

List of Refereed Publications
Wind Spacecraft: 2024

References

- [1] Abac, A. G., R. Abbott, I. Abouelfettouh, F. Acernese, K. Ackley, S. Adhicary, N. Adhikari, R. X. Adhikari, V. K. Adkins, D. Agarwal, M. Agathos, M. Aghaei Abchouyeh, O. D. Aguiar, I. Aguilar, L. Aiello, A. Ain, P. Ajith, T. Akutsu, S. Albanesi, R. A. Alfaidi, A. Al-Jodah, C. Alléné, A. Allocca, S. Al-Shammari, P. A. Altin, S. Alvarez-Lopez, A. Amato, L. Amez-Droz, A. Amorosi, C. Amra, A. Ananyeva, S. B. Anderson, W. G. Anderson, M. Andia, M. Ando, T. Andrade, N. Andres, M. Andrés-Carcasona, T. Andrić, J. Anglin, S. Ansoldi, J. M. Antelis, S. Antier, M. Aoumi, E. Z. Appavuravther, S. Appert, S. K. Apple, K. Arai, A. Araya, M. C. Araya, J. S. Areeda, L. Argianas, N. Aritomi, F. Armato, N. Arnaud, M. Arogeti, S. M. Aronson, G. Ashton, Y. Aso, M. Assiduo, S. Assis de Souza Melo, S. M. Aston, P. Astone, F. Attadio, F. Aubin, K. Aultoneal, G. Avallone, D. Azrad, S. Babak, F. Badaracco, C. Badger, S. Bae, S. Bag-nasco, E. Bagui, J. G. Baier, L. Baiotti, R. Bajpai, T. Baka, M. Ball, G. Ballardin, S. W. Ballmer, S. Banagiri, B. Banerjee, D. Bankar, P. Baral, J. C. Barayoga, B. C. Barish, D. Barker, P. Barneo, F. Barone, B. Barr, L. Barsotti, M. Barsuglia, D. Barta, A. M. Bartoletti, M. A. Barton, I. Bartos, S. Basak, A. Basalaev, R. Bassiri, A. Basti, D. E. Bates, M. Bawaj, P. Baxi, J. C. Bayley, A. C. Baylor, P. A. Baynard, II, M. Bazzan, V. M. Bedakihale, F. Beirnaert, M. Bejger, D. Belardinelli, A. S. Bell, V. Benedetto, W. Benoit, J. D. Bentley, M. Ben Yaala, S. Bera, M. Berbel, F. Bergamin, B. K. Berger, S. Bernuzzi, M. Beroiz, D. Bersanetti, A. Bertolini, J. Betzwieser, D. Beveridge, N. Bevins, R. Bhandare, U. Bhardwaj, R. Bhatt, D. Bhattacharjee, S. Bhaumik, S. Bhowmick, A. Bianchi, I. A. Bilenko, G. Billingsley, A. Binetti, S. Bini, O. Birnholtz, S. Biscoveanu, A. Bisht, M. Bitossi, M. A. Bizouard, J. K. Blackburn, L. A. Blagg, C. D. Blair, D. G. Blair, F. Bobba, N. Bode, G. Boileau, M. Boldrini, G. N. Bolingbroke, A. Boliand, L. D. Bonavena, R. Bondarescu, F. Bondu, E. Bonilla, M. S. Bonilla, A. Bonino, R. Bonnand, P. Booker, A. Borchers, V. Boschi, S. Bose, V. Bossilkov, V. Boudart, A. Boudon, A. Bozzi, C. Bradaschia, P. R. Brady, M. Braglia, A. Branch, M. Branchesi, J. Brandt, I. Braun, M. Breschi, T. Briant, A. Brillet, M. Brinkmann, P. Brockill, E. Brockmueller, A. F. Brooks, B. C. Brown, D. D. Brown, M. L. Brozzetti, S. Brunett, G. Bruno, R. Bruntz, J. Bryant, F. Bucci, J. Buchanan, O. Bulashenko, T. Bulik, H. J. Bulten, A. Buonanno, K. Burtnyk, R. Buscicchio, D. Buskulic, and C. Buy (2024), A Search Using GEO600 for Gravitational Waves Coincident with Fast Radio Bursts from SGR 1935+2154, *Astrophys. J.*, **977**(2), 255, [10.3847/1538-4357/ad8de0](https://doi.org/10.3847/1538-4357/ad8de0).
- [2] Abbasi, R., M. Ackermann, J. Adams, S. K. Agarwalla, J. A. Aguilar, M. Ahlers, J. M. Alameddine, N. M. Amin, K. Andeen, G. Anton, C. Argüelles, Y. Ashida, S. Athanasiadou, L. Ausborm, S. N. Axani, X. Bai, V. A. Balagopal, M. Baricevic, S. W. Barwick, V. Basu, R. Bay, J. J. Beatty, J. Becker Tjus, J. Beise, C. Bellenghi, C. Benning, S. Ben-Zvi, D. Berley, E. Bernardini, D. Z. Besson, E. Blaufuss, S. Blot, F. Bontempo, J. Y. Book, C. Boscolo Meneguolo, S. Böser, O. Botner, J. Böttcher, J. Braun, B. Brinson, J. Brostean-Kaiser, L. Brusa, R. T. Burley, R. S. Busse, D. Butterfield, M. A. Campana, K. Carloni, E. G. Carnie-Bronca, S. Chattopadhyay, N. Chau, C. Chen, Z. Chen, D. Chirkin, S. Choi, B. A. Clark, A. Coleman, G. H. Collin, A. Connolly, J. M. Conrad, P. Coppin, P. Correa, D. F. Cowen, P. Dave, C. De Clercq, J. J. DeLaunay, D. Delgado, S. Deng, K. Deoskar, A. Desai, P. Desiati, K. D. de Vries, G. de Wasseige, T. DeY-

List of Refereed Publications
Wind Spacecraft: 2024

oung, A. Diaz, J. C. Díaz-Vélez, M. Dittmer, A. Domi, H. Dujmovic, M. A. DuVernois, T. Ehrhardt, A. Eimer, P. Eller, E. Ellinger, S. El Mentawi, D. Elsässer, R. Engel, H. Erpenbeck, J. Evans, P. A. Evenson, K. L. Fan, K. Fang, K. Farrag, A. R. Fazely, A. Fedynitch, N. Feigl, S. Fiedlschuster, C. Finley, L. Fischer, D. Fox, A. Franckowiak, P. Fürst, J. Gallagher, E. Ganster, A. Garcia, L. Gerhardt, A. Ghadimi, C. Glaser, T. Glauch, T. Glüsenkamp, J. G. Gonzalez, D. Grant, S. J. Gray, O. Gries, S. Griffin, S. Griswold, K. M. Groth, C. Günther, P. Gutjahr, C. Ha, C. Haack, A. Hallgren, R. Halliday, L. Halve, F. Halzen, H. Hamdaoui, M. Ha Minh, M. Handt, K. Hanson, J. Hardin, A. A. Harnisch, P. Hatch, A. Haungs, J. Häußler, K. Helbing, J. Hellrung, J. Hermannsgabner, L. Heuermann, N. Heyer, S. Hickford, A. Hidvegi, C. Hill, G. C. Hill, K. D. Hoffman, S. Hori, K. Hoshina, W. Hou, T. Huber, K. Hultqvist, M. Hünnefeld, R. Hussain, K. Hymon, S. In, A. Ishihara, M. Jacquart, O. Janik, M. Jansson, G. S. Japaridze, M. Jeong, M. Jin, B. J. P. Jones, N. Kamp, D. Kang, W. Kang, X. Kang, A. Kappes, D. Kappesser, L. Kardum, T. Karg, M. Karl, A. Karle, A. Katil, U. Katz, M. Kauer, J. L. Kelley, A. Khatee Zathul, A. Kheirandish, J. Kiryluk, S. R. Klein, A. Kochocki, R. Koirala, H. Kolanoski, T. Kontrimas, L. Köpke, C. Kopper, D. J. Koskinen, P. Koundal, M. Kovacevich, M. Kowalski, T. Kozynets, J. Krishnamoorthi, K. Kruiswijk, E. Krupczak, A. Kumar, E. Kun, N. Ku-rashashi, N. Lad, C. Lagunas Gualda, M. Lamoureux, M. J. Larson, and S. Latseva (2024), Search for 10–1000 GeV Neutrinos from Gamma-Ray Bursts with IceCube, *Astrophys. J.*, **964**(2), 126, [10.3847/1538-4357/ad220b](https://doi.org/10.3847/1538-4357/ad220b).

- [3] Abdullaah, Y., K. A. Alabdai, J. T. L. Wang, H. Wang, V. K. Jordanova, V. Yurchyshyn, H. Cavus, and J. Jing (2024), Prediction of the SYM-H Index Using a Bayesian Deep Learning Method With Uncertainty Quantification, *Space Weather*, **22**(2), e2023SW003824, [10.1029/2023SW003824](https://doi.org/10.1029/2023SW003824).
- [4] Agarwal, A., and W. Mishra (2024), Non-conventional approach for deriving the radial sizes of coronal mass ejections at different instances: discrepancies in the estimates between remote and in situ observations, *Mon. Not. Roy. Astron. Soc.*, **534**(3), 2458–2474, [10.1093/mnras/stae2260](https://doi.org/10.1093/mnras/stae2260).
- [5] Aguilar-Rodriguez, E., A. Vourlidas, P. Corona-Romero, C. Monstein, W. D. Reeve, E. Romero-Hernandez, E. Andrade-Mascote, P. Villanueva-Hernandez, I. A. Peralta-Mendoza, J. E. Perez-Leon, and E. Perez-Tijerina (2024), Radio Signature of the Strong Compression between a Streamer and a Coronal Hole Boundary, *Astrophys. J. Lett.*, **970**(2), L35, [10.3847/2041-8213/ad631b](https://doi.org/10.3847/2041-8213/ad631b).
- [6] Ahmed, O., B. Badruddin, and M. Derouich (2024), Characteristics and development of the main phase disturbance in geomagnetic storms ($Dst \leq -50$ nT), *Adv. Space Res.*, **73**(9), 4453–4481, [10.1016/j.asr.2024.01.050](https://doi.org/10.1016/j.asr.2024.01.050).
- [7] Ahmed, O., B. Badruddin, and M. Derouich (2024), Dynamics and solar wind control of the recovery of strong geomagnetic storms, *Astrophys. Space Sci.*, **369**(7), 64, [10.1007/s10509-024-04325-3](https://doi.org/10.1007/s10509-024-04325-3).
- [8] Al-Hamadani, F., and A. Al-Sawad (2024), Tracing shock waves: type II radio emission on 27th of September 2001, *Astrophys. Space Sci.*, **369**(7), 70, [10.1007/s10509-024-04328-0](https://doi.org/10.1007/s10509-024-04328-0).

List of Refereed Publications
Wind Spacecraft: 2024

- [9] Al Shidi, Q., T. I. Pulkkinen, D. Welling, and G. Toth (2024), Accuracy of Global Geospace Simulations: Influence of Solar Wind Monitor Location and Solar Wind Driving, *Space Weather*, **22**(4), e2023SW003747, [10.1029/2023SW003747](https://doi.org/10.1029/2023SW003747).
- [10] Ala-Lahti, M., T. I. Pulkkinen, A. Brenner, T. Keebler, Q. Al Shidi, S. Hill, and D. Welling (2024), The Impact of Solar Wind Magnetic Field Fluctuations on the Magnetospheric Energetics, *Geophys. Res. Lett.*, **51**(24), 2024GL112,922, [10.1029/2024GL112922](https://doi.org/10.1029/2024GL112922).
- [11] Aldowma, T., and S. Razzaque (2024), Deep Neural Networks for estimation of gamma-ray burst redshifts, *Mon. Not. Roy. Astron. Soc.*, **529**(3), 2676–2685, [10.1093/mnras/stae535](https://doi.org/10.1093/mnras/stae535).
- [12] Alissandrakis, C. E., G. D. Fleishman, V. V. Fedenev, S. M. White, and A. T. Altyntsev (2024), Giant Postflare Loops in Active Regions with an Extremely Strong Coronal Magnetic Field, *Astrophys. J.*, **971**(2), 122, [10.3847/1538-4357/ad5831](https://doi.org/10.3847/1538-4357/ad5831).
- [13] Alqeeq, S. W., D. Fontaine, O. Le Contel, M. Akhavan Tafti, E. Cazzola, T. Atilaw, V. Angelopoulos, and H. U. Auster (2024), Global Compression of the Plasma Sheet and Magnetotail During Intense Storms From THEMIS Observations, *J. Geophys. Res.*, **129**(9), e2024JA032888, [10.1029/2024JA032888](https://doi.org/10.1029/2024JA032888).
- [14] Amano, T., M. Masuda, M. Oka, N. Kitamura, O. Le Contel, and D. J. Gershman (2024), Statistical analysis of high-frequency whistler waves at Earth's bow shock: Further support for stochastic shock drift acceleration, *Physics of Plasmas*, **31**(4), 042903, [10.1063/5.0196502](https://doi.org/10.1063/5.0196502).
- [15] Ameri, D., E. Valtonen, A. Al-Sawad, and R. Vainio (2024), Characterizing High-Energy Solar Proton Events with Energies Below and Above 100 MeV, *Solar Phys.*, **299**(9), 133, [10.1007/s11207-024-02378-9](https://doi.org/10.1007/s11207-024-02378-9).
- [16] Anand, S., J. Barnes, S. Yang, M. M. Kasliwal, M. W. Coughlin, J. Sollerman, K. De, C. Fremling, A. Corsi, A. Y. Q. Ho, A. Balasubramanian, C. Omand, G. P. Srinivasaragavan, S. B. Cenko, T. Ahumada, I. Andreoni, A. Dahiwale, K. K. Das, J. Jencson, V. Karambelkar, H. Kumar, B. D. Metzger, D. Perley, N. Sarin, T. Schweyer, S. Schulze, Y. Sharma, T. Sit, R. Stein, L. Tartaglia, S. Tinyanont, A. Tzanidakis, J. van Roestel, Y. Yao, J. S. Bloom, D. O. Cook, R. Dekany, M. J. Graham, S. L. Groom, D. L. Kaplan, F. J. Masci, M. S. Medford, R. Riddle, and C. Zhang (2024), Collapsars as Sites of r-process Nucleosynthesis: Systematic Photometric Near-infrared Follow-up of Type Ic-BL Supernovae, *Astrophys. J.*, **962**(1), 68, [10.3847/1538-4357/ad11df](https://doi.org/10.3847/1538-4357/ad11df).
- [17] Anderson, P. C., and A. L. Bukowski (2024), Magnetic Local Time and Interplanetary Magnetic Field B_y Variation of Cusp Location Dependence on Dipole Tilt, *J. Geophys. Res.*, **129**(2), e2023JA031886, [10.1029/2023JA031886](https://doi.org/10.1029/2023JA031886).
- [18] Angulo-Valdez, C., R. L. Becerra, M. Pereyra, K. Garcia-Cifuentes, F. Vargas, A. M. Watson, F. De Colle, N. Fraija, N. R. Butler, M. G. Dainotti, S. Dichiara, W. H. Lee, E. Troja, J. S. Bloom, J. J. González, A. S. Kutyrev, J. X. Prochaska, E. Ramirez-Ruiz, and M. G. Richer (2024), Machine-learning enhanced photometric analysis of the extremely

List of Refereed Publications
Wind Spacecraft: 2024

bright GRB 210822A, *Mon. Not. Roy. Astron. Soc.*, **527**(3), 8140–8150, [10.1093/mnras/stad3624](https://doi.org/10.1093/mnras/stad3624).

- [19] Ansari, K., S. Kumar Panda, V. Kavutarapu, and P. Jamjareegulgarn (2024), Towards mitigating the effect of plasma bubbles on GPS positioning accuracy through wavelet transformation over Southeast Asian region, *Adv. Space Res.*, **73**(7), 3642–3657, [10.1016/j.asr.2023.04.041](https://doi.org/10.1016/j.asr.2023.04.041).
- [20] Antonov, J. A., V. I. Zakharov, I. N. Myagkova, N. A. Suhareva, and J. S. Shugai (2024), Structure and Dynamics for Graphs of Interplanetary Magnetic Field Vectors, *Cosmic Res.*, **62**(2), 147–161, [10.1134/S0010952523600336](https://doi.org/10.1134/S0010952523600336).
- [21] Aol, S., V. Habyarimana, P. Mungufeni, S. C. Buchert, and J. B. Habarulema (2024), Ground and Space-based response of the ionosphere during the geomagnetic storm of 02-06 November 2021 over the low-latitudes across different longitudes, *Adv. Space Res.*, **73**(6), 3014–3032, [10.1016/j.asr.2023.12.032](https://doi.org/10.1016/j.asr.2023.12.032).
- [22] Arenberg, J. W., L. K. Harding, B. Chang, S. Kuehn, D. Oberg, M. N. Villarreal, A. L. Palisoc, C. K. Walker, D. Kim, Z. Lung, and D. Lung (2024), Design, implementation, and performance of the primary reflector for SALTUS, *J. Astron. Telesc. Instr. Syst.*, **10**, 042306, [10.1111/1.JATIS.10.4.042306](https://doi.org/10.1111/1.JATIS.10.4.042306).
- [23] Arge, C. N., A. Leisner, S. K. Antiochos, S. Wallace, and C. J. Henney (2024), Proposed Resolution to the Solar Open Magnetic Flux Problem, *Astrophys. J.*, **964**(2), 115, [10.3847/1538-4357/ad20e2](https://doi.org/10.3847/1538-4357/ad20e2).
- [24] Ashna, V. M., A. Bhaskar, G. Manju, and R. Sini (2024), Solar Wind-Magnetosphere Coupling Efficiency and Its Dependence on Solar Activity During Geomagnetic Storms of 23-24 Solar Cycles, *J. Geophys. Res.*, **129**(8), e2023JA031687, [10.1029/2023JA031687](https://doi.org/10.1029/2023JA031687).
- [25] Atilaw, T. Y., M. Akhavan-Tafti, Q. Al Shidi, T. I. Pulkkinen, D. Fontaine, O. Le Contel, J. A. Slavin, G. Le, L. J. Chen, P. H. Reiff, and S. W. Alqeeq (2024), Magnetospheric Time-History in Storm-Time Magnetic Flux Dynamics: A Global Simulation Campaign, *J. Geophys. Res.*, **129**(5), e2023JA031997, [10.1029/2023JA031997](https://doi.org/10.1029/2023JA031997).
- [26] Baalmann, L. R., S. Hunziker, A. Péronne, J. W. Kirchner, K. H. Glassmeier, D. M. Malaspina, L. B. Wilson, III, C. Strähl, S. Chadda, and V. J. Sterken (2024), A solar rotation signature in cosmic dust: Frequency analysis of dust particle impacts on the Wind spacecraft, *Astron. & Astrophys.*, **689**, A329, [10.1051/0004-6361/202450069](https://doi.org/10.1051/0004-6361/202450069).
- [27] Babu, S. S., I. R. Mann, S. Dimitrakoudis, L. G. Ozeke, I. J. Rae, C. Forsyth, and A. W. Smith (2024), Evolution of Energetic Proton Parallel Pressure Anisotropy at Geosynchronous Altitudes: Potential Role in Triggering Substorm Expansion Phase Onset, *Geophys. Res. Lett.*, **51**(12), e2023GL105660, [10.1029/2023GL105660](https://doi.org/10.1029/2023GL105660).
- [28] Babu, S. S., I. R. Mann, E. F. Donovan, A. W. Smith, S. Dimitrakoudis, R. D. Sydora, and A. Kale (2024), Plasma Sheet Counterparts for Auroral Beads and Vortices in Advance of Fast Flows: New Evidence for Near-Earth Substorm Onset, *J. Geophys. Res.*, **129**(6), e2023JA031957, [10.1029/2023JA031957](https://doi.org/10.1029/2023JA031957).

List of Refereed Publications
Wind Spacecraft: 2024

- [29] Bag, T., and Y. Ogawa (2024), Impact of interplanetary shock on nitric oxide cooling emission: A superposed epoch study, *Adv. Space Res.*, **74**(11), 6012–6019, [10.1016/j.asr.2024.08.005](https://doi.org/10.1016/j.asr.2024.08.005).
- [30] Bag, T., and Y. Ogawa (2024), Response Time of Joule Heating Rate and Nitric Oxide Cooling Emission During Geomagnetic Storms: Correlated Ground-Based and Satellite Observations, *J. Geophys. Res.*, **129**(2), e2023JA032072, [10.1029/2023JA032072](https://doi.org/10.1029/2023JA032072).
- [31] Bag, T., and Y. Ogawa (2024), Enhanced response of thermospheric cooling emission to negative pressure pulse, *Sci. Rep.*, **14**, 9647, [10.1038/s41598-024-60471-2](https://doi.org/10.1038/s41598-024-60471-2).
- [32] Bag, T., V. Sivakumar, and Y. Ogawa (2024), Impact of Interplanetary Shock on Thermospheric Cooling Emission: A Case Study, *J. Geophys. Res.*, **129**(10), e2024JA033176, [10.1029/2024JA033176](https://doi.org/10.1029/2024JA033176).
- [33] Bandyopadhyay, R., N. V. Sarlis, J. M. Weygand, R. J. Strangeway, R. B. Torbert, and J. L. Burch (2024), Observation of chaotic fluctuations in turbulent plasma, *Phys. Plasmas*, **31**(10), 100702, [10.1063/5.0220376](https://doi.org/10.1063/5.0220376).
- [34] Barad, R. K., S. Sripathi, S. Banola, and K. Vijaykumar (2024), Occurrence of Equatorial Plasma Bubbles (EPBs) Over the Indian Region on 15 January 2022 and Their Plausible Connection to the Tonga Volcano Eruption, *J. Geophys. Res.*, **129**(6), e2023JA031542, [10.1029/2023JA031542](https://doi.org/10.1029/2023JA031542).
- [35] Barani, M., A. R. Poppe, M. O. Fillingim, J. P. McFadden, J. S. Halekas, and D. G. Sibeck (2024), A Study of Ionospheric Heavy Ions in the Terrestrial Magnetotail Using ARTEMIS, *J. Geophys. Res.*, **129**(6), e2023JA032346, [10.1029/2023JA032346](https://doi.org/10.1029/2023JA032346).
- [36] Baratashvili, T., and S. Poedts (2024), The effect of adaptive mesh refinement and grid stretching on the magnetized coronal mass ejection model in Icarus, *Astron. & Astrophys.*, **683**, A81, [10.1051/0004-6361/202347864](https://doi.org/10.1051/0004-6361/202347864).
- [37] Baratashvili, T., M. Brchnelova, L. Linan, A. Lani, and S. Poedts (2024), The operationally ready full 3D magnetohydrodynamic model from the Sun to Earth: COCONUT+Icarus, *Astron. & Astrophys.*, **690**, A184, [10.1051/0004-6361/202449389](https://doi.org/10.1051/0004-6361/202449389).
- [38] Bardet, D., P. T. Donnelly, L. N. Fletcher, A. Antuñano, M. T. Roman, J. A. Sinclair, G. S. Orton, C. Tao, J. H. Rogers, H. Melin, and J. Harkett (2024), Investigating Thermal Contrasts Between Jupiter's Belts, Zones, and Polar Vortices With VLT/VISIR, *J. Geophys. Res.*, **129**(2), e2023JE007902, [10.1029/2023JE007902](https://doi.org/10.1029/2023JE007902).
- [39] Bartocci, S., R. Battiston, S. Benella, S. Beolè, W. J. Burger, P. Cipollone, A. Contin, M. Cristoforetti, C. De Donato, C. De Santis, A. Di Luca, F. M. Follega, G. Gebbia, R. Iuppa, M. Laurenza, A. Lega, M. Lolli, M. Martucci, G. Masciantonio, M. Mergè, M. Mese, C. Neubuser, R. Nicolaïdis, F. Nozzoli, A. Oliva, G. Osteria, F. Palma, B. Panico, F. Perfetto, A. Perinelli, P. Picozza, E. Ricci, M. Ricci, S. B. Ricciarini, Z. Sahnoun, U. Savino, V. Scotti, M. Sorbara, A. Sotgiu, R. Sparvoli, P. Ubertini, V. Vilona, S. Zoffoli, and P. Zucco (2024), Multispacecraft Observations of Protons and Helium Nuclei

List of Refereed Publications
Wind Spacecraft: 2024

in Some Solar Energetic Particle Events toward the Maximum of Cycle 25, *Astrophys. J.*, **974**(2), 176, [10.3847/1538-4357/ad7395](https://doi.org/10.3847/1538-4357/ad7395).

- [40] Bartocci, S., R. Battiston, S. Beolè, W. J. Burger, D. Campana, P. Cipollone, A. Contin, M. Cristoforetti, C. De Donato, C. De Santis, A. Di Luca, F. M. Follega, G. Gebbia, R. Iuppa, A. Lega, M. Lolli, M. Martucci, G. Masciantonio, M. Mergè, M. Mese, C. Neubüser, R. Nicolaidis, F. Nozzoli, A. Oliva, G. Osteria, F. Palma, B. Panico, F. Perfetto, A. Perinelli, P. Picozza, E. Ricci, L. Ricci, M. Ricci, S. B. Ricciarini, Z. Sahnoun, U. Savino, V. Scotti, M. Sorbara, A. Sotgiu, R. Sparvoli, P. Ubertini, V. Vilona, S. Zoffoli, and P. Zuccon (2024), The Catalogue of Gamma-Ray Burst Observations by HEPD-01 in the 0.3–50 MeV Energy Range, *Astrophys. J.*, **976**(2), 239, [10.3847/1538-4357/ad822c](https://doi.org/10.3847/1538-4357/ad822c).
- [41] Baruah, Y., S. Roy, S. Sinha, E. Palmerio, S. Pal, D. M. Oliveira, and D. Nandy (2024), The Loss of Starlink Satellites in February 2022: How Moderate Geomagnetic Storms Can Adversely Affect Assets in Low-Earth Orbit, *Space Weather*, **22**(4), e2023SW003716, [10.1029/2023SW003716](https://doi.org/10.1029/2023SW003716).
- [42] Battaglia, A. F., S. Krucker, A. M. Veronig, M. Z. Stiefel, A. Warmuth, A. O. Benz, D. F. Ryan, H. Collier, and L. Harra (2024), The observational evidence that all microflares that accelerate electrons to high energies are rooted in sunspots, *Astron. & Astrophys.*, **691**, A172, [10.1051/0004-6361/202451152](https://doi.org/10.1051/0004-6361/202451152).
- [43] Belov, A. V., E. A. Belova, N. S. Shlyk, M. A. Abunina, A. A. Abunin, and S. M. Belov (2024), Forbush Effects and Geomagnetic Storms, *Geomag. and Aeron.*, **64**(3), 289–301, [10.1134/S0016793224600097](https://doi.org/10.1134/S0016793224600097).
- [44] Belov, S. M., N. S. Shlyk, M. A. Abunina, A. V. Belov, A. A. Abunin, V. A. Oleneva, and V. G. Yanke (2024), On the Most Interesting Solar-Wind and Cosmic-Ray Events in February–April 2023, *Solar Phys.*, **299**(12), 164, [10.1007/s11207-024-02406-8](https://doi.org/10.1007/s11207-024-02406-8).
- [45] Beyene, F., and V. Angelopoulos (2024), Storm-Time Very-Near-Earth Magnetotail Reconnection: A Statistical Perspective, *J. Geophys. Res.*, **129**(5), e2024JA032434, [10.1029/2024JA032434](https://doi.org/10.1029/2024JA032434).
- [46] Bisnovatyi-Kogan, G. S. (2024), Evolution of Massive Stars and Supernovae, *Astronomy Reports*, **68**, S56–S68, [10.1134/S1063772924701154](https://doi.org/10.1134/S1063772924701154).
- [47] Borodkova, N. L., O. V. Sapunova, Y. I. Yermolaev, and G. N. Zastenker (2024), Dynamics of Low-Frequency Oscillations of the Magnetic Field and Solar-Wind Ion Flux Upstream of an Interplanetary Shock, *Cosmic Res.*, **62**(6), 603–615, [10.1134/S0010952524600951](https://doi.org/10.1134/S0010952524600951).
- [48] Boschini, M. J., G. Cavallotto, S. Della Torre, M. Gervasi, G. La Vacca, P. G. Rancoita, and M. Tacconi (2024), Fast and accurate evaluation of deep-space galactic cosmic ray fluxes with HelMod-4/CUDA, *Adv. Space Res.*, **74**(9), 4302–4320, [10.1016/j.asr.2024.04.021](https://doi.org/10.1016/j.asr.2024.04.021).

List of Refereed Publications
Wind Spacecraft: 2024

- [49] Bower, G. E., S. Imber, S. E. Milan, A. Schillings, A. L. Fleetham, and J. W. Gjerloev (2024), Location of Geomagnetic Disturbances in Relation to the Field Aligned Current Boundary, *J. Geophys. Res.*, **129**(10), e2024JA033039, [10.1029/2024JA033039](https://doi.org/10.1029/2024JA033039).
- [50] Bryant, K., R. P. Young, H. J. LeFevre, C. C. Kuranz, J. R. Olson, K. J. McCollam, and C. B. Forest (2024), Creating and studying a scaled interplanetary coronal mass ejection, *Physics of Plasmas*, **31**(4), 042901, [10.1063/5.0187219](https://doi.org/10.1063/5.0187219).
- [51] Bunting, K. A., L. Barnard, M. J. Owens, and H. Morgan (2024), Constraints on Solar Wind Density and Velocity Based on Coronal Tomography and Parker Solar Probe Measurements, *Astrophys. J.*, **961**(1), 64, [10.3847/1538-4357/ad1506](https://doi.org/10.3847/1538-4357/ad1506).
- [52] Cañizares, L. A., S. T. Badman, S. A. Maloney, M. J. Owens, D. M. Weigt, E. P. Carley, and P. T. Gallagher (2024), Tracking solar radio bursts using Bayesian multilateration, *Astron. & Astrophys.*, **684**, A182, [10.1051/0004-6361/202347747](https://doi.org/10.1051/0004-6361/202347747).
- [53] Cai, L., A. Aikio, S. Oyama, N. Ivchenko, H. Vanhamäki, I. Virtanen, S. Buchert, M. L. Mekuriaw, and Y. Zhang (2024), Effect of Polar Cap Patches on the High-Latitude Upper Thermospheric Winds, *J. Geophys. Res.*, **129**(8), e2024JA032819, [10.1029/2024JA032819](https://doi.org/10.1029/2024JA032819).
- [54] Calabria, A., N. Imtiaz, D. Altadill, Y. Yasyukevich, A. Segarra, F. S. Prol, B. Adhikari, L. del Peral, M. D. Rodriguez Frias, and I. Molina (2024), Uncovering the Drivers of Responsive Ionospheric Dynamics to Severe Space Weather Conditions: A Coordinated Multi-Instrumental Approach, *J. Geophys. Res.*, **129**(3), e2023JA031862, [10.1029/2023JA031862](https://doi.org/10.1029/2023JA031862).
- [55] Carbone, V., T. Alberti, R. Reda, and L. Giovannelli (2024), Space-climatic feedback of the magnetic solar cycle through the interplanetary space, *Sci. Rep.*, **14**(1), 19850, [10.1038/s41598-024-70583-4](https://doi.org/10.1038/s41598-024-70583-4).
- [56] Carcaboso, F., M. Dumbović, C. Kay, D. Lario, L. K. Jian, L. B. Wilson, III, R. Gómez-Herrero, M. Temmer, S. G. Heinemann, T. Nieves-Chinchilla, and A. M. Veronig (2024), Unveiling the journey of a highly inclined CME. Insights from the March 13, 2012, event with 110° longitudinal separation, *Astron. & Astrophys.*, **684**, A90, [10.1051/0004-6361/202347083](https://doi.org/10.1051/0004-6361/202347083).
- [57] Chadda, S., D. M. Malaspina, L. R. Baalmann, V. J. Sterken, S. Hunziker, and Z. Sternovsky (2024), A solar rotation signature in cosmic dust observed in STEREO spacecraft data, *Astron. & Astrophys.*, **692**, A257, [10.1051/0004-6361/202451950](https://doi.org/10.1051/0004-6361/202451950).
- [58] Chatterjee, S., M. A. Dayeh, A. Muñoz-Jaramillo, H. M. Bain, K. Moreland, and S. Hart (2024), MEMPSEP-I. Forecasting the Probability of Solar Energetic Particle Event Occurrence Using a Multivariate Ensemble of Convolutional Neural Networks, *Space Weather*, **22**(9), e2023SW003568, [10.1029/2023SW003568](https://doi.org/10.1029/2023SW003568).
- [59] Chen, C., Y. D. Liu, B. Zhu, H. Hu, and R. Wang (2024), Formation of a Magnetic Cloud from the Merging of Two Successive Coronal Mass Ejections, *Astrophys. J. Lett.*, **969**(1), L4, [10.3847/2041-8213/ad53ca](https://doi.org/10.3847/2041-8213/ad53ca).

