R. Kneip, N. Kochiashvili, N. Kunert, A. Lekic, S. Leonini, C. K. Li, W. Li, X. B. Li, J. Y. Liao, L. Logie, F. J. Lu, J. Mao, D. Marchais, R. Ménard, D. Morris, R. Natsvlishvili, V. Nedora, K. Noonan, K. Noysena, N. B. Orange, P. T. H. Pang, H. W. Peng, C. Pellouin, J. Peloton, T. Pradier, O. Pyshna, Y. Rajabov, S. Rau, C. Rinner, J. P. Rivet, F. D. Romanov, P. Rosi, V. A. Rupchandani, M. Serrau, A. Shokry, A. Simon, K. Smith, O. Sokoliuk, M. Soliman, L. M. Song, A. Takey, Y. Tillayev, L. M. T. Ramirez, I. T. e Melo, D. Turpin, A. de Ugarte Postigo, S. Vanaverbeke, V. Vasylenko, D. Vernet, Z. Vidadi, C. Wang, J. Wang, L. T. Wang, X. F. Wang, S. L. Xiong, Y. P. Xu, W. C. Xue, X. Zeng, S. N. Zhang, H. S. Zhao, and X. F. Zhao (2023), GRANDMA and HXMT Observations of GRB 221009A: The Standard Luminosity Afterglow of a Hyperluminous Gamma-Ray Burst-In Gedenken an David Alexander Kann, *Astrophys. J. Lett.*, **948**(2), L12, [10.3847/2041-8213/acc8d0](https://doi.org/10.3847/2041-8213/acc8d0).
- [172] Karan, D. K., R. W. Eastes, R. E. Daniell, C. R. Martinis, and W. E. McClintock (2023), GOLD Mission's Observation About the Geomagnetic Storm Effects on the Nighttime Equatorial Ionization Anomaly (EIA) and Equatorial Plasma Bubbles (EPB) During a Solar Minimum Equinox, *Space Weather*, **21**(3), e2022SW003321, [10.1029/2022SW003321](https://doi.org/10.1029/2022SW003321).
- [173] Kataoka, R., S. Nakano, and S. Fujita (2023), Machine learning emulator for physics-based prediction of ionospheric potential response to solar wind variations, *Earth, Planets and Space*, **75**(1), 139, [10.1186/s40623-023-01896-3](https://doi.org/10.1186/s40623-023-01896-3).
- [174] Kay, C., T. Nieves-Chinchilla, S. J. Hofmeister, and E. Palmerio (2023), An Efficient, Time-Dependent High Speed Stream Model and Application to Solar Wind Forecasts, *Space Weather*, **21**(5), e2023SW003443, [10.1029/2023SW003443](https://doi.org/10.1029/2023SW003443).
- [175] Kelley, I. J., B. S. R. Kunduri, J. B. H. Baker, J. M. Ruohoniemi, and S. G. Shepherd (2023), Storm Time Electrified MSTIDs Observed Over Mid-Latitude North America, *J. Geophys. Res.*, **128**(3), e2022JA031115, [10.1029/2022JA031115](https://doi.org/10.1029/2022JA031115).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [176] Khan, A., A. A. Abid, M. S. Hussain, M. N. S. Qureshi, S. Mehmood, and A. Esmaeili (2023), Potential impacts of hydrogen band EMIC waves on the ion velocity distributions: MMS observations, *Phys. Plasmas*, **30**(11), 112901, [10.1063/5.0142896](https://doi.org/10.1063/5.0142896).
- [177] Kharakhashyan, A., and O. Maltseva (2023), Comparison of the Forecast Accuracy of Total Electron Content for Bidirectional and Temporal Convolutional Neural Networks in European Region, *Remote Sensing*, **15**(12), 3069, [10.3390/rs15123069](https://doi.org/10.3390/rs15123069).
- [178] Kihara, K., A. Asai, S. Yashiro, and N. V. Nitta (2023), Solar Energetic Particle Events with Short and Long Onset Times, *Astrophys. J.*, **946**(1), 21, [10.3847/1538-4357/acbea3](https://doi.org/10.3847/1538-4357/acbea3).
- [179] Kim, H. J., K. C. Kim, S. J. Noh, L. Lyons, D. Y. Lee, and W. Choe (2023), New Perspective on Phase Space Density Analysis for Outer Radiation Belt Enhancements: The Influence of MeV Electron Injections, *Geophys. Res. Lett.*, **50**(14), e2023GL104614, [10.1029/2023GL104614](https://doi.org/10.1029/2023GL104614).
- [180] Kim, M. J., J. Goldstein, S. A. Fuselier, A. Glocer, and J. L. Burch (2023), A Multi-Satellite Case Study of Low-Energy H<sup>+</sup> Asymmetric Field-Aligned Distributions Observed by MMS in the Earth's Magnetosphere, *J. Geophys. Res.*, **128**(3), e2022JA031060, [10.1029/2022JA031060](https://doi.org/10.1029/2022JA031060).
- [181] Kirpichev, I. P., E. E. Antonova, and M. V. Stepanova (2023), On the Relationship Between Regions of Large-Scale Field-Aligned Currents and Regions of Plateau in Plasma Pressure Observed in the Equatorial Plane of the Earth's Magnetosphere, *Geophys. Res. Lett.*, **50**(18), e2023GL105190, [10.1029/2023GL105190](https://doi.org/10.1029/2023GL105190).
- [182] Kistler, L. M., K. Asamura, S. Kasahara, Y. Miyoshi, C. G. Mouikis, K. Keika, S. M. Petriner, M. L. Stevens, T. Hori, S. Yokota, and I. Shinohara (2023), The variable source of the plasma sheet during a geomagnetic storm, *Nature Comm.*, **14**, 6143, [10.1038/s41467-023-41735-3](https://doi.org/10.1038/s41467-023-41735-3).
- [183] Kleimenova, N. G., I. V. Despirak, L. M. Malysheva, L. I. Gromova, A. A. Lubchich, A. V. Roldugin, and S. V. Gromov (2023), Substorms on a contracted auroral oval, *J. Atmos. Solar-Terr. Phys.*, **245**, 106049, [10.1016/j.jastp.2023.106049](https://doi.org/10.1016/j.jastp.2023.106049).
- [184] Klein, K. G., H. Spence, O. Alexandrova, M. Argall, L. Arzamasskiy, J. Bookbinder, T. Broeren, D. Caprioli, A. Case, B. Chandran, L.-J. Chen, I. Dors, J. Eastwood, C. Forsyth, A. Galvin, V. Genot, J. Halekas, M. Hesse, B. Hine, T. Horbury, L. Jian, J. Kasper, M. Kretzschmar, M. Kunz, B. Lavraud, O. Le Contel, A. Mallet, B. Maruca, W. Matthaeus, J. Niehof, H. O'Brien, C. Owen, A. Retinò, C. Reynolds, O. Roberts, A. Schekochihin, R. Skoug, C. Smith, S. Smith, J. Steinberg, M. Stevens, A. Szabo, J. TenBarge, R. Torbert, B. Vasquez, D. Verscharen, P. Whittlesey, B. Wickizer, G. Zank, and E. Zweibel (2023), HelioSwarm: A Multipoint, Multiscale Mission to Characterize Turbulence, *Space Sci. Rev.*, **219**(8), 74, [10.1007/s11214-023-01019-0](https://doi.org/10.1007/s11214-023-01019-0).
- [185] Kloss, C., C. C. Finlay, K. M. Laundal, and N. Olsen (2023), Polar ionospheric currents and high temporal resolution geomagnetic field models, *Geophys. J. Int.*, **235**(2), 1736–1760, [10.1093/gji/ggad325](https://doi.org/10.1093/gji/ggad325).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [186] Kocharov, L., A. Mishev, E. Riihonen, R. Vainio, and I. Usoskin (2023), A Comparative Study of Ground-level Enhancement Events of Solar Energetic Particles, *Astrophys. J.*, **958**(2), 122, [10.3847/1538-4357/acfee8](https://doi.org/10.3847/1538-4357/acfee8).
- [187] Kolarski, A., N. Veselinović, V. A. Srećković, Z. Mijić, M. Savić, and A. Dragić (2023), Impacts of Extreme Space Weather Events on September 6th, 2017 on Ionosphere and Primary Cosmic Rays, *Remote Sensing*, **15**(5), 1403, [10.3390/rs15051403](https://doi.org/10.3390/rs15051403).
- [188] Koller, F., F. Plaschke, M. Temmer, L. Preisser, O. W. Roberts, and Z. Vörös (2023), Magnetosheath Jet Formation Influenced by Parameters in Solar Wind Structures, *J. Geophys. Res.*, **128**(4), e2023JA031339, [10.1029/2023JA031339](https://doi.org/10.1029/2023JA031339).
- [189] Kollhoff, A., L. Berger, M. Brüdern, N. Dresing, S. Eldrum, S. Fleth, R. Gómez-Herrero, B. Heber, P. Köhl, D. Pacheco, L. Rodríguez-García, J. Rodríguez-Pacheco, R. F. Wimmer-Schweingruber, and Z. Xu (2023), Multi-spacecraft observations of near-relativistic electron events at different radial distances, *Astron. & Astrophys.*, **675**, A155, [10.1051/0004-6361/202345955](https://doi.org/10.1051/0004-6361/202345955).
- [190] Kornbleuth, M., M. Opher, K. Dialynas, G. P. Zank, B. B. Wang, I. Baliukin, M. Gkioulidou, J. Giacalone, V. Izmodenov, J. M. Sokół, and M. A. Dayeh (2023), Probing the Length of the Heliospheric Tail with Energetic Neutral Atoms (ENAs) from 0.52 to 80 keV, *Astrophys. J. Lett.*, **945**(1), L15, [10.3847/2041-8213/acbc73](https://doi.org/10.3847/2041-8213/acbc73).
- [191] Kosovichev, A. G., V. M. Sadykov, and J. T. Stefan (2023), Spectro-polarimetric Properties of Sunquake Sources in X1.5 Flare and Evidence for Electron and Proton Beam Impacts, *Astrophys. J.*, **958**(2), 160, [10.3847/1538-4357/acf9eb](https://doi.org/10.3847/1538-4357/acf9eb).
- [192] Kotzé, P. (2023), Behaviour of 27-Day and 13.5-Day Periodicities in Galactic Cosmic Particles as Observed by Spacecraft and Neutron Monitors During Different Solar Polarity Cycles, *Solar Phys.*, **298**(9), 107, [10.1007/s11207-023-02203-9](https://doi.org/10.1007/s11207-023-02203-9).
- [193] Kovács, O. E., Z. Zhu, N. Werner, A. Simionescu, and Á. Bogdán (2023), Outskirts of Abell 1795: Probing gas clumping in the intracluster medium, *Astron. & Astrophys.*, **678**, A91, [10.1051/0004-6361/202347201](https://doi.org/10.1051/0004-6361/202347201).
- [194] Kočiščák, S., A. Kvammen, I. Mann, S. H. Sørbye, A. Theodorsen, and A. Zaslavsky (2023), Modeling Solar Orbiter dust detection rates in the inner heliosphere as a Poisson process, *Astron. & Astrophys.*, **670**, A140, [10.1051/0004-6361/202245165](https://doi.org/10.1051/0004-6361/202245165).
- [195] Kozlovsky, A., M. Myllymaa, R. Lukianova, T. Raita, and M. Lester (2023), Influence of Atmospheric Circulation on Orientation of Auroral Arcs, *J. Geophys. Res.*, **128**(7), e2023JA031294, [10.1029/2023JA031294](https://doi.org/10.1029/2023JA031294).
- [196] Kryakunova, O. N., A. V. Belov, A. F. Yakovets, A. A. Abunin, I. L. Tsepakina, B. B. Seifullina, M. A. Abunina, N. F. Nikolayevskiy, and N. S. Shlyk (2023), A statistical relationship between the fluence of magnetospheric relativistic electrons and interplanetary and geomagnetic characteristics, *Adv. Space Res.*, **72**(12), 5391–5398, [10.1016/j.asr.2022.08.067](https://doi.org/10.1016/j.asr.2022.08.067).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [197] Kubyshkina, M. V., V. S. Semenov, N. A. Tsyganenko, X. G. Wang, and I. V. Kubyshkin (2023), Unraveling the Role of IMF  $B_x$  in Driving Geomagnetic Activity, *J. Geophys. Res.*, **128**(4), e2022JA031275, [10.1029/2022JA031275](https://doi.org/10.1029/2022JA031275).
- [198] Kubyshkina, M. V., V. S. Semenov, N. A. Tsyganenko, X. G. Wang, and I. V. Kubyshkin (2023), Reply to “Comment on “Unraveling the Role of IMF  $B_x$  in Driving Geomagnetic Activity”” by Lauri Holappa et al., *J. Geophys. Res.*, **128**(10), e2023JA031894, [10.1029/2023JA031894](https://doi.org/10.1029/2023JA031894).
- [199] Kullen, A., S. Thor, and L. Cai (2023), The Question of Transpolar Arc Conjugacy: New Results From Comparing Solar Wind Data and Dipole Tilt Distribution of Five Different Datasets, *J. Geophys. Res.*, **128**(1), e2022JA030987, [10.1029/2022JA030987](https://doi.org/10.1029/2022JA030987).
- [200] Kurth, W. S., L. F. Burlaga, T. Kim, N. V. Pogorelov, and L. J. Granroth (2023), Voyager Observations of Electron Densities in the Very Local Interstellar Medium, *Astrophys. J.*, **951**(1), 71, [10.3847/1538-4357/acd44c](https://doi.org/10.3847/1538-4357/acd44c).
- [201] Lagoida, I. A., S. A. Voronov, V. V. Mikhailov, M. Boezio, R. Munini, G. C. Barbarino, G. A. Bazilevskaya, R. Bellotti, E. A. Bogomolov, V. Bonvicini, F. Cafagna, D. Campana, M. Casolino, A. M. Galper, S. A. Koldobskiy, A. N. Kvashnin, A. Lenni, A. N. Leonov, V. Malakhov, L. Marcelli, N. Marcelli, M. Martucci, A. Mayorov, M. Mergè, E. Mocchiutti, A. Monaco, B. Panico, P. Picozza, M. Ricci, S. B. Ricciarini, S. Rodenko, A. Sotgiu, R. Sparvoli, Y. I. Stozhkov, A. Vacchi, E. Vannuccini, G. Vasilyev, Y. T. Yurkin, G. Zampa, and N. Zampa (2023), Study of Forbush Decrease Recovery Times by the Payload for Antimatter Matter Exploration and Light-Nuclei Astrophysics (PAMELA) Experiment, *Solar Phys.*, **298**(1), 9, [10.1007/s11207-022-02097-z](https://doi.org/10.1007/s11207-022-02097-z).
- [202] Lam, M. M., R. M. Shore, G. Chisham, M. P. Freeman, A. Grocott, M. T. Walach, and L. Orr (2023), A Model of High Latitude Ionospheric Convection Derived From SuperDARN EOF Model Data, *Space Weather*, **21**(7), e2023SW003428, [10.1029/2023SW003428](https://doi.org/10.1029/2023SW003428).
- [203] Laming, J. M., E. Provornikova, and Y.-K. Ko (2023), The Evolution of Ion Charge States in Coronal Mass Ejections, *Astrophys. J.*, **954**(2), 145, [10.3847/1538-4357/acebc2](https://doi.org/10.3847/1538-4357/acebc2).
- [204] Lan, L., H. Gao, A. Li, S. Xiao, S. Ai, Z.-K. Peng, L. Li, C.-Y. Wang, N. Xu, S. Lin, W.-H. Lei, B. Zhang, Y.-Q. Zhang, C. Zheng, J.-C. Liu, W.-C. Xue, C.-W. Wang, W.-J. Tan, and S.-L. Xiong (2023), GRB 221009A: An Ordinary Nearby GRB with Extraordinary Observational Properties, *Astrophys. J. Lett.*, **949**(1), L4, [10.3847/2041-8213/accf93](https://doi.org/10.3847/2041-8213/accf93).
- [205] Lanabere, V., A. P. Dimmock, L. Rosenqvist, L. Juusola, A. Viljanen, A. Johlander, and E. Odelstad (2023), Analysis of the Geoelectric Field in Sweden Over Solar Cycles 23 and 24: Spatial and Temporal Variability During Strong GIC Events, *Space Weather*, **21**(12), e2023SW003588, [10.1029/2023SW003588](https://doi.org/10.1029/2023SW003588).
- [206] Lario, D., I. G. Richardson, A. Aran, and N. Wijsen (2023), High-energy (>40 MeV) Proton Intensity Enhancements Associated with the Passage of Interplanetary Shocks at 1 au, *Astrophys. J.*, **950**(2), 89, [10.3847/1538-4357/acc9c5](https://doi.org/10.3847/1538-4357/acc9c5).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [207] Levan, A. J., G. P. Lamb, B. Schneider, J. Hjorth, T. Zafar, A. de Ugarte Postigo, B. Sargent, S. E. Mullally, L. Izzo, P. D'Avanzo, E. Burns, J. F. Agüí Fernández, T. Barclay, M. G. Bernardini, K. Bhirombhakdi, M. Bremer, R. Brivio, S. Campana, A. A. Chrimes, V. D'Elia, M. Della Valle, M. De Pasquale, M. Ferro, W. Fong, A. S. Fruchter, J. P. U. Fynbo, N. Gaspari, B. P. Gompertz, D. H. Hartmann, C. L. Hedges, K. E. Heintz, K. Hotokezaka, P. Jakobsson, D. A. Kann, J. A. Kennea, T. Laskar, E. Le Floc'h, D. B. Male sani, A. Melandri, B. D. Metzger, S. R. Oates, E. Pian, S. Piranomonte, G. Pugliese, J. L. Racusin, J. C. Rastinejad, M. E. Ravasio, A. Rossi, A. Saccardi, R. Salvaterra, B. Sbarufatti, R. L. C. Starling, N. R. Tanvir, C. C. Thöne, A. J. van der Horst, S. D. Vergani, D. Watson, K. Wiersema, R. A. M. J. Wijers, and D. Xu (2023), The First JWST Spectrum of a GRB Afterglow: No Bright Supernova in Observations of the Brightest GRB of all Time, GRB 221009A, *Astrophys. J. Lett.*, **946**(1), L28, [10.3847/2041-8213/acc2c1](https://doi.org/10.3847/2041-8213/acc2c1).
- [208] LHAASO Collaboration, Z. Cao, F. Aharonian, Q. An, A. Axikegu, L. X. Bai, Y. X. Bai, Y. W. Bao, D. Bastieri, X. J. Bi, Y. J. Bi, J. T. Cai, Q. Cao, W. Y. Cao, Z. Cao, J. Chang, J. F. Chang, E. S. Chen, L. Chen, L. Chen, L. Chen, M. J. Chen, M. L. Chen, Q. H. Chen, S. H. Chen, S. Z. Chen, T. L. Chen, Y. Chen, H. L. Cheng, N. Cheng, Y. D. Cheng, S. W. Cui, X. H. Cui, Y. D. Cui, B. Z. Dai, H. L. Dai, D. Danzengluobu, D. Della Volpe, X. Q. Dong, K. K. Duan, J. H. Fan, Y. Z. Fan, J. Fang, K. Fang, C. F. Feng, L. Feng, S. H. Feng, X. T. Feng, Y. L. Feng, B. Gao, C. D. Gao, L. Q. Gao, Q. Gao, W. Gao, W. K. Gao, M. M. Ge, L. S. Geng, G. H. Gong, Q. B. Gou, M. H. Gu, F. L. Guo, X. L. Guo, Y. Q. Guo, Y. Y. Guo, Y. A. Han, H. H. He, H. N. He, J. Y. He, X. B. He, Y. He, M. Heller, Y. K. Hor, B. W. Hou, C. Hou, X. Hou, H. B. Hu, Q. Hu, S. C. Hu, D. H. Huang, T. Q. Huang, W. J. Huang, X. T. Huang, Z. C. Huang, X. L. Ji, H. Y. Jia, K. Jia, K. Jiang, X. W. Jiang, Z. J. Jiang, M. Jin, M. M. Kang, T. Ke, D. Kuleshov, K. Kurinov, B. B. Li, C. Li, C. Li, D. Li, F. Li, H. B. Li, H. C. Li, H. Y. Li, J. Li, J. Li, J. Li, K. Li, W. L. Li, W. L. Li, X. R. Li, X. Li, Y. Z. Li, Z. Li, Z. Li, E. W. Liang, Y. F. Liang, S. J. Lin, B. Liu, C. Liu, D. Liu, H. Liu, H. D. Liu, J. Liu, J. L. Liu, J. L. Liu, J. S. Liu, J. Y. Liu, M. Y. Liu, R. Y. Liu, S. M. Liu, W. Liu, Y. Liu, Y. N. Liu, W. J. Long, R. Lu, Q. Luo, H. K. Lv, B. Q. Ma, L. L. Ma, X. H. Ma, J. R. Mao, Z. Min, W. Mitthumsiri, Y. C. Nan, Z. W. Ou, B. Y. Pang, P. Pattarakijwanich, Z. Y. Pei, M. Y. Qi, Y. Q. Qi, B. Q. Qiao, J. J. Qin, D. Ruffolo, A. Saiz, C. Y. Shao, L. Shao, O. Shchegolev, X. D. Sheng, H. C. Song, Y. V. Stenkin, V. Stepanov, Y. Su, Q. N. Sun, X. N. Sun, Z. B. Sun, P. H. T. Tam, Z. B. Tang, W. W. Tian, C. Wang, C. B. Wang, G. W. Wang, H. G. Wang, H. H. Wang, J. C. Wang, J. S. Wang, K. Wang, L. P. Wang, L. Y. Wang, P. H. Wang, R. Wang, W. Wang, X. G. Wang, Y. D. Wang, Y. J. Wang, Z. H. Wang, Z. X. Wang, Z. Wang, D. M. Wei, J. J. Wei, Y. J. Wei, T. Wen, C. Y. Wu, H. R. Wu, S. Wu, X. F. Wu, Y. S. Wu, S. Q. Xi, J. Xia, J. J. Xia, G. M. Xiang, D. X. Xiao, G. Xiao, G. G. Xin, Y. L. Xin, Y. Xing, Z. Xiong, D. L. Xu, R. F. Xu, R. X. Xu, L. Xue, D. H. Yan, J. Z. Yan, T. Yan, C. W. Yang, F. Yang, F. F. Yang, H. W. Yang, J. Y. Yang, L. L. Yang, M. J. Yang, R. Z. Yang, S. B. Yang, Y. H. Yao, Y. M. Ye, L. Q. Yin, N. Yin, X. H. You, Z. Y. You, Y. H. Yu, Q. Yuan, H. Yue, H. D. Zeng, T. X. Zeng, W. Zeng, Z. K. Zeng, B. Zhang, B. B. Zhang, F. Zhang, H. M. Zhang, H. Y. Zhang, J. L. Zhang, L. X. Zhang, L. Zhang, P. F. Zhang, P. P. Zhang, R. Zhang, S. B. Zhang, S. R. Zhang, S. S. Zhang, X. Zhang, X. P. Zhang, Y. F. Zhang, Y. Zhang, Y. Zhang,

