

DAFTAR PUSTAKA

- Aa, E., Huang, W., Liu, S., Ridley, A., Zou, S., Shi, L., Chen, Y., Shen, H., Yuan, T., Li, J., dan Wang, T., 2018, Midlatitude Plasma Bubbles over China and Adjacent Areas During a Magnetic Storm on 8 September 2017, *Space Weather*, 16, 3, 321–331.
- Abadi, P., Saito, S., dan Srigutomo, W., 2014, Low-latitude Scintillation Occurrences Around the Equatorial Anomaly Crest over Indonesia, *Annales Geophysicae*, 32, 1, 7–17.
- Abadi, P., Muafiry, I. N., Pratama, T. N., Putra, A. Y., Suraina, Pramono, G. H., Wibowo, S. T., Chabibi, F. F., Ahmad, U. A., Tresna, W. P., dan Asnawi, 2025, Leveraging ROTI Map Derived from Indonesian GNSS Receiver Network for Advancing Study of Equatorial Plasma Bubble in Southeast/East Asia. *Earth and Planet. Physics*, 9, 1, 101-116.
- Abdu, M. A., 2005, Equatorial Ionosphere–Thermosphere System: Electrodynamics and Irregularities, *Advances in Space Research*, 35, 771–787.
- Abdu, M.A., 2012, Equatorial Spread F/Plasma Bubble Irregularities under Storm Time Disturbance Electric Fields, *Journal of Atmospheric and Solar-Terrestrial Physics*, 75, 44-56.
- Akala, A.O., Oyeyemi, E.O., Somoye, E.O., Adeloye, A.B., dan Adewale, A.O., 2010, Variability of foF2 in the African equatorial ionosphere, *Advances in Space Research*, 45, 1311–1314.
- Akasofu, S. I., 1981, Energy Coupling Between the Solar Wind and the Magnetosphere, *Space Science Reviews*, 28, 121-190.
- Albertson, V. D., Thorson, J. M., Clayton, R. E., dan Tripathy, S. C., 1973, Solar-Induced-Currents in Power Systems: Cause and Effects, *IEEE Transactions on Power Apparatus and Systems*, PAS-92, 2, 471-477.
- Amaechi, P. O., Oyeyemi, E. O., Akala, A. O., Messanga, H. E., Panda, S. K., Seemala, G. K., Oyedokun, J. O., Fleury, R., dan Amory-Mazaudier, A., 2021, Groundbased GNSS and C/NOFS Observations of Ionospheric Irregularities over Africa: A Case Study of the 2013 St. Patrick’s Day Geomagnetic Storm, *Space Weather*, 19, 2, e2020SW002631.
- Amory-Mazaudier, C., 2022, Magnetic Signatures of Large-Scale Electric Currents in the Earth’s Environment at Middle and Low Latitudes, *Atmosphere*, 13, 10, 1699.

- Andrews, R. G., 2022, Solar Storm Destroys 40 New SpaceX Satellites in Orbit, <https://www.nytimes.com/2022/02/09/science/spacex-satellites-storm.html>, 9 Februari 2022, diakses 29 April 2025.
- Argo, P. E., dan Kelley, M. C., 1986, Digital Ionosonde Observations During Equatorial Spread F, *Journal of Geophysical Research*, 91, A5, 5539-5555.
- Asnawi, 2013, Analisis Statistik Kemunculan Sintilasi Ionosfer Daerah Lintang Rendah Indonesia Berdasarkan Data Pengamatan di Stasiun Kototabang, *Majalah Sains dan Teknologi Dirgantara*, 8, 2, 40-47.
- Balan, N., dan Bailey, G. J., 1995, Equatorial Plasma Fountain and its Effects: Possibility of an Additional Layer, *Journal of Geophysical Research*, 100, A11, 21421-21432.
- Basavaiah, N., 2011, *Geomagnetism: Solid Earth and Upper Atmosphere Perspectives*, Indian Institute of Geomagnetism Navi Mumbai, India.
- Basu, S., Basu, S., Aarons, J., McClure, J. P., dan Cousins, M. D., 1978, On the Coexistence of Kilometer- and Meter-Scale Irregularities in the Nighttime Equatorial F Region, *Journal of Geophysical Research*, 83, A9, 4219-4226.
- Basu, S., Groves, K. M., Basu, S., Sultan, P. J., 2002, Specification and Forecasting of Scintillations in Communication/Navigation Links: Current Status and Future Plans, *Journal of Atmospheric and Solar-Terrestrial Physics*, 64, 16, 1745-1754.
- Bhattacharyya, A., 2022, Equatorial Plasma Bubbles: A Review, *Atmosphere*, 13, 1637.
- Brown, R. R., 1973, Observations of Narrow Microburst Trains in the Geomagnetic Storm of August 4-6, 1972, *Journal of Geophysical Research*, 78, 10, 1727-1729.
- Butcher, N., 2005, Daily Ionospheric Forecasting Service (DIFS) III. *Annales Geophysicae*, 23, 3591-3598.
- Campbell, W. H., 2003, *Introduction to Geomagnetic Fields*, Cambridge University Press.
- Carrano, C. S., Groves, K. M., dan Rino, C. L., 2019, On the Relationship Between the Rate of Change of Total Electron Content Index (ROTI), Irregularity Strength (CkL), and the Scintillation Index (S4), *Journal of Geophysical Research: Space Physics*, 124, 3, 2099-2112.