List of Refereed Publications
Wind Spacecraft: 2024

- [60] Chen, J.-L., H. Zou, Y.-X. Hao, Y.-G. Ye, Y. Miyoshi, A. Matsuoka, I. Shinohara, M. Teramoto, and S.-G. Xu (2024), A Sub-relativistic Electron Three-Belt Event in the Earth's Radiation Belts: Observation and Explanation, *J. Geophys. Res.*, **129**(4), e2023JA032213, [10.1029/2023JA032213](https://doi.org/10.1029/2023JA032213).
- [61] Chen, L.-J., D. Gershman, B. Burkholder, Y. Chen, M. Sarantos, L. Jian, J. Drake, C. Dong, H. Gurram, J. Shuster, D. B. Graham, O. Le Contel, S. J. Schwartz, S. Fuselier, H. Madanian, C. Pollock, H. Liang, M. Argall, R. E. Denton, R. Rice, J. Beedle, K. Genestreti, A. Ardakani, A. Stanier, A. Le, J. Ng, N. Bessho, M. Pandya, F. Wilder, C. Gabrielse, I. Cohen, H. Wei, C. T. Russell, R. Ergun, R. Torbert, and J. Burch (2024), Earth's Alfvén Wings Driven by the April 2023 Coronal Mass Ejection, *Geophys. Res. Lett.*, **51**(14), e2024GL108894, [10.1029/2024GL108894](https://doi.org/10.1029/2024GL108894).
- [62] Chen, L.-J., X.-G. Wang, Q. Wang, Z.-M. Zhou, W. Zheng, Y.-Z. Chen, and E.-W. Liang (2024), GRB 191221B: The Two-component Jet with Forward and Reverse Shock, *Astrophys. J.*, **972**(2), 158, [10.3847/1538-4357/ad6003](https://doi.org/10.3847/1538-4357/ad6003).
- [63] Chen, L.-J., X.-G. Wang, D.-L. Yang, and E.-W. Liang (2024), GRB 200612A: An Ultra-long Gamma-Ray Burst Powered by Magnetar Spinning Down, *Res. Astron. Astrophys.*, **24**(2), 025017, [10.1088/1674-4527/ad1d2a](https://doi.org/10.1088/1674-4527/ad1d2a).
- [64] Chen, W., S. Fu, X. Ma, B. Ni, D. Guo, Q. Zhang, X. Tong, Y. Zhao, X. Cao, Z. Xiang, and Y. Lei (2024), Quantifying the Spatiotemporal Evolution of Radiation Belt Electrons Scattered by Lower Band Chorus Waves: An Integrated Model, *Space Weather*, **22**(8), e2024SW003876, [10.1029/2024SW003876](https://doi.org/10.1029/2024SW003876).
- [65] Chi, Y., C. Shen, Z. Zhang, M. Xu, D. Mao, J. Liu, C. Wang, B. Yu, J. Luo, Z. Zhong, and Y. Wang (2024), Direct Observations of a Shock Traversing Preceding Two Coronal Mass Ejections: Insights from Solar Orbiter, Wind, and STEREO Observations, *Astrophys. J. Lett.*, **975**(2), L25, [10.3847/2041-8213/ad87e8](https://doi.org/10.3847/2041-8213/ad87e8).
- [66] Chrysaphi, N., M. Maksimovic, E. P. Kontar, A. Vecchio, X. Chen, and A. Pesini (2024), First determination of the angular dependence of rise and decay times of solar radio bursts using multi-spacecraft observations, *Astron. & Astrophys.*, **687**, L12, [10.1051/0004-6361/202348175](https://doi.org/10.1051/0004-6361/202348175).
- [67] Chu, X., J. Bortnik, X.-C. Shen, Q. Ma, W. Li, D. Ma, D. Malaspina, S. Huang, and D. P. Hartley (2024), Imbalanced Regressive Neural Network Model for Whistler-Mode Hiss Waves: Spatial and Temporal Evolution, *J. Geophys. Res.*, **129**(8), e2024JA032761, [10.1029/2024JA032761](https://doi.org/10.1029/2024JA032761).
- [68] Cliver, E. W., S. M. White, and I. G. Richardson (2024), A Floor in the Sun's Photospheric Magnetic Field: Implications for an Independent Small-scale Dynamo, *Astrophys. J. Lett.*, **961**(2), L46, [10.3847/2041-8213/ad192e](https://doi.org/10.3847/2041-8213/ad192e).
- [69] Cogato, F., M. Moresco, L. Amati, and A. Cimatti (2024), An analytical late-Universe approach to the weaving of modern cosmology, *Mon. Not. Roy. Astron. Soc.*, **527**(3), 4874–4888, [10.1093/mnras/stad3546](https://doi.org/10.1093/mnras/stad3546).

List of Refereed Publications
Wind Spacecraft: 2024

- [70] Cribb, V., T. I. Pulkkinen, L. Kepko, B. Gallardo-Lacourt, and E. Donovan (2024), Solar Wind Drivers of Auroral Omega Bands, *Geophys. Res. Lett.*, **51**(15), e2024GL109756, [10.1029/2024GL109756](https://doi.org/10.1029/2024GL109756).
- [71] Cruz, A. A., R. Siddalingappa, P. M. Mehta, S. K. Morley, H. C. Godinez, and V. K. Jordanova (2024), Reduced-Order Probabilistic Emulation of Physics-Based Ring Current Models: Application to RAM-SCB Particle Flux, *Space Weather*, **22**(6), e2023SW003706, [10.1029/2023SW003706](https://doi.org/10.1029/2023SW003706).
- [72] Curtin, A. P., S. Sirota, V. M. Kaspi, S. P. Tendulkar, M. Bhardwaj, A. M. Cook, W.-F. Fong, B. M. Gaensler, R. A. Main, K. W. Masui, D. Michilli, A. Pandhi, A. B. Pearlman, P. Scholz, and K. Shin (2024), Constraining Near-simultaneous Radio Emission from Short Gamma-Ray Bursts Using CHIME/FRB, *Astrophys. J.*, **972**(1), 125, [10.3847/1538-4357/ad5c65](https://doi.org/10.3847/1538-4357/ad5c65).
- [73] da Silva, D. E., S. R. Elkington, X. Li, J. Murphy, M. K. Hudson, M. J. Wiltberger, and A. A. Chan (2024), Numerical Calculations of Adiabatic Invariants From MHD-Driven Magnetic Fields, *J. Geophys. Res.*, **129**(6), e2023JA032397, [10.1029/2023JA032397](https://doi.org/10.1029/2023JA032397).
- [74] Dagang, A. N., M. A. M. Adzni, and R. Umar (2024), Geomagnetic Storm and Space Weather Perturbation via Magnetometer Analysis, in *Journal of Physics Conference Series, Journal of Physics Conference Series*, vol. 2915, p. 012011, IOP, [10.1088/1742-6596/2915/1/012011](https://doi.org/10.1088/1742-6596/2915/1/012011).
- [75] Dai, L., M. Zhu, Y. Ren, W. Gonzalez, C. Wang, D. Sibeck, A. Samsonov, P. Escoubet, B. Tang, J. Zhang, and G. Branduardi-Raymont (2024), Global-scale magnetosphere convection driven by dayside magnetic reconnection, *Nature Comm.*, **15**, 639, [10.1038/s41467-024-44992-y](https://doi.org/10.1038/s41467-024-44992-y).
- [76] D'Angelo, G., P. Francia, M. De Lauretis, A. Parmentier, T. Raita, and M. Piersanti (2024), A Case Study of Pc1 Waves Observed at the Polar Cap Associated with Proton Precipitation at Subauroral Latitudes, *Atmosphere*, **15**(2), 219, [10.3390/atmos15020219](https://doi.org/10.3390/atmos15020219).
- [77] Dayeh, M. A., S. Chatterjee, A. Muñoz-Jaramillo, K. Moreland, H. M. Bain, and S. T. Hart (2024), MEMPSEP-II. Forecasting the Properties of Solar Energetic Particle Events Using a Multivariate Ensemble Approach, *Space Weather*, **22**(9), e2023SW003697, [10.1029/2023SW003697](https://doi.org/10.1029/2023SW003697).
- [78] de Wet, S., T. Laskar, P. J. Groot, R. Barniol Duran, E. Berger, S. Bhandari, T. Eftekhar, C. Guidorzi, S. Kobayashi, D. A. Perley, R. Sari, and G. Schroeder (2024), A Millimeter Rebrightening in GRB 210702A, *Astrophys. J.*, **974**(2), 279, [10.3847/1538-4357/ad77bb](https://doi.org/10.3847/1538-4357/ad77bb).
- [79] Decotte, M., K. M. Laundal, S. M. Hatch, and J. P. Reistad (2024), Occurrence Probability of Magnetic Field Disturbances Measured With Swarm: Mapping the Dynamic Magnetosphere-Ionosphere Coupling, *J. Geophys. Res.*, **129**(2), e2023JA032191, [10.1029/2023JA032191](https://doi.org/10.1029/2023JA032191).

List of Refereed Publications
Wind Spacecraft: 2024

- [80] Derishev, E., and T. Piran (2024), The contemporaneous phase of GRB afterglows - application to GRB 221009A, *Mon. Not. Roy. Astron. Soc.*, **530**(1), 347–359, [10.1093/mnras/stae609](https://doi.org/10.1093/mnras/stae609).
- [81] Despirak, I., P. Setsko, A. Lubchich, R. Hajra, Y. Sakharov, G. Lakhina, V. Selivanov, and B. T. Tsurutani (2024), Geomagnetically induced currents (GICs) during strong geomagnetic activity (storms, substorms, and magnetic pulsations) on 23–24 April 2023, *J. Atmos. Solar-Terr. Phys.*, **261**, 106293, [10.1016/j.jastp.2024.106293](https://doi.org/10.1016/j.jastp.2024.106293).
- [82] Devi, P., R. Miteva, R. Chandra, K. Koleva, and B. Lawrence (2024), Type II radio bursts and space weather phenomena: A statistical study, *Adv. Space Res.*, **74**(10), 5263–5281, [10.1016/j.asr.2024.07.072](https://doi.org/10.1016/j.asr.2024.07.072).
- [83] Dhamane, O., A. Raghav, Z. Shaikh, V. Pawaskar, K. Ghag, P. Tari, and U. Panchal (2024), In Situ Observation of Alfvén Waves in an ICME Shock-Sheath Indicating the Existence of Alfvénic Turbulence, *Solar Phys.*, **299**(3), 29, [10.1007/s11207-024-02271-5](https://doi.org/10.1007/s11207-024-02271-5).
- [84] Di Lorenzo, L., L. Balmaceda, H. Cremades, and T. Nieves-Chinchilla (2024), Comprehensive Characterization of the Dynamics of Two Coronal Mass Ejections in the Outer Corona, *Solar Phys.*, **299**(4), 43, [10.1007/s11207-024-02290-2](https://doi.org/10.1007/s11207-024-02290-2).
- [85] Di Matteo, S., C. Katsavrias, L. Kepko, and N. M. Viall (2024), Azimuthal Size Scales of Solar Wind Periodic Density Structures, *Astrophys. J.*, **969**(1), 67, [10.3847/1538-4357/ad479e](https://doi.org/10.3847/1538-4357/ad479e).
- [86] di Stefano, I., D. Durante, P. Cappuccio, and P. Racioppa (2024), Radio Science Experiments during a Cruise Phase to Uranus, *Aerospace*, **11**(4), 282, [10.3390/aerospace11040282](https://doi.org/10.3390/aerospace11040282).
- [87] Diamond, M., D. Fiorillo, G. Marques-Tavares, I. Tamborra, and E. Vitagliano (2024), Multimessenger Constraints on Radiatively Decaying Axions from GW170817, *Phys. Rev. Lett.*, **132**(10), 101004, [10.1103/PhysRevLett.132.101004](https://doi.org/10.1103/PhysRevLett.132.101004).
- [88] Dimmock, A. P., V. Lanabere, A. Johlander, L. Rosenqvist, E. Yordanova, S. Buchert, S. Molenkamp, and J. Setréus (2024), Investigating the Trip of a Transformer in Sweden During the 24 April 2023 Storm, *Space Weather*, **22**(11), 2024SW003, 948, [10.1029/2024SW003948](https://doi.org/10.1029/2024SW003948).
- [89] Dmitriev, A. V. (2024), Geosynchronous Magnetopause Crossings in February-April 2023, *Cosmic Res.*, **62**(2), 220–230, [10.1134/S001095252360035X](https://doi.org/10.1134/S001095252360035X).
- [90] Dorseth, M., J. C. Perez, S. Bourouaine, J. C. Palacios, and N. E. Raouafi (2024), The low-frequency power spectrum of slow solar wind turbulence, *Astron. & Astrophys.*, **689**, A117, [10.1051/0004-6361/202449869](https://doi.org/10.1051/0004-6361/202449869).
- [91] Dresing, N., A. Yli-Laurila, S. Valkila, J. Gieseler, D. E. Morosan, G. U. Farwa, Y. Kartavykh, C. Palmroos, I. Jebaraj, S. Jensen, P. Kühl, B. Heber, F. Espinosa, R. Gómez-Herrero, E. Kilpua, V. V. Linho, P. Oleynik, L. A. Hayes, A. Warmuth, F. Schuller,

List of Refereed Publications
Wind Spacecraft: 2024

- H. Collier, H. Xiao, E. Asvestari, D. Trotta, J. G. Mitchell, C. M. S. Cohen, A. W. Labrador, M. E. Hill, and R. Vainio (2024), The solar cycle 25 multi-spacecraft solar energetic particle event catalog of the SERPENTINE project, *Astron. & Astrophys.*, **687**, A72, [10.1051/0004-6361/202449831](https://doi.org/10.1051/0004-6361/202449831).
- [92] Du, Y., W. Liu, D. Zhang, X. Tan, and M. W. Dunlop (2024), Latitudinal Distribution of Dayside Magnetospheric Currents Based on Cluster Observations, *J. Geophys. Res.*, **129**(10), e2024JA032943, [10.1029/2024JA032943](https://doi.org/10.1029/2024JA032943).
- [93] Du, Z., H. Lü, Y. Yuan, X. Yang, and E. Liang (2024), The Progenitor and Central Engine of a Peculiar GRB 230307A, *Astrophys. J. Lett.*, **962**(2), L27, [10.3847/2041-8213/ad22e2](https://doi.org/10.3847/2041-8213/ad22e2).
- [94] Duan, Y., Y. Shen, Z. Tang, C. Zhou, and S. Tan (2024), On the Determining Physical Factor of Jet-related Coronal Mass Ejections' Morphology in the High Corona, *Astrophys. J.*, **968**(2), 110, [10.3847/1538-4357/ad445c](https://doi.org/10.3847/1538-4357/ad445c).
- [95] Dumbović, M., L. Kramarić, I. Benko, B. Heber, and B. Vršnak (2024), A new method of measuring Forbush decreases, *Astron. & Astrophys.*, **683**, A168, [10.1051/0004-6361/202346969](https://doi.org/10.1051/0004-6361/202346969).
- [96] Eastwood, J. P., P. Brown, W. Magnes, C. M. Carr, M. Agu, R. Baughen, G. Berghofer, J. Hodgkins, I. Jernej, C. Möstl, T. Oddy, A. Strickland, and A. Vitkova (2024), The Vigil Magnetometer for Operational Space Weather Services From the Sun-Earth L5 Point, *Space Weather*, **22**(6), e2024SW003867, [10.1029/2024SW003867](https://doi.org/10.1029/2024SW003867).
- [97] Edward-Inatimi, N. O., M. J. Owens, L. Barnard, H. Turner, M. Marsh, S. Gonzi, M. Lang, and P. Riley (2024), Adapting Ensemble-Calibration Techniques to Probabilistic Solar-Wind Forecasting, *Space Weather*, **22**(12), 2024SW004,164, [10.1029/2024SW004164](https://doi.org/10.1029/2024SW004164).
- [98] Elhawary, R., K. M. Laundal, J. P. Reistad, and M. Madelaire (2024), How Do Substorms Influence Hemispheric Asymmetries in Equivalent Currents?, *J. Geophys. Res.*, **129**(8), e2024JA032507, [10.1029/2024JA032507](https://doi.org/10.1029/2024JA032507).
- [99] Ellahouny, N. M., A. T. Aikio, H. Vanhamäki, I. I. Virtanen, L. Cai, A. Marchaudon, P. L. Blelly, A. Coster, J. Norberg, A. Maute, and S. I. Oyama (2024), EISCAT Observations of Depleted High-Latitude F-Region During an HSS/SIR-Driven Magnetic Storm, *J. Geophys. Res.*, **129**(9), e2024JA032910, [10.1029/2024JA032910](https://doi.org/10.1029/2024JA032910).
- [100] Elmhamdi, A., A. Marassi, P. Romano, L. Contarino, W. AlShehri, and C. Monstein (2024), The Multifaceted M1.7 GOES-class Flare Event of 21 April 2023 in AR13283, *Solar Phys.*, **299**(8), 109, [10.1007/s11207-024-02355-2](https://doi.org/10.1007/s11207-024-02355-2).
- [101] Enengl, F., L. Spogli, D. Kotova, Y. Jin, K. Oksavik, N. Partamies, and W. J. Miloch (2024), Investigation of Ionospheric Small-Scale Plasma Structures Associated With Particle Precipitation, *Space Weather*, **22**(1), e2023SW003605, [10.1029/2023SW003605](https://doi.org/10.1029/2023SW003605).

List of Refereed Publications
Wind Spacecraft: 2024

- [102] Engebretson, M. J., L. Yang, E. S. Steinmetz, V. A. Pilipenko, M. B. Moldwin, B. A. McCuen, M. G. Connors, J. M. Weygand, C. L. Waters, Y. Nishimura, L. R. Lyons, and C. T. Russell (2024), Extreme Geomagnetic Disturbances (GMDs) Observed in Eastern Arctic Canada: Occurrence Characteristics and Solar Cycle Dependence, *J. Geophys. Res.*, **129**(1), e2023JA031643, [10.1029/2023JA031643](https://doi.org/10.1029/2023JA031643), [10.22541/essoar.168298702.26747467/v1](https://doi.org/10.22541/essoar.168298702.26747467/v1).
- [103] Engebretson, M. J., S. A. Gaffaney, J. A. Ochoa, A. Runov, J. M. Weygand, Y. Nishimura, M. D. Hartinger, V. A. Pilipenko, M. B. Moldwin, M. G. Connors, I. R. Mann, Z. Xu, and J. V. Rodriguez (2024), Signatures of Dipolarizing Flux Bundles in the Nightside Auroral Zone, *J. Geophys. Res.*, **129**(4), e2023JA032266, [10.1029/2023JA032266](https://doi.org/10.1029/2023JA032266).
- [104] Eriksson, S., M. Swisdak, A. Mallet, O. Kruparova, R. Livi, O. Romeo, S. D. Bale, J. C. Kasper, D. E. Larson, and M. Pulupa (2024), Parker Solar Probe Observations of Magnetic Reconnection Exhausts in Quiescent Plasmas near the Sun, *Astrophys. J.*, **965**(1), 76, [10.3847/1538-4357/ad25f0](https://doi.org/10.3847/1538-4357/ad25f0).
- [105] Eroglu, E., and O. A. Tretyakov (2024), The Bézier curve and neural network model of the time-domain transient signals, *Computer Physics Communications*, **301**, 109211, [10.1016/j.cpc.2024.109211](https://doi.org/10.1016/j.cpc.2024.109211).
- [106] Ervin, T., S. D. Bale, S. T. Badman, T. A. Bowen, P. Riley, K. Paulson, Y. J. Rivera, O. Romeo, N. Sioulas, D. Larson, J. L. Verniero, R. M. Dewey, and J. Huang (2024), Near Subsonic Solar Wind Outflow from an Active Region, *Astrophys. J.*, **972**(1), 129, [10.3847/1538-4357/ad57c4](https://doi.org/10.3847/1538-4357/ad57c4).
- [107] Ervin, T., K. Jaffarove, S. T. Badman, J. Huang, Y. J. Rivera, and S. D. Bale (2024), Characteristics and Source Regions of Slow Alfvénic Solar Wind Observed by Parker Solar Probe, *Astrophys. J.*, **975**(2), 156, [10.3847/1538-4357/ad7d00](https://doi.org/10.3847/1538-4357/ad7d00).
- [108] Eyelade, A. V., M. Stepanova, C. M. Espinoza, E. E. Antonova, and I. P. Kirpichev (2024), The Response of the Earth Magnetosphere to Changes in the Solar Wind Dynamic Pressure: 1. Plasma and Magnetic Pressures, *J. Geophys. Res.*, **129**(7), e2023JA031948, [10.1029/2023JA031948](https://doi.org/10.1029/2023JA031948).
- [109] Eyelade, A. V., M. Stepanova, C. M. Espinoza, E. E. Antonova, and I. P. Kirpichev (2024), The Response of the Magnetosphere to Changes in the Solar Wind Dynamic Pressure: 2. Ion and Electron Kappa Distribution Functions, *J. Geophys. Res.*, **129**(7), e2023JA031949, [10.1029/2023JA031949](https://doi.org/10.1029/2023JA031949).
- [110] Farooki, H., Y. Abdullaah, S. J. Noh, H. Kim, G. Bizos, Y. Shin, J. T. L. Wang, and H. Wang (2024), A Machine Learning Approach to Understanding the Physical Properties of Magnetic Flux Ropes in the Solar Wind at 1 au, *Astrophys. J.*, **961**(1), 81, [10.3847/1538-4357/ad0c52](https://doi.org/10.3847/1538-4357/ad0c52).
- [111] Farooki, H., S. J. Noh, J. Lee, H. Wang, H. Kim, Y. Abdullaah, J. T. L. Wang, Y. Chen, S. Servidio, and F. Pecora (2024), A Closer Look at Small-scale Magnetic Flux Ropes in the Solar Wind at 1 au: Results from Improved Automated Detection, *Astrophys. J. Suppl.*, **271**(2), 42, [10.3847/1538-4365/ad24e1](https://doi.org/10.3847/1538-4365/ad24e1).

List of Refereed Publications
Wind Spacecraft: 2024

- [112] Fasel, G., A. Wang, A. Daucher, L.-C. Lee, J. Pepperdine, O. Bradley, J. Mann, M. Kim, B. Swonger, F. Sigernes, and D. Lorentzen (2024), 'X-Currents' and Extreme Brightening in Dayside Aurora, *Universe*, **10**(5), 216, [10.3390/universe10050216](https://doi.org/10.3390/universe10050216).
- [113] Feng, H., D. Han, S. Teng, H. Qiu, S. Zhou, R. Shi, and Y. Zhang (2024), In Situ Observational Evidence of the Polar Cap Arc at 1500 MLT (15MLT-PCA) Associated With the Lobe Reconnection, *Geophys. Res. Lett.*, **51**(22), 2024GL111,793, [10.1029/2024GL111793](https://doi.org/10.1029/2024GL111793).
- [114] Feng, H., D. Wang, D. Guo, Y. Y. Shprits, D. Han, S. Teng, B. Ni, R. Shi, and Y. Zhang (2024), Lower Band Chorus Wave Scattering Causing the Extensive Morningside Diffuse Auroral Precipitation During Active Geomagnetic Conditions: A Detailed Case Study, *J. Geophys. Res.*, **129**(5), e2023JA032240, [10.1029/2023JA032240](https://doi.org/10.1029/2023JA032240).
- [115] Feng, J. Y., Y. Zhou, J. Y. Lu, M. Wang, J. Y. Li, H. X. Zhang, F. Tang, and F. L. Yue (2024), Occurrence of Kelvin–Helmholtz Instability at Lunar Distance Magnetopause: ARTEMIS Observation, *Astrophys. J.*, **972**(1), 86, [10.3847/1538-4357/ad6159](https://doi.org/10.3847/1538-4357/ad6159).
- [116] Firoz, K. A., Y. P. Li, and W. Q. Gan (2024), On the Possible Mechanisms of the SEP Event and Electron Enhancement over the SEP Decay Phase on 2023 August 5, *Astrophys. J.*, **977**(2), 248, [10.3847/1538-4357/ad90b1](https://doi.org/10.3847/1538-4357/ad90b1).
- [117] Fleetham, A. L., S. E. Milan, S. M. Imber, G. E. Bower, J. Gjerloev, and S. K. Vines (2024), The Relationship Between Large dB/dt and Field-Aligned Currents During Five Geomagnetic Storms, *J. Geophys. Res.*, **129**(7), e2024JA032483, [10.1029/2024JA032483](https://doi.org/10.1029/2024JA032483).
- [118] Foffano, L., M. Tavani, and G. Piano (2024), Theoretical Modeling of the Exceptional GRB 221009A Afterglow, *Astrophys. J. Lett.*, **973**(2), L44, [10.3847/2041-8213/ad76a3](https://doi.org/10.3847/2041-8213/ad76a3).
- [119] Fraija, N., B. Betancourt Kamenetskaia, A. Galván-Gámez, P. Veres, R. L. Becerra, S. Dichiara, M. G. Dainotti, F. Lizcano, and E. Aguilar-Ruiz (2024), An explanation of GRB Fermi-LAT flares and high-energy photons in stratified afterglows, *Mon. Not. Roy. Astron. Soc.*, **527**(2), 1674–1704, [10.1093/mnras/stad3243](https://doi.org/10.1093/mnras/stad3243).
- [120] Fraija, N., P. Veres, B. Betancourt Kamenetskaia, A. Galvan-Gamez, M. G. Dainotti, S. Dichiara, and R. L. Becerra (2024), Synchrotron self-Compton in a radiative-adiabatic fireball scenario: modelling the multiwavelength observations in some Fermi/LAT bursts, *Mon. Not. Roy. Astron. Soc.*, **534**(4), 3783–3807, [10.1093/mnras/stae2190](https://doi.org/10.1093/mnras/stae2190).
- [121] Freund, D., L. Blum, S. Vidal-Luengo, A. Bruno, and R. Kataoka (2024), MeV Electron Precipitation During Radiation Belt Dropouts, *J. Geophys. Res.*, **129**(8), e2024JA032759, [10.1029/2024JA032759](https://doi.org/10.1029/2024JA032759).
- [122] Frøystein, I., A. Spicher, B. Gustavsson, K. Oksavik, and M. G. Johnsen (2024), On the Identification of the Dayside Auroral Region Using Incoherent Scatter Radar, *J. Geophys. Res.*, **129**(12), 2024JA033,361, [10.1029/2024JA033361](https://doi.org/10.1029/2024JA033361).

List of Refereed Publications
Wind Spacecraft: 2024

- [123] Fu, S.-Y., D. Xu, W.-H. Lei, A. de Ugarte Postigo, D. A. Kann, C. C. Thöne, J. F. Agüí Fernández, Y. Shuang-Xi, W. Xie, Y.-C. Zou, X. Liu, S.-Q. Jiang, T.-H. Lu, J. An, Z.-P. Zhu, J. Zheng, Q.-W. Tang, P.-W. Zhao, L.-P. Xin, and J.-Y. Wei (2024), Unveiling the Multifaceted GRB 200613A: Prompt Emission Dynamics, Afterglow Evolution, and the Host Galaxy's Properties, *Astrophys. J.*, **974**(2), 221, [10.3847/1538-4357/ad6306](https://doi.org/10.3847/1538-4357/ad6306).
- [124] Gallardo-Lacourt, B., Y. Nishimura, L. Kepko, E. L. Spanswick, D. M. Gillies, D. J. Knudsen, J. K. Burchill, S. H. Skone, V. A. Pinto, D. Chaddock, J. Kuzub, and E. F. Donovan (2024), Unexpected STEVE Observations at High Latitude During Quiet Geomagnetic Conditions, *Geophys. Res. Lett.*, **51**(19), e2024GL110568, [10.1029/2024GL110568](https://doi.org/10.1029/2024GL110568).
- [125] García-Rivas, M., J. Kašparová, A. Berlicki, M. Švanda, J. Dudík, D. Čtvrtěčka, M. Zapiór, W. Liu, M. Sobotka, M. Pavelková, and G. G. Motorina (2024), Flare heating of the chromosphere: Observations of flare continuum from GREGOR and IRIS, *Astron. & Astrophys.*, **690**, A254, [10.1051/0004-6361/202451219](https://doi.org/10.1051/0004-6361/202451219).
- [126] Gasparini, S., L. Kepko, and K. M. Laundal (2024), Quantifying the Mesoscale Contribution to FACs During a Magnetospheric Substorm, *Geophys. Res. Lett.*, **51**(21), 2024GL111,045, [10.1029/2024GL111045](https://doi.org/10.1029/2024GL111045).
- [127] Gautam, S. P., A. Muluye Tilahun, A. Silwal, B. Adhikari, and Y. Getachew Ejigu (2024), Ionospheric response to the 08 April 2024 total solar eclipse over United States: a case study, *Astrophys. Space Sci.*, **369**(10), 108, [10.1007/s10509-024-04372-w](https://doi.org/10.1007/s10509-024-04372-w).
- [128] Gautam, S. P., L. Adhikari, G. P. Zank, A. Silwal, and L. Zhao (2024), Solar Cycle Dependence of the Turbulence Cascade Rate at 1 au, *Astrophys. J.*, **968**(1), 12, [10.3847/1538-4357/ad4797](https://doi.org/10.3847/1538-4357/ad4797).
- [129] Geethakumari, G. P., A. T. Aikio, L. Cai, H. Vanhamäki, I. I. Virtanen, A. Coster, A. Marchaudon, P. L. Blelly, A. Maute, J. Norberg, S. Oyama, Y. Zhang, and B. S. R. Kunduri (2024), Total Electron Content Variations During an HSS/SIR-Driven Geomagnetic Storm at High and Mid Latitudes, *J. Geophys. Res.*, **129**(12), 2024JA033,192, [10.1029/2024JA033192](https://doi.org/10.1029/2024JA033192).
- [130] Geletaw, B., N. Melessew, and G. D. Reeves (2024), Relativistic electron ($E > 2\text{MeV}$) flux driving parameters over geostationary orbit using 30 years of data, *Adv. Space Res.*, **73**(10), 5145–5156, [10.1016/j.asr.2024.02.045](https://doi.org/10.1016/j.asr.2024.02.045).
- [131] Gerekos, C., G. Steinbrügge, I. C. Jebaraj, A. Casillas, E. Donini, B. Sánchez-Cano, M. Lester, J. Magdalenić, S. T. Peters, A. Romero-Wolf, and D. D. Blankenship (2024), Observation of solar radio burst events from Mars orbit with the Shallow Radar instrument, *Astron. & Astrophys.*, **683**, A56, [10.1051/0004-6361/202347900](https://doi.org/10.1051/0004-6361/202347900).
- [132] Gershman, D. J., and G. A. DiBraccio (2024), Quantifying External Energy Inputs for Giant Planet Magnetospheres, *Geophys. Res. Lett.*, **51**(15), e2024GL109660, [10.1029/2024GL109660](https://doi.org/10.1029/2024GL109660).