---

### Wind Spacecraft: 2023

#### *List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- B. Zhao, J. Zhao, L. Zhao, L. Z. Zhao, S. P. Zhao, F. Zheng, B. Zhou, H. Zhou, J. N. Zhou, P. Zhou, R. Zhou, X. X. Zhou, C. G. Zhu, F. R. Zhu, H. Zhu, K. J. Zhu, and X. Zuo (2023), A tera-electron volt afterglow from a narrow jet in an extremely bright gamma-ray burst., *Science*, **380**(6652), 1390–1396, [10.1126/science.adg9328](https://doi.org/10.1126/science.adg9328).
- [209] Li, D., Z. Li, F. Shi, Y. Su, W. Chen, F. Yu, C. Li, Y. Qiu, Y. Huang, and Z. Ning (2023), Observational signature of continuously operating drivers of decayless kink oscillation, *Astron. & Astrophys.*, **680**, L15, [10.1051/0004-6361/202348075](https://doi.org/10.1051/0004-6361/202348075).
- [210] Li, D., A. Warmuth, J. Wang, H. Zhao, L. Lu, Q. Zhang, N. Dresing, R. Vainio, C. Palmroos, M. Paassilta, A. Fedeli, and M. Dominique (2023), Global Energetics of Solar Powerful Events on 2017 September 6, *Res. Astron. Astrophys.*, **23**(9), 095017, [10.1088/1674-4527/acd592](https://doi.org/10.1088/1674-4527/acd592).
- [211] Li, J., J. Bortnik, X. Chu, D. Ma, S. Tian, C.-P. Wang, J. W. Manweiler, and L. J. Lanzerotti (2023), Modeling Ring Current Proton Fluxes Using Artificial Neural Network and Van Allen Probe Measurements, *Space Weather*, **21**(5), e2022SW003257, [10.1029/2022SW003257](https://doi.org/10.1029/2022SW003257).
- [212] Li, Q. H., L. Xiang, D. J. Wu, L. Chen, G. Q. Zhao, A. K. Zhao, Y. Zhao, and H. Q. Feng (2023), Distribution of alpha temperature anisotropy in the slow and fast solar wind: WIND observations and Vlasov theory, *Astron. & Astrophys.*, **676**, A137, [10.1051/0004-6361/202346815](https://doi.org/10.1051/0004-6361/202346815).
- [213] Li, Q. M., Z. B. Zhang, X. L. Han, K. J. Zhang, X. L. Xia, and C. T. Hao (2023), Properties of gamma-ray bursts associated with supernovae and kilonovae, *Mon. Not. Roy. Astron. Soc.*, **524**(1), 1096–1112, [10.1093/mnras/stad1648](https://doi.org/10.1093/mnras/stad1648).
- [214] Li, S., Y.-Y. Sun, and C.-H. Chen (2023), An Interpretable Machine Learning Procedure Which Unravels Hidden Interplanetary Drivers of the Low Latitude Dayside Magnetopause, *Space Weather*, **21**(3), e2022SW003391, [10.1029/2022SW003391](https://doi.org/10.1029/2022SW003391).
- [215] Li, S., J. Liu, W. Wang, J. Liang, and K. Zhang (2023), Impacts of Subauroral Polarization Streams on Storm-Enhanced Density Plume and Consequently on Polar Tongue of Ionization, *Earth and Space Sci.*, **10**(9), e2023EA002827, [10.1029/2023EA002827](https://doi.org/10.1029/2023EA002827).
- [216] Li, S. Y., E. A. Kronberg, C. G. Mouikis, H. Luo, Y. S. Ge, and A. M. Du (2023), Prediction of Proton Pressure in the Outer Part of the Inner Magnetosphere Using Machine Learning, *Space Weather*, **21**(9), e2022SW003387, [10.1029/2022SW003387](https://doi.org/10.1029/2022SW003387).
- [217] Li, T., W. Li, B. Tang, Y. V. Khotyaintsev, D. B. Graham, A. Ardakani, J. L. Burch, D. J. Gershman, B. Lavraud, C. T. Russell, Q. Lu, X. Guo, and C. Wang (2023), Kelvin-Helmholtz Waves and Magnetic Reconnection at the Earth’s Magnetopause Under Southward Interplanetary Magnetic Field, *Geophys. Res. Lett.*, **50**(20), e2023GL105539, [10.1029/2023GL105539](https://doi.org/10.1029/2023GL105539).
- [218] Li, W., L. Liu, Y. Chen, Y. Yang, T. Han, F. Ding, H. Le, and R. Zhang (2023), Multi-Instruments Observation of Ionospheric-Thermospheric Dynamic Coupling Over Mohe

---

### Wind Spacecraft: 2023

*List of Refereed Publications*



## List of Refereed Publications

### Wind Spacecraft: 2023

- (53.5°N, 122.3°E) During the April 2023 Geomagnetic Storm, *J. Geophys. Res.*, **128**(12), e2023JA032141, [10.1029/2023JA032141](https://doi.org/10.1029/2023JA032141).
- [219] Li, X., Y. Wang, F. Shen, Y. Yang, Q. Zhang, and S. Lyu (2023), Reconstructing Synoptic Maps of Solar Wind Radial Velocity between 20 and 60  $R_{\odot}$  Based on STEREO/HI1 Images, *Astrophys. J.*, **949**(2), 58, [10.3847/1538-4357/acc6c8](https://doi.org/10.3847/1538-4357/acc6c8).
- [220] Li, X.-Y., Q.-G. Zong, J.-J. Liu, Z.-F. Yin, Z.-J. Hu, X.-Z. Zhou, C. Yue, Z.-Y. Liu, X.-X. Zhao, Z.-K. Xie, J. B. Blake, C. T. Russell, R. E. Ergun, and P.-A. Lindqvist (2023), Comparative Study of Dayside Pulsating Auroras Induced by Ultralow-Frequency Waves, *Universe*, **9**(6), 258, [10.3390/universe9060258](https://doi.org/10.3390/universe9060258).
- [221] Li, Y.-X., C. Yue, J. Liu, Q. Zong, H. Hu, X. Zhou, Z. Hu, F. Yang, and X. Zhao (2023), The Distribution and Evolution of Storm Time Pc3-5 ULF Wave Power Based on Satellite and Ground Observations, *J. Geophys. Res.*, **128**(12), e2023JA031775, [10.1029/2023JA031775](https://doi.org/10.1029/2023JA031775).
- [222] Liou, Y.-L., K. Nykyri, S. Kavosi, and X. Ma (2023), Statistical Study of the Energetic Electron Microinjections at the High-Latitude Magnetosphere, *J. Geophys. Res.*, **128**(10), e2023JA031595, [10.1029/2023JA031595](https://doi.org/10.1029/2023JA031595).
- [223] Lipunov, V. M., V. A. Sadovnichy, M. I. Panasyuk, I. V. Yashin, S. I. Svertilov, S. G. Simakov, D. Svinkin, E. Gorbovskoy, G. V. Lipunova, V. G. Kornilov, D. Frederiks, V. Topolev, R. Rebolo, M. Serra, N. Tiurina, E. Minkina, V. V. Bogomolov, A. V. Bogomolov, A. F. Iyudin, A. Chasovnikov, A. Gabovich, A. Tsvetkova, N. M. Budnev, O. A. Gress, G. Antipov, I. Gorbunov, D. Vlasenko, P. Balanutsa, R. Podesta, K. Zhirkov, A. Kuznetsov, V. Vladimirov, F. Podesta, C. Francile, Y. Sergienko, A. Tlatov, O. Ershova, D. Cheryasov, V. Yurkov, and A. V. Krylov (2023), Three-stage Collapse of the Long Gamma-Ray Burst from GRB 160625B Prompt Multiwavelength Observations, *Astrophys. J.*, **943**(2), 181, [10.3847/1538-4357/ac9307](https://doi.org/10.3847/1538-4357/ac9307).
- [224] Lipunov, V. M., V. A. Sadovnichy, M. I. Panasyuk, I. V. Yashin, S. I. Svertilov, D. Svinkin, E. Gorbovskoy, S. G. Simakov, G. V. Lipunova, V. G. Kornilov, D. Frederiks, V. Topolev, R. Rebolo, M. Serra, N. Tiurina, E. Minkina, V. V. Bogomolov, A. V. Bogomolov, A. F. Iyudin, A. Chasovnikov, A. Gabovich, N. M. Budnev, O. A. Gress, G. Antipov, D. Vlasenko, P. Balanutsa, R. Podesta, K. Zhirkov, A. Kuznetsov, V. Vladimirov, F. Podesta, C. Francile, Y. Sergienko, A. Tlatov, O. Ershova, D. Cheryasov, and V. Yurkov (2023), Multiwavelength observations of GRB160625B by MASTER, Lomonosov, Konus-Wind and three stage collapse, in *The Sixteenth Marcel Grossmann Meeting. On Recent Developments in Theoretical and Experimental General Relativity, Astrophysics, and Relativistic Field Theories*, edited by R. Ruffino and G. Vereshchagin, pp. 1429–1448, [10.1142/9789811269776\\_0115](https://doi.org/10.1142/9789811269776_0115).
- [225] Liu, J., S. Chakraborty, X. Chen, Z. Wang, F. He, Z. Hu, E. Liu, A. Bat-Erdene, D. Han, J. M. Ruohoniemi, J. B. H. Baker, H. Yang, Q. Zong, and H. Hu (2023), Transient Response of Polar-Cusp Ionosphere to an Interplanetary Shock, *J. Geophys. Res.*, **128**(3), e2022JA030565, [10.1029/2022JA030565](https://doi.org/10.1029/2022JA030565).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [226] Liu, J., W. Wang, L. Qian, K. Pham, L. Liu, Q. Li, S. Li, and X. Liu (2023), Impacts of Ionospheric Conductance on Magnetosphere-Ionosphere Coupling, *J. Geophys. Res.*, **128**(2), e2022JA030864, [10.1029/2022JA030864](https://doi.org/10.1029/2022JA030864).
- [227] Liu, M., M. Zhang, X. Liu, and F. Shen (2023), A New Numerical Implementation for Solar Coronal Modeling by an HLL Generalized Riemann Problem Solver, *Astrophys. J. Suppl.*, **264**(1), 25, [10.3847/1538-4365/ac9eb5](https://doi.org/10.3847/1538-4365/ac9eb5).
- [228] Liu, N., Z. Su, Y. Jin, Z. He, J. Yu, K. Li, Z. Chen, and J. Cui (2023), Plasmaspheric High-Frequency Whistlers as a Candidate Cause of Shock Aurora at Earth, *Geophys. Res. Lett.*, **50**(16), e2023GL105631, [10.1029/2023GL105631](https://doi.org/10.1029/2023GL105631).
- [229] Liu, T. Z., A. Vu, H. Zhang, X. An, and V. Angelopoulos (2023), Modeling the Expansion Speed of Foreshock Bubbles, *J. Geophys. Res.*, **128**(2), e2022JA030814, [10.1029/2022JA030814](https://doi.org/10.1029/2022JA030814).
- [230] Liu, X., X. Feng, M. Zhang, and J. Zhao (2023), Modeling the Solar Corona with an Implicit High-order Reconstructed Discontinuous Galerkin Scheme, *Astrophys. J. Suppl.*, **265**(1), 19, [10.3847/1538-4365/acb14f](https://doi.org/10.3847/1538-4365/acb14f).
- [231] Liu, Z.-Y., W.-G. Zong, Q.-G. Zong, J.-S. Wang, X.-Q. Yu, Y.-F. Wang, H. Zou, S.-Y. Fu, C. Yue, Z.-J. Hu, and J.-J. Liu (2023), The Response of Auroral-Oval Waves to CIR-Driven Recurrent Storms: FY-3E/ACMag Observations, *Universe*, **9**(5), 213, [10.3390/universe9050213](https://doi.org/10.3390/universe9050213).
- [232] Liuzzo, L., A. R. Poppe, C. O. Lee, S. Xu, and V. Angelopoulos (2023), Unrestricted Solar Energetic Particle Access to the Moon While Within the Terrestrial Magnetotail, *Geophys. Res. Lett.*, **50**(12), e2023GL103990, [10.1029/2023GL103990](https://doi.org/10.1029/2023GL103990).
- [233] Livi, S., S. T. Lepri, J. M. Raines, R. M. Dewey, A. B. Galvin, P. Louarn, M. R. Collier, F. Allegrini, B. L. Alterman, C. M. Bert, R. Bruno, D. J. Chornay, R. D'Amicis, T. J. Eddy, L. Ellis, E. Fauchon-Jones, A. Fedorov, I. Gershkovich, J. Holmes, T. S. Horbury, L. M. Kistler, H. Kucharek, N. Lugaz, T. Nieves-Chinchilla, H. O'Brien, K. Ogasawara, C. J. Owen, M. Phillips, K. Ploof, Y. J. Rivera, S. A. Spitzer, T. J. Stubbs, and P. Wurzel (2023), First results from the Solar Orbiter Heavy Ion Sensor, *Astron. & Astrophys.*, **676**, A36, [10.1051/0004-6361/202346304](https://doi.org/10.1051/0004-6361/202346304).
- [234] LLera, K., S. A. Fuselier, S. M. Petrinec, R. C. Rice, J. L. Burch, B. Giles, K. J. Trattner, and R. J. Strangeway (2023), Tracking Magnetopause Motion Using Cold Plasmaspheric Ions, *J. Geophys. Res.*, **128**(11), e2023JA031338, [10.1029/2023JA031338](https://doi.org/10.1029/2023JA031338).
- [235] Lockwood, M. (2023), Causes of hemispheric differences in polar cap indices, *J. Atmos. Solar-Terr. Phys.*, **252**, 106153, [10.1016/j.jastp.2023.106153](https://doi.org/10.1016/j.jastp.2023.106153).
- [236] Lorfing, C. Y., H. A. S. Reid, R. Gómez-Herrero, M. Maksimovic, G. Nicolaou, C. J. Owen, J. Rodriguez-Pacheco, D. F. Ryan, D. Trotta, and D. Verscharen (2023), Solar Electron Beam-Langmuir Wave Interactions and How They Modify Solar Electron Beam Spectra: Solar Orbiter Observations of a Match Made in the Heliosphere, *Astrophys. J.*, **959**(2), 128, [10.3847/1538-4357/ad0be3](https://doi.org/10.3847/1538-4357/ad0be3).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [237] Lovati, G., P. De Michelis, G. Consolini, M. Pezzopane, A. Pignalberi, and F. Berrilli (2023), GPS Loss of Lock Events and Their Dependence on the Interplanetary Magnetic Field Orientation, *J. Geophys. Res.*, **128**(7), e2023JA031411, [10.1029/2023JA031411](https://doi.org/10.1029/2023JA031411).
- [238] Lukmanov, V. R., I. V. Chashei, S. A. Tyul'bashev, and I. A. Subaev (2023), Corotating Disturbances of the Solar Wind in the Monitoring Data of Interplanetary Scintillations: Simulation and Observation, *Astron. Rep.*, **67**(6), 618–628, [10.1134/S1063772923070053](https://doi.org/10.1134/S1063772923070053).
- [239] Lynch, B. J., N. M. Viall, A. K. Higginson, L. Zhao, S. T. Lepri, and X. Sun (2023), The S-Web Origin of Composition Enhancement in the Slow-to-moderate Speed Solar Wind, *Astrophys. J.*, **949**(1), 14, [10.3847/1538-4357/acc38c](https://doi.org/10.3847/1538-4357/acc38c).
- [240] Lysenko, A. L., S. M. White, D. A. Zhdanov, N. S. Meshalkina, A. T. Altyntsev, G. G. Motorina, and G. D. Fleishman (2023), Cold Solar Flares. I. Microwave Domain, *Astrophys. J.*, **954**(2), 122, [10.3847/1538-4357/acea20](https://doi.org/10.3847/1538-4357/acea20).
- [241] Maharana, A., C. Scolini, B. Schmieder, and S. Poedts (2023), Rotation and interaction of the CMEs of September 8 and 10, 2014, tested with EUHFORIA, *Astron. & Astrophys.*, **675**, A136, [10.1051/0004-6361/202345902](https://doi.org/10.1051/0004-6361/202345902).
- [242] Mäkelä, P., N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro (2023), Speed and Acceleration of Coronal Mass Ejections Associated with Sustained Gamma-Ray Emission Events Observed by Fermi/LAT, *Astrophys. J.*, **954**(1), 79, [10.3847/1538-4357/ace627](https://doi.org/10.3847/1538-4357/ace627).
- [243] Manini, F., H. Cremades, F. M. López, and T. Nieves-Chinchilla (2023), Kilometric Type II Radio Emissions in Wind/WAVES TNR Data and Association with Interplanetary Structures Near Earth, *Solar Phys.*, **298**(12), 145, [10.1007/s11207-023-02235-1](https://doi.org/10.1007/s11207-023-02235-1).
- [244] Mann, G., A. Warmuth, C. Vocks, and A. P. Rouillard (2023), A heliospheric density and magnetic field model, *Astron. & Astrophys.*, **679**, A64, [10.1051/0004-6361/202245050](https://doi.org/10.1051/0004-6361/202245050).
- [245] Marino, R., and L. Sorriso-Valvo (2023), Scaling laws for the energy transfer in space plasma turbulence, *Phys. Rep.*, **1006**, 1–144, [10.1016/j.physrep.2022.12.001](https://doi.org/10.1016/j.physrep.2022.12.001).
- [246] Márquez Rodríguez, R., L. Sorriso-Valvo, and E. Yordanova (2023), Turbulence, Intermittency, and Cross-Scale Energy Transfer in an Interplanetary Coronal Mass Ejection, *Solar Phys.*, **298**(4), 54, [10.1007/s11207-023-02146-1](https://doi.org/10.1007/s11207-023-02146-1).
- [247] Martinić, K., M. Dumbović, J. Čalogović, B. Vršnak, N. Al-Haddad, and M. Temmer (2023), Effects of coronal mass ejection orientation on its propagation in the heliosphere, *Astron. & Astrophys.*, **679**, A97, [10.1051/0004-6361/202346858](https://doi.org/10.1051/0004-6361/202346858).
- [248] Maruca, B. A., R. A. Qudsi, B. L. Alterman, B. M. Walsh, K. E. Korreck, D. Verscharen, R. Bandyopadhyay, R. Chhiber, A. Chasapis, T. N. Parashar, W. H. Matthaeus, and M. L. Goldstein (2023), The Trans-Heliospheric Survey. Radial trends in plasma parameters across the heliosphere, *Astron. & Astrophys.*, **675**, A196, [10.1051/0004-6361/202345951](https://doi.org/10.1051/0004-6361/202345951).