- Carrington, R.C., 1860, Description of a Singular Appearance Seen in the Sun on September 1, 1859, *Monthly Notices of the Royal Astronomical Society*, 20, 13-15.
- Chapman, S. dan Bartels, J., 1940, *Geomagnetism*, Oxford University Press.
- Cherniak, I., dan Zakharenkova, I., 2016, First Observations of Super Plasma Bubbles in Europe, *Geophysical Research Letters*, 43, 21, 11,137-11,145.
- Chree, C., 1913, Some Phenomena of Sunspots and of Terrestrial Magnetism at Kew Observatory. *Royal Society*, 212, 484-496.
- Cranmer, S. R., 2002, Coronal Holes and the High-Speed Solar Wind, *Space Science Reviews*, 101, 229–294.
- Davis, T. N., dan Sugiura, M., 1966, Auroral Electrojet Activity Index AE and its Universal Time Variations, *Journal of Geophysical Research*, 71, 3, 785-801.
- de La Beaujardière, O., Retterer, J. M., Pfaff, R. F., Roddy, P. A., Roth, C., Burke, W. J., Su, Y. J., Kelley, M. C., Ilma, R. R., Wilson, G. R., Gentile, L. C., Hunton, D. E., Cooke, D. L., 2009, C/NOFS Observations of Deep Plasma Depletions at Dawn, *Geophysical Research Letters*, 36, 18, L00C06.
- Dobrijevic D., 2022, Coronal mass ejections: What are They and How do They form?, <https://www.space.com/coronal-mass-ejections-cme>, 24 Juni 2022, diakses 29 April 2025.
- Dobrijevic D., 2023, Sunspots: What are They, and Why do They Occur?, <https://www.space.com/sunspots-formation-discovery-observations>, 13 April 2023, diakses 29 April 2025.
- Dobrijevic D., dan Malik, T., 2024, A Rare G5 Geomagnetic Storm not Seen Since Halloween 2003 is Supercharging the Northern Lights around the World, <https://www.space.com/spectacular-northern-lights-rare-solar-flares-may-2024>, 11 Mei 2024, diakses 29 April 2025.
- Dobrijevic D., 2025, Surprise X-class Solar Flare from Emerging Sunspot Triggers Radio Blackouts across the Americas, <https://www.space.com/surprise-x-class-solar-flare-triggers-radio-blackouts-americas>, 29 Maret 2025, diakses 29 April 2025.
- Doherty, P., Coster, A.J., dan Murtagh, W., 2004, Space Weather Effects of October–November 2003, *GPS Solutions*, 8, 267–271.