List of Refereed Publications
Wind Spacecraft: 2024

- [133] Ghag, K., P. Pathare, A. Raghav, G. Nicolaou, Z. Shaikh, O. Dhamane, U. Panchal, K. Kumbhar, P. Tari, B. Sathe, V. Pawaskar, and G. Hilbert (2024), Studying the polytropic behavior of an ICME using Multi-spacecraft observation by STEREO-A, STEREO-B, and WIND, *Adv. Space Res.*, **73**(1), 1064–1072, [10.1016/j.asr.2023.09.010](https://doi.org/10.1016/j.asr.2023.09.010).
- [134] Ghag, K., A. Raghav, A. Bhaskar, S. L. Soni, B. Sathe, Z. Shaikh, O. Dhamane, and P. Tari (2024), Quasi-planar ICME sheath: A cause of the first two-step extreme geomagnetic storm of the 25th solar cycle observed on 23 April 2023, *Adv. Space Res.*, **73**(12), 6288–6297, [10.1016/j.asr.2024.03.011](https://doi.org/10.1016/j.asr.2024.03.011).
- [135] Gil, A., E. Asvestari, A. Mishev, N. Larsen, and I. Usoskin (2024), New Anisotropic Cosmic-Ray Enhancement (ACRE) Event on 5 November 2023 Due to Complex Heliospheric Conditions, *Solar Phys.*, **299**(7), 97, [10.1007/s11207-024-02338-3](https://doi.org/10.1007/s11207-024-02338-3).
- [136] Gillanders, J. H., L. Rhodes, S. Srivastav, F. Carotenuto, J. Bright, M. E. Huber, H. F. Stevance, S. J. Smartt, K. C. Chambers, T. W. Chen, R. Fender, A. Andersson, A. J. Cooper, P. G. Jonker, F. J. Cowie, T. de Boer, N. Erasmus, M. D. Fulton, H. Gao, J. Herman, C. C. Lin, T. Lowe, E. A. Magnier, H. Y. Miao, P. Minguez, T. Moore, C. C. Ngeow, M. Nicholl, Y. C. Pan, G. Pignata, A. Rest, X. Sheng, I. A. Smith, K. W. Smith, J. L. Tonry, R. J. Wainscoat, J. Weston, S. Yang, and D. R. Young (2024), Discovery of the Optical and Radio Counterpart to the Fast X-Ray Transient EP 240315a, *Astrophys. J. Lett.*, **969**(1), L14, [10.3847/2041-8213/ad55cd](https://doi.org/10.3847/2041-8213/ad55cd).
- [137] Giri, A., B. Adhikari, S. Dahal, K. S. S. Paula, and M. J. A. Bolzan (2024), Multi-fractal Analysis of Cosmic Rays over Mid- and High-Latitude Stations During Severe Geomagnetic Storms, *Solar Phys.*, **299**(10), 148, [10.1007/s11207-024-02393-w](https://doi.org/10.1007/s11207-024-02393-w).
- [138] Githio, L., H. Liu, A. A. Arafa, and A. Mahrous (2024), A machine learning approach for estimating the drift velocities of equatorial plasma bubbles based on All-Sky Imager and GNSS observations, *Adv. Space Res.*, **74**(11), 6047–6064, [10.1016/j.asr.2024.08.067](https://doi.org/10.1016/j.asr.2024.08.067).
- [139] González-Avilés, J. J., P. Riley, M. Ben-Nun, P. Mayank, and B. Vaidya (2024), Using sunRunner3D to interpret the global structure of the heliosphere from in situ measurements, *J. Space Weather Space Clim.*, **14**, 12, [10.1051/swsc/2024014](https://doi.org/10.1051/swsc/2024014).
- [140] Gopalswamy, N., S. Christe, S. F. Fung, Q. Gong, J. R. Gruesbeck, L. K. Jian, S. G. Kanekal, C. Kay, T. A. Kucera, J. E. Leake, L. Li, P. Mkel, P. Nikulla, N. L. Reginald, A. Shih, S. K. Tadikonda, N. Viall, L. B. Wilson, S. Yashiro, L. Golub, E. DeLuca, K. Reeves, A. C. Sterling, A. R. Winebarger, C. DeForest, D. M. Hassler, D. B. Seaton, M. I. Desai, P. S. Mokashi, J. Lazio, E. A. Jensen, W. B. Manchester, N. Sachdeva, B. Wood, J. Kooi, P. Hess, D. B. Wexler, S. D. Bale, S. Krucker, N. Hurlburt, M. DeRosa, S. Gosain, K. Jain, S. Kholikov, G. J. D. Petrie, A. Pevtsov, S. C. Tripathy, J. Zhao, P. H. Scherrer, S. P. Rajaguru, T. Woods, M. Kenney, J. Zhang, C. Scolini, K. S. Cho, Y. D. Park, and B. V. Jackson (2024), The multiview observatory for solar terrestrial science (MOST), *J. Atmos. Solar-Terr. Phys.*, **254**, 106165, [10.1016/j.jastp.2023.106165](https://doi.org/10.1016/j.jastp.2023.106165).
- [141] Gowtam, V. S., H. Connor, B. S. R. Kunduri, J. Raeder, K. M. Laundal, S. Tulasi Ram, D. S. Ozturk, D. Hampton, S. Chakraborty, C. Owolabi, and A. Keesee

List of Refereed Publications
Wind Spacecraft: 2024

- (2024), Calculating the High-Latitude Ionospheric Electrodynamics Using a Machine Learning-Based Field-Aligned Current Model, *Space Weather*, **22**(4), e2023SW003683, [10.1029/2023SW003683](https://doi.org/10.1029/2023SW003683).
- [142] Grechnev, V. V., V. I. Kiselev, A. M. Uralov, N. S. Meshalkina, K. A. Firoz, and A. L. Lysenko (2024), Mysteries of the 17 May 2012 Solar Event Responsible for GLE71. I. CME Development and the Role of Disturbances Excited by Eruptions, *Solar Phys.*, **299**(9), 129, [10.1007/s11207-024-02373-0](https://doi.org/10.1007/s11207-024-02373-0).
- [143] Greiner, J., T. Krühler, J. Bolmer, S. Klose, P. M. J. Afonso, J. Elliott, R. Filgas, J. F. Graham, D. A. Kann, F. Knust, A. Küpcü Yoldaş, M. Nardini, A. M. Nicuesa Guelbenzu, F. Olivares Estay, A. Rossi, P. Schady, T. Schweyer, V. Sudilovsky, K. Varela, and P. Wiseman (2024), The GROND gamma-ray burst sample: I. Overview and statistics, *Astron. & Astrophys.*, **691**, A158, [10.1051/0004-6361/202449659](https://doi.org/10.1051/0004-6361/202449659).
- [144] Grimmich, N., F. Prencipe, D. L. Turner, T. Z. Liu, F. Plaschke, M. O. Archer, R. Nakamura, D. G. Sibeck, J. Z. D. Mieth, H.-U. Auster, O. D. Constantinescu, D. Fischer, and W. Magnes (2024), Multi Satellite Observation of a Foreshock Bubble Causing an Extreme Magnetopause Expansion, *J. Geophys. Res.*, **129**(3), e2023JA032052, [10.1029/2023JA032052](https://doi.org/10.1029/2023JA032052).
- [145] Gromova, L. I., N. G. Kleimenova, S. V. Gromov, K. K. Kanonidi, V. G. Petrov, and L. M. Malysheva (2024), Intensive Substorms during the Main Phase of the Magnetic Storm on March 23–24, 2023, *Geomag. and Aeron.*, **64**(6), 881–889, [10.1134/S0016793224600772](https://doi.org/10.1134/S0016793224600772).
- [146] Guglielmi, L., G. Stratta, S. Dall’Osso, P. Singh, M. Brusa, and R. Perna (2024), Incidence of afterglow plateaus in gamma-ray bursts associated with binary neutron star mergers, *Astron. & Astrophys.*, **692**, A73, [10.1051/0004-6361/202451877](https://doi.org/10.1051/0004-6361/202451877).
- [147] Guidorzi, C., M. Sartori, R. Maccary, A. Tsvetkova, L. Amati, L. Bazzanini, M. Bulla, A. E. Camisasca, L. Ferro, F. Frontera, C. K. Li, S. L. Xiong, and S. N. Zhang (2024), Distribution of the number of peaks within a long gamma-ray burst, *Astron. & Astrophys.*, **685**, A34, [10.1051/0004-6361/202449200](https://doi.org/10.1051/0004-6361/202449200).
- [148] Guidorzi, C., R. Maccary, A. Tsvetkova, S. Kobayashi, L. Amati, L. Bazzanini, M. Bulla, A. E. Camisasca, L. Ferro, D. Frederiks, F. Frontera, A. Lysenko, M. Maistrello, A. Ridnaia, D. Svinkin, and M. Ulanov (2024), New results on the gamma-ray burst variability–luminosity relation, *Astron. & Astrophys.*, **690**, A261, [10.1051/0004-6361/202451401](https://doi.org/10.1051/0004-6361/202451401).
- [149] Gulyaeva, T. L. (2024), Interaction of global electron content with the Sun and solar wind during intense geomagnetic storms, *Planet. Space Sci.*, **240**, 105830, [10.1016/j.pss.2023.105830](https://doi.org/10.1016/j.pss.2023.105830).
- [150] Guo, D., D. Wang, Y. Shprits, Z. Xiang, B. Ni, A. Saikin, A. Y. Drozdov, M. Szabo-Roberts, J. Wang, Y. Liu, and J. Dong (2024), One-Step Local Acceleration Process of Ultra-Relativistic Electrons in the Center of the Outer Radiation Belt: Observations, *J. Geophys. Res.*, **129**(9), e2024JA033024, [10.1029/2024JA033024](https://doi.org/10.1029/2024JA033024).

List of Refereed Publications
Wind Spacecraft: 2024

- [151] Guo, W., B. Tang, Q. Zhang, W. Li, Z. Yang, T. Sun, J. Ma, X. Zhang, Z. Liu, X. Guo, and C. Wang (2024), The Magnetopause Deformation Indicated by Fast Cold Ion Motion, *J. Geophys. Res.*, **129**(2), e2023JA032121, [10.1029/2023JA032121](https://doi.org/10.1029/2023JA032121).
- [152] Guo, X., L. Wang, W. Li, Q. Ma, L. Yang, R. F. Wimmer-Schweingruber, and S. D. Bale (2024), Evolution of Electron Acceleration by Corotating Interaction Region Shocks at 1 au, *Astrophys. J. Lett.*, **966**(1), L12, [10.3847/2041-8213/ad3d5f](https://doi.org/10.3847/2041-8213/ad3d5f).
- [153] Guo, X., B. Zhao, T. Yu, H. Hao, W. Sun, G. Wang, M. He, T. Mao, G. Li, and Z. Ren (2024), East-West Difference in the Ionospheric Response During the Recovery Phase of May 2024 Super Geomagnetic Storm Over the East Asian, *J. Geophys. Res.*, **129**(9), e2024JA033170, [10.1029/2024JA033170](https://doi.org/10.1029/2024JA033170).
- [154] Gupta, R., S. B. Pandey, S. Gupta, T. Chattopadhyay, D. Bhattacharya, V. Bhalerao, A. J. Castro-Tirado, A. Valeev, A. K. Ror, V. Sharma, J. Racusin, A. Aryan, S. Iyyani, and S. Vadawale (2024), A Detailed Time-resolved and Energy-resolved Spectropolarimetric Study of Bright Gamma-Ray Bursts Detected by AstroSat CZTI in Its First Year of Operation, *Astrophys. J.*, **972**(2), 166, [10.3847/1538-4357/ad5a92](https://doi.org/10.3847/1538-4357/ad5a92).
- [155] Habarulema, J. B., Y. Zhang, T. Matamba, D. Buresova, G. Lu, Z. Katamzi-Joseph, P. R. Fagundes, D. Okoh, and G. Seemala (2024), Absence of High Frequency Echoes From Ionosondes During the 23-25 April 2023 Geomagnetic Storm; What Happened?, *J. Geophys. Res.*, **129**(3), e2023JA032277, [10.1029/2023JA032277](https://doi.org/10.1029/2023JA032277).
- [156] Hajra, R., B. T. Tsurutani, Q. Lu, G. S. Lakhina, A. Du, E. Echer, A. M. S. Franco, M. J. A. Bolzan, and X. Gao (2024), Ultra-relativistic Electron Acceleration during High-intensity Long-duration Continuous Auroral Electrojet Activity Events, *Astrophys. J.*, **965**(2), 146, [10.3847/1538-4357/ad2dfe](https://doi.org/10.3847/1538-4357/ad2dfe).
- [157] Hajra, R., B. T. Tsurutani, G. S. Lakhina, Q. Lu, and A. Du (2024), Interplanetary Causes and Impacts of the 2024 May Superstorm on the Geosphere: An Overview, *Astrophys. J.*, **974**(2), 264, [10.3847/1538-4357/ad7462](https://doi.org/10.3847/1538-4357/ad7462).
- [158] Hajra, R., B. T. Tsurutani, Q. Lu, R. B. Horne, G. S. Lakhina, X. Yang, P. Henri, A. Du, X. Gao, R. Wang, and S. Lu (2024), The April 2023 SYM-H = -233 nT Geomagnetic Storm: A Classical Event, *J. Geophys. Res.*, **129**(10), e2024JA032986, [10.1029/2024JA032986](https://doi.org/10.1029/2024JA032986).
- [159] Hao, H., B. Zhao, Y. Jin, X. Yue, F. Ding, G. Li, W. Sun, Z. Ren, and Z. Li (2024), Latitude Variation of the Post-Sunset Plasma Density Enhancement During the Minor Geomagnetic Storm on 27 May 2021, *J. Geophys. Res.*, **129**(3), e2023JA032156, [10.1029/2023JA032156](https://doi.org/10.1029/2023JA032156).
- [160] Hasegawa, H., M. R. Argall, N. Aunai, R. Bandyopadhyay, N. Bessho, I. J. Cohen, R. E. Denton, J. C. Dorelli, J. Egedal, S. A. Fuselier, P. Garnier, V. Génot, D. B. Graham, K. J. Hwang, Y. V. Khotyaintsev, D. B. Korovinskiy, B. Lavraud, Q. Lenouvel, T. C. Li, Y. H. Liu, B. Michotte de Welle, T. K. M. Nakamura, D. S. Payne, S. M. Petrinec, Y. Qi, A. C. Rager, P. H. Reiff, J. M. Schroeder, J. R. Shuster, M. I. Sitnov, G. K. Stephens,

List of Refereed Publications
Wind Spacecraft: 2024

- M. Swisdak, A. M. Tian, R. B. Torbert, K. J. Trattner, and S. Zenitani (2024), Advanced Methods for Analyzing in-Situ Observations of Magnetic Reconnection, *Space Sci. Rev.*, **220**(6), 68, [10.1007/s11214-024-01095-w](https://doi.org/10.1007/s11214-024-01095-w).
- [161] He, H.-N., B. T. Zhang, and Y.-Z. Fan (2024), A Detectable Ultra-high-energy Cosmic-Ray Outburst from GRB 221009A, *Astrophys. J.*, **963**(2), 109, [10.3847/1538-4357/ad2352](https://doi.org/10.3847/1538-4357/ad2352).
- [162] He, M., and H. Zhu (2024), Correlating sunspot numbers with Alfvén and Magnetosonic Mach number across last four solar cycles and prediction of solar cycle 25 with LSTM+model, *Adv. Space Res.*, **74**(10), 5244–5251, [10.1016/j.asr.2024.08.041](https://doi.org/10.1016/j.asr.2024.08.041).
- [163] He, M., and H. Zhu (2024), Statistical analysis and forecasting of solar wind parameters across solar cycles, *Sci. Rep.*, **14**(1), 19529, [10.1038/s41598-024-70564-7](https://doi.org/10.1038/s41598-024-70564-7).
- [164] Heinemann, S. G., C. Sishtla, S. Good, M. Grandin, and J. Pomoell (2024), Classification of Enhanced Geoeffectiveness Resulting from High-speed Solar Wind Streams Compressing Slower Interplanetary Coronal Mass Ejections, *Astrophys. J. Lett.*, **963**(1), L25, [10.3847/2041-8213/ad283a](https://doi.org/10.3847/2041-8213/ad283a).
- [165] Hietala, H., D. Trotta, A. Fedeli, L. B. Wilson, L. Vuorinen, and J. T. Coburn (2024), Candidates for downstream jets at interplanetary shocks, *Mon. Not. Roy. Astron. Soc.*, **531**(2), 2415–2421, [10.1093/mnras/stae1294](https://doi.org/10.1093/mnras/stae1294).
- [166] Hill, S. C., T. I. Pulkkinen, A. Brenner, Q. Al Shidi, A. Mukhopadhyay, A. Kullen, H. Frey, S. Zou, and M. Liemohn (2024), Magnetospheric Sources of Theta Aurora: A Case Study Comparing Observations With SWMF Global Simulation, *Geophys. Res. Lett.*, **51**(10), e2023GL108002, [10.1029/2023GL108002](https://doi.org/10.1029/2023GL108002).
- [167] Hiyadutuje, A., M. J. Kosch, J. B. Habarulema, X. Chen, J. A. E. Stephenson, T. M. Matamba, and M. Tshisaphungo (2024), Observation of sporadic E layer altitude partially modulated by the Traveling Ionospheric Disturbances at high latitudes over Zhongshan station, *J. Atmos. Solar-Terr. Phys.*, **265**, 106377, [10.1016/j.jastp.2024.106377](https://doi.org/10.1016/j.jastp.2024.106377).
- [168] Holmberg, M. K. G., C. M. Jackman, M. G. G. T. Taylor, O. Witasse, J. E. Wahlund, S. Barabash, B. Michotte de Welle, H. L. F. Huybrighs, C. Imhof, F. Cipriani, G. Déprez, and N. Altobelli (2024), Surface Charging of the Jupiter Icy Moons Explorer (JUICE) Spacecraft in the Solar Wind at 1 AU, *J. Geophys. Res.*, **129**(9), e2023JA032137, [10.1029/2023JA032137](https://doi.org/10.1029/2023JA032137).
- [169] Holmes, J., J. Kasper, K. G. Klein, S. T. Lepri, and J. M. Raines (2024), Zone of Preferential Heating for Minor Ions in the Solar Wind, *Astrophys. J.*, **964**(1), 19, [10.3847/1538-4357/ad23ea](https://doi.org/10.3847/1538-4357/ad23ea).
- [170] Hong, Y., Y. Deng, A. Maute, G. Lu, Q. Zhu, C. Waters, C. Sheng, R. Lopez, and D. Welling (2024), Relative Contributions of Field-Aligned Currents and Particle Precipitation to Inter-Hemispheric Asymmetry at High Latitudes During the 2015 St. Patrick's Day Storm, *J. Geophys. Res.*, **129**(4), e2023JA032279, [10.1029/2023JA032279](https://doi.org/10.1029/2023JA032279).

List of Refereed Publications
Wind Spacecraft: 2024

- [171] Hosokawa, K., Y. Miyoshi, M. Mcharg, V. Ledvina, D. Hampton, M. Lessard, M. Shumko, K. Asamura, T. Sakanoi, T. Mitani, T. Namekawa, M. Nosé, Y. Ogawa, A. Jaynes, and A. Halford (2024), Variation of the Altitude of Auroral Emission During a Substorm Cycle: Stereoscopic Optical Observations During the LAMP Rocket Experiment, *J. Geophys. Res.*, **129**(11), 2024JA033,036, [10.1029/2024JA033036](https://doi.org/10.1029/2024JA033036).
- [172] Hu, H., B. Zhu, Y. D. Liu, C. Chen, R. Wang, and X. Zhao (2024), Limb Observations of Global Solar Coronal Extreme-ultraviolet Wavefronts: The Inclination, Kinematics, Coupling with the Expanding Coronal Mass Ejections, and Connection with the Coronal Mass Ejection Driven Shocks, *Astrophys. J.*, **976**(1), 9, [10.3847/1538-4357/ad7ead](https://doi.org/10.3847/1538-4357/ad7ead).
- [173] Hu, J., Z. Zou, H. Huang, W. San, Q. Yuan, and B. Zhu (2024), Global features of energetic proton pancake pitch angle distributions in the Earth's radiation belt, *Phys. Fluids*, **36**(9), 096607, [10.1063/5.0217838](https://doi.org/10.1063/5.0217838).
- [174] Hua, M., J. Bortnik, and D. Ma (2024), Machine-Learning Based Identification of the Critical Driving Factors Controlling Storm-Time Outer Radiation Belt Electron Flux Dropouts, *Geophys. Res. Lett.*, **51**(10), e2024GL108268, [10.1029/2024GL108268](https://doi.org/10.1029/2024GL108268).
- [175] Huang, H., Z. Zou, J. Hu, W. San, Q. Yuan, B. Zhu, and W. Zhou (2024), Characteristics of radiation belt energetic protons and the movement of their core location in response to geomagnetic disturbances, *Phys. Fluids*, **36**(7), 076601, [10.1063/5.0216361](https://doi.org/10.1063/5.0216361).
- [176] Huang, Y., D. Shi, X. Zhang, X. Ma, P. Zhang, S. Zheng, L. Song, X. Zhao, W. Chen, R. Qiao, X. Song, J. Wang, C. Cai, S. Xiao, Y. Zhang, and S. Xiong (2024), The GECAM Real-time Burst Alert System, *Res. Astron. Astrophys.*, **24**(10), 104004, [10.1088/1674-4527/ad6839](https://doi.org/10.1088/1674-4527/ad6839).
- [177] Huang, Z., G. Tóth, N. Sachdeva, and B. van der Holst (2024), Solar Wind Driven from GONG Magnetograms in the Last Solar Cycle, *Astrophys. J.*, **965**(1), 1, [10.3847/1538-4357/ad32ca](https://doi.org/10.3847/1538-4357/ad32ca).
- [178] Hussenot-Desenonges, T., T. Wouters, N. Guessoum, I. Abdi, A. Abulwfa, C. Adami, J. F. Agüí Fernández, T. Ahumada, V. Aivazyan, D. Akl, S. Anand, C. M. Andrade, S. Antier, S. A. Ata, P. D'Avanzo, Y. A. Azzam, A. Baransky, S. Basa, M. Blazek, P. Bendjoya, S. Beradze, P. Boumis, M. Bremer, R. Brivio, V. Buat, M. Bulla, O. Burkhanov, E. Burns, S. B. Cenko, M. W. Coughlin, W. Corradi, F. Daigne, T. Dietrich, D. Dornic, J. G. Ducoin, P. A. Duverne, E. G. Elhosseiny, F. I. Elnagahy, M. A. El-Sadek, M. Ferro, E. Le Floc'h, M. Freeberg, J. P. U. Fynbo, D. Götz, E. Gurbanov, G. M. Hamed, E. Hasanov, B. F. Healy, K. E. Heintz, P. Hello, R. Inasaridze, A. Iskandar, N. Ismailov, L. Izzo, S. Jhawar, T. Jegou du Laz, T. M. Kamel, S. Karpov, A. Klotz, E. Koulouridis, N. P. Kuin, N. Kochiashvili, S. Leonini, K. X. Lu, D. B. Malesani, M. Mašek, J. Mao, A. Melandri, B. M. Mihov, R. Natsvlishvili, F. Navarete, V. Nedora, J. Nicolas, M. Odeh, J. Palmerio, P. T. H. Pang, M. De Pasquale, H. W. Peng, S. Pormente, J. Peloton, T. Pradier, O. Pyshna, Y. Rajabov, N. A. Rakotondrainibe, J. P. Rivet, L. Rousselot, A. Saccardi, N. Sasaki, B. Schneider, M. Serrau, A. Shokry, L. Slavcheva-Mihova, A. Simon, O. Sokoliuk, G. Srinivasaragavan, R. Strausbaugh, A. Takey, N. R. Tanvir, C. C.

List of Refereed Publications
Wind Spacecraft: 2024

- Thöne, Y. Tillayev, I. Tosta e Melo, D. Turpin, A. de Ugarte Postigo, V. Vasylenko, S. D. Vergani, Z. Vidadi, D. Xu, L. T. Wang, X. F. Wang, J. M. Winters, X. L. Zhang, and Z. Zhu (2024), Multiband analyses of the bright GRB 230812B and the associated SN2023pel, *Mon. Not. Roy. Astron. Soc.*, **530**(1), 1–19, [10.1093/mnras/stae503](https://doi.org/10.1093/mnras/stae503).
- [179] Hutchinson, I. H. (2024), Kinetic solitary electrostatic structures in collisionless plasma: Phase-space holes, *Reviews of Modern Physics*, **96**(4), 045007, [10.1103/RevModPhys.96.045007](https://doi.org/10.1103/RevModPhys.96.045007).
- [180] Imtiaz, N., T. Dugassa, A. Calabia, C. Anoruo, and A. Kashcheyev (2024), Westward PPEF Plays Important Role in the Suppression of Post-Midnight Plasma Irregularities: A Case Study of the November 2021 Geomagnetic Storm, *J. Geophys. Res.*, **129**(6), e2023JA032367, [10.1029/2023JA032367](https://doi.org/10.1029/2023JA032367).
- [181] Irani, I., P. Chen, J. Morag, S. Schulze, A. Gal-Yam, N. L. Strotjohann, O. Yaron, E. A. Zimmerman, A. Sharon, D. A. Perley, J. Sollerman, A. Tohuavavohu, K. K. Das, M. M. Kasliwal, R. Bruch, T. G. Brink, W. Zheng, A. V. Filippenko, K. C. Patra, S. S. Vasylyev, Y. Yang, M. J. Graham, J. S. Bloom, P. Mazzali, J. Purdum, R. R. Laher, A. Wold, Y. Sharma, L. Lacroix, and M. S. Medford (2024), SN 2022oqm—A Ca-rich Explosion of a Compact Progenitor Embedded in C/O Circumstellar Material, *Astrophys. J.*, **962**(2), 109, [10.3847/1538-4357/ad04d7](https://doi.org/10.3847/1538-4357/ad04d7).
- [182] James, A. W., and H. A. S. Reid (2024), Estimating the Total Energy Content in Escaping Accelerated Solar Electron Beams, *Astrophys. J.*, **976**(1), 128, [10.3847/1538-4357/ad7b38](https://doi.org/10.3847/1538-4357/ad7b38).
- [183] Janda, B., F. Němec, Z. Němeček, and J. Šafránková (2024), Dawn-Dusk Asymmetry of the Magnetopause Distance Under the Parker Spiral Configuration of the IMF, *J. Geophys. Res.*, **129**(11), 2024JA033181, [10.1029/2024JA033181](https://doi.org/10.1029/2024JA033181).
- [184] Jiang, J.-N., Z.-M. Zou, Y. Lu, J. Zhong, Y. Wang, Y.-Z. Ma, and B.-L. Zhao (2024), A Superposed Epoch Analysis of Auroral Oval Coverage During Substorms Using Deep Learning-Based Segmentation Models, *Space Weather*, **22**(5), e2023SW003764, [10.1029/2023SW003764](https://doi.org/10.1029/2023SW003764).
- [185] Jiang, Z., Z. Zhang, X. He, Y. Li, and H. Yuan (2024), Efficient and accurate TEC modeling and prediction approach with random forest and Bi-LSTM for large-scale region, *Adv. Space Res.*, **73**(1), 650–662, [10.1016/j.asr.2023.09.003](https://doi.org/10.1016/j.asr.2023.09.003).
- [186] Johnson, E., B. A. Maruca, M. McManus, M. Stevens, K. G. Klein, and P. Mostafavi (2024), Application of collisional analysis to the differential velocity of solar wind ions, *Front. Astron. Space Sci.*, **10**, 1284913, [10.3389/fspas.2023.1284913](https://doi.org/10.3389/fspas.2023.1284913).
- [187] Joslyn, K., N. Karna, and T. Niembro Hernández (2024), Reconstructing The Story of Consecutive Prominence Eruptions Related To An Intense Geomagnetic Storm, in *American Astronomical Society Meeting Abstracts*, *American Astronomical Society Meeting Abstracts*, vol. 243, p. 362.11.

List of Refereed Publications
Wind Spacecraft: 2024

- [188] Jun, C. W., Y. Miyoshi, S. Nakamura, M. Shoji, T. Hori, J. Bortnik, L. Lyons, I. Shishohara, and A. Matsuoka (2024), A Triggering Process for Nonlinear EMIC Waves Driven by the Compression of the Dayside Magnetosphere, *Geophys. Res. Lett.*, **51**(1), e2023GL106860, [10.1029/2023GL106860](https://doi.org/10.1029/2023GL106860).
- [189] Kalita, B. R., P. K. Bhuyan, M. Choudhary, D. Chakrabarty, R. C. Tiwari, M. Le. Huy, K. Wang, K. Hozumi, T. Komolmis, and S. J. Nath (2024), The differential conjugate hemisphere ionospheric response during solstice storms and the winter side maxima, *Adv. Space Res.*, **73**(3), 1893–1907, [10.1016/j.asr.2023.11.025](https://doi.org/10.1016/j.asr.2023.11.025).
- [190] Kamaletdinov, S. R., A. V. Artemyev, A. Runov, and V. Angelopoulos (2024), Thin Current Sheets in the Magnetotail at Lunar Distances: Statistics of ARTEMIS Observations, *J. Geophys. Res.*, **129**(3), e2023JA032130, [10.1029/2023JA032130](https://doi.org/10.1029/2023JA032130).
- [191] Kann, D. A., A. Rossi, S. R. Oates, S. Klose, M. Blazek, J. F. Agüí Fernández, A. de Ugarte Postigo, C. C. Thöne, and S. Schulze (2024), Highly luminous supernovae associated with gamma-ray bursts. II. The luminous blue bump in the afterglow of GRB 140506A, *Astron. & Astrophys.*, **684**, A164, [10.1051/0004-6361/202142344](https://doi.org/10.1051/0004-6361/202142344).
- [192] Kapil, C., G. K. Seemala, I. Katual, and A. P. Dimri (2024), Ionospheric response to PPEF events in the Indian region during high and low intense geomagnetic storms, *Adv. Space Res.*, **73**(8), 4329–4341, [10.1016/j.asr.2024.01.018](https://doi.org/10.1016/j.asr.2024.01.018).
- [193] Kapotseva, K., Y. Shugay, A. Vakhrusheva, V. Kalegaev, A. Shiryaev, and V. Eremeev (2024), CME Forecasting System: Event Selection Algorithm, Dimming Data Application Limitations, and Analysis of the Results for Events of the Solar Cycle 24, *Universe*, **10**(8), 321, [10.3390/universe10080321](https://doi.org/10.3390/universe10080321).
- [194] Karan, D. K., C. R. Martinis, R. W. Eastes, R. E. Daniell, W. E. McClintock, and C.-S. Huang (2024), GOLD Observations of Equatorial Plasma Bubbles Reaching Mid-Latitudes During the 23 April 2023 Geomagnetic Storm, *Space Weather*, **22**(6), e2023SW003847, [10.1029/2023SW003847](https://doi.org/10.1029/2023SW003847).
- [195] Karapetyan, T., A. Chilingarian, G. Hovsepyan, H. Martoyan, B. Sargsyan, R. Langer, J. Chum, N. Nikolova, H. Angelov, D. Haas, J. Knapp, M. Walter, O. Ploc, J. Šlegl, M. Kákona, and I. Ambrožová (2024), The Forbush decrease observed by the SEVAN particle detector network in the 25th solar activity cycle, *J. Atmos. Solar-Terr. Phys.*, **262**, 106305, [10.1016/j.jastp.2024.106305](https://doi.org/10.1016/j.jastp.2024.106305).
- [196] Karpen, J. T., P. Kumar, P. F. Wyper, C. R. DeVore, and S. K. Antiochos (2024), Solar Eruptions in Nested Magnetic Flux Systems, *Astrophys. J.*, **966**(1), 27, [10.3847/1538-4357/ad2eaa](https://doi.org/10.3847/1538-4357/ad2eaa).
- [197] Kataoka, R., Y. Miyoshi, K. Shiokawa, N. Nishitani, K. Keika, T. Amano, and K. Seki (2024), Magnetic Storm-Time Red Aurora as Seen From Hokkaido, Japan on 1 December 2023 Associated With High-Density Solar Wind, *Geophys. Res. Lett.*, **51**(12), e2024GL108778, [10.1029/2024GL108778](https://doi.org/10.1029/2024GL108778).