## List of Refereed Publications

### Wind Spacecraft: 2023

- [249] McCuen, B. A., M. B. Moldwin, M. J. Engebretson, J. M. Weygand, and Y. Nishimura (2023), Magnetosphere-Ionosphere Drivers of Transient-Large-Amplitude Geomagnetic Disturbances: Statistical Analysis and Event Study, *J. Geophys. Res.*, **128**(11), e2023JA031587, [10.1029/2023JA031587](https://doi.org/10.1029/2023JA031587).
- [250] McEntee, S. C., C. M. Jackman, D. M. Weigt, C. K. Louis, W. R. Dunn, A. Boudouma, J. E. P. Connerney, W. S. Kurth, R. Kraft, G. Branduardi-Raymont, G. R. Gladstone, and M. J. Rutala (2023), Long Exposure Chandra X-Ray Observation of Jupiter’s Auroral Emissions During Juno Plasmasheet Encounters in September 2021, *J. Geophys. Res.*, **128**(12), e2023JA031901, [10.1029/2023JA031901](https://doi.org/10.1029/2023JA031901).
- [251] McGinness, E. C., T. J. Immel, B. J. Harding, Y.-J. Wu, and C. C. Triplett (2023), The Effects of a Small Geomagnetic Storm on Earth’s Thermosphere and Ionosphere: ICON Observations of the 25 January 2021 Disturbance, *J. Geophys. Res.*, **128**(7), e2022JA031207, [10.1029/2022JA031207](https://doi.org/10.1029/2022JA031207).
- [252] McPherron, R. L. (2023), Substorm Triggering by the Solar Wind, *J. Geophys. Res.*, **128**(6), e2022JA031147, [10.1029/2022JA031147](https://doi.org/10.1029/2022JA031147).
- [253] Melkumyan, A. A., A. V. Belov, M. A. Abunina, N. S. Shlyk, A. A. Abunin, V. A. Oleneva, and V. G. Yanke (2023), Forbush Decreases Associated with Coronal Holes, Coronal Ejections from Active Regions, and Filament Eruptions: Comparison in Solar Cycles 23 and 24, *Geomag. and Aeron.*, **63**(5), 547–563, [10.1134/S0016793223600522](https://doi.org/10.1134/S0016793223600522).
- [254] Meng, W., J. Guo, H. Lin, H. Fu, M. Zhou, D. Zhao, Y. Chen, L. He, X. Wang, and Z. Wang (2023), Betatron Acceleration of Suprathermal Electrons within a Small-scale Flux Rope in the Solar Wind, *Astrophys. J. Lett.*, **957**(2), L14, [10.3847/2041-8213/ad00ad](https://doi.org/10.3847/2041-8213/ad00ad).
- [255] Menteso, F. M., A. E. Chukwude, O. Okike, and J. A. Alhassan (2023), A preliminary investigation of the empirical relationship between small-amplitude Forbush Decreases and solar wind disturbances, *Mon. Not. Roy. Astron. Soc.*, **521**(4), 6330–6353, [10.1093/mnras/stad783](https://doi.org/10.1093/mnras/stad783).
- [256] Meredith, N. P., T. E. Cayton, M. D. Cayton, and R. B. Horne (2023), Extreme Relativistic Electron Fluxes in GPS Orbit: Analysis of NS41 BDD-IIR Data, *Space Weather*, **21**(6), e2023SW003436, [10.1029/2023SW003436](https://doi.org/10.1029/2023SW003436).
- [257] Milan, S. E., S. M. Imber, A. L. Fleetham, and J. Gjerloev (2023), Solar Cycle and Solar Wind Dependence of the Occurrence of Large dB/dt Events at High Latitudes, *J. Geophys. Res.*, **128**(4), e2022JA030953, [10.1029/2022JA030953](https://doi.org/10.1029/2022JA030953).
- [258] Milan, S. E., M. K. Mooney, G. E. Bower, M. G. G. T. Taylor, L. J. Paxton, I. Dandouras, A. N. Fazakerley, C. M. Carr, B. J. Anderson, and S. K. Vines (2023), The Association of Cusp-Aligned Arcs With Plasma in the Magnetotail Implies a Closed Magnetosphere, *J. Geophys. Res.*, **128**(7), e2023JA031419, [10.1029/2023JA031419](https://doi.org/10.1029/2023JA031419).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [259] Milan, S. E., M. K. Mooney, G. Bower, A. L. Fleetham, S. K. Vines, and J. Gjerloev (2023), Solar Wind-Magnetosphere Coupling During High-Intensity Long-Duration Continuous AE Activity (HILDCAA), *J. Geophys. Res.*, **128**(11), e2023JA032027, [10.1029/2023JA032027](https://doi.org/10.1029/2023JA032027).
- [260] Milošić, D., M. Temmer, S. G. Heinemann, T. Podladchikova, A. Veronig, and B. Vršnak (2023), Improvements to the Empirical Solar Wind Forecast (ESWF) model, *Solar Phys.*, **298**(3), 45, [10.1007/s11207-022-02102-5](https://doi.org/10.1007/s11207-022-02102-5).
- [261] Minta, F. N., S. Nozawa, K. Kozarev, A. Elsaid, and A. Mahrous (2023), Forecasting the transit times of earth-directed halo CMEs using artificial neural network: A case study application with GCS forward-modeling technique, *J. Atmos. Solar-Terr. Phys.*, **247**, 106080, [10.1016/j.jastp.2023.106080](https://doi.org/10.1016/j.jastp.2023.106080).
- [262] Mishra, W., and L. Teriaca (2023), Propagation of coronal mass ejections from the Sun to the Earth, *J. Astrophys. Astron.*, **44**(1), 20, [10.1007/s12036-023-09910-6](https://doi.org/10.1007/s12036-023-09910-6).
- [263] Miteva, R., and S. W. Samwel (2023), Catalog of Geomagnetic Storms with Dst Index  $\leq -50$  nT and Their Solar and Interplanetary Origin (1996–2019), *Atmosphere*, **14**(12), 1744, [10.3390/atmos14121744](https://doi.org/10.3390/atmos14121744).
- [264] Miteva, R., M. Nedal, S. W. Samwel, and M. Temmer (2023), Parameter Study of Geomagnetic Storms and Associated Phenomena: CME Speed De-Projection vs. In Situ Data, *Universe*, **9**(4), 179, [10.3390/universe9040179](https://doi.org/10.3390/universe9040179).
- [265] Mittelholz, A., C. L. Johnson, M. Fillingim, R. E. Grimm, S. Joy, S. N. Thorne, and W. B. Banerdt (2023), Mars' External Magnetic Field as Seen From the Surface With InSight, *J. Geophys. Res.*, **128**(1), e2022JE007616, [10.1029/2022JE007616](https://doi.org/10.1029/2022JE007616).
- [266] Moloto, K. D., N. Eugene Engelbrecht, R. D. Strauss, and C. Diedericks (2023), The Southern African neutron monitor program: A regional network to study global cosmic ray modulation, *Adv. Space Res.*, **72**(3), 830–843, [10.1016/j.asr.2022.05.044](https://doi.org/10.1016/j.asr.2022.05.044).
- [267] Morozova, A., T. Barata, T. Barlyaeva, and R. Gafeira (2023), Total Electron Content PCA-NN Prediction Model for South-European Middle Latitudes, *Atmosphere*, **14**(7), 1058, [10.3390/atmos14071058](https://doi.org/10.3390/atmos14071058).
- [268] Moss, M. J., R. Mochkovitch, F. Daigne, P. Beniamini, and S. Guiriec (2023), The signature of refreshed shocks in the afterglow of GRB 030329, *Mon. Not. Roy. Astron. Soc.*, **525**(4), 5224–5234, [10.1093/mnras/stad2594](https://doi.org/10.1093/mnras/stad2594).
- [269] Mubashir, A., A. Ashok, A. G. Bourgeois, Y. T. Chien, M. Connors, E. Potdevin, X. He, P. Martens, A. Mikler, A. G. U. Perera, V. Sadykov, M. Sarsour, D. Sharma, and C. Tiwari (2023), Muon Flux Variations Measured by Low-Cost Portable Cosmic Ray Detectors and Their Correlation With Space Weather Activity, *J. Geophys. Res.*, **128**(12), e2023JA031943, [10.1029/2023JA031943](https://doi.org/10.1029/2023JA031943).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [270] Munteanu, C., P. Kovács, and M. Echim (2023), An Integrated Nonlinear Analysis (INA) Software for Space Plasma Turbulence, *Earth and Space Sci.*, **10**(3), e2022EA002692, [10.1029/2022EA002692](https://doi.org/10.1029/2022EA002692).
- [271] Murphy, K. R., J. Sandhu, I. J. Rae, T. Daggitt, S. Glauert, R. B. Horne, C. E. J. Watt, S. Bentley, A. Kellerman, L. Ozeke, A. J. Halford, S. Tian, A. Breneman, L. Olfier, I. R. Mann, V. Angelopoulos, and J. Wygant (2023), A New Four-Component L\*-Dependent Model for Radial Diffusion Based on Solar Wind and Magnetospheric Drivers of ULF Waves, *Space Weather*, **21**(7), e2023SW003440, [10.1029/2023SW003440](https://doi.org/10.1029/2023SW003440).
- [272] Nagai, T., I. Shinohara, Y. Saito, A. Ieda, and R. Nakamura (2023), Location and Timing of Magnetic Reconnections in Earth's Magnetotail: Accomplishments of the 29-Year Geotail Near-Earth Magnetotail Survey, *J. Geophys. Res.*, **128**(12), e2023JA032023, [10.1029/2023JA032023](https://doi.org/10.1029/2023JA032023).
- [273] Natras, R., B. Soja, and M. Schmidt (2023), Uncertainty Quantification for Machine Learning-Based Ionosphere and Space Weather Forecasting: Ensemble, Bayesian Neural Network, and Quantile Gradient Boosting, *Space Weather*, **21**(10), e2023SW003483, [10.1029/2023SW003483](https://doi.org/10.1029/2023SW003483).
- [274] Nedal, M., K. Kozarev, P. Zhang, and P. Zucca (2023), Coronal diagnostics of solar type III radio bursts using LOFAR and PSP observations, *Astron. & Astrophys.*, **680**, A106, [10.1051/0004-6361/202347041](https://doi.org/10.1051/0004-6361/202347041).
- [275] Nedal, M., K. Kozarev, N. Arsenov, and P. Zhang (2023), Forecasting solar energetic proton integral fluxes with bi-directional long short-term memory neural networks, *J. Space Weather Space Clim.*, **13**, 26, [10.1051/swsc/2023026](https://doi.org/10.1051/swsc/2023026).
- [276] Negro, M., N. Di Lalla, N. Omodei, P. Veres, S. Silvestri, A. Manfreda, E. Burns, L. Baldini, E. Costa, S. R. Ehlert, J. A. Kennea, I. Liodakis, H. L. Marshall, S. Mereghetti, R. Middei, F. Muleri, S. L. O'Dell, O. J. Roberts, R. W. Romani, C. Sgró, M. Terashima, A. Tiengo, D. Viscolo, A. Di Marco, F. La Monaca, L. Latronico, G. Matt, M. Perri, S. Puccetti, J. Poutanen, A. Ratheesh, D. Rogantini, P. Slane, P. Soffitta, E. Lindfors, K. Nilsson, A. Kasikov, A. P. Marscher, F. Tavecchio, N. Cibrario, S. Gunji, C. Malacaria, A. Paggi, Y.-J. Yang, S. Zane, M. C. Weisskopf, I. Agudo, L. A. Antonelli, M. Bachetti, W. H. Baumgartner, R. Bellazzini, S. Bianchi, S. D. Bongiorno, R. Bonino, A. Brez, N. Bucciantini, F. Capitanio, S. Castellano, E. Cavazzuti, C.-T. Chen, S. Ciprini, A. De Rosa, E. Del Monte, L. Di Gesu, I. Donnarumma, V. Doroshenko, M. Dovčiak, T. Enoto, Y. Evangelista, S. Fabiani, R. Ferrazzoli, J. A. Garcia, K. Hayashida, J. Heyl, W. Iwakiri, S. G. Jorstad, P. Kaaret, V. Karas, F. Kislat, T. Kitaguchi, J. J. Kolodziejczak, H. Krawczynski, S. Maldera, F. Marin, A. Marinucci, I. Mitsuishi, T. Mizuno, C. Y. Ng, C. Oppedisano, A. Papitto, G. G. Pavlov, A. L. Peirson, M. Pesce-Rollins, P.-O. Petrucci, M. Pilia, A. Possenti, B. D. Ramsey, J. Rankin, G. Spandre, D. A. Swartz, T. Tamagawa, R. Taverna, Y. Tawara, A. F. Tennant, N. E. Thomas, F. Tombesi, A. Trois, S. S. Tsygankov, R. Turolla, J. Vink, K. Wu, and F. Xie (2023), The IXPE View of GRB 221009A, *Astrophys. J. Lett.*, **946**(1), L21, [10.3847/2041-8213/acba17](https://doi.org/10.3847/2041-8213/acba17).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [277] Nénon, Q., J. M. Raines, and A. R. Poppe (2023), The Long-Term Flux of the Solar Wind Suprathermal Ions That Precipitate on the Lunar Surface, *J. Geophys. Res.*, **128**(11), e2023JE007958, [10.1029/2023JE007958](https://doi.org/10.1029/2023JE007958).
- [278] Niemela, A., N. Wijsen, A. Aran, L. Rodriguez, J. Magdalenic, and S. Poedts (2023), Advancing interplanetary magnetohydrodynamic models through solar energetic particle modelling. Insights from the 2013 March 15 SEP event, *Astron. & Astrophys.*, **679**, A93, [10.1051/0004-6361/202347116](https://doi.org/10.1051/0004-6361/202347116).
- [279] Nieves-Chinchilla, T., M. A. Hidalgo, and H. Cremades (2023), Distorted-toroidal Flux Rope Model for Heliospheric Flux Ropes, *Astrophys. J.*, **947**(2), 79, [10.3847/1538-4357/acb3c1](https://doi.org/10.3847/1538-4357/acb3c1).
- [280] Nilsson, H., Q. Zhang, G. Stenberg Wieser, M. Holmström, S. Barabash, Y. Futaana, A. Fedorov, M. Persson, and M. Wieser (2023), Solar cycle variation of ion escape from Mars, *Icarus*, **393**, 114610, [10.1016/j.icarus.2021.114610](https://doi.org/10.1016/j.icarus.2021.114610).
- [281] Nitti, S., T. Podladchikova, S. J. Hofmeister, A. M. Veronig, G. Verbanac, and M. Bandić (2023), Geomagnetic storm forecasting from solar coronal holes, *Mon. Not. Roy. Astron. Soc.*, **519**(2), 3182–3193, [10.1093/mnras/stac3533](https://doi.org/10.1093/mnras/stac3533).
- [282] Nnadih, S., L. Blum, Z. Xiang, W. Tu, X. Lyu, M. E. Usanova, and C. J. Rodger (2023), Contrasting Storm-Time Radiation Belt Events With and Without Dropouts—The Importance of CME Shocks, *J. Geophys. Res.*, **128**(10), e2023JA031293, [10.1029/2023JA031293](https://doi.org/10.1029/2023JA031293).
- [283] Noh, S. J., H. Kim, D. Ozturk, I. Kuzichev, Z. Xu, H. Zhang, A. Vu, T. Liu, J. M. Weygand, M. D. Hartinger, X. Shi, M. Engebretson, A. Gerrard, E.-H. Kim, M. Lessard, and C. T. Russell (2023), Interhemispheric Observations of ULF Waves Caused by Foreshock Transients Under Quiet Solar Wind Conditions, *J. Geophys. Res.*, **128**(9), e2023JA031596, [10.1029/2023JA031596](https://doi.org/10.1029/2023JA031596).
- [284] Nowada, M., Y. Miyashita, N. Partamies, A. W. Degeling, and Q.-Q. Shi (2023), Auroral Morphological Changes to the Formation of Auroral Spiral During the Late Substorm Recovery Phase: Polar UVI and Ground All-Sky Camera Observations, *J. Geophys. Res.*, **128**(6), e2023JA031400, [10.1029/2023JA031400](https://doi.org/10.1029/2023JA031400).
- [285] Nowrouzi, N., L. M. Kistler, K. Zhao, E. J. Lund, C. Mouikis, G. Payne, and B. Klecker (2023), The Variation of Ionospheric O<sup>+</sup> and H<sup>+</sup> Outflow on Storm Timescales, *J. Geophys. Res.*, **128**(11), e2023JA031786, [10.1029/2023JA031786](https://doi.org/10.1029/2023JA031786).
- [286] Němeček, Z., J. Šafránková, K. Grygorov, A. Mokřý, G. Pi, M. Aghabozorgi Nafchi, F. Němec, N. Xirogiannopoulou, and J. Šimuněk (2023), Extremely Distant Magnetopause Locations Caused by Magnetosheath Jets, *Geophys. Res. Lett.*, **50**(24), e2023GL106131, [10.1029/2023GL106131](https://doi.org/10.1029/2023GL106131).
- [287] Oates, S. (2023), Swift/UVOT: 18 Years of Long GRB Discoveries and Advances, *Universe*, **9**(3), 113, [10.3390/universe9030113](https://doi.org/10.3390/universe9030113).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [288] O'Connor, B., E. Troja, G. Ryan, P. Beniamini, H. van Eerten, J. Granot, S. Dichiara, R. Ricci, V. Lipunov, J. H. Gillanders, R. Gill, M. Moss, S. Anand, I. Andreoni, R. L. Becerra, D. A. H. Buckley, N. R. Butler, S. B. Cenko, A. Chasovnikov, J. Durbak, C. Francile, E. Hammerstein, A. J. van der Horst, M. M. Kasliwal, C. Kouveliotou, A. S. Kuttyrev, W. H. Lee, G. P. Srinivasaragavan, V. Topolev, A. M. Watson, Y. Yang, and K. Zhirkov (2023), A structured jet explains the extreme GRB 221009A, *Sci. Adv.*, **9**(23), eadi1405, [10.1126/sciadv.adi1405](https://doi.org/10.1126/sciadv.adi1405).
- [289] Oganessian, G., S. Karpov, O. S. Salafia, M. Jelínek, G. Beskin, S. Ronchini, B. Banerjee, M. Branchesi, J. Štrobl, C. Polášek, R. Hudec, E. Ivanov, E. Katkova, A. Perkov, A. Biryukov, N. Lyapsina, V. Sasyuk, M. Mašek, P. Janeček, J. Ebr, J. Juryšek, R. Cunniffe, and M. Prouza (2023), Exceptionally bright optical emission from a rare and distant gamma-ray burst, *Nature Astron.*, **7**, 843–855, [10.1038/s41550-023-01972-4](https://doi.org/10.1038/s41550-023-01972-4).
- [290] Ohtani, S., K. Sorathia, V. G. Merkin, H. U. Frey, and J. W. Gjerloev (2023), External and Internal Causes of the Stormtime Intensification of the Dawnside Westward Auroral Electrojet, *J. Geophys. Res.*, **128**(10), e2023JA031457, [10.1029/2023JA031457](https://doi.org/10.1029/2023JA031457).
- [291] Oka, M., J. Birn, J. Egedal, F. Guo, R. E. Ergun, D. L. Turner, Y. Khotyaintsev, K.-J. Hwang, I. J. Cohen, and J. F. Drake (2023), Particle Acceleration by Magnetic Reconnection in Geospace, *Space Sci. Rev.*, **219**(8), 75, [10.1007/s11214-023-01011-8](https://doi.org/10.1007/s11214-023-01011-8).
- [292] Oliveira, D. M. (2023), Interplanetary shock data base, *Front. Astron. Space Sci.*, **10**, 1240323, [10.3389/fspas.2023.1240323](https://doi.org/10.3389/fspas.2023.1240323).
- [293] Omondi, S., A. Yoshikawa, W. K. Zahra, I. Fathy, and A. Mahrous (2023), Automatic detection of auroral Pc5 geomagnetic pulsation using machine learning approach guided with discrete wavelet transform, *Adv. Space Res.*, **72**(3), 866–883, [10.1016/j.asr.2022.06.063](https://doi.org/10.1016/j.asr.2022.06.063).
- [294] Orr, L., A. Grocott, M. T. Walach, G. Chisham, M. P. Freeman, M. M. Lam, and R. M. Shore (2023), A Quantitative Comparison of High Latitude Electric Field Models During a Large Geomagnetic Storm, *Space Weather*, **21**(1), e2022SW003301, [10.1029/2022SW003301](https://doi.org/10.1029/2022SW003301).
- [295] Oyama, S., K. Hosokawa, H. Vanhamäki, A. Aikio, T. Sakanoi, L. Cai, I. I. Virtanen, K. Shiokawa, N. Nishitani, A. Shinbori, and Y. Ogawa (2023), IMF Dependence of Midnight Bifurcation in the Thermospheric Wind at an Auroral Latitude Based on Nine Winter Measurements in Tromsø, Norway, *Geophys. Res. Lett.*, **50**(14), e2023GL104334, [10.1029/2023GL104334](https://doi.org/10.1029/2023GL104334).
- [296] Palmerio, E., A. Maharana, B. J. Lynch, C. Scolini, S. W. Good, J. Pomoell, A. Isavnin, and E. K. J. Kilpua (2023), Modeling a Coronal Mass Ejection from an Extended Filament Channel. II. Interplanetary Propagation to 1 au, *Astrophys. J.*, **958**(1), 91, [10.3847/1538-4357/ad0229](https://doi.org/10.3847/1538-4357/ad0229).
- [297] Palmerio, E., B. J. Lynch, C. O. Lee, L. K. Jian, T. Nieves-Chinchilla, E. E. Davies, B. E. Wood, N. Lugaz, R. M. Winslow, T. Török, N. Al-Haddad, F. Regnault, M. Jin, C. Scolini, F. Carcaboso, C. J. Farrugia, V. E. Ledvina, C. Downs, C. Kay, S. Pal,