List of Refereed Publications
Wind Spacecraft: 2024

- [198] Kataoka, R., A. Nakamizo, S. Nakano, and S. Fujita (2024), Machine Learning-Based Emulator for the Physics-Based Simulation of Auroral Current System, *Space Weather*, **22**(1), e2023SW003720, [10.1029/2023SW003720](https://doi.org/10.1029/2023SW003720).
- [199] Kato, Y., K. Shiokawa, Y. Tanaka, M. Ozaki, A. Kadokura, S.-i. Oyama, A. Oinats, M. Connors, and D. Baishev (2024), Longitudinal Development of Cosmic Noise Absorption Based on Multipoint Observations at Subauroral Latitudes During Storm-Time Substorms on 25–28 August 2018, *J. Geophys. Res.*, **129**(1), e2023JA031950, [10.1029/2023JA031950](https://doi.org/10.1029/2023JA031950).
- [200] Kato, Y., K. Shiokawa, Y. Tanaka, M. Ozaki, A. Kadokura, S.-i. Oyama, A. Oinats, M. Connors, and D. Baishev (2024), Spatiotemporal Development of Cosmic Noise Absorption at Subauroral Latitudes Using Multipoint Ground-Based Riometers, *J. Geophys. Res.*, **129**(7), e2023JA032206, [10.1029/2023JA032206](https://doi.org/10.1029/2023JA032206).
- [201] Katrougkalou, M. C., A. Kullen, L. Cai, L. Roth, and Y. Zhang (2024), Transpolar Arcs Are Not Always Cusp-Aligned: Evidence of HiLDA-Aligned Arcs, *Geophys. Res. Lett.*, **51**(21), 2024GL111,246, [10.1029/2024GL111246](https://doi.org/10.1029/2024GL111246).
- [202] Katsavrias, C., G. Nicolaou, S. Di Matteo, L. Kepko, N. M. Viall, S. Aminalragia-Giamini, and G. Livadiotis (2024), Proton polytropic behavior of periodic density structures in the solar wind, *Astron. & Astrophys.*, **686**, L10, [10.1051/0004-6361/202450217](https://doi.org/10.1051/0004-6361/202450217).
- [203] Katsavrias, C., G. Nicolaou, and G. Livadiotis (2024), Dependence of the polytropic behaviour of solar wind protons on temperature anisotropy and plasma β near L1, *Astron. & Astrophys.*, **691**, L11, [10.1051/0004-6361/202452168](https://doi.org/10.1051/0004-6361/202452168).
- [204] Kepko, L., N. M. Viall, and S. DiMatteo (2024), Periodic Mesoscale Density Structures Comprise a Significant Fraction of the Solar Wind and Are Formed at the Sun, *J. Geophys. Res.*, **129**(1), e2023JA031403, [10.1029/2023JA031403](https://doi.org/10.1029/2023JA031403).
- [205] Khangulyan, D., F. Aharonian, and A. M. Taylor (2024), Naked Forward Shock Seen in the TeV Afterglow Data of GRB 221009A, *Astrophys. J.*, **966**(1), 31, [10.3847/1538-4357/ad3550](https://doi.org/10.3847/1538-4357/ad3550).
- [206] Khoo, L. Y., B. Sánchez-Cano, C. O. Lee, L. Rodríguez-García, A. Kouloumvakos, E. Palmerio, F. Carcaboso, D. Lario, N. Dresing, C. M. S. Cohen, D. J. McComas, B. J. Lynch, F. Fraschetti, I. C. Jebaraj, J. G. Mitchell, T. Nieves-Chinchilla, V. Kru-par, D. Pacheco, J. Giacalone, H. U. Auster, J. Benkhoff, X. Bonnin, E. R. Christian, B. Ehresmann, A. Fedeli, D. Fischer, D. Heyner, M. Holmström, R. A. Leske, M. Mak-simovic, J. Z. D. Mieth, P. Oleynik, M. Pinto, I. Richter, J. Rodríguez-Pacheco, N. A. Schwadron, D. Schmid, D. Telloni, A. Vecchio, and M. E. Wiedenbeck (2024), Multi-spacecraft Observations of a Widespread Solar Energetic Particle Event on 2022 February 15–16, *Astrophys. J.*, **963**(2), 107, [10.3847/1538-4357/ad167f](https://doi.org/10.3847/1538-4357/ad167f).
- [207] Kieokaeaw, R., R. F. Pinto, E. Samara, C. Tao, M. Indurain, B. Lavraud, A. Brunet, V. Génot, A. Rouillard, N. André, S. Bourdarie, C. Katsavrias, F. Darrouzet, B. Grison, and I. Daglis (2024), Helio1D modeling of temporal variation of solar wind: Interfacing

List of Refereed Publications
Wind Spacecraft: 2024

between MULTI-VP and 1D MHD for future operational forecasting at L1, *J. Space Weather Space Clim.*, **14**, 19, [10.1051/swsc/2024018](https://doi.org/10.1051/swsc/2024018).

- [208] Kilpatrick, C. D., N. Tejos, B. C. Andersen, J. X. Prochaska, C. Núñez, E. Fonseca, Z. Hartman, S. B. Howell, T. Seccull, and S. P. Tendulkar (2024), Limits on Optical Counterparts to the Repeating Fast Radio Burst 20180916B from High-speed Imaging with Gemini-North/'Alopeke, *Astrophys. J.*, **964**(2), 121, [10.3847/1538-4357/ad2687](https://doi.org/10.3847/1538-4357/ad2687).
- [209] Kilpuu, E. K. J., S. Good, M. Ala-Lahti, A. Osmane, and V. Koikkalainen (2024), Permutation Entropy And Complexity Analysis Of Large-Scale Solar Wind Structures And Streams, *Annales Geophysicae*, **42**, 163–177, [10.5194/angeo-42-163-2024](https://doi.org/10.5194/angeo-42-163-2024).
- [210] Kim, H., R. Nakamura, H. K. Connor, Y. Zou, F. Plaschke, N. Grimmich, B. M. Walsh, K. A. McWilliams, and J. M. Ruohoniemi (2024), Localized Magnetopause Erosion at Geosynchronous Orbit by Reconnection, *Geophys. Res. Lett.*, **51**(5), e2023GL107085, [10.1029/2023GL107085](https://doi.org/10.1029/2023GL107085).
- [211] Kim, K. H., C. W. Jun, J. W. Kwon, J. Lee, K. Shiokawa, Y. Miyoshi, E. H. Kim, K. Min, J. Seough, K. Asamura, I. Shinohara, A. Matsuoka, S. Yokota, Y. Kasahara, S. Kasahara, T. Hori, K. Keika, A. Kumamoto, and F. Tsuchiya (2024), Observation and Numerical Simulation of Cold Ions Energized by EMIC Waves, *J. Geophys. Res.*, **129**(5), e2023JA032361, [10.1029/2023JA032361](https://doi.org/10.1029/2023JA032361).
- [212] Klein, K.-L., C. Salas Matamoros, A. Hamini, and A. Kollhoff (2024), Non-thermal electrons in an eruptive solar event: Magnetic structure, confinement, and escape into the heliosphere, *Astron. & Astrophys.*, **690**, A382, [10.1051/0004-6361/202450456](https://doi.org/10.1051/0004-6361/202450456).
- [213] Klimov, P. A., V. D. Nikolaeva, R. E. Saraev, K. D. Shchelkanov, A. A. Belov, B. V. Kozelov, A. S. Murashov, A. V. Roldugin, and S. A. Sharakin (2024), Microbursts of the UV atmospheric emission in the auroral zone, *Adv. Space Res.*, **74**(8), 3556–3568, [10.1016/j.asr.2024.06.060](https://doi.org/10.1016/j.asr.2024.06.060).
- [214] Knizhnik, K. J., M. J. Weberg, E. Provornikova, H. P. Warren, M. G. Linton, S. B. Shaik, Y.-K. Ko, S. J. Schonfeld, I. Ugarte-Urra, and L. A. Upton (2024), Assessing the Performance of the ADAPT and AFT Flux Transport Models Using In Situ Measurements from Multiple Satellites, *Astrophys. J.*, **964**(2), 188, [10.3847/1538-4357/ad25f1](https://doi.org/10.3847/1538-4357/ad25f1).
- [215] Koike, H., and S. Taguchi (2024), Ion precipitation in the cusp for northward IMF and its relationship with magnetosheath flow, *Earth, Planets and Space*, **76**(1), 80, [10.1186/s40623-024-02011-w](https://doi.org/10.1186/s40623-024-02011-w).
- [216] Kojima, H., T. Koi, A. Oshima, S. Shibata, T. Tabata, H. Takamaru, K. Yamazaki, S. K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, P. K. Mohanty, S. D. Morris, P. K. Nayak, K. Ramesh, M. Rameez, B. S. Rao, L. V. Reddy, M. Zuberi, Y. Hayashi, S. Kawakami, T. Nakamura, T. Nonaka, S. Ogio, and K. Tanaka (2024), Dependence of the parallel mean free path of high-energy galactic cosmic rays in the heliosphere on their rigidity, and solar activity as measured by the GRAPES-3 experiment, *Phys. Rev. D*, **109**(6), 063011, [10.1103/PhysRevD.109.063011](https://doi.org/10.1103/PhysRevD.109.063011).

List of Refereed Publications
Wind Spacecraft: 2024

- [217] Koklu, K. (2024), Comparison of the first four weak and moderate geomagnetic storms of the 2022 using artificial neural networks, *Adv. Space Res.*, **74**(12), 6292–6308, [10.1016/j.asr.2023.11.029](https://doi.org/10.1016/j.asr.2023.11.029).
- [218] Koller, F., S. Raptis, M. Temmer, and T. Karlsson (2024), The Effect of Fast Solar Wind on Ion Distribution Downstream of Earth's Bow Shock, *Astrophys. J. Lett.*, **964**(1), L5, [10.3847/2041-8213/ad2ddf](https://doi.org/10.3847/2041-8213/ad2ddf).
- [219] Kolpak, V. I., M. M. Mogilevsky, D. V. Chugunin, A. A. Chernyshov, and I. L. Moiseenko (2024), Changes in the Spectrum of Auroral Kilometric Radiation as It Propagates in Inhomogeneous Space Plasma, *Bull. Russian Academy Sci. Phys.*, **88**(3), 381–385, [10.1134/S106287382370555X](https://doi.org/10.1134/S106287382370555X).
- [220] Kornbleuth, M., M. Opher, M. A. Dayeh, J. M. Sokól, Y. Chen, E. Powell, D. L. Turner, I. Baliukin, K. Dialynas, and V. Izmodenov (2024), Inferring the Interstellar Magnetic Field Direction from Energetic Neutral Atom Observations of the Heliotail, *Astrophys. J. Lett.*, **967**(1), L12, [10.3847/2041-8213/ad4498](https://doi.org/10.3847/2041-8213/ad4498).
- [221] Korotova, G. I., and D. G. Sibeck (2024), Multipoint observations of compressional Pc5-6 pulsations in the dawn side magnetosphere: A case study, *Adv. Space Res.*, **73**(1), 597–606, [10.1016/j.asr.2023.10.018](https://doi.org/10.1016/j.asr.2023.10.018).
- [222] Korotova, G. I., and D. G. Sibeck (2024), THEMIS observations of compressional Pc5 pulsations in the dawn- and duskside magnetosphere, *Adv. Space Res.*, **74**(11), 6085–6096, [10.1016/j.asr.2024.09.028](https://doi.org/10.1016/j.asr.2024.09.028).
- [223] Kouloumvakos, A., A. Papaioannou, C. O. G. Waterfall, S. Dalla, R. Vainio, G. M. Mason, B. Heber, P. Kühl, R. C. Allen, C. M. S. Cohen, G. Ho, A. Anastasiadis, A. P. Rouillard, J. Rodríguez-Pacheco, J. Guo, X. Li, M. Hörlöck, and R. F. Wimmer-Schweingruber (2024), The multi-spacecraft high-energy solar particle event of 28 October 2021, *Astron. & Astrophys.*, **682**, A106, [10.1051/0004-6361/202346045](https://doi.org/10.1051/0004-6361/202346045).
- [224] Koya, S., S. Patsourakos, M. K. Georgoulis, and A. Nindos (2024), Assessment of the near-Sun magnetic field of the 10 March 2022 coronal mass ejection observed by Solar Orbiter, *Astron. & Astrophys.*, **690**, A233, [10.1051/0004-6361/202450204](https://doi.org/10.1051/0004-6361/202450204).
- [225] Kozai, M., Y. Hayashi, K. Fujii, K. Munakata, C. Kato, N. Miyashita, A. Kadokura, R. Kataoka, S. Miyake, M. L. Duldig, J. E. Humble, and K. Iwai (2024), Cosmic-Ray North–South Anisotropy: Rigidity Spectrum and Solar Cycle Variations Observed by Ground-based Muon Detectors, *Astrophys. J.*, **977**(2), 160, [10.3847/1538-4357/ad8577](https://doi.org/10.3847/1538-4357/ad8577).
- [226] Krupar, V., O. Kruparova, A. Szabo, F. Nemec, M. Maksimovic, J. C. Martinez Oliveros, D. Lario, X. Bonnin, A. Vecchio, M. Pulupa, and S. D. Bale (2024), Comparative Analysis of Type III Radio Bursts and Solar Flares: Spatial Localization and Correlation with Solar Flare Intensity, *Astrophys. J.*, **961**(1), 88, [10.3847/1538-4357/ad12ba](https://doi.org/10.3847/1538-4357/ad12ba).
- [227] Krupar, V., O. Kruparova, A. Szabo, L. B. Wilson, F. Nemec, O. Santolik, M. Pulupa, K. Issautier, S. D. Bale, and M. Maksimovic (2024), Radial Variations in Solar Type III Radio Bursts, *Astrophys. J. Lett.*, **967**(2), L32, [10.3847/2041-8213/ad4be7](https://doi.org/10.3847/2041-8213/ad4be7).

List of Refereed Publications
Wind Spacecraft: 2024

- [228] Kruparova, O., V. Krupar, A. Szabo, D. Lario, T. Nieves-Chinchilla, and J. C. Martinez Oliveros (2024), Unveiling the Interplanetary Solar Radio Bursts of the 2024 Mother's Day Solar Storm, *Astrophys. J. Lett.*, **970**(1), L13, [10.3847/2041-8213/ad5da6](https://doi.org/10.3847/2041-8213/ad5da6).
- [229] Kumar, R. N., C. R. D. Inbaseelan, E. Karthikeyan, M. Nithyasree, and J. H. Johnson (2024), Analysis of solar energetic particle (SEP) event on the geomagnetic environment during 24th solar cycle, *Astrophys. Space Sci.*, **369**(6), 56, [10.1007/s10509-024-04320-8](https://doi.org/10.1007/s10509-024-04320-8).
- [230] Kumar, S., T. I. Pulkkinen, and J. Gjerloev (2024), Magnetotail Variability During Magnetospheric Substorms, *J. Geophys. Res.*, **129**(3), e2023JA031722, [10.1029/2023JA031722](https://doi.org/10.1029/2023JA031722).
- [231] Kumbhar, K., A. Raghav, O. Dhamane, K. Ghag, V. Pawaskar, Z. Shaikh, A. Bhaskar, R. D'Amicis, and D. Telloni (2024), Observation of Kinetic Alfvén Waves inside an Interplanetary Coronal Mass Ejection Magnetic Cloud at 1 au, *Astrophys. J.*, **965**(2), 139, [10.3847/1538-4357/ad323c](https://doi.org/10.3847/1538-4357/ad323c).
- [232] Kurien, L. V., S. G. Kanekal, S. Di Matteo, A. D. Greeley, Q. Schiller, M. Shumko, N. M. Viiall, and E. L. Kepko (2024), Outer Zone Relativistic Electron Response to Mesoscale Periodic Density Structures in the Solar Wind: Van Allen Probes Measurements, *J. Geophys. Res.*, **129**(10), e2024JA032614, [10.1029/2024JA032614](https://doi.org/10.1029/2024JA032614).
- [233] Kurt, V. G., A. M. Veronig, G. D. Fleishman, J. Hinterreiter, J. Tschernitz, and A. L. Lysenko (2024), Coupling between magnetic reconnection, energy release, and particle acceleration in the X17.2 2003 October 28 solar flare, *Astron. & Astrophys.*, **686**, A195, [10.1051/0004-6361/202349130](https://doi.org/10.1051/0004-6361/202349130).
- [234] Kuznetsov, A., Z. Wu, S. Anfinogentov, Y. Su, and Y. Chen (2024), Electron acceleration and transport in the 2023-03-06 solar flare, *Front. Astron. Space Sci.*, **11**, 1407955, [10.3389/fspas.2024.1407955](https://doi.org/10.3389/fspas.2024.1407955).
- [235] Laitinen, J., L. Holappa, and H. Vanhamäki (2024), The Polarity of IMF B_y Strongly Modulates Particle Precipitation During High-Speed Streams, *Geophys. Res. Lett.*, **51**(17), e2024GL110877, [10.1029/2024GL110877](https://doi.org/10.1029/2024GL110877).
- [236] Laker, R., T. S. Horbury, H. O'Brien, E. J. Fauchon-Jones, V. Angelini, N. Farglette, T. Amerstorfer, M. Bauer, C. Möstl, E. E. Davies, J. A. Davies, R. Harrison, D. Barnes, and M. Dumbović (2024), Using Solar Orbiter as an Upstream Solar Wind Monitor for Real Time Space Weather Predictions, *Space Weather*, **22**(2), e2023SW003628, [10.1029/2023SW003628](https://doi.org/10.1029/2023SW003628).
- [237] Lang, J. T., R. D. Strauss, N. E. Engelbrecht, J. P. van den Berg, N. Dresing, D. Ruffolo, and R. Bandyopadhyay (2024), A Detailed Survey of the Parallel Mean Free Path of Solar Energetic Particle Protons and Electrons, *Astrophys. J.*, **971**(1), 105, [10.3847/1538-4357/ad55c3](https://doi.org/10.3847/1538-4357/ad55c3).
- [238] Lario, D., L. A. Balmaceda, R. Gómez-Herrero, G. M. Mason, V. Krupar, C. Mac Cormack, A. Kouloumvakos, I. Cernuda, H. Collier, I. G. Richardson, P. Kumar, S. Krucker,

List of Refereed Publications
Wind Spacecraft: 2024

- F. Carcaboso, N. Wijsen, R. D. Strauss, N. Dresing, A. Warmuth, J. Rodríguez-Pacheco, L. Rodríguez-García, I. C. Jebaraj, G. C. Ho, R. Bućk, D. Pacheco, F. Espinosa Lara, A. Hutchinson, T. S. Horbury, L. Rodríguez, N. P. Janitzek, A. N. Zhukov, A. Aran, and N. V. Nitta (2024), A Rapid Sequence of Solar Energetic Particle Events Associated with a Series of Extreme-ultraviolet Jets: Solar Orbiter, STEREO-A, and Near-Earth Spacecraft Observations, *Astrophys. J.*, **975**(1), 84, [10.3847/1538-4357/ad6c47](https://doi.org/10.3847/1538-4357/ad6c47).
- [239] Larrodera, C., and M. Temmer (2024), Evolution of coronal mass ejections with and without sheaths from the inner to the outer heliosphere: Statistical investigation for 1975 to 2022, *Astron. & Astrophys.*, **685**, A89, [10.1051/0004-6361/202348641](https://doi.org/10.1051/0004-6361/202348641).
- [240] Lavrukhan, A. S., I. I. Alexeev, E. S. Belenkaya, V. V. Kalegaev, I. S. Nazarkov, and D. V. Nevsky (2024), Magnetosphere and Auroral Oval Dynamics during February 27, 2023 Magnetic Storm, *Cosmic Res.*, **62**(2), 162–177, [10.1134/S0010952523600324](https://doi.org/10.1134/S0010952523600324).
- [241] Lazzati, D., R. Perna, T. Ryu, and K. Breivik (2024), Delayed Emission from Luminous Blue Optical Transients in Black Hole Binary Systems, *Astrophys. J. Lett.*, **972**(1), L17, [10.3847/2041-8213/ad70ba](https://doi.org/10.3847/2041-8213/ad70ba).
- [242] Lazzeri, C., A. Samsonov, C. Forsyth, G. Branduardi-Raymont, and Y. V. Bogdanova (2024), A Statistical Study of the Properties of, and Geomagnetic Responses to, Large, Rapid Southward Turnings of the Interplanetary Magnetic Field, *J. Geophys. Res.*, **129**(9), e2023JA032160, [10.1029/2023JA032160](https://doi.org/10.1029/2023JA032160).
- [243] Le, G., G. Liu, E. Yizengaw, C.-C. Wu, Y. Zheng, S. Vines, and N. Buzulukova (2024), Responses of Field-Aligned Currents and Equatorial Electrojet to Sudden Decrease of Solar Wind Dynamic Pressure During the March 2023 Geomagnetic Storm, *Geophys. Res. Lett.*, **51**(10), e2024GL109427, [10.1029/2024GL109427](https://doi.org/10.1029/2024GL109427).
- [244] Lee, J.-Y., S. Kahler, J. C. Raymond, and Y.-K. Ko (2024), Solar Energetic Particle Charge States and Abundances with Nonthermal Electrons, *Astrophys. J.*, **963**(1), 70, [10.3847/1538-4357/ad1ab6](https://doi.org/10.3847/1538-4357/ad1ab6).
- [245] Lei, G. Y., M. Zhou, Y. Pang, Z. H. Zhong, and X. H. Deng (2024), Quantified Plasma Heating and Energy Dissipation in the Earth's Quasi-perpendicular Bow Shock, *Astrophys. J.*, **964**(2), 156, [10.3847/1538-4357/ad2faf](https://doi.org/10.3847/1538-4357/ad2faf).
- [246] Levan, A. J., B. P. Gompertz, O. S. Salafia, M. Bulla, E. Burns, K. Hotokezaka, L. Izzo, G. P. Lamb, D. B. Malesani, S. R. Oates, M. E. Ravasio, A. Rouco Escorial, B. Schneider, N. Sarin, S. Schulze, N. R. Tanvir, K. Ackley, G. Anderson, G. B. Brammer, L. Christensen, V. S. Dhillon, P. A. Evans, M. Fausnaugh, W.-f. Fong, A. S. Fruchter, C. Fryer, J. P. U. Fynbo, N. Gaspari, K. E. Heintz, J. Hjorth, J. A. Kennea, M. R. Kennedy, T. Laskar, G. Leloudas, I. Mandel, A. Martin-Carrillo, B. D. Metzger, M. Nicholl, A. Nugent, J. T. Palmerio, G. Pugliese, J. Rastinejad, L. Rhodes, A. Rossi, A. Saccardi, S. J. Smartt, H. F. Stevance, A. Tohuvavohu, A. van der Horst, S. D. Vergani, D. Watson, T. Barclay, K. Bhirombhakdi, E. Breedt, A. A. Breeveld, A. J. Brown, S. Campana, A. A. Chrimes, P. D'Avanzo, V. D'Elia, M. De Pasquale, M. J. Dyer, D. K. Galloway,

List of Refereed Publications
Wind Spacecraft: 2024

- J. A. Garbutt, M. J. Green, D. H. Hartmann, P. Jakobsson, P. Kerry, C. Kouveliotou, D. Langeroodi, E. Le Floc'h, J. K. Leung, S. P. Littlefair, J. Munday, P. O'Brien, S. G. Parsons, I. Pelisoli, D. I. Sahman, R. Salvaterra, B. Sbarufatti, D. Steeghs, G. Tagliaferri, C. C. Thöne, A. de Ugarte Postigo, and D. A. Kann (2024), Heavy-element production in a compact object merger observed by JWST, *Nature*, **626**(8000), 737–741, [10.1038/s41586-023-06759-1](https://doi.org/10.1038/s41586-023-06759-1).
- [247] Li, D., H. Dong, W. Chen, Y. Su, Y. Huang, and Z. Ning (2024), A Statistical Investigation of the Neupert Effect in Solar Flares Observed with ASO-S/HXI, *Solar Phys.*, **299**(5), 57, [10.1007/s11207-024-02299-7](https://doi.org/10.1007/s11207-024-02299-7).
- [248] Li, H., and X. Feng (2024), On the northward shift of the heliospheric current sheet at the end of solar cycle 24, *Mon. Not. Roy. Astron. Soc.*, **532**(3), 3180–3186, [10.1093/mnras/stae1690](https://doi.org/10.1093/mnras/stae1690).
- [249] Li, H., X. Liu, and C. Wang (2024), How Solar Wind Controls the Recovery Phase Morphology of Intense Magnetic Storms, *J. Geophys. Res.*, **129**(3), e2023JA032057, [10.1029/2023JA032057](https://doi.org/10.1029/2023JA032057).
- [250] Li, W., L. Liu, Y. Chen, Y.-J. Zhou, H. Le, and R. Zhang (2024), Interplanetary Influence on Thermospheric Mass Density: Insights From Deep Learning Analyses, *Space Weather*, **22**(9), e2024SW003952, [10.1029/2024SW003952](https://doi.org/10.1029/2024SW003952).
- [251] Li, X., S. P. Valliappan, D. Shukhobodskaya, M. D. Butala, L. Rodriguez, J. Magdalenic, and V. Delouille (2024), A Transfer Learning Method to Generate Synthetic Synoptic Magnetograms, *Space Weather*, **22**(1), e2023SW003499, [10.1029/2023SW00349910.22541/essoar.168121495.53024244/v1](https://doi.org/10.1029/2023SW00349910.22541/essoar.168121495.53024244/v1).
- [252] Li, Y., W. Gong, C. Yan, K. Zhu, M. Zhang, and Q. Zhang (2024), Freshly Developed Low-Latitude Postmidnight-To-Dawn F-Region Ionospheric Irregularities Over China on 13 November 2015, *Earth and Space Science*, **11**(9), e2023EA003380, [10.1029/2023EA003380](https://doi.org/10.1029/2023EA003380).
- [253] Li, Y., Y. Yang, F. Shen, B. Tang, and R. Lin (2024), CME Arrival Time Prediction Based on Coronagraph Observations and Machine-learning Techniques, *Astrophys. J.*, **976**(1), 141, [10.3847/1538-4357/ad82e5](https://doi.org/10.3847/1538-4357/ad82e5).
- [254] Liang, Y., X. Zhao, N. Xiang, S. Feng, F. Li, L. Deng, M. Wan, and R. Li (2024), Predicting Arrival Times of the CCMC CME/Shock Events Based on the SPM3 Model, *Astrophys. J.*, **976**(2), 235, [10.3847/1538-4357/ad84f0](https://doi.org/10.3847/1538-4357/ad84f0).
- [255] Liao, J., L. M. Kistler, C. G. Mouikis, S. A. Fuselier, and M. Hedlund (2024), Assessing the Sources of the O⁺ in the Plasma Sheet, *J. Geophys. Res.*, **129**(8), e2024JA032635, [10.1029/2024JA032635](https://doi.org/10.1029/2024JA032635).
- [256] Liberatore, A., C. R. Braga, M. Temmer, G. M. Cappello, D. Telloni, P. C. Liewer, A. Vourlidas, M. Velli, D. Heyner, H.-U. Auster, I. Richter, D. Schmid, D. Fischer, and C. Möstl (2024), Challenges in Forecasting the Evolution of a Distorted CME Observed

List of Refereed Publications
Wind Spacecraft: 2024

During the First Close Solar Orbiter Perihelion, *Astrophys. J.*, **970**(1), 81, [10.3847/1538-4357/ad5003](https://doi.org/10.3847/1538-4357/ad5003).

- [257] Lin, R., Z. Luo, J. He, L. Xie, C. Hou, and S. Chen (2024), Prediction of Solar Wind Speed Through Machine Learning From Extrapolated Solar Coronal Magnetic Field, *Space Weather*, **22**(6), e2023SW003561, [10.1029/2023SW003561](https://doi.org/10.1029/2023SW003561).
- [258] Liou, K., and C.-C. Wu (2024), Solar Energetic Particle and the Heliospheric Current Sheet, *Astrophys. J.*, **966**(1), 16, [10.3847/1538-4357/ad33c2](https://doi.org/10.3847/1538-4357/ad33c2).
- [259] Liu, H., H. Gao, Z. Li, J. Xu, W. Bai, L. Sun, and Z. Li (2024), Response of NO 5.3 μm Emission to the Geomagnetic Storm on 24 April 2023, *Remote Sensing*, **16**(19), 3683, [10.3390/rs16193683](https://doi.org/10.3390/rs16193683).
- [260] Liu, J., C. Shen, Y. Wang, M. Xu, Y. Chi, Z. Zhong, D. Mao, Z. Zhang, C. Wang, J. Liu, and Y. Wang (2024), Forecasting the Dst Index with Temporal Convolutional Network and Integrated Gradients, *Solar Phys.*, **299**(7), 98, [10.1007/s11207-024-02340-9](https://doi.org/10.1007/s11207-024-02340-9).
- [261] Liu, T. Z., V. Angelopoulos, A. Vu, H. Zhang, A. Otto, and K. Zhang (2024), THEMIS Observations of Magnetosheath-Origin Foreshock Ions, *J. Geophys. Res.*, **129**(2), e2023JA031969, [10.1029/2023JA031969](https://doi.org/10.1029/2023JA031969).
- [262] Liu, T. Z., V. Angelopoulos, H. Zhang, A. Vu, and J. Raeder (2024), Magnetosheath Ion Field-Aligned Asymmetry and Implications for Ion Leakage to the Foreshock, *J. Geophys. Res.*, **129**(5), e2023JA032339, [10.1029/2023JA032339](https://doi.org/10.1029/2023JA032339).
- [263] Liu, W., J. Guo, Y. Wang, and T. C. Slaba (2024), A Comprehensive Comparison of Various Galactic Cosmic-Ray Models to the State-of-the-art Particle and Radiation Measurements, *Astrophys. J. Suppl.*, **271**(1), 18, [10.3847/1538-4365/ad18ad](https://doi.org/10.3847/1538-4365/ad18ad).
- [264] Liu, X., D. Zhang, A. J. Coster, Z. Xu, X. Shi, and S. Chakraborty (2024), The Morphology and Oscillations of Nightside Mid-Latitude Ionospheric Trough at Designated Longitudes in the Northern Hemisphere, *J. Geophys. Res.*, **129**(9), e2024JA032864, [10.1029/2024JA032864](https://doi.org/10.1029/2024JA032864).
- [265] Liu, X., X. Fan, J. Liu, X. Kong, Y. Chen, Q. Li, S. Li, and J. Zheng (2024), Response of Global Ionospheric Currents to Solar Flares with Extreme Ultraviolet Late Phases, *Astrophys. J.*, **963**(1), 27, [10.3847/1538-4357/ad1930](https://doi.org/10.3847/1538-4357/ad1930).
- [266] Liu, X., L. Qian, P. C. Chamberlin, Y. Chen, X. Kong, Q.-H. Zhang, S. Li, and J. Liu (2024), Data-driven Simulation of Effects of a Solar Flare with Extreme-ultraviolet Late Phase on Ionospheric Electron Density, *Astrophys. J.*, **974**(2), 157, [10.3847/1538-4357/ad6ddf](https://doi.org/10.3847/1538-4357/ad6ddf).
- [267] Liu, Y., W. Su, X. Zhang, J. Zhang, and S. Zhou (2024), Solar Plasma Noise in TianQin Laser Propagation: An Extreme Case and Statistical Analysis, *Astrophys. J.*, **975**(2), 291, [10.3847/1538-4357/ad7bb7](https://doi.org/10.3847/1538-4357/ad7bb7).