---

### Wind Spacecraft: 2023

*List of Refereed Publications*



## List of Refereed Publications

### Wind Spacecraft: 2023

- T. M. Salman, and R. C. Allen (2023), New Observations Needed to Advance Our Understanding of Coronal Mass Ejections, in *Bull. American Astron. Soc.*, vol. 55, p. 307, [10.3847/25c2cfef.ba5ccef8](https://doi.org/10.3847/25c2cfef.ba5ccef8).
- [298] Pandya, M., Y. Ebihara, T. Tanaka, and J. W. Manweiler (2023), Formation of Electron Zebra Stripes Observed on 8 September 2017, *J. Geophys. Res.*, **128**(4), e2022JA030950, [10.1029/2022JA030950](https://doi.org/10.1029/2022JA030950).
- [299] Park, B., A. Pitňa, J. Šafránková, Z. Němeček, O. Krupařová, V. Krupař, L. Zhao, and A. Silwal (2023), Change of Spectral Properties of Magnetic Field Fluctuations across Different Types of Interplanetary Shocks, *Astrophys. J. Lett.*, **954**(2), L51, [10.3847/2041-8213/acf4ff](https://doi.org/10.3847/2041-8213/acf4ff).
- [300] Park, J.-S., Q. Q. Shi, J.-H. Shue, A. W. Degeling, M. Nowada, A. M. Tian, K.-H. Kim, T. Pitkänen, and J. W. Gjerloev (2023), Auroral Electrojet Activity for Long-Duration Radial Interplanetary Magnetic Field Events, *J. Geophys. Res.*, **128**(3), e2022JA030816, [10.1029/2022JA030816](https://doi.org/10.1029/2022JA030816).
- [301] Patari, A., and A. Guha (2023), Comparative study on the effects of CME and CIR-induced geomagnetic storms on the ionosphere of northern and southern hemispheric regions during the different phases of solar cycle 24, *Adv. Space Res.*, **71**(12), 5147–5170, [10.1016/j.asr.2023.02.010](https://doi.org/10.1016/j.asr.2023.02.010).
- [302] Pecora, F., Y. Yang, A. Chasapis, S. Servidio, M. E. Cuesta, S. Roy, R. Chhiber, R. Bandyopadhyay, D. J. Gershman, B. L. Giles, J. L. Burch, and W. H. Matthaeus (2023), Relaxation of the turbulent magnetosheath, *Mon. Not. Roy. Astron. Soc.*, **525**(1), 67–72, [10.1093/mnras/stad2232](https://doi.org/10.1093/mnras/stad2232).
- [303] Pedersen, M. N., H. Vanhamäki, and A. T. Aikio (2023), Comparison of Field-Aligned Current Responses to HSS/SIR, Sheath, and Magnetic Cloud Driven Geomagnetic Storms, *Geophys. Res. Lett.*, **50**(11), e2023GL103151, [10.1029/2023GL103151](https://doi.org/10.1029/2023GL103151).
- [304] Pérez-Alanis, C. A., M. Janvier, T. Nieves-Chinchilla, E. Aguilar-Rodríguez, P. Démoulin, and P. Corona-Romero (2023), Statistical Analysis of Interplanetary Shocks from Mercury to Jupiter, *Solar Phys.*, **298**(4), 60, [10.1007/s11207-023-02152-3](https://doi.org/10.1007/s11207-023-02152-3).
- [305] Perri, S., G. Prete, G. Zimbardo, D. Trotta, I. Wilson, Lynn B., D. Lario, S. Servidio, F. Valentini, and J. Giacalone (2023), Interpretation of Flat Energy Spectra Upstream of Fast Interplanetary Shocks, *Astrophys. J.*, **950**(1), 62, [10.3847/1538-4357/acc942](https://doi.org/10.3847/1538-4357/acc942).
- [306] Pevtsov, A., T. Woods, V. Martinez-Pillet, D. Hassler, T. Berger, S. Gosain, J. T. Hoeksema, A. Jones, R. Kohnert, T. Chen, L. Upton, and A. Pulkkinen (2023), Solar and Heliospheric Magnetism in 5D, in *Bull. American Astron. Soc.*, vol. 55, p. 319, [10.3847/25c2cfef.fc40b0bd](https://doi.org/10.3847/25c2cfef.fc40b0bd).
- [307] Pilipenko, V., O. Kozyreva, M. Hartinger, L. Rastaetter, and Y. Sakharov (2023), Is the Global MHD Modeling of the Magnetosphere Adequate for GIC Prediction: the May 27-28, 2017 Storm, *Cosmic Res.*, **61**(2), 120–132, [10.1134/S0010952522600044](https://doi.org/10.1134/S0010952522600044).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [308] Pitna, A., G. P. Zank, M. Nakanotani, L. L. Zhao, L. Adhikari, J. Safrankova, and Z. Nemecek (2023), Transmission of magnetic island modes across interplanetary shocks: comparison of theory and observations, in *Journal of Physics Conference Series, Journal of Physics Conference Series*, vol. 2544, p. 012009, IOP, [10.1088/1742-6596/2544/1/012009](https://doi.org/10.1088/1742-6596/2544/1/012009).
- [309] Pitsis, V., G. Balasis, I. A. Daglis, D. Vassiliadis, and A. Z. Boutsis (2023), Power-law dependence of the wavelet spectrum of ground magnetic variations during magnetic storms, *Adv. Space Res.*, **71**(5), 2288–2298, [10.1016/j.asr.2022.10.064](https://doi.org/10.1016/j.asr.2022.10.064).
- [310] Plank, J., and I. L. Gingell (2023), Intermittency at Earth’s bow shock: Measures of turbulence in quasi-parallel and quasi-perpendicular shocks, *Phys. Plasmas*, **30**(8), 082906, [10.1063/5.0160439](https://doi.org/10.1063/5.0160439).
- [311] Pohjolainen, S., N. Talebpour Sheshvan, and C. Monstein (2023), Separating the effects of earthside and far side solar events. A case study, *Adv. Space Res.*, **72**(9), 4074–4081, [10.1016/j.asr.2023.09.009](https://doi.org/10.1016/j.asr.2023.09.009).
- [312] Pohjolainen, S., D. McKay, N. Talebpour Sheshvan, and C. Monstein (2023), Repeated Type III Burst Groups Associated with a B-Class Flare and a Narrow-Width CME, *Solar Phys.*, **298**(10), 118, [10.1007/s11207-023-02212-8](https://doi.org/10.1007/s11207-023-02212-8).
- [313] Poppe, A. R., P. S. Szabo, E. R. Imata, L. P. Keller, and R. Christoffersen (2023), Solar Energetic Particle Track-production Rates at 1 au: Comparing In Situ Particle Fluxes with Lunar Sample-derived Track Densities, *Astrophys. J. Lett.*, **958**(2), L35, [10.3847/2041-8213/ad0cf6](https://doi.org/10.3847/2041-8213/ad0cf6).
- [314] Porowski, C., M. Bzowski, and M. Tokumaru (2023), On the General Correlation between 3D Solar Wind Speed and Density Model and Solar Proxies, *Astrophys. J. Suppl.*, **264**(1), 11, [10.3847/1538-4365/ac9fd4](https://doi.org/10.3847/1538-4365/ac9fd4).
- [315] Prakash, O., P. Vijayalakshmi, A. Shanmugaraju, P. Pappa Kalaiivani, A. Ravishankar, Y. J. Moon, and J. Park (2023), Solar source longitudinal dependence of SEPs and their association with solar flares and radio-loud CMEs, *Astrophys. Space Sci.*, **368**(10), 83, [10.1007/s10509-023-04238-7](https://doi.org/10.1007/s10509-023-04238-7).
- [316] Pritchard, K. R., J. L. Burch, S. A. Fuselier, K. J. Genestreti, R. E. Denton, J. M. Webster, and J. M. Broll (2023), Reconnection Rates at the Earth’s Magnetopause and in the Magnetosheath, *J. Geophys. Res.*, **128**(9), e2023JA031475, [10.1029/2023JA031475](https://doi.org/10.1029/2023JA031475).
- [317] Ptitsyna, N. G., O. A. Danilova, M. I. Tyasto, and V. E. Sdobnov (2023), Cosmic ray cutoff rigidity governing by solar wind and magnetosphere parameters during the 2017 Sep 6-9 solar-terrestrial event, *J. Atmos. Solar-Terr. Phys.*, **246**, 106067, [10.1016/j.jastp.2023.106067](https://doi.org/10.1016/j.jastp.2023.106067).
- [318] Putri, D. P. S., Y. Kasahara, M. Ota, S. Matsuda, F. Tsuchiya, A. Kumamoto, A. Matsuoka, and Y. Miyoshi (2023), A Proposal for Modification of Plasmaspheric Electron Density Profiles Using Characteristics of Lightning Whistlers, *Remote Sensing*, **15**(5), 1306, [10.3390/rs15051306](https://doi.org/10.3390/rs15051306).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [319] Qin, G., F. J. Kong, and S. S. Wu (2023), The Efficiency of Electron Acceleration by ICME-driven Shocks, *Astrophys. J.*, **942**(2), 63, [10.3847/1538-4357/aca60e](https://doi.org/10.3847/1538-4357/aca60e).
- [320] Qudsi, R. A., B. M. Walsh, J. Broll, E. Atz, and S. Haaland (2023), Statistical Comparison of Various Dayside Magnetopause Reconnection X-Line Prediction Models, *J. Geophys. Res.*, **128**(10), e2023JA031644, [10.1029/2023JA031644](https://doi.org/10.1029/2023JA031644).
- [321] Raghav, A., O. Dhamane, Z. Shaikh, N. Azmi, A. Manjrekar, U. Panchal, K. Ghag, D. Telloni, R. D’Amicis, P. Tari, and A. Gurav (2023), First Analysis of In Situ Observation of Surface Alfvén Waves in an ICME Flux Rope, *Astrophys. J.*, **945**(1), 64, [10.3847/1538-4357/acb93c](https://doi.org/10.3847/1538-4357/acb93c).
- [322] Ragot, B. R. (2023), Solar Wind Magnetic Field Line Dispersal: Multispacecraft Analysis and Comparison with Theoretical Results, *Astrophys. J.*, **947**(2), 69, [10.3847/1538-4357/acb0c2](https://doi.org/10.3847/1538-4357/acb0c2).
- [323] Rahmanifard, F., P. Swaczyna, E. J. Zirnstein, J. Heerikhuisen, A. Galli, J. M. Sokół, N. A. Schwadron, E. Möbius, D. J. McComas, and S. A. Fuselier (2023), The Effect of Angular Scattering Imposed by Charge Exchange and Elastic Collisions on Interstellar Neutral Hydrogen Atoms, *Astrophys. J.*, **959**(2), 129, [10.3847/1538-4357/ad0be1](https://doi.org/10.3847/1538-4357/ad0be1).
- [324] Raouafi, N. E., L. Matteini, J. Squire, S. T. Badman, M. Velli, K. G. Klein, C. H. K. Chen, W. H. Matthaeus, A. Szabo, M. Linton, R. C. Allen, J. R. Szalay, R. Bruno, R. B. Decker, M. Akhavan-Tafti, O. V. Agapitov, S. D. Bale, R. Bandyopadhyay, K. Battams, L. Berčič, S. Bourouaine, T. A. Bowen, C. Cattell, B. D. G. Chandran, R. Chhiber, C. M. S. Cohen, R. D’Amicis, J. Giacalone, P. Hess, R. A. Howard, T. S. Horbury, V. K. Jagarlamudi, C. J. Joyce, J. C. Kasper, J. Kinnison, R. Laker, P. Liewer, D. M. Malaspina, I. Mann, D. J. McComas, T. Niembro-Hernandez, T. Nieves-Chinchilla, O. Panasenco, P. Pokorný, A. Pusack, M. Pulupa, J. C. Perez, P. Riley, A. P. Rouillard, C. Shi, G. Stenborg, A. Tenerani, J. L. Verniero, N. Viall, A. Vourlidas, B. E. Wood, L. D. Woodham, and T. Woolley (2023), Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum, *Space Sci. Rev.*, **219**(1), 8, [10.1007/s11214-023-00952-4](https://doi.org/10.1007/s11214-023-00952-4).
- [325] Ratovsky, K. G., and I. V. Medvedeva (2023), Local empirical model of ionospheric variability, *Adv. Space Res.*, **71**(5), 2299–2306, [10.1016/j.asr.2022.10.065](https://doi.org/10.1016/j.asr.2022.10.065).
- [326] Raymond, J. C., P. Ghavamian, A. Bohdan, D. Ryu, J. Niemiec, L. Sironi, A. Tran, E. Amato, M. Hoshino, M. Pohl, T. Amano, and F. Fiuza (2023), Electron-Ion Temperature Ratio in Astrophysical Shocks, *Astrophys. J.*, **949**(2), 50, [10.3847/1538-4357/acc528](https://doi.org/10.3847/1538-4357/acc528).
- [327] Reames, D. V. (2023), Element Abundances in Impulsive Solar Energetic-Particle Events, *Universe*, **9**(11), 466, [10.3390/universe9110466](https://doi.org/10.3390/universe9110466).
- [328] Reames, D. V. (2023), How Do Shock Waves Define the Space-Time Structure of Gradual Solar Energetic Particle Events?, *Space Sci. Rev.*, **219**(1), 14, [10.1007/s11214-023-00959-x](https://doi.org/10.1007/s11214-023-00959-x).