List of Refereed Publications
Wind Spacecraft: 2024

- [268] Liu, Y. D., H. Hu, X. Zhao, C. Chen, and R. Wang (2024), A Pileup of Coronal Mass Ejections Produced the Largest Geomagnetic Storm in Two Decades, *Astrophys. J. Lett.*, **974**(1), L8, [10.3847/2041-8213/ad7ba4](https://doi.org/10.3847/2041-8213/ad7ba4).
- [269] Liuzzo, L., A. R. Poppe, C. O. Lee, and V. Angelopoulos (2024), Solar Energetic Electron Access to the Moon Within the Terrestrial Magnetotail and Shadowing by the Lunar Surface, *Geophys. Res. Lett.*, **51**(14), e2024GL110228, [10.1029/2024GL110228](https://doi.org/10.1029/2024GL110228).
- [270] Lockwood, M., and M. Owens (2024), Reconstruction of Carrington Rotation Means of Open Solar Flux over the Past 154 Years, *Solar Phys.*, **299**(3), 28, [10.1007/s11207-024-02268-0](https://doi.org/10.1007/s11207-024-02268-0).
- [271] Loto'aniu, P. T. M., and L. Krista (2024), Spectral Indices and Evidence of Wave–Wave Modulation in Observations of the Interplanetary Magnetic Field, *Astrophys. J.*, **970**(2), 161, [10.3847/1538-4357/ad5314](https://doi.org/10.3847/1538-4357/ad5314).
- [272] Low, K. H., Q. Wen, and Z. Wang (2024), Magnetic field dynamics and noise analysis for space-based GW detector in far-earth orbits: A hybrid modeling approach, *Acta Astronautica*, **224**, 99–111, [10.1016/j.actaastro.2024.08.003](https://doi.org/10.1016/j.actaastro.2024.08.003).
- [273] Lu, X., A. Otto, H. Zhang, T. Liu, and X. Chen (2024), The Bow Shock and Magnetosheath Responses to Density Depletion Structures, *J. Geophys. Res.*, **129**(5), e2024JA032566, [10.1029/2024JA032566](https://doi.org/10.1029/2024JA032566).
- [274] Lugaz, N., B. Zhuang, C. Scolini, N. Al-Haddad, C. J. Farrugia, R. M. Winslow, F. Regnault, C. Möstl, E. E. Davies, and A. B. Galvin (2024), The Width of Magnetic Ejecta Measured near 1 au: Lessons from STEREO-A Measurements in 2021–2022, *Astrophys. J.*, **962**(2), 193, [10.3847/1538-4357/ad17b9](https://doi.org/10.3847/1538-4357/ad17b9).
- [275] Lugaz, N., C. O. Lee, N. Al-Haddad, R. J. Lillis, L. K. Jian, D. W. Curtis, A. B. Galvin, P. L. Whittlesey, A. Rahmati, E. Zesta, M. Moldwin, E. J. Summerlin, D. E. Larson, S. Courtade, R. French, R. Hunter, F. Covitti, D. Cosgrove, J. D. Prall, R. C. Allen, B. Zhuang, R. M. Winslow, C. Scolini, B. J. Lynch, R. J. Filwett, E. Palmerio, C. J. Farrugia, C. W. Smith, C. Möstl, E. Weiler, M. Janvier, F. Regnault, R. Livi, and T. Nieves-Chinchilla (2024), The Need for Near-Earth Multi-Spacecraft Heliospheric Measurements and an Explorer Mission to Investigate Interplanetary Structures and Transients in the Near-Earth Heliosphere, *Space Sci. Rev.*, **220**(7), 73, [10.1007/s11214-024-01108-8](https://doi.org/10.1007/s11214-024-01108-8).
- [276] Lukianova, R., G. Daurbayeva, and A. Siylkanova (2024), Ionospheric and Meteorological Anomalies Associated with the Earthquake in Central Asia on 22 January 2024, *Remote Sensing*, **16**(17), 3112, [10.3390/rs16173112](https://doi.org/10.3390/rs16173112).
- [277] Lukmanov, V. R., I. V. Chashei, S. A. Tyul'bashev, and I. A. Subaev (2024), Analysis of the Causes of the Magnetic Storm on December 1–2, 2023 Based on Observations of Interplanetary Scintillations at the BSA Radio Telescope of the Lebedev Physical Institute, *Astronomy Reports*, **68**(7), 650–656, [10.1134/S1063772924700653](https://doi.org/10.1134/S1063772924700653).

List of Refereed Publications
Wind Spacecraft: 2024

- [278] Luo, Z., L. Xie, S. Fu, Z. Pu, X. Zhou, and X. X. Zhao (2024), Separation of Electron Flux in Pitch Angle Distribution During the Drift Echo Event and Shabansky Orbits Effect, *Geophys. Res. Lett.*, **51**(17), e2024GL109678, [10.1029/2024GL109678](https://doi.org/10.1029/2024GL109678).
- [279] Lyu, D., G. Qin, and Z. N. Shen (2024), Long-Term Variation of the Galactic Cosmic Ray Radiation Dose Rates, *Space Weather*, **22**(1), e2023SW003804, [10.1029/2023SW003804](https://doi.org/10.1029/2023SW003804).
- [280] Ma, D., J. Bortnik, Q. Ma, M. Hua, and X. Chu (2024), Simulating the Earth's Outer Radiation Belt Electron Fluxes and Their Upper Limit: A Unified Physics-Based Model Driven by the AL Index, *Geophys. Res. Lett.*, **51**(10), e2024GL109169, [10.1029/2024GL109169](https://doi.org/10.1029/2024GL109169).
- [281] Ma, J., B. Tang, X. Gao, W. Li, Q. Lu, W. Guo, J. Guo, H. Liu, and C. Wang (2024), The Comprehensive Response of the Magnetopause to the Impact of an Isolated Magnetosheath High-Speed Jet, *Geophys. Res. Lett.*, **51**(21), 2024GL111,132, [10.1029/2024GL111132](https://doi.org/10.1029/2024GL111132).
- [282] Madanian, H., L.-J. Chen, J. Ng, M. J. Starkey, S. A. Fuselier, N. Bessho, D. J. Gershman, and T. Z. Liu (2024), Interaction of the Prominence Plasma within the Magnetic Cloud of an Interplanetary Coronal Mass Ejection with the Earth's Bow Shock, *Astrophys. J.*, **976**(2), 219, [10.3847/1538-4357/ad8579](https://doi.org/10.3847/1538-4357/ad8579).
- [283] Madhanakumar, M., A. Spicher, J. Vierinen, K. Oksavik, A. J. Coster, D. R. Huyghebaert, C. J. Martin, I. Häggström, and L. J. Paxton (2024), The Growth and Decay of Intense GNSS Amplitude and Phase Scintillation During Non-Storm Conditions, *Space Weather*, **22**(12), 2024SW004,108, [10.1029/2024SW004108](https://doi.org/10.1029/2024SW004108).
- [284] Maghrabi, A., A. Aisha, and A. Aied (2024), Exploring the relationship between space weather parameters and cosmic ray muons observed at high cut-off rigidity site: A correlation, artificial neural network, and spectral analysis, *Adv. Space Res.*, **73**(1), 1092–1102, [10.1016/j.asr.2023.11.028](https://doi.org/10.1016/j.asr.2023.11.028).
- [285] Maharana, A., L. Linan, S. Poedts, and J. Magdalenić (2024), Toroidal modified Miller-Turner CME model in EUHFORIA: Validation and comparison with flux rope and spheromak, *Astron. & Astrophys.*, **691**, A146, [10.1051/0004-6361/202450459](https://doi.org/10.1051/0004-6361/202450459).
- [286] Maharana, A., W. D. Cramer, E. Samara, C. Scolini, J. Raeder, and S. Poedts (2024), Employing the Coupled EUHFORIA-OpenGGCM Model to Predict CME Geoeffectiveness, *Space Weather*, **22**(5), e2023SW003715, [10.1029/2023SW003715](https://doi.org/10.1029/2023SW003715).
- [287] Masters, A., J. R. Szalay, S. Zomerdijs-Russell, and M. M. Kao (2024), Solar Wind Power Likely Governs Uranus' Thermosphere Temperature, *Geophys. Res. Lett.*, **51**(22), 2024GL111,623, [10.1029/2024GL111623](https://doi.org/10.1029/2024GL111623).
- [288] Mayank, P., B. Vaidya, W. Mishra, and D. Chakrabarty (2024), SWASTi-CME: A Physics-based Model to Study Coronal Mass Ejection Evolution and Its Interaction with Solar Wind, *Astrophys. J. Suppl.*, **270**(1), 10, [10.3847/1538-4365/ad08c7](https://doi.org/10.3847/1538-4365/ad08c7).

List of Refereed Publications
Wind Spacecraft: 2024

- [289] Maynadié, T., Y. Futaana, S. Barabash, S. Fatemi, M. Wieser, A. Vorburger, A. Bhardwaj, P. Wurz, and K. Asamura (2024), Dynamics and Structure of the South Pole-Aitken Mini-Magnetosphere from Proton and ENA measurements from the SARA Instrument on-board Chandrayaan-1, in *European Planetary Science Congress*, pp. EPSC2024-79, [10.5194/epsc2024-79](https://doi.org/10.5194/epsc2024-79).
- [290] McComas, D. J., M. Alimaganbetov, L. J. Beesley, M. Bzowski, H. O. Funsten, P. H. Janzen, M. A. Kubiak, J. S. Rankin, D. B. Reisenfeld, N. A. Schwadron, and J. R. Szalay (2024), Fourteen Years of Energetic Neutral Atom Observations from IBEX, *Astrophys. J. Suppl.*, **270**(2), 17, [10.3847/1538-4365/ad0a69](https://doi.org/10.3847/1538-4365/ad0a69).
- [291] McGranaghan, R. M. (2024), Complexity Heliophysics: A Lived and Living History of Systems and Complexity Science in Heliophysics, *Space Sci. Rev.*, **220**(5), 52, [10.1007/s11214-024-01081-2](https://doi.org/10.1007/s11214-024-01081-2).
- [292] Mejia-Ott, J. R., and B. M. Randol (2024), Spectral Properties of Suprathermal Protons Associated with Interplanetary Shocks from WIND/STICS Data, *Astrophys. J.*, **974**(2), 255, [10.3847/1538-4357/ad7134](https://doi.org/10.3847/1538-4357/ad7134).
- [293] Melkumyan, A. A., A. V. Belov, N. S. Shlyk, M. A. Abunina, A. A. Abunin, V. A. Oleneva, and V. G. Yanke (2024), Forbush Decreases and Associated Geomagnetic Storms: Statistical Comparison in Solar Cycles 23 and 24, *Solar Phys.*, **299**(3), 40, [10.1007/s11207-024-02281-3](https://doi.org/10.1007/s11207-024-02281-3).
- [294] Meng, Y.-Z., X. I. Wang, and Z.-K. Liu (2024), Significant Cocoon Emission and Photosphere Duration Stretching in GRB 211211A: A Burst from a Neutron Star-Black Hole Merger, *Astrophys. J.*, **963**(2), 112, [10.3847/1538-4357/ad1bd7](https://doi.org/10.3847/1538-4357/ad1bd7).
- [295] Menteso, F. M., A. E. Chukwude, O. Okike, and J. A. Alhassan (2024), The implications of the superposed effect of cosmic ray diurnal anisotropy on weak Forbush Events at Aptity and Moscow Neutron Monitors, *Astrophys. Space Sci.*, **369**(9), 94, [10.1007/s10509-024-04358-8](https://doi.org/10.1007/s10509-024-04358-8).
- [296] Meredith, N. P., T. E. Cayton, M. D. Cayton, and R. B. Horne (2024), Strong Relativistic Electron Flux Events in GPS Orbit, *Space Weather*, **22**(12), 2024SW004,042, [10.1029/2024SW004042](https://doi.org/10.1029/2024SW004042).
- [297] Mereghetti, S., M. Rigoselli, R. Salvaterra, D. P. Pacholski, J. C. Rodi, D. Gotz, E. Arrigoni, P. D'Avanzo, C. Adami, A. Bazzano, E. Bozzo, R. Brivio, S. Campana, E. Cappellaro, J. Chenevez, F. De Luise, L. Ducci, P. Esposito, C. Ferrigno, M. Ferro, G. L. Israel, E. Le Floc'h, A. Martin-Carrillo, F. Onori, N. Rea, A. Reguitti, V. Savchenko, D. Souami, L. Tartaglia, W. Thuillot, A. Tiengo, L. Tomasella, M. Topinka, D. Turpin, and P. Ubertini (2024), A magnetar giant flare in the nearby starburst galaxy M82, *Nature*, **629**(8010), 58–61, [10.1038/s41586-024-07285-4](https://doi.org/10.1038/s41586-024-07285-4).
- [298] Miceli, D., P. Da Vela, and E. Prandini (2024), Prospects for detection of the pair-echo emission from TeV gamma-ray bursts, *Astron. & Astrophys.*, **688**, A57, [10.1051/0004-6361/202449305](https://doi.org/10.1051/0004-6361/202449305).

List of Refereed Publications
Wind Spacecraft: 2024

- [299] Michotte de Welle, B., N. Aunai, B. Lavraud, V. Génot, G. Nguyen, A. Ghisalberti, R. Smets, and A. Jeandet (2024), Global Environmental Constraints on Magnetic Reconnection at the Magnetopause From In Situ Measurements, *J. Geophys. Res.*, **129**(8), e2023JA032098, [10.1029/2023JA032098](https://doi.org/10.1029/2023JA032098).
- [300] Milan, S. E., G. E. Bower, A. L. Fleetham, S. M. Imber, A. Schillings, H. Opgenoorth, J. Gjerloev, L. J. Paxton, S. K. Vines, B. Hubert, and M. R. Hairston (2024), Occurrence and Causes of Large dB/dt Events and AL Bays in the Pre-Midnight and Dawn Sectors, *J. Geophys. Res.*, **129**(10), e2024JA032811, [10.1029/2024JA032811](https://doi.org/10.1029/2024JA032811).
- [301] Miloch, W. J., D. S. Kotova, and Y. Jin (2024), Ionospheric plasma irregularities over Dronning Maud Land in Antarctica and associated space weather effects, *Fundamental Plasma Physics*, **12**, 100076, [10.1016/j.fpp.2024.100076](https://doi.org/10.1016/j.fpp.2024.100076).
- [302] Minaev, P. Y., A. S. Pozanenko, S. A. Grebenev, I. V. Chelovekov, N. S. Pankov, A. A. Khabibullin, R. Y. Inasaridze, and A. O. Novichonok (2024), GRB 231115A—a Magnetar Giant Flare in the M82 Galaxy, *Astron. Lett.*, **50**(1), 1–24, [10.1134/S1063773724600152](https://doi.org/10.1134/S1063773724600152).
- [303] Mischel, S., E. A. Kronberg, and C. P. Escoubet (2024), Evaluating Proton Intensities for the SMILE Mission, *Space Weather*, **22**(12), 2024SW003,934, [10.1029/2024SW00393410.22541/essoar.171415897.71591373/v1](https://doi.org/10.1029/2024SW00393410.22541/essoar.171415897.71591373/v1).
- [304] Miteva, R., S. W. Samwel, and M. Dechev (2024), Energy Dependence of Solar Energetic Protons and Their Origin in Solar Cycles 23 and 24, *Atmosphere*, **15**(8), 1016, [10.3390/atmos15081016](https://doi.org/10.3390/atmos15081016).
- [305] Mohan, A., S. Mondal, S. Wedemeyer, and N. Gopalswamy (2024), Energetic particle activity in AD Leo: Detection of a solar-like type-IV burst, *Astron. & Astrophys.*, **686**, A51, [10.1051/0004-6361/202347924](https://doi.org/10.1051/0004-6361/202347924).
- [306] Mohan, A., N. Gopalswamy, A. Kumari, S. Akiyama, and S. G (2024), Interplanetary Type IV Solar Radio Bursts: A Comprehensive Catalog and Statistical Results, *Astrophys. J.*, **971**(1), 86, [10.3847/1538-4357/ad5315](https://doi.org/10.3847/1538-4357/ad5315).
- [307] Mohan, A., S. Mondal, N. Gopalswamy, A. Kumari, S. Akiyama, S. Gunaseelan, and S. Wedemeyer (2024), Properties of CME-related type-IV radio bursts and its discovery in an active non-solar type star, in *42nd meeting of the Astronomical Society of India (ASI)*, vol. 42, p. O66.
- [308] Mooney, M. K., S. E. Milan, and G. E. Bower (2024), Plasma Observations in the Distant Magnetotail During Intervals of Northward IMF, *J. Geophys. Res.*, **129**(2), e2023JA031999, [10.1029/2023JA031999](https://doi.org/10.1029/2023JA031999).
- [309] Moraes-Santos, S. P., C. M. N. Cândido, F. Becker-Guedes, B. Nava, V. Klausner, C. Borries, F. S. Chingarandi, and T. O. Osanyin (2024), Influence of Solar Wind High-Speed Streams on the Brazilian Low-Latitude Ionosphere During the Descending Phase of Solar Cycle 24, *Space Weather*, **22**(12), 2024SW003,873, [10.1029/2024SW003873](https://doi.org/10.1029/2024SW003873).

List of Refereed Publications
Wind Spacecraft: 2024

- [310] Moreland, K., M. A. Dayeh, H. M. Bain, S. Chatterjee, A. Muñoz-Jaramillo, and S. T. Hart (2024), MEMPSEP-III. A Machine Learning-Oriented Multivariate Data Set for Forecasting the Occurrence and Properties of Solar Energetic Particle Events Using a Multivariate Ensemble Approach, *Space Weather*, **22**(9), e2023SW003765, [10.1029/2023SW003765](https://doi.org/10.1029/2023SW003765).
- [311] Morosan, D. E., J. Pomoell, C. Palmroos, N. Dresing, E. Asvestari, R. Vainio, E. K. J. Kilpuu, J. Gieseler, A. Kumari, and I. C. Jebaraj (2024), Connecting remote and in situ observations of shock-accelerated electrons associated with a coronal mass ejection, *Astron. & Astrophys.*, **683**, A31, [10.1051/0004-6361/202347873](https://doi.org/10.1051/0004-6361/202347873).
- [312] Mostafavi, P., R. C. Allen, V. K. Jagarlamudi, S. Bourouaine, S. T. Badman, G. C. Ho, N. E. Raouafi, M. E. Hill, J. L. Verniero, D. E. Larson, J. C. Kasper, and S. D. Bale (2024), Parker Solar Probe observations of collisional effects on thermalizing the young solar wind, *Astron. & Astrophys.*, **682**, A152, [10.1051/0004-6361/202347134](https://doi.org/10.1051/0004-6361/202347134).
- [313] Mourenas, D., A. V. Artemyev, X.-J. Zhang, and V. Angelopoulos (2024), Impact of EMIC Waves on Electron Flux Dropouts Measured by GPS Spacecraft: Insights From ELFIN, *J. Geophys. Res.*, **129**(10), e2024JA032984, [10.1029/2024JA032984](https://doi.org/10.1029/2024JA032984).
- [314] Munakata, K., Y. Hayashi, M. Kozai, C. Kato, N. Miyashita, R. Kataoka, A. Kadokura, S. Miyake, K. Iwai, E. Echer, A. Dal Lago, M. Rockenbach, N. J. Schuch, J. V. Bageston, C. R. Braga, H. K. Al Jassar, M. M. Sharma, M. L. Duldig, J. E. Humble, I. Sabbah, P. Evenson, T. Kuwabara, and J. Kóta (2024), Global Analysis of the Extended Decreases in Cosmic Rays Observed with Worldwide Networks of Neutron Monitors and Muon Detectors: Temporal Variation of the Rigidity Spectrum and Its Implication, *Astrophys. J.*, **974**(2), 283, [10.3847/1538-4357/ad7466](https://doi.org/10.3847/1538-4357/ad7466).
- [315] Münz, F., J. Řípa, A. Pál, M. Dafčíková, N. Werner, M. Ohno, L. Meszáros, V. Dániel, P. Hanák, J. Hudec, M. Frajt, J. Kapuš, P. Svoboda, J. Dudáš, M. Kasal, T. j. Vítek, M. Kolář, L. Szakszonová, P. Lipovský, M. Duríšková, I. Veřtát, M. Sabol, M. Junas, R. Maroš, P. Kosík, Z. Frei, H. Takahashi, Y. Fukazawa, G. Galgócz, B. Czák, R. László, T. Mizuno, N. Husáriková, and K. Nakazawa (2024), GRBAlpha and VZLUSAT-2: GRB observations with CubeSats after 3 years of operations, in *Space Telescopes and Instrumentation 2024: Ultraviolet to Gamma Ray, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 13093, edited by J.-W. A. den Herder, S. Nikzad, and K. Nakazawa, p. 130936J, [10.1117/12.3025855](https://doi.org/10.1117/12.3025855).
- [316] Naiko, D. Y., I. L. Ovchinnikov, and E. E. Antonova (2024), Spatial Distribution of the Eddy Diffusion Coefficient in the Plasma Sheet of Earth's Magnetotail and Its Dependence on the Interplanetary Magnetic Field and Geomagnetic Activity Based on MMS Satellite Data, *Geomag. and Aeron.*, **64**(2), 172–179, [10.1134/S0016793223600996](https://doi.org/10.1134/S0016793223600996).
- [317] Nanjo, S., and K. Shiokawa (2024), Spatial structures of blue low-latitude aurora observed from Japan during the extreme geomagnetic storm of May 2024, *Earth, Planets and Space*, **76**(1), 156, [10.1186/s40623-024-02090-9](https://doi.org/10.1186/s40623-024-02090-9).

List of Refereed Publications
Wind Spacecraft: 2024

- [318] Narock, T., S. Pal, A. Arsham, A. Narock, and T. Nieves-Chinchilla (2024), Classifying Different Types of Solar-Wind Plasma with Uncertainty Estimations Using Machine Learning, *Solar Phys.*, **299**(9), 131, [10.1007/s11207-024-02379-8](https://doi.org/10.1007/s11207-024-02379-8).
- [319] Ndacyayisenga, T., J. Uwamahoro, K. Sasikumar Raja, J. C. Uwamahoro, C. Kwisanga, and C. Monstein (2024), An Assessment of Solar Cycle 25 progress through observation of SRBs and associated Geomagnetic Storms, *Adv. Space Res.*, **73**(12), 6274–6287, [10.1016/j.asr.2024.03.006](https://doi.org/10.1016/j.asr.2024.03.006).
- [320] Nedal, M., K. Kozarev, R. Miteva, O. Stepanyuk, and M. Dechev (2024), Characterization of the Early Dynamics of Solar Coronal Bright Fronts, *Bulgarian Astron. J.*, **41**, 63, [10.48550/arXiv.2404.03396](https://arxiv.org/abs/2404.03396).
- [321] Negro, M., G. Younes, Z. Wadiasingh, E. Burns, A. Trigg, and M. Baring (2024), The role of magnetar transient activity in time-domain and multimessenger astronomy, *Front. Astron. Space Sci.*, **11**, 1388953, [10.3389/fspas.2024.1388953](https://doi.org/10.3389/fspas.2024.1388953).
- [322] Nesterenok, A. V. (2024), Passage of a Gamma-Ray Burst through a Molecular Cloud: The Absorption of Its Afterglow in the X-ray Wavelength Range, *Astron. Lett.*, **50**(8), 510–522, [10.1134/S1063773724700403](https://doi.org/10.1134/S1063773724700403).
- [323] Nilam, B., S. Tulasi Ram, D. M. Oliveira, and A. P. Dimri (2024), Role of Impact Angle on Equatorial Electrojet (EEJ) Response to Interplanetary (IP) Shocks, *J. Geophys. Res.*, **129**(6), e2024JA032638, [10.1029/2024JA032638](https://doi.org/10.1029/2024JA032638).
- [324] Nishimura, Y., L. R. Lyons, Y. Deng, C. Sheng, W. A. Bristow, E. F. Donovan, V. Angelopoulos, and N. Nishitani (2024), Obtaining Continental-Scale, High-Resolution 2-D Ionospheric Flows and Application to Meso-Scale Flow Science, *J. Geophys. Res.*, **129**(8), e2024JA032924, [10.1029/2024JA032924](https://doi.org/10.1029/2024JA032924).
- [325] Nykiel, G., A. Ferreira, F. Günzkofer, P. Iochem, S. Tasnim, and H. Sato (2024), Large-Scale Traveling Ionospheric Disturbances Over the European Sector During the Geomagnetic Storm on March 23-24, 2023: Energy Deposition in the Source Regions and the Propagation Characteristics, *J. Geophys. Res.*, **129**(3), e2023JA032145, [10.1029/2023JA032145](https://doi.org/10.1029/2023JA032145).
- [326] Nykyri, K., S. Di Matteo, M. O. Archer, X. Ma, M. D. Hartinger, M. Sarantos, E. Zesta, and W. R. Paterson (2024), Could a Low-Frequency Perturbation in the Earth's Magnetotail Be Generated by the Lunar Wake?, *Geophys. Res. Lett.*, **51**(22), 2024GL110,129, [10.1029/2024GL110129](https://doi.org/10.1029/2024GL110129).
- [327] O'Brien, C., B. M. Walsh, Y. Zou, R. Qudsi, S. Tasnim, H. Zhang, and D. G. Sibeck (2024), PRIME-SH: A Data-Driven Probabilistic Model of Earth's Magnetosheath, *J. Geophys. Res.*, **1**(3), e2024JH000235, [10.1029/2024JH000235](https://doi.org/10.1029/2024JH000235).
- [328] Ogino, K., Y. Harada, M. N. Nishino, Y. Saito, S. Yokota, Y. Kasahara, A. Kumamoto, F. Takahashi, and H. Shimizu (2024), Comprehensive characterization of solar wind interaction with lunar crustal magnetic fields: Kaguya low-altitude observations, *Earth, Planets and Space*, **76**(1), 175, [10.1186/s40623-024-02123-3](https://doi.org/10.1186/s40623-024-02123-3).

List of Refereed Publications
Wind Spacecraft: 2024

- [329] Ohma, A., K. M. Laundal, M. Madelaire, S. M. Hatch, S. Gasparini, J. P. Reistad, S. J. Walker, and M. Decotte (2024), Robust Estimates of Spatiotemporal Variations in the Auroral Boundaries Derived From Global UV Imaging, *J. Geophys. Res.*, **129**(4), e2023JA032021, [10.1029/2023JA032021](https://doi.org/10.1029/2023JA032021).
- [330] Ohya, H., T. Suzuki, F. Tsuchiya, H. Nakata, and K. Shiokawa (2024), Variation in the Reflection Height of VLF/LF Transmitter Signals in the D-Region Ionosphere and the Possible Source: A 2018 Meteoroid in Hokkaido, Japan, *Radio Sci.*, **59**(3), e2023RS007801, [10.1029/2023RS007801](https://doi.org/10.1029/2023RS007801).
- [331] Oliveira, D. M., and E. Zesta (2024), Inter-Hemispheric Energy Input Into the Ionosphere-Thermosphere System During Magnetic Storms: What We Can and Cannot Learn From DMSP Observations, *J. Geophys. Res.*, **129**(5), e2024JA032486, [10.1029/2024JA032486](https://doi.org/10.1029/2024JA032486).
- [332] Oliveira, D. M., E. Zesta, and S. Vidal-Luengo (2024), First direct observations of interplanetary shock impact angle effects on actual geomagnetically induced currents: The case of the Finnish natural gas pipeline system, *Front. Astron. Space Sci.*, **11**, 1392697, [10.3389/fspas.2024.1392697](https://doi.org/10.3389/fspas.2024.1392697).
- [333] Oliveira, D. M., R. C. Allen, L. R. Alves, S. P. Blake, B. A. Carter, D. Chakrabarty, G. D'Angelo, K. Delano, E. Echer, C. P. Ferradas, M. G. Finley, B. Gallardo-Lacourt, D. Gershman, J. W. Gjerloev, J. B. Habarulema, M. D. Hartinger, R. Hajra, H. Hayakawa, L. Juusola, K. M. Laundal, R. J. Leamon, M. Madelaire, M. Martínez-Ledesma, S. M. McIntosh, Y. Miyoshi, M. B. Moldwin, E. Nahayo, D. Nandy, B. Nilam, K. Nykyri, W. R. Paterson, M. Piersanti, E. Pietropaolo, C. J. Rodger, T. Shah, A. W. Smith, N. Srivastava, B. T. Tsurutani, S. T. Ram, L. A. Upton, B. Veenadhari, S. Vidal-Luengo, A. Viljanen, S. K. Vines, V. K. Yadav, J.-H. Yee, J. W. Weygand, and E. Zesta (2024), Predicting Interplanetary Shock Occurrence for Solar Cycle 25: Opportunities and Challenges in Space Weather Research, *Space Weather*, **22**(8), e2024SW003964, [10.1029/2024SW003964](https://doi.org/10.1029/2024SW003964).
- [334] Omerbashich, M. (2024), Sun dims as failed star Jupiter tries to go full-on pulsar, *J. Geophys.*, **66**(1), 1–14.
- [335] Ouzounov, D., and G. Khachikyan (2024), On the Impact of Geospace Weather on the Occurrence of M7.8/M7.5 Earthquakes on 6 February 2023 (Turkey), Possibly Associated with the Geomagnetic Storm of 7 November 2022, *Geosciences*, **14**(6), 159, [10.3390/geosciences14060159](https://doi.org/10.3390/geosciences14060159).
- [336] Ouzounov, D., and G. Khachikyan (2024), Study the Global Earthquake Patterns That Follow the St. Patrick's Day Geomagnetic Storms of 2013 and 2015, *Remote Sensing*, **16**(14), 2544, [10.3390/rs16142544](https://doi.org/10.3390/rs16142544).
- [337] Ovchinnikov, I. L., D. Y. Naiko, and E. E. Antonova (2024), Fluctuations of the Electric and Magnetic Fields in the Plasma Sheet of the Earth's Magnetotail According to MMS Data, *Cosmic Res.*, **62**(1), 10–33, [10.1134/S0010952523700788](https://doi.org/10.1134/S0010952523700788).
- [338] Owens, M. J., L. Barnard, and C. N. Arge (2024), The importance of boundary evolution for solar-wind modelling, *Sci. Rep.*, **14**(1), 28975, [10.1038/s41598-024-80162-2](https://doi.org/10.1038/s41598-024-80162-2).

List of Refereed Publications
Wind Spacecraft: 2024

- [339] Owens, M. J., M. Lockwood, L. A. Barnard, I. Usoskin, H. Hayakawa, B. J. S. Pope, and K. McCracken (2024), Reconstructing Sunspot Number by Forward-Modelling Open Solar Flux, *Solar Phys.*, **299**(1), 3, [10.1007/s11207-023-02241-3](https://doi.org/10.1007/s11207-023-02241-3).
- [340] Owens, M. J., L. A. Barnard, R. Muscheler, K. Herbst, M. Lockwood, I. Usoskin, and E. Asvestari (2024), A Geomagnetic Estimate of Heliospheric Modulation Potential over the Last 175 Years, *Solar Phys.*, **299**(6), 84, [10.1007/s11207-024-02316-9](https://doi.org/10.1007/s11207-024-02316-9).
- [341] Oyama, S., H. Vanhamäki, L. Cai, A. Shinbori, K. Hosokawa, T. Sakanoi, K. Shiokawa, A. Aikio, I. I. Virtanen, Y. Ogawa, Y. Miyoshi, S. Kurita, and N. Nishitani (2024), Thermospheric Wind Response to March 2023 Storm: Largest Wind Ever Observed With a Fabry-Perot Interferometer in Tromsø, Norway Since 2009, *Space Weather*, **22**(3), e2023SW003728, [10.1029/2023SW003728](https://doi.org/10.1029/2023SW003728).
- [342] Pal, S., L. F. G. dos Santos, A. J. Weiss, T. Narock, A. Narock, T. Nieves-Chinchilla, L. K. Jian, and S. W. Good (2024), Automatic Detection of Large-scale Flux Ropes and Their Geoeffectiveness with a Machine-learning Approach, *Astrophys. J.*, **972**(1), 94, [10.3847/1538-4357/ad54c3](https://doi.org/10.3847/1538-4357/ad54c3).
- [343] Palma, F., M. Martucci, C. Neubüser, A. Sotgiu, F. M. Follega, P. Ubertini, A. Bazzano, J. C. Rodi, R. Ammendola, D. Badoni, S. Bartocci, R. Battiston, S. Beolè, I. Bertello, W. J. Burger, D. Campana, A. Ciccone, P. Cipollone, S. Coli, L. Conti, A. Contin, M. Cristoforetti, G. D'Angelo, F. De Angelis, C. De Donato, C. De Santis, P. Diego, A. Di Luca, E. Fiorenza, G. Gebbia, R. Iuppa, A. Lega, M. Lolli, B. Martino, G. Masiuantonio, M. Mergè, M. Mese, A. Morbidini, F. Nozzoli, F. Nuccilli, A. Oliva, G. Osteria, F. Palmonari, B. Panico, E. Papini, A. Parmentier, S. Perciballi, F. Perfetto, A. Perinelli, P. Picozza, M. Piersanti, M. Pozzato, G. Rebustini, D. Recchiuti, E. Ricci, M. Ricci, S. B. Ricciarini, A. Russi, Z. Sahnoun, U. Savino, V. Scotti, X. Shen, R. Sparvoli, S. Tofani, N. Vertolli, V. Vilona, V. Vitale, U. Zannoni, Z. Zeren, S. Zoffoli, and P. Zuccon (2024), Gamma-Ray Burst Observations by the High-Energy Particle Detector on board the China Seismo-Electromagnetic Satellite between 2019 and 2021, *Astrophys. J.*, **960**(1), 21, [10.3847/1538-4357/ad06ae](https://doi.org/10.3847/1538-4357/ad06ae).
- [344] Palmerio, E., J. G. Luhmann, M. L. Mays, R. M. Caplan, D. Lario, I. G. Richardson, K. Whitman, C. O. Lee, B. Sánchez-Cano, N. Wijsen, Y. Li, C. Cardoso, M. Pinto, D. Heyner, D. Schmid, H.-U. Auster, and D. Fischer (2024), Improved modelling of SEP event onset within the WSA-Enlil-SEPMOD framework, *J. Space Weather Space Clim.*, **14**, 3, [10.1051/swsc/2024001](https://doi.org/10.1051/swsc/2024001).
- [345] Pan, Q., C. Xiong, H. Lühr, A. Smirnov, Y. Huang, C. Xu, X. Yang, Y. Zhou, and Y. Hu (2024), Machine Learning Based Modeling of Thermospheric Mass Density, *Space Weather*, **22**(5), e2023SW003844, [10.1029/2023SW003844](https://doi.org/10.1029/2023SW003844).
- [346] Papailiou, M., M. Abunina, H. Mavromichalaki, N. Shlyk, S. Belov, A. Abunin, M. Gerontidou, A. Belov, and V. Yanke (2024), Precursory Signs of Large Forbush Decreases: The Criterion of Anisotropy, *Solar Phys.*, **299**(11), 154, [10.1007/s11207-024-02391-y](https://doi.org/10.1007/s11207-024-02391-y).

List of Refereed Publications
Wind Spacecraft: 2024

- [347] Papailiou, M.-C., M. Abunina, H. Mavromichalaki, N. Shlyk, S. Belov, A. Abunin, M. Gerontidou, A. Belov, V. Yanke, and A. Triantou (2024), Precursory Signs of Large Forbush Decreases in Relation to Cosmic Rays Equatorial Anisotropy Variation, *Atmosphere*, **15**(7), 742, [10.3390/atmos15070742](https://doi.org/10.3390/atmos15070742).
- [348] Pappoe, J. A., Y. Akimasa, A. Kandil, and A. Mahrous (2024), Machine learning techniques for estimation of Pc5 geomagnetic pulsations observed at geostationary orbits during solar cycle 23, *J. Atmos. Solar-Terr. Phys.*, **260**, 106258, [10.1016/j.jastp.2024.106258](https://doi.org/10.1016/j.jastp.2024.106258).
- [349] Park, J.-S., Q. Q. Shi, O. A. Troshichev, K.-H. Kim, J.-H. Shue, T. Pitkänen, and H. Zhang (2024), Statistical Features of Polar Cap North and South Indices in Response to Interplanetary and Terrestrial Conditions: A Revisit, *Space Weather*, **22**(4), e2024SW003856, [10.1029/2024SW003856](https://doi.org/10.1029/2024SW003856).
- [350] Paul, K. S., H. Haralambous, and C. Oikonomou (2024), Ionospheric response of the March 2023 geomagnetic storm over European latitudes, *Adv. Space Res.*, **73**(12), 6029–6040, [10.1016/j.asr.2024.03.026](https://doi.org/10.1016/j.asr.2024.03.026).
- [351] Pavlov, D., and I. Dolgakov (2024), Studying the Properties of Spacetime with an Improved Dynamical Model of the Inner Solar System, *Universe*, **10**(11), 413, [10.3390/universe10110413](https://doi.org/10.3390/universe10110413).
- [352] Pedersen, M. N., L. Juusola, H. Vanhamäki, A. T. Aikio, and A. Viljanen (2024), Rapid Geomagnetic Variations During High-Speed Stream, Sheath and Magnetic Cloud-Driven Geomagnetic Storms From 1996 to 2023, *J. Geophys. Res.*, **129**(10), e2024JA032656, [10.1029/2024JA032656](https://doi.org/10.1029/2024JA032656).
- [353] Pesce-Rollins, M., K.-L. Klein, S. Krucker, A. Warmuth, A. M. Veronig, N. Omodei, and C. Monstein (2024), Evidence for flare-accelerated particles in large scale loops in the behind-the-limb gamma-ray solar flare of September 29, 2022, *Astron. & Astrophys.*, **683**, A208, [10.1051/0004-6361/202348088](https://doi.org/10.1051/0004-6361/202348088).
- [354] Petrosian, V., and M. G. Dainotti (2024), Progenitors of Low-redshift Gamma-Ray Bursts, *Astrophys. J. Lett.*, **963**(1), L12, [10.3847/2041-8213/ad2763](https://doi.org/10.3847/2041-8213/ad2763).
- [355] Pierrard, V., A. Winant, E. Botek, and M. Péters de Bonhome (2024), The Mother's Day Solar Storm of 11 May 2024 and Its Effect on Earth's Radiation Belts, *Universe*, **10**(10), 391, [10.3390/universe10100391](https://doi.org/10.3390/universe10100391).
- [356] Pitňa, A., J. Šafránková, Z. Němeček, G. Pi, G. Zank, L. Zhao, L. Adhikari, and M. Nakanotani (2024), Turbulent Heating of Solar Wind Plasma Downstream of Magnetohydrodynamic Shocks, *Astrophys. J.*, **963**(2), 161, [10.3847/1538-4357/ad1c64](https://doi.org/10.3847/1538-4357/ad1c64).
- [357] Posner, A., I. G. Richardson, and R. D. T. Strauss (2024), The “SEP Clock”: A Discussion of First Proton Arrival Times in Wide-Spread Solar Energetic Particle Events, *Solar Phys.*, **299**(9), 126, [10.1007/s11207-024-02350-7](https://doi.org/10.1007/s11207-024-02350-7).

List of Refereed Publications
Wind Spacecraft: 2024

- [358] Prasad, A., W. Li, Q. Ma, and X.-C. Shen (2024), Whistler-Mode Wave Generation During Interplanetary Shock Events in the Earth's Lunar Plasma Environment, *Geophys. Res. Lett.*, **51**(10), e2023GL107392, [10.1029/2023GL107392](https://doi.org/10.1029/2023GL107392).
- [359] Priyadarshi, S. (2024), Prediction of high latitude nightside Geomagnetic Field Disturbances (GGFDs) during the 9-March-2012 geomagnetic storm using Recurrent Neural Network (RNN), *Adv. Space Res.*, **74**(4), 1868–1882, [10.1016/j.asr.2024.05.036](https://doi.org/10.1016/j.asr.2024.05.036).
- [360] Prokhorov, D. A., and A. Moraghan (2024), A blind search for intraday gamma-ray transients with Fermi-LAT: Detections of GRB and solar emissions, *Astron. & Astrophys.*, **687**, A196, [10.1051/0004-6361/202449251](https://doi.org/10.1051/0004-6361/202449251).
- [361] Provornikova, E., V. G. Merkin, A. Vourlidas, A. Malanushenko, S. E. Gibson, E. Winter, and C. N. Arge (2024), MHD Modeling of a Geoeffective Interplanetary Coronal Mass Ejection with the Magnetic Topology Informed by In Situ Observations, *Astrophys. J.*, **977**(1), 106, [10.3847/1538-4357/ad83b1](https://doi.org/10.3847/1538-4357/ad83b1).
- [362] Pump, K., D. Heyner, D. Schmid, W. Exner, and F. Plaschke (2024), Revised Magnetospheric Model Reveals Signatures of Field-Aligned Current Systems at Mercury, *J. Geophys. Res.*, **129**(3), e2023JA031529, [10.1029/2023JA031529](https://doi.org/10.1029/2023JA031529).
- [363] Radhakrishnan, D. K. V., S. A. Fuselier, S. M. Petrinec, R. C. Rice, K. Nykyri, K. J. Trattner, D. J. Gershman, and J. L. Burch (2024), Evidence of Plasma Mixing at the Earth's Magnetopause Due To Kelvin Helmholtz Vortices, *J. Geophys. Res.*, **129**(9), e2024JA032869, [10.1029/2024JA032869](https://doi.org/10.1029/2024JA032869).
- [364] Raja Halim Shah, R. A., N. S. Abdul Hamid, M. Abdullah, A. Annuar, I. Sarudin, Z. Mohd Radzi, and A. Yoshikawa (2024), A Comprehensive Classification and Analysis of Geomagnetic Storms Over Solar Cycle 24, *Res. Astron. Astrophys.*, **24**(8), 085007, [10.1088/1674-4527/ad5b34](https://doi.org/10.1088/1674-4527/ad5b34).
- [365] Rajana, S. S. K., S. K. Panda, S. Jade, C. G. Vivek, A. K. Upadhyaya, A. Bhardwaj, S. Jorphail, and G. K. Seemala (2024), Impact of two severe geomagnetic storms on the ionosphere over Indian longitude sector during March-April 2023, *Astrophys. Space Sci.*, **369**(1), 3, [10.1007/s10509-024-04268-9](https://doi.org/10.1007/s10509-024-04268-9).
- [366] Rakhmanova, L., M. Riazantseva, A. Khokhlachev, Y. Yermolaev, and G. Zastenker (2024), Role of Middle-Scale Solar Wind Structures in the Turbulence Development Behind the Bow Shock, *Geomag. and Aeron.*, **64**(6), 814–823, [10.1134/S0016793224600838](https://doi.org/10.1134/S0016793224600838).
- [367] Rakhmanova, L., A. Khokhlachev, M. Riazantseva, Y. Yermolaev, and G. Zastenker (2024), Changes in and Recovery of the Turbulence Properties in the Magnetosheath for Different Solar Wind Streams, *Universe*, **10**(5), 194, [10.3390/universe10050194](https://doi.org/10.3390/universe10050194).
- [368] Rastinejad, J. C., W. Fong, A. J. Levan, N. R. Tanvir, C. D. Kilpatrick, A. S. Fruchter, S. Anand, K. Bhirombhakdi, S. Covino, J. P. U. Fynbo, G. Halevi, D. H. Hartmann, K. E. Heintz, L. Izzo, P. Jakobsson, T. Kangas, G. P. Lamb, D. B. Malesani, A. Melandri, B. D. Metzger, B. Milvang-Jensen, E. Pian, G. Pugliese, A. Rossi, D. M. Siegel, P. Singh, and

List of Refereed Publications
Wind Spacecraft: 2024

- G. Stratta (2024), A Hubble Space Telescope Search for r-Process Nucleosynthesis in Gamma-Ray Burst Supernovae, *Astrophys. J.*, **968**(1), 14, [10.3847/1538-4357/ad409c](https://doi.org/10.3847/1538-4357/ad409c).
- [369] Ravasio, M. E., O. S. Salafia, G. Oganesyan, A. Mei, G. Ghirlanda, S. Ascenzi, B. Banerjee, S. Macera, M. Branchesi, P. G. Jonker, A. J. Levan, D. B. Malesani, K. B. Mulrey, A. Giuliani, A. Celotti, and G. Ghisellini (2024), A mega-electron volt emission line in the spectrum of a gamma-ray burst, *Science*, **385**(6707), 452–455, [10.1126/science.adj3638](https://doi.org/10.1126/science.adj3638).
- [370] Reames, D. V. (2024), Seeds and sequences of element abundances in solar energetic particle events, *European Physical Journal Plus*, **139**(8), 710, [10.1140/epjp/s13360-024-05478-4](https://doi.org/10.1140/epjp/s13360-024-05478-4).
- [371] Reames, D. V. (2024), Element abundance and the physics of solar energetic particles, *Front. Astron. Space Sci.*, **11**, 1368043, [10.3389/fspas.2024.1368043](https://doi.org/10.3389/fspas.2024.1368043).
- [372] Reda, R., M. Stumpo, L. Giovannelli, T. Alberti, and G. Consolini (2024), Disentangling the solar activity-solar wind predictive causality at Space Climate scales, *Rendiconti Lincei. Scienze Fisiche e Naturali*, **35**(1), 49–61, [10.1007/s12210-023-01213-w](https://doi.org/10.1007/s12210-023-01213-w).
- [373] Reda, R., L. Giovannelli, and T. Alberti (2024), Cross-Scale Phase Relationship of the Ca II K Index with Solar Wind Parameters: A Space Climate Focus, *Solar Phys.*, **299**(8), 105, [10.1007/s11207-024-02346-3](https://doi.org/10.1007/s11207-024-02346-3).
- [374] Remeshan, A. K., M. Dumbović, and M. Temmer (2024), Deriving the Interaction Point between a Coronal Mass Ejection and High-speed Stream: A Case Study, *Astrophys. J.*, **974**(1), 140, [10.3847/1538-4357/ad6c43](https://doi.org/10.3847/1538-4357/ad6c43).
- [375] Ren, N., C. Shen, Y. Ji, J.-S. Park, J.-H. Shue, and Y. Zhou (2024), Applicability of Bernoulli's theorem to upstream and downstream of the bow shock, *Phys. Fluids*, **36**(10), 106610, [10.1063/5.0223996](https://doi.org/10.1063/5.0223996).
- [376] Riazantseva, M. O., T. V. Treves, O. Khabarova, L. S. Rakhmanova, Y. I. Yermolaev, and A. A. Khokhlachev (2024), Linking Turbulent Interplanetary Magnetic Field Fluctuations and Current Sheets, *Universe*, **10**(11), 417, [10.3390/universe10110417](https://doi.org/10.3390/universe10110417).
- [377] Rice, R. C., L.-J. Chen, D. Gershman, S. A. Fuselier, B. L. Burkholder, H. Gurram, J. Beedle, J. Shuster, S. M. Petrinec, C. Pollock, I. Cohen, C. Gabrielse, P. Escoubet, and J. Burch (2024), Dynamics of the Storm Time Magnetopause and Magnetosheath Boundary Layers: An MMS-THEMIS Conjunction, *Geophys. Res. Lett.*, **51**(4), e2023GL106600, [10.1029/2023GL106600](https://doi.org/10.1029/2023GL106600).
- [378] Ridnaia, A., D. Frederiks, and D. Svinkin (2024), A targeted search for FRB counterparts with Konus-Wind, *Mon. Not. Roy. Astron. Soc.*, **527**(3), 5580–5587, [10.1093/mnras/stad3553](https://doi.org/10.1093/mnras/stad3553).
- [379] Rodriguez, L., D. Shukhobodskaya, A. Niemela, A. Maharana, E. Samara, C. Verbeke, J. Magdalenic, R. Vansintjan, M. Mierla, C. Scolini, R. Sarkar, E. Kilpua, E. Asvestari, K. Herbst, G. Lapenta, A. D. Chaduteau, J. Pomoell, and S. Poedts (2024), Validation

List of Refereed Publications
Wind Spacecraft: 2024

of EUHFORIA cone and spheromak coronal mass ejection models, *Astron. & Astrophys.*, **689**, A187, [10.1051/0004-6361/202449530](https://doi.org/10.1051/0004-6361/202449530).

- [380] Rojo, M., M. Persson, J. A. Sauvaud, S. Aizawa, G. Nicolaou, E. Penou, A. Barthe, N. André, C. Mazelle, A. Fedorov, S. Yokota, Y. Saito, D. Heyner, I. Richter, U. Auster, D. Schmid, D. Fischer, T. Horbury, C. J. Owen, M. Maksimovic, Y. Khotyaintsev, P. Louarn, and G. Murakami (2024), Electron moments derived from the Mercury Electron Analyzer during the cruise phase of BepiColombo, *Astron. & Astrophys.*, **683**, A99, [10.1051/0004-6361/202347843](https://doi.org/10.1051/0004-6361/202347843).
- [381] Rojo, M., N. André, S. Aizawa, J. A. Sauvaud, Y. Saito, Y. Harada, A. Fedorov, E. Penou, A. Barthe, M. Persson, S. Yokota, C. Mazelle, L. Z. Hadid, D. Delcourt, D. Fontaine, M. Fränz, B. Katra, N. Krupp, and G. Murakami (2024), Structure and dynamics of the Hermean magnetosphere revealed by electron observations from the Mercury electron analyzer after the first three Mercury flybys of BepiColombo, *Astron. & Astrophys.*, **687**, A243, [10.1051/0004-6361/202449450](https://doi.org/10.1051/0004-6361/202449450).
- [382] Rolla, J., A. Romero-Wolf, and T. J. W. Lazio (2024), An Instrument Error Budget for Space-Based Absolute Flux Measurements of the Sky Synchrotron Spectrum Below 20 MHz, *Radio Sci.*, **59**(9), e2023RS007824, [10.1029/2023RS007824](https://doi.org/10.1029/2023RS007824).
- [383] Ror, A. K., R. Gupta, A. Aryan, S. B. Pandey, S. R. Oates, A. J. Castro-Tirado, and S. Kumar (2024), Exploring the Origin of Ultralong Gamma-Ray Bursts: Lessons from GRB 221009A, *Astrophys. J.*, **971**(2), 163, [10.3847/1538-4357/ad5554](https://doi.org/10.3847/1538-4357/ad5554).
- [384] Rutala, M. J., C. M. Jackman, M. J. Owens, C. Tao, A. R. Fogg, S. A. Murray, and L. Barnard (2024), A Multi-Model Ensemble System for the Outer Heliosphere (MMESH): Solar Wind Conditions Near Jupiter, *J. Geophys. Res.*, **129**(6), e2024JA032613, [10.1029/2024JA032613](https://doi.org/10.1029/2024JA032613).
- [385] Saint-Girons, E., X.-J. Zhang, D. Mourenas, A. V. Artemyev, and V. Angelopoulos (2024), Omnidirectional Energetic Electron Fluxes From 150 to 20,000 km: An ELFIN-Based Model, *J. Geophys. Res.*, **129**(10), e2024JA032977, [10.1029/2024JA032977](https://doi.org/10.1029/2024JA032977).
- [386] Salah, H. M., R. Babatunde, D. Okoh, M. Youssef, and A. Mahrous (2024), Machine learning approach for prediction of ionospheric irregularities on ROTI index over the Northern anomaly crest in Egypt during solar cycle 24, *Adv. Space Res.*, **74**(4), 1810–1827, [10.1016/j.asr.2024.05.022](https://doi.org/10.1016/j.asr.2024.05.022).
- [387] Salinas, H. A., F. D. Wilder, R. E. Lopez, R. J. Strangeway, B. L. Giles, J. L. Burch, R. B. Torbert, and M. Oka (2024), Statistical Analysis of Electric Currents Within the Magnetosheath Using Dayside Magnetospheric Multiscale Mission Observations, *J. Geophys. Res.*, **129**(1), e2023JA031698, [10.1029/2023JA031698](https://doi.org/10.1029/2023JA031698).
- [388] Salohub, A., J. Šafránková, Z. Němeček, and G. Pi (2024), A Novel Determination of the Foreshock ULF Boundary: Statistical Approach, *J. Geophys. Res.*, **129**(12), 2024JA033195, [10.1029/2024JA033195](https://doi.org/10.1029/2024JA033195).

List of Refereed Publications
Wind Spacecraft: 2024

- [389] Samara, E., C. N. Arge, R. F. Pinto, J. Magdalenić, N. Wijsen, M. L. Stevens, L. Rodriguez, and S. Poedts (2024), Calibrating the WSA Model in EUHFORIA Based on Parker Solar Probe Observations, *Astrophys. J.*, **971**(1), 83, [10.3847/1538-4357/ad53c6](https://doi.org/10.3847/1538-4357/ad53c6).
- [390] Sanchez-Garcia, E., J. A. Gonzalez-Esparza, E. Aguilar-Rodriguez, and P. Corona-Romero (2024), Stream Interaction Regions in the Minimum of Solar Cycles 23 and 24, *J. Geophys. Res.*, **129**(1), e2023JA031685, [10.1029/2023JA031685](https://doi.org/10.1029/2023JA031685).
- [391] Sapunova, O., N. Borodkova, and G. Zastenker (2024), Spectral properties of solar wind plasma flux and magnetic field fluctuations across fast reverse interplanetary shocks, *Solar-Terr. Phys.*, **10**(3), 58–65, [10.12737/stp-103202407](https://doi.org/10.12737/stp-103202407).
- [392] Saraogi, D., J. V. Aditya, V. Bhalerao, S. Bala, A. Balasubramanian, S. Mate, T. Chat-topadhyay, S. Gupta, V. Prasad, G. Waratkar, P. K. Navaneeth, R. Gopalakrishnan, D. Bhattacharya, G. Dewangan, and S. Vadawale (2024), Localization of gamma-ray bursts using AstroSat Mass Model, *Mon. Not. Roy. Astron. Soc.*, **530**(2), 1386–1393, [10.1093/mnras/stae435](https://doi.org/10.1093/mnras/stae435).
- [393] Sarkar, R., J. Pomoell, E. Kilpua, E. Asvestari, N. Wijsen, A. Maharana, and S. Poedts (2024), Studying the Spheromak Rotation in Data-constrained Coronal Mass Ejection Modeling with EUHFORIA and Assessing Its Effect on the B_z Prediction, *Astrophys. J. Suppl.*, **270**(2), 18, [10.3847/1538-4365/ad0df4](https://doi.org/10.3847/1538-4365/ad0df4).
- [394] Sasikumar Raja, K., M. Maksimovic, E. P. Kontar, X. Bonnin, P. Zarka, L. Lamy, H. Reid, N. Vilmer, A. Lecacheux, V. Krupar, B. Cecconi, L. Nora, and L. Denis (2024), Spectral Analysis of Solar Radio Type III Bursts from 20 kHz to 410 MHz, in *42nd meeting of the Astronomical Society of India (ASI)*, vol. 42, p. P251.
- [395] Savchenko, V., P. Ubertini, A. Bazzano, J. Craig Rodi, E. Jourdain, J.-P. Roques, A. Martin-Carrillo, L. Hanlon, S. Mereghetti, A. Tiengo, P. Laurent, D. Gotz, C. Ferrigno, and E. Kuulkers (2024), INTEGRAL view of GRB 221009A. Prompt energetics and week-long hard X-ray afterglow, *Astron. & Astrophys.*, **684**, L2, [10.1051/0004-6361/202346336](https://doi.org/10.1051/0004-6361/202346336).
- [396] Savić, M., N. Veselinović, D. Maričić, F. Šterc, R. Banjanac, M. Travar, and A. Dragić (2024), Further Study of the Relationship between Transient Effects in Energetic Proton and Cosmic Ray Fluxes Induced by Coronal Mass Ejections, *Universe*, **10**(7), 283, [10.3390/universe10070283](https://doi.org/10.3390/universe10070283).
- [397] Scolini, C., N. Lugaz, R. M. Winslow, C. J. Farrugia, N. Magyar, and F. Bacchini (2024), On the Role of Alfvénic Fluctuations as Mediators of Coherence within Interplanetary Coronal Mass Ejections: Investigation of Multi-spacecraft Measurements at 1 au, *Astrophys. J.*, **961**(1), 135, [10.3847/1538-4357/ad0ed1](https://doi.org/10.3847/1538-4357/ad0ed1).
- [398] Sergeev, V. A., N. A. Stepanov, Y. Ogawa, E. V. Rozanov, and M. A. Shukhtina (2024), Local Time Distribution and Activity Dependence of Extreme Electron Densities in the Auroral D-Region as an Image of Energy-Dependent Energetic Electron Precipitation, *J. Geophys. Res.*, **129**(10), e2024JA032913, [10.1029/2024JA032913](https://doi.org/10.1029/2024JA032913).

List of Refereed Publications
Wind Spacecraft: 2024

- [399] Shah, T., B. Veenadhari, M. Pandya, and M. Nosé (2024), Energetic ion variations during substorm intervals using the Van Allen Probes data, *Adv. Space Res.*, **73**(7), 3730–3742, [10.1016/j.asr.2023.07.011](https://doi.org/10.1016/j.asr.2023.07.011).
- [400] Shaikh, Z. I. (2024), Turbulence properties of interplanetary coronal mass ejection flux ropes at 1 au, *Mon. Not. Roy. Astron. Soc.*, **530**(3), 3005–3012, [10.1093/mnras/stae897](https://doi.org/10.1093/mnras/stae897).
- [401] Shaikh, Z. I., D. Verscharen, I. Y. Vasko, B. A. Maruca, D. Chakrabarty, and A. N. Raghav (2024), Anisotropic Heating and Cooling within Interplanetary Coronal Mass Ejection Sheath Plasma, *Astrophys. J.*, **974**(2), 249, [10.3847/1538-4357/ad782b](https://doi.org/10.3847/1538-4357/ad782b).
- [402] Shaver, S. R., L. Solt, L. Andersson, J. Halekas, L. Jian, D. E. da Silva, R. Jolitz, D. Malaspina, C. M. Fowler, R. Ramstad, R. Lillis, S. Xu, A. R. Azari, C. Mazelle, A. Rahmati, C. O. Lee, T. Hesse, O. Hamil, M. Pilinski, D. Brain, P. Garnier, T. E. Cravens, J. P. McFadden, K. G. Hanley, D. L. Mitchell, J. R. Espley, J. R. Gruesbeck, D. Larson, and S. Curry (2024), The Martian Ionospheric Response to the Co-Rotating Interaction Region That Caused the Disappearing Solar Wind Event at Mars, *J. Geophys. Res.*, **129**(3), e2023JA032181, [10.1029/2023JA032181](https://doi.org/10.1029/2023JA032181).
- [403] Shen, Y., A. Artemeyev, V. Angelopoulos, T. Z. Liu, and I. Vasko (2024), Comparing Plasma Anisotropy Associated with Solar Wind Discontinuities and Alfvénic Fluctuations, *Astrophys. J.*, **961**(1), 41, [10.3847/1538-4357/ad110b](https://doi.org/10.3847/1538-4357/ad110b).
- [404] Shi, F., D. Li, Z. Ning, A. Warmuth, W. Chen, Y. Su, Y. Li, J. Xu, Y. Song, and Y. Yang (2024), Multiwavelength Observations of Quasiperiodic Pulsations in the Impulsive Phase of an Eruptive Flare with the Hard X-Ray Imager On Board ASO-S and Other Instruments, *Solar Phys.*, **299**(3), 30, [10.1007/s11207-024-02272-4](https://doi.org/10.1007/s11207-024-02272-4).
- [405] Shi, G., L. Feng, B. Ying, S. Li, and W. Gan (2024), Refinement of Global Coronal and Interplanetary Magnetic Field Extrapolations Constrained by Remote-sensing and In Situ Observations at the Solar Minimum, *Astrophys. J.*, **970**(2), 131, [10.3847/1538-4357/ad5200](https://doi.org/10.3847/1538-4357/ad5200).
- [406] Shi, X., H. Fu, Z. Huang, L. Yan, C. Ma, C. Huangfu, H. Song, and L. Xia (2024), The Differences in the Origination and Properties of the Near-Earth Solar Wind between Solar Cycles 23 and 24, *Astrophys. J.*, **972**(1), 54, [10.3847/1538-4357/ad5be1](https://doi.org/10.3847/1538-4357/ad5be1).
- [407] Shlyk, N. S., A. V. Belov, V. N. Obrikko, M. A. Abunina, and A. A. Abunin (2024), Abnormal Quasi-Recurrent Variations of Cosmic Rays in September 2014–February 2015, *Geomag. and Aeron.*, **64**(2), 211–223, [10.1134/S0016793223601096](https://doi.org/10.1134/S0016793223601096).
- [408] Shlyk, N. S., A. V. Belov, M. A. Abunina, S. M. Belov, A. A. Abunin, V. A. Oleneva, and V. G. Yanke (2024), Some Features of Interacting Solar Wind Disturbances, *Geomag. and Aeron.*, **64**(4), 457–467, [10.1134/S0016793224600280](https://doi.org/10.1134/S0016793224600280).
- [409] Shreedevi, P. R., Y. Yu, Y. Miyoshi, X. Tian, M. Zhu, V. K. Jordanova, S. Nakamura, C.-W. Jun, S. Kumar, K. Shiokawa, M. Connors, T. Hori, M. Shoji, I. Shinohara, S. Yokota, S. Kasahara, K. Keika, A. Matsuoka, A. Kadokura, F. Tsuchiya, A. Kumamoto, and

List of Refereed Publications
Wind Spacecraft: 2024

- Y. Kasahara (2024), Global Distribution of EMIC Waves and Its Association to Subauroral Proton Precipitation During the 27 May 2017 Storm: Modeling and Multipoint Observations, *J. Geophys. Res.*, **129**(6), e2023JA032337, [10.1029/2023JA032337](https://doi.org/10.1029/2023JA032337).
- [410] Sierra-Porta, D., J. D. Petro-Ramos, D. J. Ruiz-Morales, D. D. Herrera-Acevedo, A. F. García-Teheran, and M. Tarazona Alvarado (2024), Machine learning models for predicting geomagnetic storms across five solar cycles using Dst index and heliospheric variables, *Adv. Space Res.*, **74**(8), 3483–3495, [10.1016/j.asr.2024.08.031](https://doi.org/10.1016/j.asr.2024.08.031).
- [411] Silveira, M. V. D., D. G. Sibeck, F. R. Cardoso, and J. W. Gjerloev (2024), Tracking the Subsolar Bow Shock and Magnetopause: Applying the Magnetosheath Velocity Gradient Method, *J. Geophys. Res.*, **129**(4), e2023JA032166, [10.1029/2023JA032166](https://doi.org/10.1029/2023JA032166).
- [412] Silwal, A., L. Zhao, G. P. Zank, B. Wang, A. Pitña, S. P. Gautam, B. Park, M. Nakanotani, and X. Zhu (2024), Multispecies Energetic Particle Acceleration Associated with CIR and ICME-driven Shocks, *Astrophys. J.*, **972**(2), 168, [10.3847/1538-4357/ad614e](https://doi.org/10.3847/1538-4357/ad614e).
- [413] Singh, M., D. Singh, K. Lal Pandey, D. Verma, and S. Gupta (2024), Investigating the Evolution of Amati Parameters with Redshift, *Res. Astron. Astrophys.*, **24**(1), 015015, [10.1088/1674-4527/ad0fd5](https://doi.org/10.1088/1674-4527/ad0fd5).
- [414] Singh, R., D. E. Scipión, K. Kuyeng, P. Condor, C. De La Jara, J. P. Velasquez, R. Flores, and E. Ivan (2024), Ionospheric Disturbances Observed Over the Peruvian Sector During the Mother's Day Storm (G5-Level) on 10–12 May 2024, *J. Geophys. Res.*, **129**(11), 2024JA033,003, [10.1029/2024JA03300310.22541/essoar.172108210.04033367/v1](https://doi.org/10.1029/2024JA03300310.22541/essoar.172108210.04033367/v1).
- [415] Smith, A. W., I. J. Rae, C. Forsyth, J. C. Coxon, M. T. Walach, C. J. Lao, D. S. Bloomfield, S. A. Reddy, M. K. Coughlan, A. Keesee, and S. Bentley (2024), Space Weather Forecasts of Ground Level Space Weather in the UK: Evaluating Performance and Limitations, *Space Weather*, **22**(11), 2024SW003,973, [10.1029/2024SW003973](https://doi.org/10.1029/2024SW003973).
- [416] Solov'ev, A. A., S. A. Guseva, and A. D. Shramko (2024), The Magnetic Field of a Coronal Hole in the Heliosphere: The Inverse Square Law, *Geomag. and Aeron.*, **63**(8), 1238–1247, [10.1134/S0016793223080212](https://doi.org/10.1134/S0016793223080212).
- [417] Soni, S. L., A. Maharana, A. Guerrero, W. Mishra, S. Poedts, S. Thampi, and M. Akhavan-Tafti (2024), CMEs evolve in the interplanetary medium to double their predicted geo-effectiveness, *Astron. & Astrophys.*, **686**, A23, [10.1051/0004-6361/202347552](https://doi.org/10.1051/0004-6361/202347552).
- [418] Srinivasaragavan, G. P., S. Yang, S. Anand, J. Sollerman, A. Y. Q. Ho, A. Corsi, S. B. Cenko, D. Perley, S. Schulze, M. Sanchez-Fleming, J. Pope, N. Sarin, C. Omand, K. K. Das, C. Fremling, I. Andreoni, R. Bruch, K. B. Burdge, K. De, A. Gal-Yam, A. Gangopadhyay, M. J. Graham, J. E. Jencson, V. Karambelkar, M. M. Kasliwal, S. R. Kulkarni, J. Martikainen, Y. S. Sharma, A. Tzanidakis, L. Yan, Y. Yao, E. C. Bellm, S. L. Groom, F. J. Masci, G. Nir, J. Purdum, R. Smith, and N. Sravan (2024), Optical and Radio Analysis of Systematically Classified Broad-lined Type Ic Supernovae from the Zwicky Transient Facility, *Astrophys. J.*, **976**(1), 71, [10.3847/1538-4357/ad7fde](https://doi.org/10.3847/1538-4357/ad7fde).