## List of Refereed Publications

### Wind Spacecraft: 2023

- [329] Reames, D. V. (2023), Review and outlook of solar energetic particle measurements on multispacecraft missions, *Front. Astron. Space Sci.*, **10**, 1254266, [10.3389/fspas.2023.1254266](https://doi.org/10.3389/fspas.2023.1254266).
- [330] Reda, R., L. Giovannelli, and T. Alberti (2023), On the time lag between solar wind dynamic parameters and solar activity UV proxies, *Adv. Space Res.*, **71**(4), 2038–2047, [10.1016/j.asr.2022.10.011](https://doi.org/10.1016/j.asr.2022.10.011).
- [331] Reda, R., L. Giovannelli, T. Alberti, F. Berrilli, L. Bertello, D. Del Moro, M. P. Di Mauro, P. Giobbi, and V. Penza (2023), The exoplanetary magnetosphere extension in Sun-like stars based on the solar wind-solar UV relation, *Mon. Not. Roy. Astron. Soc.*, **519**(4), 6088–6097, [10.1093/mnras/stac3825](https://doi.org/10.1093/mnras/stac3825).
- [332] Rehan, N. u. S., and A. I. Ibrahim (2023), The 2021 Activity of the Fast-radio-burst-emitting Galactic Magnetar SGR 1935+2154 as Observed by NASA’s Fermi Gamma-Ray Burst Monitor, *Astrophys. J.*, **950**(2), 121, [10.3847/1538-4357/accae6](https://doi.org/10.3847/1538-4357/accae6).
- [333] Remya, B., A. J. Halford, D. G. Sibeck, K. R. Murphy, and M. C. Fok (2023), Understanding Quiet and Storm Time EMIC Waves—Van Allen Probes Results, *J. Geophys. Res.*, **128**(8), e2023JA031712, [10.1029/2023JA031712](https://doi.org/10.1029/2023JA031712).
- [334] Réville, V., N. Poirier, A. Kouloumvakos, A. P. Rouillard, R. Ferreira Pinto, N. Fargette, M. Indurain, R. Fournon, T. James, R. Pobeda, and C. Scoul (2023), HelioCast: heliospheric forecasting based on white-light observations of the solar corona, *J. Space Weather Space Clim.*, **13**, 11, [10.1051/swsc/2023008](https://doi.org/10.1051/swsc/2023008).
- [335] Richardson, I. G., O. C. St. Cyr, J. T. Burkepile, H. Xie, and B. J. Thompson (2023), Solar Energetic-Particle-Associated Coronal Mass Ejections Observed by the Mauna Loa Solar Observatory Mk3 and Mk4 Coronameters, *Solar Phys.*, **298**(9), 105, [10.1007/s11207-023-02192-9](https://doi.org/10.1007/s11207-023-02192-9).
- [336] Ringuette, R., K. D. Kuntz, D. Koutroumpa, P. Kaaret, D. LaRocca, and J. Richardson (2023), Observations of Magnetospheric Solar Wind Charge Exchange, *Astrophys. J.*, **955**(2), 139, [10.3847/1538-4357/acf3e2](https://doi.org/10.3847/1538-4357/acf3e2).
- [337] Roberts, O. W., Y. Narita, R. Nakamura, and Z. Vörös (2023), Spectral break of the density power spectrum in solar wind turbulence, *Astron. & Astrophys.*, **677**, L16, [10.1051/0004-6361/202346709](https://doi.org/10.1051/0004-6361/202346709).
- [338] Rodi, J., and P. Ubertini (2023), Soft gamma-ray spectral and time evolution of the GRB 221009A: Prompt and afterglow emission with INTEGRAL/IBIS-PICsIT, *Astron. & Astrophys.*, **677**, L3, [10.1051/0004-6361/202346373](https://doi.org/10.1051/0004-6361/202346373).
- [339] Rodkin, D. G., V. A. Slemzin, and Y. S. Shugay (2023), Search for Solar Sources of Interplanetary Coronal Mass Ejections Using the Reverse Model of Magnetodynamic Interaction of the Solar Wind in the Heliosphere, *Astron. Rep.*, **67**(3), 280–287, [10.1134/S106377292303006X](https://doi.org/10.1134/S106377292303006X).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [340] Rodríguez-García, L., R. Gómez-Herrero, N. Dresing, D. Lario, I. Zouganelis, L. A. Balmaceda, A. Kouloumvakos, A. Fedeli, F. Espinosa Lara, I. Cernuda, G. C. Ho, R. F. Wimmer-Schweingruber, and J. Rodríguez-Pacheco (2023), Solar energetic electron events measured by MESSENGER and Solar Orbiter. Peak intensity and energy spectrum radial dependences: Statistical analysis, *Astron. & Astrophys.*, **670**, A51, [10.1051/0004-6361/202244553](https://doi.org/10.1051/0004-6361/202244553).
- [341] Rotti, S., and P. C. Martens (2023), Analysis of SEP Events and Their Possible Precursors Based on the GSEP Catalog, *Astrophys. J. Suppl.*, **267**(2), 40, [10.3847/1538-4365/acdace](https://doi.org/10.3847/1538-4365/acdace).
- [342] Rowland Adams, J., J. Newman, and A. Stefanovska (2023), Distinguishing between deterministic oscillations and noise, *European Phys. J. Spec. Top.*, **232**(20-22), 3435–3457, [10.1140/epjs/s11734-023-00986-3](https://doi.org/10.1140/epjs/s11734-023-00986-3).
- [343] Roy, S., and D. Nandy (2023), A Time-efficient, Data-driven Modeling Approach for Predicting the Geomagnetic Impact of Coronal Mass Ejections, *Astrophys. J. Lett.*, **950**(2), L11, [10.3847/2041-8213/acd77c](https://doi.org/10.3847/2041-8213/acd77c).
- [344] Rubtsov, A. V., M. Nosé, A. Matsuoka, I. Shinohara, and Y. Miyoshi (2023), Polarization and Spatial Distribution Features of Pc4 and Pc5 Waves in the Magnetosphere, *J. Geophys. Res.*, **128**(10), e2023JA031674, [10.1029/2023JA031674](https://doi.org/10.1029/2023JA031674).
- [345] Rubtsov, A. V., M. Nosé, A. Matsuoka, Y. Kasahara, A. Kumamoto, F. Tsuchiya, I. Shinohara, and Y. Miyoshi (2023), Plasmasphere Control of ULF Wave Distribution at Different Geomagnetic Conditions, *J. Geophys. Res.*, **128**(10), e2023JA031675, [10.1029/2023JA031675](https://doi.org/10.1029/2023JA031675).
- [346] Rudolph, A., M. Petropoulou, W. Winter, and Ž. Bošnjak (2023), Multi-messenger Model for the Prompt Emission from GRB 221009A, *Astrophys. J. Lett.*, **944**(2), L34, [10.3847/2041-8213/acb6d7](https://doi.org/10.3847/2041-8213/acb6d7).
- [347] Runov, A., V. Angelopoulos, K. Khurana, J. Liu, M. Balikhin, and A. V. Artemyev (2023), Properties of Quiet Magnetotail Plasma Sheet at Lunar Distances, *J. Geophys. Res.*, **128**(11), e2023JA031908, [10.1029/2023JA031908](https://doi.org/10.1029/2023JA031908).
- [348] Sachdeva, N., I. Manchester, Ward B., I. Sokolov, Z. Huang, A. Pevtsov, L. Bertello, A. A. Pevtsov, G. Toth, B. van der Holst, and C. J. Henney (2023), Solar Wind Modeling with the Alfvén Wave Solar atmosphere Model Driven by HMI-based Near-real-time Maps by the National Solar Observatory, *Astrophys. J.*, **952**(2), 117, [10.3847/1538-4357/acda87](https://doi.org/10.3847/1538-4357/acda87).
- [349] Salem, C. S., M. Pulupa, S. D. Bale, and D. Verscharen (2023), Precision electron measurements in the solar wind at 1 au from NASA’s Wind spacecraft, *Astron. & Astrophys.*, **675**, A162, [10.1051/0004-6361/202141816](https://doi.org/10.1051/0004-6361/202141816).
- [350] Salice, J. A., H. Nesse, E. M. Babu, C. Smith-Johnsen, and I. G. Richardson (2023), Exploring the Predictability of the High-Energy Tail of MEE Precipitation Based on Solar Wind Properties, *J. Geophys. Res.*, **128**(3), e2022JA031194, [10.1029/2022JA031194](https://doi.org/10.1029/2022JA031194).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [351] Samwel, S., and R. Miteva (2023), Correlations between space weather parameters during intense geomagnetic storms: Analytical study, *Adv. Space Res.*, **72**(8), 3440–3453, [10.1016/j.asr.2023.07.053](https://doi.org/10.1016/j.asr.2023.07.053).
- [352] Sánchez-Cano, B., O. Witasse, E. W. Knutsen, D. Meggi, S. Viet, M. Lester, R. F. Wimmer-Schweingruber, M. Pinto, R. Moissl, J. Benkhoff, H. Opgenoorth, U. Auster, J. de Brujine, P. Collins, G. De Marchi, D. Fischer, Y. Futaana, J. Godfrey, D. Heyner, M. Holmstrom, A. Johnstone, S. Joyce, D. Lakey, S. Martinez, D. Milligan, E. Montagnon, D. Müller, S. A. Livi, T. Prusti, J. Raines, I. Richter, D. Schmid, P. Schmitz, H. Svedhem, M. G. G. T. Taylor, E. Tremolizzo, D. Titov, C. Wilson, S. Wood, and J. Zender (2023), Solar Energetic Particle Events Detected in the Housekeeping Data of the European Space Agency’s Spacecraft Flotilla in the Solar System, *Space Weather*, **21**(8), e2023SW003540, [10.1029/2023SW003540](https://doi.org/10.1029/2023SW003540).
- [353] Schmid, D., and Y. Narita (2023), Magnetohydrodynamic Shocks Revisited: Magnetically Constraining the Upstream Solar Wind Condition, *Astrophys. J.*, **955**(1), 58, [10.3847/1538-4357/aced07](https://doi.org/10.3847/1538-4357/aced07).
- [354] Sciola, A., V. G. Merkin, K. Sorathia, M. Gkioulidou, S. Bao, F. Toffoletto, K. Pham, D. Lin, A. Michael, M. Wiltberger, and A. Ukhorskiy (2023), The Contribution of Plasma Sheet Bubbles to Stormtime Ring Current Buildup and Evolution of Its Energy Composition, *J. Geophys. Res.*, **128**(11), e2023JA031693, [10.1029/2023JA031693](https://doi.org/10.1029/2023JA031693)[10.22541/essoar.168677230.00750251/v1](https://doi.org/10.22541/essoar.168677230.00750251/v1).
- [355] Scudder, J. D. (2023), The Origin of Persistently Nonthermal Solar Wind Electrons: the Steady Electron Runaway Model’s Demonstration of Dreicer Bifurcation using Measured  $\{E\}$ - $\{E\}$  and Ion-Electron Coulomb Drag, *Astrophys. J.*, **944**(2), 133, [10.3847/1538-4357/acae26](https://doi.org/10.3847/1538-4357/acae26).
- [356] Seo, J., and K.-C. Kim (2023), The Relationship of Exohiss Waves With Plasmaspheric Hiss Distribution and Solar Wind Parameters, *J. Geophys. Res.*, **128**(10), e2023JA031777, [10.1029/2023JA031777](https://doi.org/10.1029/2023JA031777).
- [357] Seol, W. H., C. H. Lee, J. Seon, Y. C. Shin, K. H. Kim, D. E. Larson, G. K. Parks, and J. Sample (2023), Estimation of Geometric Factors for the Particle Detecting Instruments of the Geostationary Satellite GK2A at 128.2°E Longitude Based on Observations of the Outer Radiation Belt During Geomagnetically Quiet Periods, *Space Weather*, **21**(1), e2022SW003265, [10.1029/2022SW003265](https://doi.org/10.1029/2022SW003265).
- [358] Seough, J., P. H. Yoon, Y. Nariyuki, and C. Salem (2023), Expanding-box Quasilinear Model of the Solar Wind, *Astrophys. J.*, **953**(1), 8, [10.3847/1538-4357/acde7d](https://doi.org/10.3847/1538-4357/acde7d).
- [359] Sergeev, V. A., M. V. Kubyshkina, V. S. Semenov, A. Artemyev, V. Angelopoulos, and A. Runov (2023), Unusual Magnetospheric Dynamics During Intense Substorm Initiated by Strong Magnetospheric Compression, *J. Geophys. Res.*, **128**(11), e2023JA031536, [10.1029/2023JA031536](https://doi.org/10.1029/2023JA031536).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [360] Setsko, P. V., I. V. Despirak, Y. A. Sakharov, A. A. Lubchich, V. A. Bilin, and V. N. Selivanov (2023), Geinduced currents on Karelian-Kola power line and finnish gas pipeline on september, 12-13 2017, *J. Atmos. Solar-Terr. Phys.*, **247**, 106079, [10.1016/j.jastp.2023.106079](https://doi.org/10.1016/j.jastp.2023.106079).
- [361] Shaikh, Z. I., A. N. Raghav, and I. Y. Vasko (2023), Proton Temperature Anisotropy within the Interplanetary Coronal Mass Ejections Sheath at 1 au, *Astrophys. J. Lett.*, **955**(1), L5, [10.3847/2041-8213/acf575](https://doi.org/10.3847/2041-8213/acf575).
- [362] Shaikh, Z. I., A. N. Raghav, G. Vichare, R. D’Amicis, and D. Telloni (2023), Evidence for superadiabatic heating and cooling of Alfvénic solar wind, *Mon. Not. Roy. Astron. Soc.*, **519**(1), L62–L67, [10.1093/mnrasl/slac147](https://doi.org/10.1093/mnrasl/slac147).
- [363] Shane, A. D., R. A. Marshall, S. G. Claudepierre, and J. M. Pettit (2023), Electron Lifetimes Measured at LEO: Comparison With RBSP Estimates and Pitch Angle Resolved Lifetimes, *J. Geophys. Res.*, **128**(8), e2023JA031679, [10.1029/2023JA031679](https://doi.org/10.1029/2023JA031679).
- [364] Sheveleva, D. A., S. V. Apatenkov, Y. A. Sakharov, V. N. Selivanov, and E. I. Gordeev (2023), Characteristics of Solar Wind and Geomagnetic Conditions of Extreme Geomagnetically Induced Currents at the Vykhodnoy Station (2012-2018), *Cosmic Res.*, **61**(1), 34–37, [10.1134/S0010952523010057](https://doi.org/10.1134/S0010952523010057).
- [365] Shlyk, N. S., A. V. Belov, M. A. Abunina, and A. A. Abunin (2023), An Empirical Model for Estimating the Velocities and Delays of Interplanetary Coronal Mass Ejections, *Geomag. and Aeron.*, **63**(5), 564–573, [10.1134/S0016793223600443](https://doi.org/10.1134/S0016793223600443).
- [366] Sierra-Porta, D., M. Tarazona-Alvarado, and J. Villalba-Acevedo (2023), Quantitatively relating cosmic rays intensities from solar activity parameters based on structural equation modeling, *Adv. Space Res.*, **72**(2), 638–648, [10.1016/j.asr.2023.02.044](https://doi.org/10.1016/j.asr.2023.02.044).
- [367] Silveira, M. V. D., and D. G. Sibeck (2023), A Linear Velocity Gradient in the Subsolar Magnetosheath, *J. Geophys. Res.*, **128**(5), e2023JA031362, [10.1029/2023JA031362](https://doi.org/10.1029/2023JA031362).
- [368] Simms, L. E., M. J. Engebretson, and G. D. Reeves (2023), Determining the Timing of Driver Influences on 1.8-3.5 MeV Electron Flux at Geosynchronous Orbit Using ARMAX Methodology and Stepwise Regression, *J. Geophys. Res.*, **128**(1), e2022JA030963, [10.1029/2022JA030963](https://doi.org/10.1029/2022JA030963).
- [369] Sinclair, J. A., R. West, J. M. Barbara, C. Tao, G. S. Orton, T. K. Greathouse, R. S. Giles, D. Grodent, L. N. Fletcher, and P. G. J. Irwin (2023), Long-term variability of Jupiter’s northern auroral 8-  $\mu\text{m}$  CH<sub>4</sub> emissions, *Icarus*, **406**, 115740, [10.1016/j.icarus.2023.115740](https://doi.org/10.1016/j.icarus.2023.115740).
- [370] Sinclair, J. A., T. K. Greathouse, R. S. Giles, J. Lacy, J. Moses, V. Hue, D. Grodent, B. Bonfond, C. Tao, T. Cavalié, E. K. Dahl, G. S. Orton, L. N. Fletcher, and P. G. J. Irwin (2023), A High Spatial and Spectral Resolution Study of Jupiter’s Mid-infrared Auroral Emissions and Their Response to a Solar Wind Compression, *Planet. Sci. J.*, **4**(4), 76, [10.3847/PSJ/accb95](https://doi.org/10.3847/PSJ/accb95).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [371] Singh, M., F. Fraschetti, and J. Giacalone (2023), Electrostatic Plasma Wave Excitations at the Interplanetary Shocks, *Astrophys. J.*, **943**(1), 16, [10.3847/1538-4357/aca7c6](https://doi.org/10.3847/1538-4357/aca7c6).
- [372] Singh, T., B. Benson, S. A. Z. Raza, T. K. Kim, N. V. Pogorelov, W. P. Smith, and C. N. Arge (2023), Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager Data, and Machine Learning, *Astrophys. J.*, **948**(2), 78, [10.3847/1538-4357/acc10a](https://doi.org/10.3847/1538-4357/acc10a).
- [373] Sinha, S., G. Vichare, and A. K. Sinha (2023), A comparative analysis of the role of interplanetary magnetic field (IMF) and sudden impulse (SI) in triggering a substorm, *Adv. Space Res.*, **71**(1), 97–114, [10.1016/j.asr.2022.08.037](https://doi.org/10.1016/j.asr.2022.08.037).
- [374] Smirnova, V. V., Y. T. Tsap, V. S. Ryzhov, G. G. Motorina, A. S. Morgachev, and M. Bárta (2023), The Flare Emission of the May 4, 2022 Event and Its Millimeter Component, *Geomag. and Aeron.*, **63**(5), 527–535, [10.1134/S0016793223600558](https://doi.org/10.1134/S0016793223600558).
- [375] Sokół, J. M., M. J. Starkey, M. A. Dayeh, S. A. Fuselier, S. M. Petrinec, D. J. McComas, N. A. Schwadron, J. Szalay, and K. Ogasawara (2023), Variation of Hydrogen Energetic Neutral Atom Flux in the Subsolar Magnetosheath as a Function of Solar Cycle, *J. Geophys. Res.*, **128**(9), e2023JA031669, [10.1029/2023JA031669](https://doi.org/10.1029/2023JA031669).
- [376] Soljento, J. E., S. W. Good, A. Osmane, and E. K. J. Kilpua (2023), Imbalanced Turbulence Modified by Large-scale Velocity Shears in the Solar Wind, *Astrophys. J. Lett.*, **946**(1), L19, [10.3847/2041-8213/acc071](https://doi.org/10.3847/2041-8213/acc071).
- [377] Sommer, M. (2023), Alpha-Meteoroids then and now: Unearthing an overlooked micrometeoroid population, *Planet. Space Sci.*, **236**, 105751, [10.1016/j.pss.2023.105751](https://doi.org/10.1016/j.pss.2023.105751).
- [378] Son, J., S.-K. Sung, Y.-J. Moon, H. Lee, and H.-J. Jeong (2023), Three-day Forecasting of Solar Wind Speed Using SDO/AIA Extreme-ultraviolet Images by a Deep-learning Model, *Astrophys. J. Suppl.*, **267**(2), 45, [10.3847/1538-4365/ace59a](https://doi.org/10.3847/1538-4365/ace59a).
- [379] Song, X.-Y., and S.-N. Zhang (2023), GRB 221009A with an Unconventional Precursor: A Typical Two-stage Collapsar Scenario?, *Astrophys. J.*, **957**(1), 31, [10.3847/1538-4357/acfed7](https://doi.org/10.3847/1538-4357/acfed7).
- [380] Song, Y.-C. (2023), Evaluation of Coronal and Interplanetary Magnetic Field Extrapolation Using PSP Solar Wind Observation, *Res. Astron. Astrophys.*, **23**(7), 075020, [10.1088/1674-4527/acd52a](https://doi.org/10.1088/1674-4527/acd52a).
- [381] Sori, T., A. Shinbori, Y. Otsuka, M. Nishioka, and S. Perwitasari (2023), Dependence of Ionospheric Responses on Solar Wind Dynamic Pressure During Geomagnetic Storms Using Global Long-Term GNSS-TEC Data, *J. Geophys. Res.*, **128**(3), e2022JA030913, [10.1029/2022JA030913](https://doi.org/10.1029/2022JA030913).
- [382] Sori, T., A. Shinbori, Y. Otsuka, M. Nishioka, S. Perwitasari, and N. Nishitani (2023), First Detection of Midlatitude Plasma Bubble by SuperDARN During a Geomagnetic Storm on May 27 and 28, 2017, *J. Geophys. Res.*, **128**(4), e2022JA031157, [10.1029/2022JA031157](https://doi.org/10.1029/2022JA031157).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*