List of Refereed Publications
Wind Spacecraft: 2024

- [419] Srivastava, P., and A. K. Singh (2024), Temporal variability of galactic cosmic ray intensity and its dependence on various solar parameters observed during solar cycles 23 and 24, *Indian Journal of Physics*, **98**(7), 2257–2267, [10.1007/s12648-023-02987-3](https://doi.org/10.1007/s12648-023-02987-3).
- [420] Starkey, M. J., M. A. Dayeh, M. I. Desai, R. Bučík, S. T. Hart, and H. A. Elliott (2024), Multispacecraft Energetic Particle Enhancements Associated with a Single Corotating Interaction Region, *Astrophys. J.*, **962**(2), 160, [10.3847/1538-4357/ad1cea](https://doi.org/10.3847/1538-4357/ad1cea).
- [421] Starkey, M. J., S. A. Fuselier, and M. A. Dayeh (2024), Conditions of High Helium Concentrations in Coronal Mass Ejections, *J. Geophys. Res.*, **129**(12), 2024JA033,099, [10.1029/2024JA033099](https://doi.org/10.1029/2024JA033099).
- [422] Starodubtsev, S., I. Kovalev, P. Gololobov, V. Grigoryev, M. Kravtsova, G. Krymsky, S. Olemskoy, and V. Sdobnov (2024), Investigating the heliosphere, magnetosphere, atmosphere, and properties of cosmic rays during the 2018 Aug 25–26 strong geomagnetic storm, *Adv. Space Res.*, **73**(8), 4363–4377, [10.1016/j.asr.2024.01.027](https://doi.org/10.1016/j.asr.2024.01.027).
- [423] Stepanova, M., V. Pinto, and E. Antonova (2024), Regarding the relativistic electron dynamics in the outer radiation belt: a historical view, *Reviews of Modern Plasma Physics*, **8**(1), 25, [10.1007/s41614-024-00165-4](https://doi.org/10.1007/s41614-024-00165-4).
- [424] Steyn, P. J., D. Johnson, G. J. J. Botha, and S. Régnier (2024), Identifying Coronal Sources of L1 Solar Wind Disturbances Using the Fisk Heliospheric Magnetic Field and Potential Field Extrapolations during Three Solar Minima, *Astrophys. J.*, **966**(1), 77, [10.3847/1538-4357/ad3356](https://doi.org/10.3847/1538-4357/ad3356).
- [425] Strumik, M., M. Bzowski, and M. A. Kubiak (2024), Effects of Heliolatitudinal Anisotropy of Solar Far-ultraviolet/Extreme-ultraviolet Emissions on Ly α Helioglow, *Astrophys. J.*, **962**(1), 45, [10.3847/1538-4357/ad1884](https://doi.org/10.3847/1538-4357/ad1884).
- [426] Sun, T.-R., J.-J. Geng, J.-Z. Yan, Y.-D. Hu, X.-F. Wu, A. J. Castro-Tirado, C. Yang, Y.-D. Ping, C.-R. Hu, F. Xu, H.-X. Gao, J.-A. Jiang, Y.-T. Zhu, Y. Xue, I. Pérez-García, S.-Y. Wu, E. Fernández-García, M. D. Caballero-García, R. Sánchez-Ramírez, S. Guziy, I. Olivares, C. J. Pérez del Pulgar, A. Castellón, S. Castillo, D.-R. Xiong, S. B. Pandey, D. Hiriart, G. García-Segura, W. H. Lee, I. M. Carrasco-García, I. H. Park, S. Jeong, P. J. Meintjes, H. J. van Heerden, A. Martín-Carrillo, L. Hanlon, B.-B. Zhang, L. Hernández-García, M. Gritsevich, A. Rossi, E. Maiorano, F. Cusano, P. D'Avanzo, M. Ferro, A. Melandri, M. De Pasquale, R. Brivio, M. Fang, L.-L. Fan, W.-D. Hu, Z. Wan, L. Hu, Y.-X. Zuo, J.-L. Tang, X.-L. Zhang, X.-Z. Zheng, B. Li, W.-T. Luo, W. Liu, J. Wang, H.-F. Zhang, H. Liu, J. Gao, M. Liang, H.-R. Wang, D.-Z. Yao, J.-Q. Cheng, W. Zhao, and Z.-G. Dai (2024), GRB 240529A: A Tale of Two Shocks, *Astrophys. J. Lett.*, **976**(2), L20, [10.3847/2041-8213/ad85da](https://doi.org/10.3847/2041-8213/ad85da).
- [427] Sun, W., G. Li, S.-R. Zhang, L. Hu, G. Dai, B. Zhao, Y. Otsuka, X. Zhao, H. Xie, Y. Li, B. Ning, L. Liu, A. Shinbori, M. Nishioka, and S. Perwitasari (2024), Regional Ionospheric Super Bubble Induced by Significant Upward Plasma Drift During the 1 December 2023 Geomagnetic Storm, *J. Geophys. Res.*, **129**(6), e2024JA032430, [10.1029/2024JA032430](https://doi.org/10.1029/2024JA032430).

List of Refereed Publications
Wind Spacecraft: 2024

- [428] Sun, W., G. Li, S.-R. Zhang, B. Zhao, Y. Li, M. A. Tariq, X. Zhao, L. Hu, G. Dai, H. Xie, Y. Li, J. Liu, B. Ning, and L. Liu (2024), Complex Ionospheric Fluctuations Over East and Southeast Asia During the May 2024 Super Geomagnetic Storm, *J. Geophys. Res.*, **129**(12), 2024JA033,096, [10.1029/2024JA033096](https://doi.org/10.1029/2024JA033096).
- [429] Sun, X., Z. Zhima, S. Duan, Y. Hu, C. Lu, and Z. Ran (2024), Statistical Analysis of the Correlation between Geomagnetic Storm Intensity and Solar Wind Parameters from 1996 to 2023, *Remote Sensing*, **16**(16), 2952, [10.3390/rs16162952](https://doi.org/10.3390/rs16162952).
- [430] Sun, Z., T. Li, Y. Hou, H. Tian, Z. Wu, K. Li, Y. Zhang, Z. Li, X. Bai, L. Feng, C. Li, Z. Hou, Q. Song, J. Wang, and G. Zhou (2024), The Solar Origin of an Intense Geomagnetic Storm on 1 December 2023: Successive Slipping and Eruption of Multiple Magnetic Flux Ropes, *Solar Phys.*, **299**(6), 93, [10.1007/s11207-024-02329-4](https://doi.org/10.1007/s11207-024-02329-4).
- [431] Susarla, S. C., A. Chalumeau, C. Tiburzi, E. F. Keane, J. P. W. Verbiest, J. S. Hazboun, M. A. Krishnakumar, F. Iraci, G. M. Shaifullah, A. Golden, A. S. Bak Nielsen, J. Donner, J. M. Grießmeier, M. J. Keith, S. Osłowski, N. K. Porayko, M. Serylak, J. M. Anderson, M. Brüggen, B. Ciardi, R. J. Dettmar, M. Hoeft, J. Künsemöller, D. Schwarz, and C. Vocks (2024), Exploring the time variability of the solar wind using LOFAR pulsar data, *Astron. & Astrophys.*, **692**, A18, [10.1051/0004-6361/202450680](https://doi.org/10.1051/0004-6361/202450680).
- [432] Svenningsson, I., E. Yordanova, Y. V. Khotyaintsev, M. André, G. Cozzani, and K. Stein-vall (2024), Whistler Waves in the Quasi-Parallel and Quasi-Perpendicular Magnetosheath, *J. Geophys. Res.*, **129**(6), e2024JA032661, [10.1029/2024JA032661](https://doi.org/10.1029/2024JA032661).
- [433] Syed Zafar, S. N. A., R. Umar, S. N. Hazmin, M. H. Jusoh, A. Yoshikawa, S. Abe, T. Uozumi, N. Z. M. Afandi, and N. A. Mahiddin (2024), Modelling of ULF Pc4 - Pc5 Pulsations with solar winds and geomagnetic storm for ULF earthquake precursor, *Adv. Space Res.*, **73**(3), 1814–1830, [10.1016/j.asr.2023.10.036](https://doi.org/10.1016/j.asr.2023.10.036).
- [434] Syiemlieh, R., and E. Saikia (2024), Can cloud images help in predicting geomagnetic storms?, *J. Atmos. Solar-Terr. Phys.*, **256**, 106186, [10.1016/j.jastp.2024.106186](https://doi.org/10.1016/j.jastp.2024.106186).
- [435] Takla, E. M. H., and A. A. Khashaba (2024), Investigation of low-latitude nighttime geomagnetic pulsation events occurred under variable IMF and solar conditions, *Terr. Atmos. Oceanic Sci.*, **35**(1), 15, [10.1007/s44195-024-00071-9](https://doi.org/10.1007/s44195-024-00071-9).
- [436] Tan, M., X. Si, S. Teng, X. Wu, and X. Tao (2024), Comparative Analysis of TPA-LSTM and Transformer Models for Forecasting GEO Radiation Belt Electron Fluxes, *Space Weather*, **22**(11), 2024SW004,119, [10.1029/2024SW004119](https://doi.org/10.1029/2024SW004119).
- [437] Teng, W., Y. Su, H. Ji, and Q. Zhang (2024), Unexpected major geomagnetic storm caused by faint eruption of a solar trans-equatorial flux rope, *Nature Comm.*, **15**(1), 9198, [10.1038/s41467-024-53538-1](https://doi.org/10.1038/s41467-024-53538-1).
- [438] Terefé, D. A., M. Nigussie, and J. B. Habarulema (2024), The Effect of Energy Deposition Hemispherical Asymmetry on Characteristics of LSTIDs During 17 March 2015 Geomagnetic Storm, *J. Geophys. Res.*, **129**(5), e2023JA031907, [10.1029/2023JA031907](https://doi.org/10.1029/2023JA031907).

List of Refereed Publications
Wind Spacecraft: 2024

- [439] The LHAASO Collaboration (2024), Monitoring the daily variation of Sun-Earth magnetic fields using galactic cosmic rays, *The Innovation*, **5**(6), 100695, [10.1016/j.xinn.2024.100695](https://doi.org/10.1016/j.xinn.2024.100695).
- [440] Themens, D. R., S. Elvidge, A. McCaffrey, P. T. Jayachandran, A. Coster, R. H. Varney, I. Galkin, L. V. Goodwin, C. Watson, S. Maguire, A. J. Kavanagh, S.-R. Zhang, L. Goncharenko, A. Bhatt, G. Dorrian, K. Groves, A. G. Wood, and B. Reid (2024), The High Latitude Ionospheric Response to the Major May 2024 Geomagnetic Storm: A Synoptic View, *Geophys. Res. Lett.*, **51**(19), e2024GL111677, [10.1029/2024GL11167710.22541/essoar.172253000.02920937/v1](https://doi.org/10.1029/2024GL11167710.22541/essoar.172253000.02920937/v1).
- [441] Thiruvarangan, V., J. Rajavarathan, S. K. Panda, and J. A. Swarnalatha Jayakody (2024), Geomagnetic storm effect on equatorial ionosphere over Sri Lanka through total electron content observations from continuously operating reference stations network during Mar–Apr 2022, *Journal of Applied Geodesy*, **18**(4), 719–731, [10.1515/jag-2024-0009](https://doi.org/10.1515/jag-2024-0009).
- [442] Tinsley, B. A. (2024), The influence of the solar wind electric and magnetic fields on the latitude and temporal variations of the current density, J_Z , of the global electric circuit, with relevance to weather and climate, *J. Atmos. Solar-Terr. Phys.*, **265**, 106355, [10.1016/j.jastp.2024.106355](https://doi.org/10.1016/j.jastp.2024.106355).
- [443] Tong, X., W. Liu, D. Zhang, T. Sarris, X. Li, Z. Zhang, and L. Yan (2024), Statistical Study on the Azimuthal Mode Number of Pc5 ULF Wave in the Inner Magnetosphere, *J. Geophys. Res.*, **129**(2), e2023JA032306, [10.1029/2023JA032306](https://doi.org/10.1029/2023JA032306).
- [444] Trattner, K. J., S. A. Fuselier, C. A. Kletzing, J. W. Bonnell, S. R. Bounds, S. M. Petrinec, R. P. Sawyer, T. K. Yeoman, R. E. Ergun, and J. L. Burch (2024), TRICE-2/SuperDARN Observations and Comparison With the Associated MMS Magnetopause Crossing, *J. Geophys. Res.*, **129**(5), e2023JA032263, [10.1029/2023JA032263](https://doi.org/10.1029/2023JA032263).
- [445] Troshichev, O. A. (2024), 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 Geophys.*, **45**(1), 55–82, [10.1007/s10712-023-09799-4](https://doi.org/10.1007/s10712-023-09799-4).
- [446] Trotta, D., A. P. Dimmock, X. Blanco-Cano, R. J. Forsyth, H. Hietala, N. Fargette, A. Larosa, N. Lugaz, E. Palmerio, S. W. Good, J. E. Soljento, E. K. J. Kilpua, E. Yordanova, O. Pezzi, G. Nicolaou, T. S. Horbury, R. Vainio, N. Dresing, C. J. Owen, and R. F. Wimmer-Schweingruber (2024), Observation of a Fully-formed Forward–Reverse Shock Pair due to the Interaction between Two Coronal Mass Ejections at 0.5 au, *Astrophys. J. Lett.*, **971**(2), L35, [10.3847/2041-8213/ad68fa](https://doi.org/10.3847/2041-8213/ad68fa).
- [447] Tsyganenko, N. A., V. S. Semenov, N. V. Erkaev, and N. T. Gubaidulin (2024), Magnetosheath Plasma Flow and Its Response to IMF and Geodipole Tilt as Obtained From the Data-Based Modeling, *J. Geophys. Res.*, **129**(11), 2024JA033233, [10.1029/2024JA033233](https://doi.org/10.1029/2024JA033233).

List of Refereed Publications
Wind Spacecraft: 2024

- [448] Turner, D. L., A. Michael, E. Provornikova, M. Kornbleuth, M. Opher, S. Eriksson, B. Lavraud, P. Mostafavi, M. E. Hill, P. Brandt, I. J. Cohen, J. Westlake, J. D. Richardson, N. A. Schwadron, and D. J. McComas (2024), Evidence of a Thick Heliopause Boundary Layer Resulting from Active Magnetic Reconnection with the Interstellar Medium, *Astrophys. J.*, **960**(2), 130, [10.3847/1538-4357/ad05d3](https://doi.org/10.3847/1538-4357/ad05d3).
- [449] Tyska, J., Y. Deng, S. Zhang, and C. Y. Lin (2024), Ionospheric Disturbances Generated by the 2015 Calbuco Eruption: Comparison of GITM-R Simulations and GNSS Observations, *Space Weather*, **22**(2), e2023SW003502, [10.1029/2023SW003502](https://doi.org/10.1029/2023SW003502).
- [450] Uga, C. I., E. Uluma, B. Adhikari, A. Giri, and N. Belay (2024), Impact of the October 28, 2021 Solar Flare and the November 4, 2021 Geomagnetic Storm on the Low, Middle, and High-Latitude Ionosphere, *Discover Space*, **128**(1), 4, [10.1007/s11038-024-09556-6](https://doi.org/10.1007/s11038-024-09556-6).
- [451] Uga, C. I., S. P. Gautam, and E. B. Seba (2024), TEC disturbances caused by CME-triggered geomagnetic storm of September 6–9, 2017, *Heliyon*, **10**(10), e30725, [10.1016/j.heliyon.2024.e30725](https://doi.org/10.1016/j.heliyon.2024.e30725).
- [452] Ugwu, C. J., O. Okike, F. M. Menteso, J. A. Alhassan, D. C. Obiegbuna, A. E. Chukwude, R. E. Ugwoke, E. U. Iyida, I. O. Eya, U. C. Enwelum, and O. P. Orji (2024), On the variation of small-amplitude Forbush decreases with solar-geomagnetic parameters, *Astrophys. Space Sci.*, **369**(5), 45, [10.1007/s10509-024-04310-w](https://doi.org/10.1007/s10509-024-04310-w).
- [453] Usanova, M. E., L. A. Woodger, L. W. Blum, R. E. Ergun, C. Girard, D. L. Gallagher, R. M. Millan, J. G. Sample, A. T. Johnson, and I. R. Mann (2024), H⁺, He⁺, He⁺⁺, O⁺⁺, N⁺ EMIC Wave Occurrence and Its Dependence on Geomagnetic Conditions: Results From 7 Years of Van Allen Probes Observations, *J. Geophys. Res.*, **129**(10), e2024JA032627, [10.1029/2024JA032627](https://doi.org/10.1029/2024JA032627).
- [454] Vakhrusheva, A. A., K. B. Kapotseva, Y. S. Shugay, V. E. Eremeev, and V. V. Kalegaev (2024), Modeling Arrival Time of Coronal Mass Ejections to Near-Earth Orbit Using Coronal Dimming Parameters, *Cosmic Res.*, **62**(4), 350–358, [10.1134/S0010952524600422](https://doi.org/10.1134/S0010952524600422).
- [455] Valentino, A., and J. Magdalenic (2024), Modelling non-radially propagating coronal mass ejections and forecasting the time of their arrival at Earth, *Astron. & Astrophys.*, **690**, A137, [10.1051/0004-6361/202449521](https://doi.org/10.1051/0004-6361/202449521).
- [456] van de Kamp, M., N. Ganushkina, L. Simms, and M. Liemohn (2024), Drivers for Geo-stationary 2–200 keV Electron Fluxes as Observed at GOES Satellites, *Space Weather*, **22**(8), e2024SW003984, [10.1029/2024SW003984](https://doi.org/10.1029/2024SW003984).
- [457] Vandas, M., and E. Romashets (2024), Magnetic Field in the Earth's Magnetosheath: Models Versus Observations, *J. Geophys. Res.*, **129**(10), e2023JA032393, [10.1029/2023JA032393](https://doi.org/10.1029/2023JA032393).
- [458] Vandegriff, E. M., D. T. Welling, A. Mukhopadhyay, A. P. Dimmock, S. K. Morley, and R. E. Lopez (2024), Exploring Localized Geomagnetic Disturbances in Global MHD: Physics and Numerics, *Space Weather*, **22**(4), e2023SW003799, [10.1029/2023SW003799](https://doi.org/10.1029/2023SW003799).

List of Refereed Publications
Wind Spacecraft: 2024

- [459] Varghese, B., V. Thomas, A. Abraham, J. Chacko, A. N, A. A. Varghese, G. S. Vijayan, and T. J. Mathew (2024), Response of equatorial ionosphere to the September 2017 geomagnetic storm: a case study using digisonde observations at Fortaleza: Response of equatorial ionosphere to the September 2017..., *Indian Journal of Physics*, **98**(14), 4643–4650, [10.1007/s12648-024-03217-0](https://doi.org/10.1007/s12648-024-03217-0).
- [460] Vasanth, V. (2024), Coronal Signatures of Flare Generated Fast-Mode Wave at EUV and Radio Wavelengths, *Solar Phys.*, **299**(5), 63, [10.1007/s11207-024-02293-z](https://doi.org/10.1007/s11207-024-02293-z).
- [461] Ďurovcová, T., J. Šafránková, and Z. Němeček (2024), How Does the Structure of Rarefaction Regions Develop?, *Astrophys. J.*, **966**(1), 81, [10.3847/1538-4357/ad3074](https://doi.org/10.3847/1538-4357/ad3074).
- [462] Vemareddy, P. (2024), Filament Eruption from Active Region 13283 Leading to a Fast Halo-CME and an Intense Geomagnetic Storm on 2023 April 23, *Astrophys. J.*, **961**(2), 199, [10.3847/1538-4357/ad1662](https://doi.org/10.3847/1538-4357/ad1662).
- [463] Vemareddy, P., and M. S. Ibrahim (2024), Eruption of prominence initiated by loss of equilibrium: multipoint observations, *Mon. Not. Roy. Astron. Soc.*, **527**(2), 1774–1783, [10.1093/mnras/stad3323](https://doi.org/10.1093/mnras/stad3323).
- [464] Venugopal, I., S. V. Thampi, A. Bhaskar, and V. Venkataraman (2024), Enhanced Oxygen Ion Outflow at Earth and Mars due to the Concurrent Impact of a Stream Interaction Region, *Astrophys. J.*, **966**(1), 126, [10.3847/1538-4357/ad307a](https://doi.org/10.3847/1538-4357/ad307a).
- [465] Vercellone, S., C. Pittori, and M. Tavani (2024), Scientific Highlights of the AGILE Gamma-ray Mission, *Universe*, **10**(4), 153, [10.3390/universe10040153](https://doi.org/10.3390/universe10040153).
- [466] Verdini, A., P. Hellinger, S. Landi, R. Grappin, V. Montagud-Camps, and E. Papini (2024), Decay of magnetohydrodynamic turbulence in the expanding solar wind: WIND observations, *Astron. & Astrophys.*, **690**, A265, [10.1051/0004-6361/202450811](https://doi.org/10.1051/0004-6361/202450811).
- [467] Vichare, G., and M. S. Bagiya (2024), Manifestations of Strong IMF-By on the Equatorial Ionospheric Electrodynamics During 10 May 2024 Geomagnetic Storm, *Geophys. Res. Lett.*, **51**(23), 2024GL112569, [10.1029/2024GL112569](https://doi.org/10.1029/2024GL112569).
- [468] Vidal-Luengo, S. E., L. W. Blum, A. Bruno, T. G. Guzik, G. de Nolfo, A. W. Ficklin, R. Kataoka, and S. Torii (2024), Comparative Observations of the Outer Belt Electron Fluxes and Precipitated Relativistic Electrons, *Geophys. Res. Lett.*, **51**(12), e2024GL109673, [10.1029/2024GL109673](https://doi.org/10.1029/2024GL109673).
- [469] Vlasova, N. A., G. A. Bazilevskaya, E. A. Ginzburg, E. I. Daibog, V. V. Kalegaev, K. B. Kaportseva, Y. I. Logachev, and I. N. Myagkova (2024), Influence of Processes on the Sun and in the Interplanetary Medium on the Solar Proton Event on March 30, 2022, *Geomag. and Aeron.*, **64**(6), 802–813, [10.1134/S001679322460084X](https://doi.org/10.1134/S001679322460084X).
- [470] Volodin, I. D., M. O. Riazantseva, L. S. Rakhmanova, A. A. Khokhlachev, and Y. I. Yermolaev (2024), The Changes in Multiscale Solar Wind Fluctuations on the Path from the Sun to Earth, *Universe*, **10**(4), 186, [10.3390/universe10040186](https://doi.org/10.3390/universe10040186).

List of Refereed Publications
Wind Spacecraft: 2024

- [471] Walker, S. J., K. M. Laundal, J. P. Reistad, A. Ohma, S. M. Hatch, G. Chisham, and M. Decotte (2024), A Comparison of Auroral Oval Proxies With the Boundaries of the Auroral Electrojets, *Space Weather*, **22**(4), e2023SW003689, [10.1029/2023SW003689](https://doi.org/10.1029/2023SW003689).
- [472] Wang, C., J. Zhang, S. Zheng, S. Xiong, Z. An, W. Peng, H. Zhao, X. Zhao, C. Zheng, P. Feng, K. Gong, D. Guo, X. Li, J. Liu, Y. Liu, W. Tan, Y. Wang, W. Xue, S. Yang, D. Zhang, F. Zhang, and Y. Zhang (2024), Simulation of the in-flight background and performance of DRO/GTM, *Experimental Astronomy*, **57**(3), 26, [10.1007/s10686-024-09946-8](https://doi.org/10.1007/s10686-024-09946-8).
- [473] Wang, C., Q. Ye, M. Li, F. He, and X. Zhang (2024), Variations of Heavy Ions in Interplanetary Shock Driven by Interplanetary Coronal Mass Ejections and Stream Interaction Regions, *Astrophys. J. Suppl.*, **272**(1), 3, [10.3847/1538-4365/ad2fb2](https://doi.org/10.3847/1538-4365/ad2fb2).
- [474] Wang, H., Q. Cheng, H. Lühr, Y. Zhong, K. Zhang, and H. Xia (2024), Local Time and Hemispheric Asymmetries of Field-Aligned Currents and Polar Electrojet During May 2024 Superstorm Periods, *J. Geophys. Res.*, **129**(11), 2024JA033,020, [10.1029/2024JA033020](https://doi.org/10.1029/2024JA033020).
- [475] Wang, H., C. Wang, and Z. Leng (2024), Field-Aligned Currents during the Strong December 2023 Storm: Local Time and Hemispheric Differences, *Remote Sensing*, **16**(17), 3130, [10.3390/rs16173130](https://doi.org/10.3390/rs16173130).
- [476] Wang, J., W. H. Matthaeus, R. Chhiber, S. Roy, R. A. Predata, F. Pecora, and Y. Yang (2024), 1/f Noise in the Heliosphere: A Target for PUNCH Science, *Solar Phys.*, **299**(12), 169, [10.1007/s11207-024-02401-z](https://doi.org/10.1007/s11207-024-02401-z).
- [477] Wang, J., Z. Xiang, B. Ni, D. Guo, Y. Liu, J. Dong, J. Hu, and H. Guo (2024), Influences of Solar Wind Parameters on Energetic Electron Fluxes at Geosynchronous Orbit Revealed by the Deep SHAP Method, *Space Weather*, **22**(6), e2024SW003880, [10.1029/2024SW003880](https://doi.org/10.1029/2024SW003880).
- [478] Wang, R., I. Y. Vasko, T. D. Phan, and F. S. Mozer (2024), Solar Wind Current Sheets: MVA Inaccuracy and Recommended Single-Spacecraft Methodology, *J. Geophys. Res.*, **129**(2), e2023JA032215, [10.1029/2023JA032215](https://doi.org/10.1029/2023JA032215).
- [479] Wang, R., J. Wang, T. Liang, and H. Zhang (2024), Short-Term Prediction of the Dst Index and Estimation of Efficient Uncertainty Using a Hybrid Deep Learning Network, *Space Weather*, **22**(12), 2024SW004,002, [10.1029/2024SW004002](https://doi.org/10.1029/2024SW004002).
- [480] Wang, R. C., A. M. Jorgensen, D. Li, T. Sun, Z. Yang, and X. Peng (2024), An Adaptive X-Ray Dynamic Image Estimation Method Based on OMNI Solar Wind Parameters and SXI Simulated Observations, *Space Weather*, **22**(10), e2024SW004040, [10.1029/2024SW004040](https://doi.org/10.1029/2024SW004040).
- [481] Wang, S., J.-H. Li, L. Li, X.-Z. Zhou, Y. Omura, J.-T. Zhao, Z.-Y. Liu, Q.-G. Zong, H. Zhang, and C. Yue (2024), A Statistical Examination of Interactions Between 1-Hz Whistler Waves and Ions in the Earth's Foreshock, *J. Geophys. Res.*, **129**(10), e2024JA032960, [10.1029/2024JA032960](https://doi.org/10.1029/2024JA032960).

List of Refereed Publications
Wind Spacecraft: 2024

- [482] Wang, W., L. Wang, W. Li, S. Krucker, R. F. Wimmer-Schweingruber, and Z. Sheng (2024), Solar Eruptive Phenomena Associated with Solar Energetic Electron Spectral Types, *Astrophys. J.*, **969**(2), 164, [10.3847/1538-4357/ad47be](https://doi.org/10.3847/1538-4357/ad47be).
- [483] Wang, X., S. Zou, Z. Wang, W. Sun, Y. Chen, and G. Tóth (2024), Electron Energization With Bursty Bulk Flows: MHD With Embedded Particle-In-Cell Simulation, *Geophys. Res. Lett.*, **51**(11), e2024GL108645, [10.1029/2024GL108645](https://doi.org/10.1029/2024GL108645).
- [484] Wang, Y. M. (2024), Coronal Holes, Footpoint Reconnection, and the Origin of the Slow (and Fast) Solar Wind, *Solar Phys.*, **299**(4), 54, [10.1007/s11207-024-02300-3](https://doi.org/10.1007/s11207-024-02300-3).
- [485] Wang, Y. M., and E. Samara (2024), The Challenge of Predicting the Solar Wind Speed near Sunspot Minimum, *Astrophys. J.*, **975**(2), 205, [10.3847/1538-4357/ad8643](https://doi.org/10.3847/1538-4357/ad8643).
- [486] Waratkar, G., V. Bhalerao, and D. Bhattacharya (2024), Bright in the Black: Searching for Electromagnetic Counterparts to Gravitational-wave Candidates in LIGO-Virgo-KAGRA Observation Runs with AstroSat-CZTI, *Astrophys. J.*, **976**(1), 123, [10.3847/1538-4357/ad84e6](https://doi.org/10.3847/1538-4357/ad84e6).
- [487] Wawrzaszek, A., R. Hajra, A. Gil, R. Modzelewska, B. T. Tsurutani, and R. Wawrzaszek (2024), Geoelectric fields and geomagnetically induced currents during the April 23–24, 2023 geomagnetic storm, *Sci. Rep.*, **14**(1), 25074, [10.1038/s41598-024-76449-z](https://doi.org/10.1038/s41598-024-76449-z).
- [488] Wei, J., Z. Zou, P. Zuo, B. Ni, M. Ruan, and X. Feng (2024), Commencement and Interruption of Relativistic Electron Dropout in the Heart of the Outer Radiation Belt Induced by a Magnetic Cloud Event, *J. Geophys. Res.*, **129**(1), e2023JA032138, [10.1029/2023JA032138](https://doi.org/10.1029/2023JA032138).
- [489] Weiss, A. J., T. Nieves-Chinchilla, and C. Möstl (2024), Distorted Magnetic Flux Ropes within Interplanetary Coronal Mass Ejections, *Astrophys. J.*, **975**(2), 169, [10.3847/1538-4357/ad7940](https://doi.org/10.3847/1538-4357/ad7940).
- [490] Werner, N., J. Řípa, C. Thöne, F. Münz, P. Kurfürst, M. Jelínek, F. Hroch, J. Benáček, M. Topinka, G. Lukes-Gerakopoulos, M. Zajaček, M. Labaj, M. Prišegen, J. Krtička, J. Merc, A. Pál, O. Pejcha, V. Dániel, J. Jon, R. Šošovička, J. Gromeš, J. Václavík, L. Steiger, J. SegiÁák, E. Behar, S. Tarem, J. Salh, O. Reich, S. Ben-Ami, M. F. Barschke, D. Berge, A. Tohuvavohu, S. Sivanandam, M. Bulla, S. Popov, and H.-K. Chang (2024), Science with a Small Two-Band UV-Photometry Mission I: Mission Description and Follow-up Observations of Stellar Transients, *Space Sci. Rev.*, **220**(1), 11, [10.1007/s11214-024-01048-3](https://doi.org/10.1007/s11214-024-01048-3).
- [491] Wieser, M., H. Williamson, G. S. Wieser, S. Barabash, A. Zhang, C. Wang, and W. Wang (2024), Energy spectra of energetic neutral hydrogen backscattered and sputtered from the lunar regolith by the solar wind, *Astron. & Astrophys.*, **684**, A146, [10.1051/0004-6361/202348876](https://doi.org/10.1051/0004-6361/202348876).
- [492] Wrench, D., T. N. Parashar, S. Oughton, K. de Lange, and M. Frean (2024), What is the Reynolds Number of the Solar Wind?, *Astrophys. J.*, **961**(2), 182, [10.3847/1538-4357/ad118e](https://doi.org/10.3847/1538-4357/ad118e).

List of Refereed Publications
Wind Spacecraft: 2024

- [493] Wu, C.-C., K. Liou, B. E. Wood, and L. Hutting (2024), Effects of Background Solar Wind and Drag Force on the Propagation of Coronal-mass-ejection-driven Shocks, *Astrophys. J.*, **977**(2), 212, [10.3847/1538-4357/ad88ee](https://doi.org/10.3847/1538-4357/ad88ee).
- [494] Wu, F., C. Dai, S. Chen, C. Zhang, W. Lian, and H. Wei (2024), Spatial and Temporal Variation Patterns of NO 5.3 μm Infrared Radiation during Two Consecutive Auroral Disturbances, *Remote Sensing*, **16**(8), 1420, [10.3390/rs16081420](https://doi.org/10.3390/rs16081420).
- [495] Wu, H., S. Huang, J. He, L. Yang, and Z. Yuan (2024), Radial Spectral Evolution of the Elsässer Variable z^- in the Slow Solar Wind, *Astrophys. J.*, **966**(1), 144, [10.3847/1538-4357/ad3728](https://doi.org/10.3847/1538-4357/ad3728).
- [496] Wu, Q., W. Wang, D. Lin, C. Huang, and Y. Zhang (2024), Penetrating electric field during the Nov 3-4, 2021 geomagnetic storm, *J. Atmos. Solar-Terr. Phys.*, **257**, 106219, [10.1016/j.jastp.2024.106219](https://doi.org/10.1016/j.jastp.2024.106219).[10.1016/j.esoar.10512939.1](https://doi.org/10.1016/j.esoar.10512939.1).
- [497] Wu, Q., W. Wang, D. Lin, L. Qian, C. Huang, and Y. Zhang (2024), MAGE Model Simulation of the Pre-Reversal Enhancement and Comparison With ICON and Jicamarca ISR Observations, *J. Geophys. Res.*, **129**(6), e2023JA032038, [10.1029/2023JA032038](https://doi.org/10.1029/2023JA032038).
- [498] Wu, Z., A. Kuznetsov, S. Anfinogentov, V. Melnikov, R. Sych, B. Wang, R. Zheng, X. Kong, B. Tan, Z. Ning, and Y. Chen (2024), A Multipeak Solar Flare with a High Turnover Frequency of the Gyrosynchrotron Spectra from the Loop-top Source, *Astrophys. J.*, **968**(1), 5, [10.3847/1538-4357/ad46ff](https://doi.org/10.3847/1538-4357/ad46ff).
- [499] Xia, H., H. Wang, and K. Zhang (2024), Extreme Responses of the Ionospheric Radial Currents to the Main Phase of the Super Geomagnetic Storm on 10 May 2024, *J. Geophys. Res.*, **129**(12), 2024JA033126, [10.1029/2024JA033126](https://doi.org/10.1029/2024JA033126).
- [500] Xiang, L., K. H. Lee, L. C. Lee, D. J. Wu, L. Chen, H. Q. Feng, Q. H. Li, and G. Q. Zhao (2024), Proton Temperature Anisotropy Constraint Associated With Alpha Beam Instability in the Solar Wind, *J. Geophys. Res.*, **129**(10), e2023JA032398, [10.1029/2023JA032398](https://doi.org/10.1029/2023JA032398).
- [501] Xiao, S., Y.-Q. Liu, K. Gong, Z.-H. An, S.-L. Xiong, X.-Q. Li, X.-Y. Wen, W.-X. Peng, D.-L. Zhang, Y.-L. Tuo, S.-J. Zheng, L.-M. Song, P. Wang, X.-Y. Zhao, Y. Huang, X. Ma, X.-J. Liu, R. Qiao, Y.-B. Xu, S. Yang, F. Zhang, Y. Wang, Y.-Q. Zhang, W.-C. Xue, J.-C. Liu, C. Zheng, C.-W. Wang, W.-J. Tan, C. Cai, Q.-B. Yi, P. Zhang, X.-H. Luo, J.-J. Yang, Q.-J. Zhi, A.-J. Dong, S.-J. Dang, L.-H. Shang, and S.-N. Zhang (2024), Calibration of the Timing Performance of GECAM-C, *Astrophys. J. Suppl.*, **270**(1), 3, [10.3847/1538-4365/ad0970](https://doi.org/10.3847/1538-4365/ad0970).
- [502] Xie, F., W. Tang, X. Ma, X. Peng, Z. Yang, L.-E. Qiang, Y. Zhang, C. Gao, J. Zhang, and F. Wang (2024), Lomb-Scargle spectral analysis of plasma's noise for space-based laser interferometric gravitational wave antennas, *Adv. Space Res.*, **74**(8), 4196–4209, [10.1016/j.asr.2024.06.069](https://doi.org/10.1016/j.asr.2024.06.069).

List of Refereed Publications
Wind Spacecraft: 2024

- [503] Xirogiannopoulou, N., O. Goncharov, J. Áfránková, and Z. Němeček (2024), Characteristics of Foreshock Subsolar Compressive Structures, *J. Geophys. Res.*, **129**(2), e2023JA032033, [10.1029/2023JA032033](https://doi.org/10.1029/2023JA032033).
- [504] Xu, X., and J. Xu (2024), A statistical study of the impact of the stream interaction regions on the heliospheric current sheet, *Phys. Fluids*, **36**(8), 087113, [10.1063/5.0218785](https://doi.org/10.1063/5.0218785).
- [505] Yadav, S., L. R. Lyons, Y. Nishimura, J. Liu, S. Tian, Y. Zou, and E. F. Donovan (2024), Investigating the Spatiotemporal Development of Substorm Expansion Phase Aurora: Successive Onsets or Poleward Boundary Intensifications?, *J. Geophys. Res.*, **129**(12), 2024JA033,086, [10.1029/2024JA033086](https://doi.org/10.1029/2024JA033086).
- [506] Yamamoto, K., A. V. Rubtsov, D. V. Kostarev, P. N. Mager, D. Y. Klimushkin, M. Nosé, A. Matsuoka, K. Asamura, Y. Miyoshi, S. Yokota, S. Kasahara, T. Hori, K. Keika, Y. Kasahara, A. Kumamoto, F. Tsuchiya, M. Shoji, S. Nakamura, and I. Shinohara (2024), Direct Evidence of Drift-Compressional Wave Generation in the Earth's Magnetosphere Detected by Arase, *Geophys. Res. Lett.*, **51**(8), e2023GL107707, [10.1029/2023GL107707](https://doi.org/10.1029/2023GL107707).
- [507] Yamauchi, M., S. Christon, I. Dandouras, S. Haaland, D. Kastinen, L. M. Kistler, I. Mann, S. Nozawa, J. M. C. Plane, Y. Saito, L. Schulz, S. Watababe, P. Wurz, and A. W. Yau (2024), Heavy Molecular and Metallic Ions in the Magnetosphere, *Space Sci. Rev.*, **220**(8), 82, [10.1007/s11214-024-01114-w](https://doi.org/10.1007/s11214-024-01114-w).
- [508] Yan, J., and Q. Yu (2024), Statistical geoeffectiveness of solar-interplanetary disturbance events of type II radio bursts and CMEs/shocks, *Front. Astron. Space Sci.*, **11**, 1452513, [10.3389/fspas.2024.1452513](https://doi.org/10.3389/fspas.2024.1452513).
- [509] Yang, L., X. Yan, Z. Xue, Z. Xu, Q. Zhang, Y. Hou, J. Wang, H. Chen, and Q. Li (2024), Simultaneous observations of a breakout current sheet and a flare current sheet in a coronal jet event, *Mon. Not. Roy. Astron. Soc.*, **528**(1), 1094–1107, [10.1093/mnras/stad3876](https://doi.org/10.1093/mnras/stad3876).
- [510] Yang, Y., and H. Li (2024), CESE Schemes for Solar Wind Plasma MHD Dynamics, *Universe*, **10**(12), 445, [10.3390/universe10120445](https://doi.org/10.3390/universe10120445).
- [511] Yang, Y., C. Xiong, S.-R. Zhang, R. Yan, H. Huang, Z. Zeren, W. Pu, S. Xu, J. Huang, H. Lu, Y. Xu, and X. Shen (2024), The Double Peak Superposition on the Equatorial Ionization Anomaly Crests During the 23 April 2023 Storm, *Geophys. Res. Lett.*, **51**(22), 2024GL108,850, [10.1029/2024GL108850](https://doi.org/10.1029/2024GL108850).
- [512] Yang, Y., L. Liu, W. Li, Y. Chen, H. Le, R. Zhang, and X. Zhao (2024), Localized Plasma Density Peak at Middle Latitudes During the April 2023 Geomagnetic Storm, *J. Geophys. Res.*, **129**(2), e2023JA032165, [10.1029/2023JA032165](https://doi.org/10.1029/2023JA032165).
- [513] Yang, Z., B. Zhang, J. Lei, and W. Lotko (2024), Why Doesn't the Observed Field-Aligned Current Saturate With Increasing Interplanetary Electric Field?, *Geophys. Res. Lett.*, **51**(21), 2024GL110,037, [10.1029/2024GL110037](https://doi.org/10.1029/2024GL110037).

List of Refereed Publications
Wind Spacecraft: 2024

- [514] Yardley, S. L., and D. H. Brooks (2024), Sigmoid Eruption Associated with the X9.3 Flare from AR 12673 Drives the Gradual Solar Energetic Particle Event on 2017 September 6, *Astrophys. J.*, **976**(2), 152, [10.3847/1538-4357/ad8d5f](https://doi.org/10.3847/1538-4357/ad8d5f).
- [515] Ye, X.-M., D.-M. Wei, Y.-M. Zhu, and Z.-P. Jin (2024), Optical Transient Source AT2021lfa: A Possible “Dirty Fireball”, *Res. Astron. Astrophys.*, **24**(4), 045011, [10.1088/1674-4527/ad2b39](https://doi.org/10.1088/1674-4527/ad2b39).
- [516] Ye, Y., J. Liu, Y. Hao, and J. Cui (2024), Evaluating the Geoeffectiveness of Interplanetary Coronal Mass Ejections: Insights from a Support Vector Machine Approach with SHAP Value Analysis, *Astrophys. J.*, **972**(1), 52, [10.3847/1538-4357/ad61d7](https://doi.org/10.3847/1538-4357/ad61d7).
- [517] Yeeram, T. (2024), The effects of solar radiation and geomagnetic disturbance during consecutive 27-day recurrent geomagnetic storms on variations of equatorial ionospheric parameters and spread F, *Astrophys. Space Sci.*, **369**(6), 62, [10.1007/s10509-024-04327-1](https://doi.org/10.1007/s10509-024-04327-1).
- [518] Yi, S.-X., Z. Zhang, E. S. Yorgancioglu, S.-N. Zhang, S.-L. Xiong, and Y.-Q. Zhang (2024), Robust constraints on the physics of the MeV emission line in GRB 221009A from optical depth arguments, *Mon. Not. Roy. Astron. Soc.*, **535**(1), 982–989, [10.1093/mnras/stae2403](https://doi.org/10.1093/mnras/stae2403).
- [519] Yin, Q., K. H. Pham, J. Chen, and B. Zhang (2024), Validation of Simulated Statistical Characteristics of Magnetosphere-Ionosphere Coupling in Global Geospace Simulations Over an Entire Carrington Rotation, *Space Weather*, **22**(6), e2023SW003749, [10.1029/2023SW003749](https://doi.org/10.1029/2023SW003749).
- [520] Yogesh, N. Gopalswamy, D. Chakrabarty, P. Mostafavi, S. Yashiro, N. Srivastava, and L. Ofman (2024), Origins of Very Low Helium Abundance Streams Detected in the Solar Wind Plasma, *Astrophys. J.*, **977**(1), 89, [10.3847/1538-4357/ad84d6](https://doi.org/10.3847/1538-4357/ad84d6).
- [521] Yoon, P. H., M. Lazar, C. Salem, J. Seough, M. M. Martinović, K. G. Klein, and R. A. López (2024), Boundary of the Distribution of Solar Wind Proton Beta versus Temperature Anisotropy, *Astrophys. J.*, **969**(2), 77, [10.3847/1538-4357/ad47f1](https://doi.org/10.3847/1538-4357/ad47f1).
- [522] Yoon, P. H., R. A. López, J. Seough, M. Rashid, C. S. Salem, M. Sarfraz, M. Lazar, and S. M. Shaaban (2024), Quasi-linear Analysis of Proton-cyclotron Instability, *Astrophys. J.*, **976**(2), 173, [10.3847/1538-4357/ad86be](https://doi.org/10.3847/1538-4357/ad86be).
- [523] Yoon, P. H., R. A. López, C. S. Salem, J. W. Bonnell, and S. Kim (2024), Non-Thermal Solar Wind Electron Velocity Distribution Function, *Entropy*, **26**(4), 310, [10.3390/e26040310](https://doi.org/10.3390/e26040310).
- [524] Yoon, P. H., C. S. Salem, K. G. Klein, M. M. Martinović, R. A. López, J. Seough, M. Sarfraz, M. Lazar, and S. M. Shaaban (2024), Regulation of Solar Wind Electron Temperature Anisotropy by Collisions and Instabilities, *Astrophys. J.*, **975**(1), 105, [10.3847/1538-4357/ad7b09](https://doi.org/10.3847/1538-4357/ad7b09).

List of Refereed Publications
Wind Spacecraft: 2024

- [525] Yordanova, E., M. Temmer, M. Dumbović, C. Scolini, E. Paouris, A. L. E. Werner, A. P. Dimmock, and L. Sorriso-Valvo (2024), Refined Modeling of Geoeffective Fast Halo CMEs During Solar Cycle 24, *Space Weather*, **22**(1), e2023SW003497, [10.1029/2023SW003497](https://doi.org/10.1029/2023SW003497).
- [526] Yuan, H. C., L. Y. Li, L. Yang, and J. B. Cao (2024), Competing Influences of Earthward Convection and Azimuthal Drift Loss on the Pitch Angle Distribution of Energetic Electrons, *J. Geophys. Res.*, **129**(7), e2024JA032534, [10.1029/2024JA032534](https://doi.org/10.1029/2024JA032534).
- [527] Zhan, W., A. Doostan, E. Sutton, and T.-W. Fang (2024), Quantifying Uncertainties in the Quiet-Time Ionosphere-Thermosphere Using WAM-IPE, *Space Weather*, **22**(2), e2023SW003665, [10.1029/2023SW003665](https://doi.org/10.1029/2023SW003665).
- [528] Zhang, B. (2024), Multiwavelength and Multimessenger Counterparts of Fast Radio Bursts, *Annual Review of Nuclear and Particle Science*, **74**(1), 89–112, [10.1146/annurev-nucl-102020-124444](https://doi.org/10.1146/annurev-nucl-102020-124444).
- [529] Zhang, D., W. Liu, X. Li, T. E. Sarris, Y. Hao, and Z. Zhang (2024), Surfing Acceleration of Radiation Belt Relativistic Electrons Induced by the Propagation of Interplanetary Shock, *Geophys. Res. Lett.*, **51**(12), e2024GL109285, [10.1029/2024GL109285](https://doi.org/10.1029/2024GL109285).
- [530] Zhang, H., Z. H. Zhong, J. Y. Lu, M. Wang, Y. Y. Yi, R. X. Tang, and X. H. Deng (2024), Statistical Properties of Whistler-mode Waves in the Dayside Terrestrial Space: MMS Observations, *Astrophys. J.*, **969**(1), 14, [10.3847/1538-4357/ad4d98](https://doi.org/10.3847/1538-4357/ad4d98).
- [531] Zhang, H., F. Shen, Y. Yang, Y. Chi, C. Shen, and X. Tao (2024), Magnetohydrodynamic Modeling of Background Solar Wind near Mars: Comparison with MAVEN and Tianwen-1, *Astrophys. J.*, **971**(2), 151, [10.3847/1538-4357/ad5969](https://doi.org/10.3847/1538-4357/ad5969).
- [532] Zhang, K., H. Wang, and J. Liu (2024), The Short-Periodic Response of Equatorial Electrojet to the Temporal Variations of IMF Bz During Geomagnetic Quiet Time, *J. Geophys. Res.*, **129**(5), e2023JA032197, [10.1029/2023JA032197](https://doi.org/10.1029/2023JA032197).
- [533] Zhang, K., H. Wang, and H. Song (2024), The Polarity Oscillations of the Equatorial Electrojet in Response to the Geomagnetic Storm on 1 December 2023, *J. Geophys. Res.*, **129**(10), e2024JA032978, [10.1029/2024JA032978](https://doi.org/10.1029/2024JA032978).
- [534] Zhang, K., H. Wang, J. Liu, H. Song, and X. Liu (2024), The Significant Enhanced Quiet-Time Equatorial Ionization Anomaly by the Intense Solar Flare on 06 September 2017, *J. Geophys. Res.*, **129**(12), 2024JA033264, [10.1029/2024JA033264](https://doi.org/10.1029/2024JA033264).
- [535] Zhang, K., H. Wang, C. Zheng, T. Yin, and Z. Liu (2024), The Nighttime Horizontal Neutral Winds at Mohe Station in Response to the Temporal Oscillations of Interplanetary Magnetic Field Bz, *Remote Sensing*, **16**(14), 2669, [10.3390/rs16142669](https://doi.org/10.3390/rs16142669).
- [536] Zhang, L.-L., S.-Q. Zhong, L.-P. Xin, and E.-W. Liang (2024), A Comprehensive Analysis of Textbook-version Afterglow Light Curves of Gamma-Ray Bursts and Implication for Universal Radiation Physics of Baryonic Jets, *Astrophys. J.*, **972**(2), 170, [10.3847/1538-4357/ad5f92](https://doi.org/10.3847/1538-4357/ad5f92).

List of Refereed Publications
Wind Spacecraft: 2024

- [537] Zhang, R., L. Liu, Y. Yang, W. Li, X. Zhao, A. Yoshikawa, M. A. Tariq, Y. Chen, and H. Le (2024), Ionosphere Responses Over Asian-Australian and American Sectors to the 10–12 May 2024 Superstorm, *J. Geophys. Res.*, **129**(12), 2024JA033,071, [10.1029/2024JA033071](https://doi.org/10.1029/2024JA033071).
- [538] Zhang, S., K. Liu, Q. Shi, A. Tian, and F. Yao (2024), The Shape of the Heliosphere Derived from the IBEX Ribbon, *Astrophys. J. Lett.*, **977**(2), L39, [10.3847/2041-8213/ad992a](https://doi.org/10.3847/2041-8213/ad992a).
- [539] Zhang, Y., B. Gallardo-Lacourt, L. J. Paxton, P. J. Erickson, M. Hairston, and W. R. Coley (2024), STEVE Events With FUV Emissions, *J. Geophys. Res.*, **129**(2), e2023JA032017, [10.1029/2023JA032017](https://doi.org/10.1029/2023JA032017).
- [540] Zhang, Y.-Q., S.-L. Xiong, J.-R. Mao, S.-N. Zhang, W.-C. Xue, C. Zheng, J.-C. Liu, Z. Zhang, X.-L. Wang, M.-Y. Ge, S.-X. Yi, L.-M. Song, Z.-H. An, C. Cai, X.-Q. Li, W.-X. Peng, W.-J. Tan, C.-W. Wang, X.-Y. Wen, Y. Wang, S. Xiao, F. Zhang, P. Zhang, and S.-J. Zheng (2024), Observation of spectral lines in the exceptional GRB 221009A, *Science China Physics, Mechanics, and Astronomy*, **67**(8), 289511, [10.1007/s11433-023-2381-0](https://doi.org/10.1007/s11433-023-2381-0).
- [541] Zhao, D., S. Cui, X. Zhang, L. Li, P. Sun, C. Bian, W. Ban, C. M. Hancock, Q. Wang, and K. Zhang (2024), Analysis of global ionospheric scintillation and GPS positioning interference triggered by full-halo CME-driven geomagnetic storm: A case study, *Adv. Space Res.*, **74**(5), 2492–2509, [10.1016/j.asr.2024.06.001](https://doi.org/10.1016/j.asr.2024.06.001).
- [542] Zhao, J., and X. Feng (2024), Prediction of Solar Coronal Structures Using Fourier Neural Operators Based on the Solar Photospheric Magnetic Field Observation, *Space Weather*, **22**(5), e2024SW003875, [10.1029/2024SW003875](https://doi.org/10.1029/2024SW003875).
- [543] Zhao, X., J. Wang, M. Zhao, Y. D. Liu, H. Hu, M. Liu, T. Mao, and Q. Zong (2024), Establishment and Application of an Interplanetary Disturbance Index Based on the Solar Wind–Magnetosphere Energy Coupling Function and the Spectral Whitening Method, *Astrophys. J.*, **970**(2), 133, [10.3847/1538-4357/ad5000](https://doi.org/10.3847/1538-4357/ad5000).
- [544] Zhong, Z., C. Shen, Y. Chi, D. Mao, B. Miao, Z. Fu, J. Liu, B. Sánchez-Cano, D. Heyner, and Y. Wang (2024), Prediction for Arrival Time and Parameters of Corotation Interaction Regions using Earth–Mars Correlated Events from Tianwen-1, MAVEN, and Wind Observations, *Astrophys. J.*, **965**(2), 114, [10.3847/1538-4357/ad2fab](https://doi.org/10.3847/1538-4357/ad2fab).
- [545] Zhou, S., Y. Cai, P. Ou, L. Zhu, and D. Wu (2024), On the formation of postnoon auroral bright spots during weak substorm activity, *Adv. Space Res.*, **73**(6), 3087–3097, [10.1016/j.asr.2023.12.058](https://doi.org/10.1016/j.asr.2023.12.058).
- [546] Zhou, S., X. Luan, Z. Zhou, and Z. Wu (2024), Nightside Detached Auroras Associated With Expanding Auroral Oval During the Main and Recovery Phases of a Magnetic Storm, *J. Geophys. Res.*, **129**(8), e2024JA032906, [10.1029/2024JA032906](https://doi.org/10.1029/2024JA032906).
- [547] Zhou, S., X. Luan, and Y. Hou (2024), Multiple Satellite Observations of the High-Latitude Cusp Aurora During Northward IMF Conditions, *J. Geophys. Res.*, **129**(8), e2024JA032963, [10.1029/2024JA032963](https://doi.org/10.1029/2024JA032963).

List of Refereed Publications
Wind Spacecraft: 2024

- [548] Zhou, Y., J. Liu, S. Li, and Q. Li (2024), Ionospheric TEC Prediction Based on Ensemble Learning Models, *Space Weather*, **22**(3), e2023SW003790, [10.1029/2023SW003790](https://doi.org/10.1029/2023SW003790).
- [549] Zhou, Y., X. Guo, and C. Wang (2024), Effects of anomalous cosmic rays on the solar wind events in the outer heliosphere, *Front. Astron. Space Sci.*, **11**, 1350209, [10.3389/fspas.2024.1350209](https://doi.org/10.3389/fspas.2024.1350209).
- [550] Zhou, Y., S. Raptis, S. Wang, C. Shen, N. Ren, and L. Ma (2024), Magnetosheath jets at Jupiter and across the solar system, *Nature Comm.*, **15**, 4, [10.1038/s41467-023-43942-4](https://doi.org/10.1038/s41467-023-43942-4).
- [551] Zhou, Y.-J., F. He, M. O. Archer, X.-X. Zhang, Y. X. Hao, Z.-H. Yao, Z. Rong, and Y. Wei (2024), Spatial Evolution Characteristics of Plasmapause Surface Wave During a Geomagnetic Storm on 16 July 2017, *Geophys. Res. Lett.*, **51**(8), e2024GL109371, [10.1029/2024GL109371](https://doi.org/10.1029/2024GL109371).
- [552] Zhu, M., L. Dai, C. Wang, W. Gonzalez, A. Samsonov, X. Guo, Y. Ren, B. Tang, and Q. Xu (2024), The Influence of Ionospheric Conductance on Magnetospheric Convection During the Southward IMF, *J. Geophys. Res.*, **129**(9), e2024JA032607, [10.1029/2024JA032607](https://doi.org/10.1029/2024JA032607).
- [553] Zhu, X., J. He, G. P. Zank, D. Verscharen, L.-L. Zhao, D. Duan, and R. Lin (2024), Evolution of the Interplanetary Turbulence and the Associated Turbulence Anisotropy in the Outer Heliosphere: VOYAGER 2 Observations, *Astrophys. J.*, **966**(1), 88, [10.3847/1538-4357/ad2eae](https://doi.org/10.3847/1538-4357/ad2eae).
- [554] Zhuang, B., N. Lugaz, N. Al-Haddad, C. Scolini, C. J. Farrugia, F. Regnault, E. E. Davies, W. Yu, R. M. Winslow, and A. B. Galvin (2024), Combining STEREO heliospheric imagers and Solar Orbiter to investigate the evolution of the 2022 March 10 CME, *Astron. & Astrophys.*, **682**, A107, [10.1051/0004-6361/202347561](https://doi.org/10.1051/0004-6361/202347561).
- [555] Zhuang, B., N. Lugaz, D. Lario, R.-Y. Kwon, N. Chrysaphi, J. Niehof, T. Gou, and L. Zhao (2024), Acceleration and Release of Solar Energetic Particles Associated with a Coronal Shock on 2021 September 28 Observed by Four Spacecraft, *Astrophys. J.*, **963**(2), 119, [10.3847/1538-4357/ad1e57](https://doi.org/10.3847/1538-4357/ad1e57).
- [556] Zirnstein, E. J., T. K. Kim, J. S. Rankin, M. A. Dayeh, D. J. McComas, P. Swaczyna, L. J. Beesley, and D. B. Reisenfeld (2024), Evolving Outer Heliosphere: Tracking Solar Wind Transients from 1 au to the VLISM with IBEX and Voyager 1, *Astrophys. J.*, **974**(2), 213, [10.3847/1538-4357/ad725a](https://doi.org/10.3847/1538-4357/ad725a).
- [557] Zou, Z., P. Zuo, B. Ni, J. Wei, W. Zhou, H. Huang, and Y. Xie (2024), Competition between the source and loss processes of radiation belt source, seed, and relativistic electrons induced by a magnetic cloud event, *Phys. Fluids*, **36**(2), 026603, [10.1063/5.0186605](https://doi.org/10.1063/5.0186605).
- [558] Zou, Z., P. Zuo, B. Ni, H. Huang, J. Hu, J. Wei, Q. Yuan, and W. San (2024), Statistical analysis of the phase space density changes of radiation belt source, seed, and relativistic electrons in response to geomagnetic storms, *Phys. Fluids*, **36**(3), 036614, [10.1063/5.0201875](https://doi.org/10.1063/5.0201875).

List of Refereed Publications
Wind Spacecraft: 2024

- [559] Zou, Z., H. Huang, J. Hu, W. San, and Q. Yuan (2024), Prompt extinction of bump-on-tail energy spectra for radiation belt electron phase space density, *Phys. Fluids*, **36**(5), 056608, [10.1063/5.0209277](https://doi.org/10.1063/5.0209277).
- [560] Zou, Z., W. Zhou, and J. Hu (2024), Variability of energetic proton flux and pitch angle distributions in the Earth's radiation belt modulated by geomagnetic storms, *Phys. Fluids*, **36**(8), 086609, [10.1063/5.0223947](https://doi.org/10.1063/5.0223947).
- [561] Zou, Z., J. Hu, W. San, and Q. Yuan (2024), Partial loss and significant depletion of radiation belt electrons during the April 4, 2017, geomagnetic storm, *Phys. Fluids*, **36**(12), 126603, [10.1063/5.0235353](https://doi.org/10.1063/5.0235353).