## List of Refereed Publications

### Wind Spacecraft: 2023

- [383] Stephens, G. K., M. I. Sitnov, R. S. Weigel, D. L. Turner, N. A. Tsyganenko, A. J. Rogers, K. J. Genestreti, and J. A. Slavin (2023), Global Structure of Magnetotail Reconnection Revealed by Mining Space Magnetometer Data, *J. Geophys. Res.*, **128**(2), e2022JA031066, [10.1029/2022JA031066](https://doi.org/10.1029/2022JA031066).
- [384] Sterken, V. J., S. Hunziker, K. Dialynas, J. Leitner, M. Sommer, R. Srama, L. R. Baalman, A. Li, K. Herbst, A. Galli, P. Brandt, M. Riebe, W. J. Baggaley, M. Blanc, A. Czechowski, F. Effenberger, B. Fields, P. Frisch, M. Horanyi, H. W. Hsu, N. Khawaja, H. Krüger, W. S. Kurth, N. F. W. Ligterink, J. L. Linsky, C. Lisse, D. Malaspina, J. A. Miller, M. Opher, A. R. Poppe, F. Postberg, E. Provornikova, S. Redfield, J. Richardson, M. Rowan-Robinson, K. Scherer, M. M. Shen, J. D. Slavin, Z. Sternovsky, G. Stober, P. Strub, J. Szalay, and M. Tieloff (2023), Synergies between interstellar dust and heliospheric science with an interstellar probe, *RAS Techniques and Instruments*, **2**(1), 532–547, [10.1093/rasti/rzad034](https://doi.org/10.1093/rasti/rzad034).
- [385] Stumpo, M., S. Benella, G. Consolini, and T. Alberti (2023), Dynamical information flow within the magnetosphere-ionosphere system during magnetic storms, *Rendiconti Lincei. Scienze Fisiche e Naturali*, **34**(1), 1–9, [10.1007/s12210-022-01114-4](https://doi.org/10.1007/s12210-022-01114-4).
- [386] Su, W., Z.-B. Zhou, Y. Wang, C. Zhou, P. F. Chen, W. Hong, J. H. Peng, Y. Yang, and Y. W. Ni (2023), Evaluating residual acceleration noise for the TianQin gravitational waves observatory with an empirical magnetic field model, *Phys. Rev. D*, **108**(10), 103030, [10.1103/PhysRevD.108.103030](https://doi.org/10.1103/PhysRevD.108.103030).
- [387] Sun, X., R. Lin, S. Liu, B. Luo, L. Shi, Q. Zhong, X. Luo, J. Gong, and M. Li (2023), Prediction Models of  $\geq 2$  MeV Electron Daily Fluences for 3 Days at GEO Orbit Using a Long Short-Term Memory Network, *Remote Sensing*, **15**(10), 2538, [10.3390/rs15102538](https://doi.org/10.3390/rs15102538).
- [388] Sun, Y.-X., Q.-G. Zong, Y. Liu, Y.-G. Ye, H. Zou, C. Yue, X.-Z. Zhou, and Y.-X. Hao (2023), Dawn-Dusk Asymmetry of Energetic Electron at LEO During a Storm: Observation by FY3E, *J. Geophys. Res.*, **128**(10), e2023JA031802, [10.1029/2023JA031802](https://doi.org/10.1029/2023JA031802).
- [389] Sunny, J. V., A. G. Nair, M. Babu, and R. Hajra (2023), A comparative study on geoeffective and non-geoeffective corotating interaction regions, *Adv. Space Res.*, **71**(1), 268–274, [10.1016/j.asr.2022.09.051](https://doi.org/10.1016/j.asr.2022.09.051).
- [390] Svaldi, V., T. Matsuo, L. Kilcommons, and B. Gallardo-Lacourt (2023), High-Latitude Ionospheric Electrodynamics During STEVE and Non-STEVE Substorm Events, *J. Geophys. Res.*, **128**(4), e2022JA030277, [10.1029/2022JA030277](https://doi.org/10.1029/2022JA030277).
- [391] Swaczyna, P., F. Rahmanifard, E. J. Zirnstein, and J. Heerikhuisen (2023), Filtration of Interstellar Neutral Helium by Elastic and Charge Exchange Collisions in Heliospheric Boundaries, *Astrophys. J.*, **943**(2), 74, [10.3847/1538-4357/aca36](https://doi.org/10.3847/1538-4357/aca36).
- [392] Swaczyna, P., M. Bzowski, J. Heerikhuisen, M. A. Kubiak, F. Rahmanifard, E. J. Zirnstein, S. A. Fuselier, A. Galli, D. J. McComas, E. Möbius, and N. A. Schwadron (2023), Interstellar Conditions Deduced from Interstellar Neutral Helium Observed by IBEX and Global Heliosphere Modeling, *Astrophys. J.*, **953**(1), 107, [10.3847/1538-4357/ace719](https://doi.org/10.3847/1538-4357/ace719).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [393] Syed Ibrahim, M., E. Ebenezer, and A. Shanmugaraju (2023), Comparison Between Radio Loud and Radio Quiet Fast CMEs: A Reason for Radio Quietness, *Solar Phys.*, **298**(4), 59, [10.1007/s11207-023-02151-4](https://doi.org/10.1007/s11207-023-02151-4).
- [394] Szabo, P. S., A. R. Poppe, A. Mutzke, S. Fatemi, A. Vorburger, and P. Wurz (2023), Energetic Neutral Atom (ENA) Emission Characteristics at the Moon and Mercury From 3D Regolith Simulations of Solar Wind Reflection, *J. Geophys. Res.*, **128**(9), e2023JE007911, [10.1029/2023JE007911](https://doi.org/10.1029/2023JE007911).
- [395] Szente, J., E. Landi, and B. van der Holst (2023), Nonequilibrium Ionization Effects on Synthetic Spectra in the AWSoM Solar Corona, *Astrophys. J. Suppl.*, **269**(2), 37, [10.3847/1538-4365/ad0232](https://doi.org/10.3847/1538-4365/ad0232).
- [396] Sznajder, M. (2023), Solar wind H<sup>+</sup> fluxes at 1 AU for solar cycles 23 and 24, *Adv. Space Res.*, **71**(11), 4923–4957, [10.1016/j.asr.2023.01.054](https://doi.org/10.1016/j.asr.2023.01.054).
- [397] Takahashi, K., T. Elsden, A. N. Wright, and A. W. Degeling (2023), Polarization of Magnetospheric ULF Waves Excited by an Interplanetary Shock on 27 February 2014, *J. Geophys. Res.*, **128**(9), e2023JA031608, [10.1029/2023JA031608](https://doi.org/10.1029/2023JA031608).
- [398] Takla, E. M. H., and S. W. Samwel (2023), Possible connection between solar activity and local seismicity, *Terr. Atmos. Oceanic Sci.*, **34**(1), 9, [10.1007/s44195-023-00042-6](https://doi.org/10.1007/s44195-023-00042-6).
- [399] Tan, L. C. (2023), Turbulent Origins of Particle Intensity Dropout in Gradual Solar Energetic Particle Events During Solar Cycle 23, *Astrophys. J.*, **954**(1), 26, [10.3847/1538-4357/ace1f2](https://doi.org/10.3847/1538-4357/ace1f2).
- [400] Tan, X., M. W. Dunlop, X. C. Dong, Y. Y. Yang, Y. S. Du, C. Shen, C. T. Russell, and W. L. Liu (2023), Ring Current Morphology From MMS Observations, *J. Geophys. Res.*, **128**(4), e2023JA031372, [10.1029/2023JA031372](https://doi.org/10.1029/2023JA031372).
- [401] Tang, R., A. Yuan, H. Li, Z. Ouyang, and X. Deng (2023), Influence of Solar Wind Dynamic Pressure on Distribution of Whistler Mode Waves Based on Van Allen Probe Observations, *J. Geophys. Res.*, **128**(4), e2022JA031181, [10.1029/2022JA031181](https://doi.org/10.1029/2022JA031181).
- [402] Tang, R., Z. Wang, H. Li, Z. Chen, Z. Ouyang, and X. Deng (2023), The Study on Modeling of Global Plasmaspheric Hiss Amplitude Based on Deep Learning Algorithm, *Space Weather*, **21**(3), e2022SW003342, [10.1029/2022SW003342](https://doi.org/10.1029/2022SW003342).
- [403] Tavani, M., G. Piano, A. Bulgarelli, L. Foffano, A. Ursi, F. Verrecchia, C. Pittori, C. Casentini, A. Giuliani, F. Longo, G. Panebianco, A. Di Piano, L. Baroncelli, V. Fioretti, N. Parmiggiani, A. Argan, A. Trois, S. Vercellone, M. Cardillo, L. A. Antonelli, G. Barbiellini, P. Caraveo, P. W. Cattaneo, A. W. Chen, E. Costa, E. Del Monte, G. Di Cocco, I. Donnarumma, Y. Evangelista, M. Feroci, F. Gianotti, C. Labanti, F. Lazzarotto, P. Lipari, F. Lucarelli, M. Marisaldi, S. Mereghetti, A. Morselli, L. Pacciani, A. Pellizzoni, F. Perotti, P. Picozza, M. Pilia, M. Rapisarda, A. Rappoldi, A. Rubini, P. Soffitta, M. Trifoglio, V. Vittorini, and F. D'Amico (2023), AGILE Gamma-Ray Detection of the Exceptional GRB 221009A, *Astrophys. J. Lett.*, **956**(1), L23, [10.3847/2041-8213/acfaff](https://doi.org/10.3847/2041-8213/acfaff).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [404] Telloni, D., M. L. Schiavo, E. Magli, S. Fineschi, S. Guastavino, G. Nicolini, R. Susino, S. Giordano, F. Amadori, V. Candiani, A. M. Massone, and M. Piana (2023), Prediction Capability of Geomagnetic Events from Solar Wind Data Using Neural Networks, *Astrophys. J.*, **952**(2), 111, [10.3847/1538-4357/acdeea](https://doi.org/10.3847/1538-4357/acdeea).
- [405] Thalmann, J. K., M. Dumbović, K. Dissauer, T. Podladchikova, G. Chikunova, M. Temmer, E. Dickson, and A. M. Veronig (2023), Tracking magnetic flux and helicity from the Sun to Earth. Multi-spacecraft analysis of a magnetic cloud and its solar source, *Astron. & Astrophys.*, **669**, A72, [10.1051/0004-6361/202244248](https://doi.org/10.1051/0004-6361/202244248).
- [406] Thor, S., A. Kullen, L. Cai, M. C. Katrougkalou, and Y. Zhang (2023), Interhemispheric Conjugacy of Multiple Transpolar Arcs, *Geophys. Res. Lett.*, **50**(10), e2023GL103816, [10.1029/2023GL103816](https://doi.org/10.1029/2023GL103816).
- [407] Tokumaru, M., K. Fujiki, and K. Iwai (2023), Interplanetary Scintillation Observations of Solar-Wind Disturbances During Cycles 23 and 24, *Solar Phys.*, **298**(2), 22, [10.1007/s11207-023-02116-7](https://doi.org/10.1007/s11207-023-02116-7).
- [408] Tokumaru, M., M. Nagai, K. Fujiki, and K. Iwai (2023), East-West Asymmetry in Interplanetary-Scintillation-Level Variation Associated with Solar-Wind Disturbances, *Solar Phys.*, **298**(11), 127, [10.1007/s11207-023-02220-8](https://doi.org/10.1007/s11207-023-02220-8).
- [409] Tokuno, T., T. K. Suzuki, and M. Shoda (2023), Transition of latitudinal differential rotation as a possible cause of weakened magnetic braking of solar-type stars, *Mon. Not. Roy. Astron. Soc.*, **520**(1), 418–436, [10.1093/mnras/stad103](https://doi.org/10.1093/mnras/stad103).
- [410] Trattner, K. J., S. A. Fuselier, S. J. Schwartz, H. Kucharek, J. L. Burch, R. E. Ergun, S. M. Petrinec, and H. Madanian (2023), Ion Acceleration at the Quasi-Parallel Shock: The Source Distributions of the Diffuse Ions, *J. Geophys. Res.*, **128**(2), e2022JA030631, [10.1029/2022JA030631](https://doi.org/10.1029/2022JA030631).
- [411] Troshichev, O. A. (2023), PC Index as a Ground-Based Indicator of the Solar Wind Energy Incoming into the Magnetosphere: (2) Relation of PC Index to Magnetic Disturbances, *Surveys in Geophys.*, **45**(1), 55–82, [10.1007/s10712-023-09799-4](https://doi.org/10.1007/s10712-023-09799-4).
- [412] Troshichev, O. A., N. A. Stepanov, and D. A. Sormakov (2023), Physical reasons for regular discrepancies in values of the PCN and PCS indices characterizing magnetic activity in the northern and southern polar caps, *J. Atmos. Solar-Terr. Phys.*, **249**, 106096, [10.1016/j.jastp.2023.106096](https://doi.org/10.1016/j.jastp.2023.106096).
- [413] Trotta, D., H. Hietala, T. Horbury, N. Dresing, R. Vainio, L. Wilson, I. Plotnikov, and E. Kilpua (2023), Multi-spacecraft observations of shocklets at an interplanetary shock, *Mon. Not. Roy. Astron. Soc.*, **520**(1), 437–445, [10.1093/mnras/stad104](https://doi.org/10.1093/mnras/stad104).
- [414] Tsurutani, B. T., and R. Hajra (2023), Energetics of Shock-triggered Supersubstorms (SML < -2500 nT), *Astrophys. J.*, **946**(1), 17, [10.3847/1538-4357/acb143](https://doi.org/10.3847/1538-4357/acb143).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [415] Tsurutani, B. T., G. P. Zank, V. J. Sterken, K. Shibata, T. Nagai, A. J. Mannucci, D. M. Malaspina, G. S. Lakhina, S. G. Kanekal, K. Hosokawa, R. B. Horne, R. Hajra, K.-H. Glassmeier, C. T. Gaunt, P.-F. Chen, and S.-I. Akasofu (2023), Space Plasma Physics: A Review, *IEEE Trans. Plasma Sci.*, **51**(7), 1595–1655, [10.1109/TPS.2022.3208906](https://doi.org/10.1109/TPS.2022.3208906).
- [416] Tsvetkova, A., L. Burderi, A. Riggio, A. Sanna, and T. Di Salvo (2023), A Concept of Assessment of LIV Tests with THESEUS Using the Gamma-Ray Bursts Detected by Fermi/GBM, *Universe*, **9**(8), 359, [10.3390/universe9080359](https://doi.org/10.3390/universe9080359).
- [417] Tsyganenko, N. A., V. S. Semenov, and N. V. Erkaev (2023), Data-Based Modeling of the Magnetosheath Magnetic Field, *J. Geophys. Res.*, **128**(11), e2023JA031665, [10.1029/2023JA031665](https://doi.org/10.1029/2023JA031665).
- [418] Turc, L., O. W. Roberts, D. Verscharen, A. P. Dimmock, P. Kajdič, M. Palmroth, Y. Pfau-Kempf, A. Johlander, M. Dubart, E. K. J. Kilpua, J. Soucek, K. Takahashi, N. Takahashi, M. Battarbee, and U. Ganse (2023), Transmission of foreshock waves through Earth’s bow shock, *Nature Phys.*, **19**(1), 78–86, [10.1038/s41567-022-01837-z](https://doi.org/10.1038/s41567-022-01837-z).
- [419] Umar, R., A. N. Dagang, N. S. I. Roslan, S. N. A. S. Zafar, M. H. Jusoh, A. Yoshikawa, S. Abe, and T. Uozumi (2023), Response of the geomagnetic horizontal component during solar events at RANAU station, *Indian J. Phys.*, **97**(13), 3735–3744, [10.1007/s12648-023-02721-z](https://doi.org/10.1007/s12648-023-02721-z).
- [420] Urata, Y., K. Toma, S. Covino, K. Wiersema, K. Huang, J. Shimoda, A. Kuwata, S. Nagao, K. Asada, H. Nagai, S. Takahashi, C.-E. Chung, G. Petitpas, K. Yamaoka, L. Izzo, J. Fynbo, A. de Ugarte Postigo, M. Arabsalmani, and M. Tashiro (2023), Simultaneous radio and optical polarimetry of GRB 191221B afterglow, *Nature Astron.*, **7**, 80–87, [10.1038/s41550-022-01832-7](https://doi.org/10.1038/s41550-022-01832-7).
- [421] Ursi, A., N. Parmiggiani, M. Messerotti, A. Pellizzoni, C. Pittori, F. Longo, F. Verrecchia, A. Argan, A. Bulgarelli, M. Tavani, P. Tempesta, and F. D’Amico (2023), The First AGILE Solar Flare Catalog, *Astrophys. J. Suppl.*, **267**(1), 9, [10.3847/1538-4365/acd4b6](https://doi.org/10.3847/1538-4365/acd4b6).
- [422] Vasilopoulos, G., D. Karavola, S. I. Stathopoulos, and M. Petropoulou (2023), Dust-scattering rings of GRB 221009A as seen by the Neil Gehrels Swift X-ray Observatory: can we count them all?, *Mon. Not. Roy. Astron. Soc.*, **521**(1), 1590–1600, [10.1093/mnras/stad375](https://doi.org/10.1093/mnras/stad375).
- [423] Vijayalakshmi, P., A. Shanmugaraju, and S. Aswin Amirtha Raj (2023), Magnetic Properties of Source Regions of CMEs and DH Type II Radio Bursts, *Solar Phys.*, **298**(12), 144, [10.1007/s11207-023-02234-2](https://doi.org/10.1007/s11207-023-02234-2).
- [424] Vo, T., R. E. Ergun, M. E. Usanova, and A. Chasapis (2023), Mesoscale Structure and Properties of the Terrestrial Magnetotail Plasma Sheet From the Magnetospheric Multi-scale Mission, *J. Geophys. Res.*, **128**(9), e2023JA031358, [10.1029/2023JA031358](https://doi.org/10.1029/2023JA031358).
- [425] Voshchepynets, A., O. V. Agapitov, L. Wilson, V. Angelopoulos, S. T. Alnussirat, M. Balikhin, M. Hlebena, I. Korol, D. Larson, D. Mitchell, C. Owen, and A. Rahmati (2023),

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- Multipoint Detection of GRB221009A's Propagation through the Heliosphere, *Astrophys. J. Lett.*, **956**(1), L4, [10.3847/2041-8213/acf933](https://doi.org/10.3847/2041-8213/acf933).
- [426] Řípa, J., H. Takahashi, Y. Fukazawa, N. Werner, F. Münz, A. Pál, M. Ohno, M. Dafčiková, L. Mészáros, B. Csák, N. Husáriková, M. Kolář, G. Galgóczi, J.-P. Breuer, F. Hroch, J. Hudec, J. Kapuš, M. Frajt, M. Rezenov, R. Laszlo, M. Koleda, M. Šmelko, P. Hanák, P. Lipovský, T. Urbanec, M. Kasal, A. Povalač, Y. Uchida, H. Poon, H. Mataka, K. Nakazawa, N. Uchida, T. Bozóki, G. Dály, T. Enoto, Z. Frei, G. Friss, Y. Ichinohe, K. Kapás, L. L. Kiss, T. Mizuno, H. Odaka, J. Takátsy, M. Topinka, and K. Torigoe (2023), The peak flux of GRB 221009A measured with GRBAlpha, *Astron. & Astrophys.*, **677**, L2, [10.1051/0004-6361/202346128](https://doi.org/10.1051/0004-6361/202346128).
- [427] Šafránková, J., Z. Němeček, F. Němec, D. Verscharen, T. S. Horbury, S. D. Bale, and L. Přech (2023), Evolution of Magnetic Field Fluctuations and Their Spectral Properties within the Heliosphere: Statistical Approach, *Astrophys. J. Lett.*, **946**(2), L44, [10.3847/2041-8213/acc531](https://doi.org/10.3847/2041-8213/acc531).
- [428] Šiljeg, B., Ž. Bošnjak, V. Jelić, A. Tiengo, F. Pintore, and A. Bracco (2023), Comparison of distance measurements to dust clouds using GRB X-ray haloes and 3D dust extinction, *Mon. Not. Roy. Astron. Soc.*, **526**(2), 2605–2619, [10.1093/mnras/stad2946](https://doi.org/10.1093/mnras/stad2946).
- [429] Vuorinen, L., A. T. LaMoury, H. Hietala, and F. Koller (2023), Magnetosheath Jets Over Solar Cycle 24: An Empirical Model, *J. Geophys. Res.*, **128**(8), e2023JA031493, [10.1029/2023JA031493](https://doi.org/10.1029/2023JA031493).
- [430] Vuorinen, L., H. Hietala, A. T. LaMoury, and F. Plaschke (2023), Solar Wind Parameters Influencing Magnetosheath Jet Formation: Low and High IMF Cone Angle Regimes, *J. Geophys. Res.*, **128**(10), e2023JA031494, [10.1029/2023JA031494](https://doi.org/10.1029/2023JA031494).
- [431] Walker, S., K. Laundal, J. Reistad, A. Ohma, and S. Hatch (2023), Statistical Temporal Variations in the Auroral Electrojet Estimated With Ground Magnetometers in Fennoscandia, *Space Weather*, **21**(1), e2022SW003305, [10.1029/2022SW003305](https://doi.org/10.1029/2022SW003305).
- [432] Walters, J., K. G. Klein, E. Lichko, M. L. Stevens, D. Verscharen, and B. D. G. Chandran (2023), The Effects of Nonequilibrium Velocity Distributions on Alfvén Ion-cyclotron Waves in the Solar Wind, *Astrophys. J.*, **955**(2), 97, [10.3847/1538-4357/acf1fa](https://doi.org/10.3847/1538-4357/acf1fa).
- [433] Wang, C.-P., X. Wang, Y. Lin, S. Wing, and M. Hairston (2023), Energy-Dispersive Field-Aligned Warm Ion Enhancement in the Plasma Sheet During a Substorm Growth Phase: A THEMIS Event, *J. Geophys. Res.*, **128**(5), e2022JA031252, [10.1029/2022JA031252](https://doi.org/10.1029/2022JA031252).
- [434] Wang, M., B. Chen, S. Yu, D. E. Gary, J. Lee, H. Wang, and C. Cohen (2023), The Solar Origin of an In Situ Type III Radio Burst Event, *Astrophys. J.*, **954**(1), 32, [10.3847/1538-4357/ace904](https://doi.org/10.3847/1538-4357/ace904).
- [435] Wang, S., and S. Huang (2023), Quantify the Information Contributions of External Drivers to Global Ionospheric TEC, *J. Geophys. Res.*, **128**(9), e2023JA031897, [10.1029/2023JA031897](https://doi.org/10.1029/2023JA031897).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [436] Wang, S., V. Bindi, C. Consolandi, C. Corti, C. Light, N. Nikonov, and A. Kuhlman (2023), Properties of Forbush Decreases with AMS-02 Daily Proton Flux Data, *Astrophys. J.*, **950**(1), 23, [10.3847/1538-4357/acca1b](https://doi.org/10.3847/1538-4357/acca1b).
- [437] Wang, T.-H., X.-X. Zhang, F. He, J.-T. Lv, Q.-G. Zong, and H.-S. Fu (2023), Banana Current in the Inner Magnetosphere Observed by Van Allen Probes, *Geophys. Res. Lett.*, **50**(12), e2023GL104429, [10.1029/2023GL104429](https://doi.org/10.1029/2023GL104429).
- [438] Wang, W., L. Wang, S. Krucker, and R. F. Wimmer-Schweingruber (2023), Energy Spectrum of Solar Energetic Electron Events over 25 Years, *Astrophys. J.*, **948**(1), 51, [10.3847/1538-4357/acbea2](https://doi.org/10.3847/1538-4357/acbea2).
- [439] Wang, W., A. F. Battaglia, S. Krucker, and L. Wang (2023), The 2013 November 12 Solar Energetic Electron Event Associated with Solar Jets, *Astrophys. J.*, **950**(2), 118, [10.3847/1538-4357/accc86](https://doi.org/10.3847/1538-4357/accc86).
- [440] Wang, X., J. Lu, M. Wang, Y. Zhou, and Y. Hao (2023), Simultaneous Observation of Magnetopause Expansion Under Radial IMF and Indentation by HSJ, *Geophys. Res. Lett.*, **50**(20), e2023GL105270, [10.1029/2023GL105270](https://doi.org/10.1029/2023GL105270).
- [441] Wang, X., X. Fan, Y. Wang, H. Wu, and L. Zhang (2023), Effect of intermittent structures on the spectral index of the magnetic field in the slow solar wind, *Ann. Geophys.*, **41**(1), 129–145, [10.5194/angeo-41-129-2023](https://doi.org/10.5194/angeo-41-129-2023).
- [442] Wang, X., L. Huang, Y. Wang, and H. Yuan (2023), Influence of Alfvén Ion–Cyclotron Waves on the Anisotropy of Solar Wind Turbulence at Ion Kinetic Scales, *Universe*, **9**(9), 399, [10.3390/universe9090399](https://doi.org/10.3390/universe9090399).
- [443] Wang, X., C. Tang, B. Ni, Z. Su, J. Zhang, J. Chen, and X. Chu (2023), The Evolutions of the Seed and Relativistic Electrons in the Earth’s Outer Radiation Belt During the Geomagnetic Storms: A Statistical Study, *J. Geophys. Res.*, **128**(5), e2023JA031284, [10.1029/2023JA031284](https://doi.org/10.1029/2023JA031284).
- [444] Wang, X.-Y., Q.-H. Zhang, C. Wang, Y.-L. Zhang, B.-B. Tang, Z.-Y. Xing, K. Oksavik, L. R. Lyons, M. Lockwood, Q.-G. Zong, G.-J. Li, J. Liu, Y.-Z. Ma, and Y. Wang (2023), Unusual shrinkage and reshaping of Earth’s magnetosphere under a strong northward interplanetary magnetic field, *Comm. Earth Environ.*, **4**(1), 31, [10.1038/s43247-023-00700-0](https://doi.org/10.1038/s43247-023-00700-0).
- [445] Wang, Y., and G. Qin (2023), The Crucial Role of Perpendicular Diffusion in the Longitude Distribution of >10 MeV Solar Energetic Protons, *Astrophys. J.*, **954**(1), 81, [10.3847/1538-4357/ace35b](https://doi.org/10.3847/1538-4357/ace35b).
- [446] Wang, Y., L. M. Becerra, C. L. Fryer, J. A. Rueda, and R. Ruffini (2023), GRB 171205A: Hypernova and Newborn Neutron Star, *Astrophys. J.*, **945**(2), 95, [10.3847/1538-4357/acb771](https://doi.org/10.3847/1538-4357/acb771).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [447] Wang, Y., Z.-Q. Xia, T.-C. Zheng, J. Ren, and Y.-Z. Fan (2023), A Broken “ $\alpha$ -intensity” Relation Caused by the Evolving Photosphere Emission and the Nature of the Extraordinarily Bright GRB 230307A, *Astrophys. J. Lett.*, **953**(1), L8, [10.3847/2041-8213/ace7d4](https://doi.org/10.3847/2041-8213/ace7d4).
- [448] Wang, Z., S. Zou, H. Sun, and Y. Chen (2023), Forecast Global Ionospheric TEC: Apply Modified U-Net on VISTA TEC Data Set, *Space Weather*, **21**(8), e2023SW003494, [10.1029/2023SW003494](https://doi.org/10.1029/2023SW003494).
- [449] Watari, S., A. Nakamizo, and Y. Ebihara (2023), Solar events and solar wind conditions associated with intense geomagnetic storms, *Earth, Planets and Space*, **75**(1), 90, [10.1186/s40623-023-01843-2](https://doi.org/10.1186/s40623-023-01843-2).
- [450] Wexler, D. B., W. B. Manchester, L. K. Jian, L. B. Wilson, N. Gopalswamy, P. Song, J. E. Kooi, B. van der Holst, and E. A. Jensen (2023), Investigating a Solar Wind Stream Interaction Region using Interplanetary Spacecraft Radio Signals: A Magnetohydrodynamic Simulation Study, *Astrophys. J.*, **955**(2), 90, [10.3847/1538-4357/acedac](https://doi.org/10.3847/1538-4357/acedac).
- [451] Weygand, J. M., M. D. Hartinger, R. J. Strangeway, D. T. Welling, H. Kim, J. Matzka, and C. R. Clauer (2023), Interhemispheric Asymmetry Due To IMF By Within the Cusp Spherical Elementary Currents, *J. Geophys. Res.*, **128**(6), e2023JA031430, [10.1029/2023JA031430](https://doi.org/10.1029/2023JA031430).
- [452] Weygand, J. M., C. M. Ngwira, and R. F. Arritt (2023), The Equatorward Boundary of the Auroral Current System During Magnetic Storms, *J. Geophys. Res.*, **128**(6), e2023JA031510, [10.1029/2023JA031510](https://doi.org/10.1029/2023JA031510).
- [453] Whitman, K., R. Egeland, I. G. Richardson, C. Allison, P. Quinn, J. Barzilla, I. Kitiashvili, V. Sadykov, H. M. Bain, M. Dierckxsens, M. L. Mays, T. Tadesse, K. T. Lee, E. Semones, J. G. Luhmann, M. Núñez, S. M. White, S. W. Kahler, A. G. Ling, D. F. Smart, M. A. Shea, V. Tenishev, S. F. Boubrahimi, B. Aydin, P. Martens, R. Angryk, M. S. Marsh, S. Dalla, N. Crosby, N. A. Schwadron, K. Kozarev, M. Gorby, M. A. Young, M. Laurenza, E. W. Cliver, T. Alberti, M. Stumpo, S. Benella, A. Papaioannou, A. Anastasiadis, I. Sandberg, M. K. Georgoulis, A. Ji, D. Kempton, C. Pandey, G. Li, J. Hu, G. P. Zank, E. Lavasa, G. Giannopoulos, D. Falconer, Y. Kadadi, I. Fernandes, M. A. Dayeh, A. Muñoz-Jaramillo, S. Chatterjee, K. D. Moreland, I. V. Sokolov, I. I. Roussev, A. Taktakishvili, F. Effenberger, T. Gombosi, Z. Huang, L. Zhao, N. Wijsen, A. Aran, S. Poedts, A. Kouloumvakos, M. Paassilta, R. Vainio, A. Belov, E. A. Eroshenko, M. A. Abunina, A. A. Abunin, C. C. Balch, O. Malandraki, M. Karavolos, B. Heber, J. Labrenz, P. Köhl, A. G. Kosovichev, V. Oria, G. M. Nita, E. Illarionov, P. M. O’Keefe, Y. Jiang, S. H. Ferreira, A. Ali, E. Paouris, S. Aminimalragia-Giamini, P. Jiggins, M. Jin, C. O. Lee, E. Palmerio, A. Bruno, S. Kasapis, X. Wang, Y. Chen, B. Sanahuja, D. Lario, C. Jacobs, D. T. Strauss, R. Steyn, J. van den Berg, B. Swalwell, C. Waterfall, M. Nedal, R. Miteva, M. Dechev, P. Zucca, A. Engell, B. Maze, H. Farmer, T. Kerber, B. Barnett, J. Loomis, N. Grey, B. J. Thompson, J. A. Linker, R. M. Caplan, C. Downs, T. Török, R. Lionello, V. Titov, M. Zhang, and P. Hosseinzadeh (2023), Review of Solar Energetic Particle Prediction Models, *Adv. Space Res.*, **72**(12), 5161–5242, [10.1016/j.asr.2022.08.006](https://doi.org/10.1016/j.asr.2022.08.006).

---

### Wind Spacecraft: 2023

#### List of Refereed Publications

## List of Refereed Publications

### Wind Spacecraft: 2023

- [454] Wijsen, N., D. Lario, B. Sánchez-Cano, I. C. Jebaraj, N. Dresing, I. G. Richardson, A. Aran, A. Kouloumvakos, Z. Ding, A. Niemela, E. Palmerio, F. Carcaboso, R. Vainio, A. Afanasiev, M. Pinto, D. Pacheco, S. Poedts, and D. Heyner (2023), The Effect of the Ambient Solar Wind Medium on a CME-driven Shock and the Associated Gradual Solar Energetic Particle Event, *Astrophys. J.*, **950**(2), 172, [10.3847/1538-4357/acd1ed](https://doi.org/10.3847/1538-4357/acd1ed).
- [455] Wilder, F. D., A. King, D. Gove, S. Eriksson, N. Ahmadi, T. L. Workman, R. E. Ergun, J. L. Burch, R. B. Torbert, B. L. Giles, and R. J. Strangeway (2023), The Occurrence and Prevalence of Magnetic Reconnection in the Kelvin-Helmholtz Instability Under Various Solar Wind Conditions, *J. Geophys. Res.*, **128**(10), e2023JA031583, [10.1029/2023JA031583](https://doi.org/10.1029/2023JA031583).
- [456] Wilson, I., Lynn B., C. S. Salem, and J. W. Bonnell (2023), Spacecraft Floating Potential Measurements for the Wind Spacecraft, *Astrophys. J. Suppl.*, **269**(2), 52, [10.3847/1538-4365/ad0633](https://doi.org/10.3847/1538-4365/ad0633).
- [457] Wilson, L. B., 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 (2023), Erratum: “The Statistical Properties of Solar Wind Temperature Parameters Near 1 au” (2018, ApJS, 236, 41), *Astrophys. J. Suppl.*, **269**(2), 62, [10.3847/1538-4365/ad07de](https://doi.org/10.3847/1538-4365/ad07de).
- [458] Wimmer-Schweingruber, R. F., L. Berger, A. Kollhoff, P. Köhl, B. Heber, L. Yang, V. Heidrich-Meisner, A. Klassen, R. Gomez-Herrero, J. Rodriguez-Pacheco, G. C. Ho, G. M. Mason, N. P. Janitzek, A. Kouloumvakos, L. Wang, A. Warmuth, D. Lario, F. Carcaboso, C. J. Owen, R. Bučík, D. Pacheco, O. Malandraki, R. C. Allen, L. Rodriguez, D. Shukhobodskaiia, F. Espinosa Lara, I. Cernuda, S. I. Böttcher, S. Eldrum, S. Fleth, and Z. Xu (2023), Unusually long path length for a nearly scatter-free solar particle event observed by Solar Orbiter at 0.43 au, *Astron. & Astrophys.*, **678**, A98, [10.1051/0004-6361/202346319](https://doi.org/10.1051/0004-6361/202346319).
- [459] Wing, S., J. Berchem, C. P. Escoubet, C. Farrugia, and N. Lugaz (2023), Multispacecraft Observations of the Simultaneous Occurrence of Magnetic Reconnection at High and Low Latitudes During the Passage of a Solar Wind Rotational Discontinuity Embedded in the April 9-11, 2015 ICME, *Geophys. Res. Lett.*, **50**(9), e2023GL103194, [10.1029/2023GL103194](https://doi.org/10.1029/2023GL103194).
- [460] Wrench, D. (2023), reynolds\_scales\_project: v2.0, [10.5281/zenodo.8352767](https://doi.org/10.5281/zenodo.8352767).
- [461] Wu, X., G. Li, L. Zhao, F. Effenberger, L. Wang, and S. Yao (2023), Statistical Study of Release Time and Its Energy Dependence of In Situ Energetic Electrons in Impulsive Solar Flares, *J. Geophys. Res.*, **128**(3), e2022JA030939, [10.1029/2022JA030939](https://doi.org/10.1029/2022JA030939).
- [462] Xiang, L., D. J. Wu, L. Chen, Q. H. Li, G. Q. Zhao, H. Q. Feng, and H. W. Yu (2023), Instabilities Driven by Proton Temperature Anisotropy in the Presence of Alpha Particles: Implications for Proton-temperature-anisotropy Constraint in the Solar Wind, *Astrophys. J.*, **954**(1), 42, [10.3847/1538-4357/ace7c9](https://doi.org/10.3847/1538-4357/ace7c9).



## List of Refereed Publications

### Wind Spacecraft: 2023

- [463] Xiao, Y. C., S. T. Yao, R. L. Guo, Q. Q. Shi, Q. G. Zong, H. Zhang, S. C. Bai, M. Hamrin, T. Pitkänen, A. M. Tian, A. W. Degeling, and J. Liu (2023), Statistical Properties of the Distribution and Generation of Kinetic-Scale Flux Ropes in the Terrestrial Dayside Magnetosheath, *Geophys. Res. Lett.*, **50**(23), e2023GL105469, [10.1029/2023GL105469](https://doi.org/10.1029/2023GL105469).
- [464] Xie, H., N. Gopalswamy, S. Akiyama, S. Yashiro, and P. Makela (2023), Magnetic flux rope structures associated with filament channels: Two case studies, *J. Atmos. Solar-Terr. Phys.*, **252**, 106154, [10.1016/j.jastp.2023.106154](https://doi.org/10.1016/j.jastp.2023.106154).
- [465] Xie, Z.-K., Q. G. Zong, J. Ren, C. Yue, Z.-Y. Liu, J.-J. Liu, Z.-J. Hu, X.-Y. Li, Z.-F. Yin, Y. Yan, L. Li, and J. W. Gjerloev (2023), Global ULF Waves Excited by Solar Wind Dynamic Pressure Impulses: 1. Timescales and Geomagnetic Activity Dependence, *J. Geophys. Res.*, **128**(10), e2023JA031813, [10.1029/2023JA031813](https://doi.org/10.1029/2023JA031813).
- [466] Xie, Z.-K., Q. G. Zong, J. Ren, C. Yue, Z.-Y. Liu, J.-J. Liu, Z.-J. Hu, X.-Y. Li, Y. Yan, Z.-F. Yin, L. Li, and J. W. Gjerloev (2023), Global ULF Waves Excited by Solar Wind Dynamic Pressure Impulses: 2. The Spatial Distribution Asymmetry, *J. Geophys. Res.*, **128**(10), e2023JA031826, [10.1029/2023JA031826](https://doi.org/10.1029/2023JA031826).
- [467] Xu, S.-G., C. Yue, Q.-G. Zong, X.-Z. Zhou, and S.-y. Fu (2023), Solar Wind Energy Budget Dilemma During Substorms Induced by Interplanetary Shocks, *J. Geophys. Res.*, **128**(8), e2022JA031192, [10.1029/2022JA031192](https://doi.org/10.1029/2022JA031192).
- [468] Xue, Z., Z. Yuan, X. Yu, Z. Huang, and D. Deng (2023), Enhanced Solar Wind Dynamic Pressure as a Driver of Low-Energy Proton Temperature Anisotropies and High-Frequency EMIC Waves, *J. Geophys. Res.*, **128**(9), e2023JA031929, [10.1029/2023JA031929](https://doi.org/10.1029/2023JA031929).
- [469] Yadav, S., L. R. Lyons, Y. Nishimura, J. M. Weygand, J. Liu, S.-R. Zhang, S. Tian, Y. Zou, and E. F. Donovan (2023), Association of Equatorward Extended Auroral Streamers With Overshielding Conditions at Equatorial Latitudes: First Observations, *J. Geophys. Res.*, **128**(11), e2023JA031726, [10.1029/2023JA031726](https://doi.org/10.1029/2023JA031726).
- [470] Yan, F., Z. Wu, Z. Shang, B. Wang, L. Zhang, and Y. Chen (2023), The First Flare Observation with a New Solar Microwave Spectrometer Working in 35-40 GHz, *Astrophys. J. Lett.*, **942**(1), L11, [10.3847/2041-8213/acad02](https://doi.org/10.3847/2041-8213/acad02).
- [471] Yan, Y., C. Yue, Q. Ma, X.-Z. Zhou, Q.-G. Zong, H. Fu, Z.-K. Xie, Z.-F. Yin, and Y.-X. Li (2023), Prompt Appearance of Large-Amplitude EMIC Waves Induced by Solar Wind Dynamic Pressure Enhancement and the Subsequent Relativistic Electron Precipitation, *J. Geophys. Res.*, **128**(7), e2023JA031399, [10.1029/2023JA031399](https://doi.org/10.1029/2023JA031399).
- [472] Yan, Y., C. Yue, Z.-F. Yin, X.-Z. Zhou, Q.-G. Zong, and J.-H. Li (2023), Amplitude-Dependent Properties and Excitation Mechanisms of EMIC Waves in the Earth's Inner Magnetosphere, *J. Geophys. Res.*, **128**(7), e2023JA031451, [10.1029/2023JA031451](https://doi.org/10.1029/2023JA031451).
- [473] Yang, H.-F., G.-Q. Zhao, H.-Q. Feng, G. Pi, Q. Liu, L. Xiang, Q.-H. Li, and D.-Y. Ren (2023), Observation of Small-amplitude Electromagnetic Cyclotron Waves in the Solar Wind, *Res. Astron. Astrophys.*, **23**(4), 045009, [10.1088/1674-4527/acc156](https://doi.org/10.1088/1674-4527/acc156).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [474] Yang, L., C. Hou, X. Feng, J. He, M. Xiong, M. Zhang, Y. Zhou, F. Shen, X. Zhao, H. Li, Y. Yang, and X. Liu (2023), Global Morphology Distortion of the 2021 October 9 Coronal Mass Ejection from an Ellipsoid to a Concave Shape, *Astrophys. J.*, **942**(2), 65, [10.3847/1538-4357/aca52d](https://doi.org/10.3847/1538-4357/aca52d).
- [475] Yang, Z., Y. T. J. Morton, and Y. Liu (2023), Time Lags Between Ionospheric Scintillation Detection at Northern Auroral Latitudes and Onset of Geomagnetic Storms, *J. Geophys. Res.*, **128**(11), e2023JA031491, [10.1029/2023JA031491](https://doi.org/10.1029/2023JA031491).
- [476] Yermolaev, Y., I. Lodkina, A. Khokhlachev, M. Yermolaev, M. Riazantseva, L. Rakhmanova, N. Borodkova, O. Sapunova, and A. Moskaleva (2023), Solar wind parameters in rising phase of solar cycle 25: Similarities and differences with solar cycles 23 and 24, *Solar-Terr. Phys.*, **9**(4), 55–62, [10.12737/stp-94202307](https://doi.org/10.12737/stp-94202307).
- [477] Yin, Z.-F., X.-Z. Zhou, Z.-J. Hu, Q.-G. Zong, J.-J. Liu, C. Yue, S. Wang, X.-X. Zhao, H.-G. Yang, and B. Li (2023), Multi-Band Periodic Poleward-Moving Auroral Arcs at the Postdawn Sector: A Case Study, *J. Geophys. Res.*, **128**(9), e2023JA031516, [10.1029/2023JA031516](https://doi.org/10.1029/2023JA031516).
- [478] Yogesh, D. Chakrabarty, and N. Srivastava (2023), New insights on the behaviour of solar wind protons and alphas in the stream interaction region in solar cycle 23 and 24, *Mon. Not. Roy. Astron. Soc.*, **526**(1), L13–L19, [10.1093/mnras/slad112](https://doi.org/10.1093/mnras/slad112).
- [479] Yoshida, M., T. Shimizu, and S. Toriumi (2023), Which Component of Solar Magnetic Field Drives the Evolution of Interplanetary Magnetic Field over the Solar Cycle?, *Astrophys. J.*, **950**(2), 156, [10.3847/1538-4357/acd053](https://doi.org/10.3847/1538-4357/acd053).
- [480] Yu, Y., H. S. Fu, and Z. Wang (2023), Dipolarization Fronts in Cold-Dense and Hot-Tenuous Plasma Sheet Conditions: A Comparative Study, *J. Geophys. Res.*, **128**(2), e2022JA031141, [10.1029/2022JA031141](https://doi.org/10.1029/2022JA031141).
- [481] Yushkov, B. Y., V. G. Kurt, and V. I. Galkin (2023), High-Energy Emissions Observed in the Impulsive Phase of the 2001 August 25 Eruptive Flare, *Solar Phys.*, **298**(2), 31, [10.1007/s11207-023-02123-8](https://doi.org/10.1007/s11207-023-02123-8).
- [482] Zank, G. P., L. L. Zhao, L. Adhikari, M. Nakanotani, A. Pitňa, D. Telloni, and H. Che (2023), Linear Mode Decomposition in Magnetohydrodynamics Revisited, *Astrophys. J. Suppl.*, **268**(1), 18, [10.3847/1538-4365/acdf5d](https://doi.org/10.3847/1538-4365/acdf5d).
- [483] Zeldovich, M. A., and Y. I. Logachev (2023), Energy Spectra of  $^3\text{He}$ ,  $^4\text{He}$ , C, O, and Fe Suprathermal Ions per 1 AU in Particle Flows from Coronal Holes in the 23rd and 24th Solar Cycles, *Cosmic Res.*, **61**(1), 1–7, [10.1134/S0010952523010069](https://doi.org/10.1134/S0010952523010069).
- [484] Zeng, X. Y., S. Y. Ma, L. Xu, P. Valek, H. Wang, C. Xiong, and H. T. Cai (2023), Global 3-D Distributions of  $\text{O}^+$  and  $\text{H}^+$  Ions in the Inner Magnetosphere Reconstructed by Voxel Tomography From TWINS ENA Images During a Large Magnetic Storm, *J. Geophys. Res.*, **128**(7), e2023JA031442, [10.1029/2023JA031442](https://doi.org/10.1029/2023JA031442).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [485] Zhang, B. T., K. Murase, K. Ioka, D. Song, C. Yuan, and P. Mészáros (2023), External Inverse-compton and Proton Synchrotron Emission from the Reverse Shock as the Origin of VHE Gamma Rays from the Hyper-bright GRB 221009A, *Astrophys. J. Lett.*, **947**(1), L14, [10.3847/2041-8213/acc79f](https://doi.org/10.3847/2041-8213/acc79f).
- [486] Zhang, D., W. Liu, Z. Zhang, X. Li, T. E. Sarris, J. Goldstein, and R. Dmitry (2023), Cavity Mode Wave Frequency Variation Associated With Inward Motion of the Magnetopause During Interplanetary Shock Compression, *J. Geophys. Res.*, **128**(3), e2023JA031299, [10.1029/2023JA031299](https://doi.org/10.1029/2023JA031299).
- [487] Zhang, H., F. Shen, and Y. Yang (2023), Research on the Effect of Data Assimilation for Three-Dimensional MHD Simulation of Solar Wind, *Space Weather*, **21**(7), e2023SW003429, [10.1029/2023SW003429](https://doi.org/10.1029/2023SW003429).
- [488] Zhang, M., X. Feng, L. Yang, and X. Liu (2023), A Data-constrained Scheme for the Reconstruction of Solar Wind Parameters in the Inner Heliosphere, *Astrophys. J. Suppl.*, **264**(2), 36, [10.3847/1538-4365/acaddc](https://doi.org/10.3847/1538-4365/acaddc).
- [489] Zhang, S.-R., Y. Nishimura, J. Vierinen, L. R. Lyons, D. J. Knipp, B. J. Gustavsson, B. V. Waghule, P. J. Erickson, A. J. Coster, E. Aa, and A. Spicher (2023), Simultaneous Global Ionospheric Disturbances Associated With Penetration Electric Fields During Intense and Minor Solar and Geomagnetic Disturbances, *Geophys. Res. Lett.*, **50**(19), e2023GL104250, [10.1029/2023GL104250](https://doi.org/10.1029/2023GL104250).
- [490] Zhang, Y., T. Sun, J. A. Carter, S. Sembay, D. Koutroumpa, L. Ji, W. Liu, and C. Wang (2023), Dynamical Response of Solar Wind Charge Exchange Soft X-Ray Emission in Earth's Magnetosphere to the Solar Wind Proton Flux, *Astrophys. J.*, **948**(1), 69, [10.3847/1538-4357/acc326](https://doi.org/10.3847/1538-4357/acc326).
- [491] Zhang, Y., S. Musset, L. Glesener, N. K. Panesar, and G. D. Fleishman (2023), Observations of Magnetic Reconnection and Particle Acceleration Locations in Solar Coronal Jets, *Astrophys. J.*, **943**(2), 180, [10.3847/1538-4357/aca654](https://doi.org/10.3847/1538-4357/aca654).
- [492] Zhang, Z., C. Shen, Y. Chi, D. Mao, J. Liu, M. Xu, Z. Zhong, C. Wang, and Y. Wang (2023), Comparison of I-ICME and M-ICME Fittings and In Situ Observation Parameters for Solar Cycles 23 and 24 and Their Influence on Geoeffectiveness, *Solar Phys.*, **298**(11), 138, [10.1007/s11207-023-02225-3](https://doi.org/10.1007/s11207-023-02225-3).
- [493] Zhao, D., J. Guo, Y. Hong, W. Meng, H. Huang, H. Lin, X. Wang, Y. Chen, L. He, Y. Wei, and L. Liu (2023), Solar wind dynamic pressure enhancements in upstream region near Mars, *Icarus*, **406**, 115730, [10.1016/j.icarus.2023.115730](https://doi.org/10.1016/j.icarus.2023.115730).
- [494] Zhao, D., J. Guo, H. Lin, C. Mazelle, L. He, W. Meng, Y. Chen, L. Kong, Y. Wei, and L. Liu (2023), Upstream Proton Cyclotron Waves at Mars During the Passage of ICMEs, *J. Geophys. Res.*, **128**(5), e2023JE007757, [10.1029/2023JE007757](https://doi.org/10.1029/2023JE007757).
- [495] Zhao, H., Y. Liu, H. Yang, Q. Zong, Z. Hu, X. Zhou, Y. Wang, J. Sun, and B. Li (2023), Equatorward Moving Auroral Arcs Associated with Impulse-Excited Field Line Resonance, *Universe*, **9**(6), 249, [10.3390/universe9060249](https://doi.org/10.3390/universe9060249).

---

### Wind Spacecraft: 2023

*List of Refereed Publications*

## List of Refereed Publications

### Wind Spacecraft: 2023

- [496] Zhao, H., Y. Liu, Q. Zong, H. Yang, Z. Hu, X. Zhou, and J. Sun (2023), Poleward-Moving Black Aurora Associated with Impulse-Excited Field-Line Resonances in the Dawnside Sector: THEMIS and Ground Observations, *Universe*, **9**(6), 250, [10.3390/universe9060250](https://doi.org/10.3390/universe9060250).
- [497] Zhao, J., X. Feng, C. Xiang, and C. Jiang (2023), A mutually embedded perception model for solar corona, *Mon. Not. Roy. Astron. Soc.*, **523**(1), 1577–1590, [10.1093/mnras/stad1516](https://doi.org/10.1093/mnras/stad1516).
- [498] Zhao, L. L., G. P. Zank, M. Nakanotani, and L. Adhikari (2023), Observations of Waves and Structures by Frequency-Wavenumber Spectrum in Solar Wind Turbulence, *Astrophys. J.*, **944**(1), 98, [10.3847/1538-4357/acb33b](https://doi.org/10.3847/1538-4357/acb33b).
- [499] Zhao, X. X., Q. G. Zong, J. J. Liu, C. Yue, X. Z. Zhou, Z. J. Hu, H. Q. Hu, and Z. Y. Liu (2023), A Conjunction of Pc5 ULF Waves From Spaceborne and Ground-Based Observations, *J. Geophys. Res.*, **128**(9), e2023JA031497, [10.1029/2023JA031497](https://doi.org/10.1029/2023JA031497).
- [500] Zheng, R., Y. Wang, X. Li, C. Wang, and X. Jia (2023), Statistical study of the Jovian decametric radio emissions based on multiple-view observations from remote radio instruments, *Astron. & Astrophys.*, **673**, A106, [10.1051/0004-6361/202244121](https://doi.org/10.1051/0004-6361/202244121).
- [501] Zhou, Y.-J., F. He, X.-X. Zhang, M. O. Archer, Y. Lin, H. Ma, A.-M. Tian, Z.-H. Yao, Y. Wei, B. Ni, W. Liu, Q.-G. Zong, and Z.-Y. Pu (2023), A Radial Standing Pc5-6 Wave and Its Energy Coupling With Field Line Resonance Within the Dusk-Sector Magnetosphere, *J. Geophys. Res.*, **128**(10), e2023JA031835, [10.1029/2023JA031835](https://doi.org/10.1029/2023JA031835).
- [502] Zhu, S.-Y., Z.-Y. Liu, Y.-R. Shi, X.-K. Ding, W.-P. Sun, and F.-W. Zhang (2023), The Intrinsic Statistical Properties and Correlations of Short Gamma-Ray Bursts, *Astrophys. J.*, **950**(1), 30, [10.3847/1538-4357/acc83b](https://doi.org/10.3847/1538-4357/acc83b).
- [503] Zhu, X., D. Verscharen, J. He, B. A. Maruca, and C. J. Owen (2023), Regulation of Proton- $\alpha$  Differential Flow by Compressive Fluctuations and Ion-scale Instabilities in the Solar Wind, *Astrophys. J.*, **956**(1), 66, [10.3847/1538-4357/aced03](https://doi.org/10.3847/1538-4357/aced03).
- [504] Zhu, Z., O. E. Kovács, A. Simionescu, and N. Werner (2023), Investigating the outskirts of Abell 133 with Suzaku and Chandra observations, *Astron. & Astrophys.*, **678**, A122, [10.1051/0004-6361/202347191](https://doi.org/10.1051/0004-6361/202347191).
- [505] Zhu, Z.-P., D. Xu, J. P. U. Fynbo, S.-Y. Fu, J.-B. Zhang, X. Liu, S.-Q. Jiang, S. Xiao, W. Xie, Y.-C. Zou, H. Gao, D. Hartmann, A. de Ugarte Postigo, D. A. Kann, M. Della Valle, P. Jakobsson, T. Zafar, V. D’Elia, L.-P. Xin, J.-Y. Wei, X. Gao, J.-Z. Liu, T.-H. Lu, and W.-H. Lei (2023), Photometric and Spectroscopic Observations of GRB 190106A: Emission from Reverse and Forward Shocks with Late-time Energy Injection, *Astrophys. J.*, **948**(1), 30, [10.3847/1538-4357/acbd96](https://doi.org/10.3847/1538-4357/acbd96).