- Dubey, S., Wahi, R., Gwal, A.K., 2006, Ionospheric Effects on GPS Positioning, *Advances in Space Research*, 38, 2478-2484.
- Dudeney, J. R., 1983, The Accuracy of Simple Methods for Determining the Height of the Maximum Electron Concentration of the F2-layer from Scaled Ionospheric Characteristics, *Journal of Atmospheric and Terrestrial Physics*, 45, 8/9, 629-640.
- Ednofri, Saito, S., dan Otsuka, Y., 2013, Studi Variasi Musiman Kemunculan Plasma Bubble Menggunakan Airglow Imager dan GPS Sintilasi di Atas Kototabang, *Jurnal Sains Dirgantara*, 11, 1, 49-60.
- Farley, D. T., Balsey, B. B., Woodman, R. F., dan McClure, J. P., 1970, Equatorial Spread F: Implications of VHF Radar Observations, *Journal of Geophysical Research*, 75, 34, 7199–7216.
- Fejer, B. G., Scherliess, L., dan de Paula, E. R., 1999, Effects of the Vertical Plasma Drift Velocity on the Generation and Evolution of Equatorial Spread F, *Journal of Geophysical Research*, 104, A9, 19859–19869.
- Fejer, B. G., Jensen, J. W., dan Su, S.-Y., 2008, Seasonal and Longitudinal Dependence of Equatorial Disturbance Vertical Plasma Drifts, *Geophysical Research Letters*, 35, 20.
- Forbes, J. M., 1981, The Equatorial Electrojet, *Reviews of Geophysics and Space Physics*, 19, 3, 469-504.
- Gonzalez, W. D., Joselyn, J. A., Kamide, Y., Kroehl, H. W., Rostoker, G., Tsurutani, B. T., dan Vasyliunas, V. M., 1994, What is a Geomagnetic Storm?, *Journal of Geophysical Research: Space Physics*, 99, A4, 5771-5792.
- Han, C., Li, G., Sun, W., Xie, H., Hu, L., dan Zhao, X., 2023, Generation and Evolution of Post-Sunset Equatorial Plasma Bubbles in East and Southeast Asia During the July 2022 Geomagnetic Storm, *Advances in Space Research*, 73, 3, 1843-1853.
- Haurwitz, M. W., dan Brier, G. W., 1981, A Critique of the Superposed Epoch Analysis Method: Its Application to Solar–Weather Relations, *Monthly Weather Review*, 109, 10, 2074-2079.
- Heelis, R.A., 2004, Electrodynamics in the Low and Middle Latitude Ionosphere: a Tutorial, *Journal of Atmospheric and Solar-Terrestrial Physics*, 66, 10, 825–838.

- Huang, C-S., de La Beaujardiere, O., Roddy, P. A., dan Hunton, D. E., 2013, Long-Lasting Daytime Equatorial Plasma Bubbles Observed by the C/NOFS Satellite, *Journal of Geophysical Research: Space Physics*, 118, 2398–2408.
- Iyemori, T., 1990, Storm-Time Magnetospheric Currents Inferred from Mid-Latitude Geomagnetic Field Variations, *Journal of Geomagnetism and Geoelectricity*, 42, 11, 1249-1265.
- Kappenman, J. G., 2006, Great Geomagnetic Storms and Extreme Impulsive Geomagnetic Field Disturbance Events – An Analysis of Observational Evidence Including the Great Storm of May 1921, *Advances in Space Research*, 38, 188–199.
- Kasran, F. A. M., Jusoh, M. H., Rahim, S. A. E. A., dan Abdullah, N., 2018, Geomagnetically Induced Currents (GICs) in Equatorial Region, *Proceedings of ICSET 2018*, 15-16 Oktober 2018, Bandung, Indonesia, 112-117.
- Kelley, M.C., 1989, *The Earth's Ionosphere, Plasma Physics and Electrodynamics*. Academic Press, Inc., San Diego, California.
- Kelley, M. C., 2009, *The Earth's Ionosphere: Plasma Physics and Electrodynamics*, 2nd Edition, Academic Press, Cambridge.
- Kikuchi, T., Luhr, H., Schlegel, K., Tachihara, H., Shinohara, M., dan Kitamura, T.-I., 2000, Penetration of Auroral Electric Fields to The Equator During a Substorm, *Journal of Geophysical Research: Space Physics*, 105, A10, 23251-23261.
- Kikuchi, T., Hashimoto, K. K., dan Nozaki, K., 2008, Penetration of Magnetospheric Electric Fields to the Equator During a Geomagnetic Storm, *Journal of Geophysical Research: Space Physics*, 113, A6.
- Kikuchi, T., Hashimoto, K. K., Tanaka, T., Nishimura, Y., dan Nagatsuma, T., 2022, Middle Latitude Geomagnetic Disturbances Caused by Hall and Pedersen Current Circuits Driven by Prompt Penetration Electric Fields, *Atmosphere*, 13, 4, 580.
- Kintner, P.M., Ledvina, B.M., dan de Paula, E.R., 2007, GPS and Ionospheric Scintillations, *Space Weather*, 5, 9.
- Kondratev, K.Y., 1973, *Radiation Characteristics of the Atmosphere and the Earth's Surface*, Amerind Publishing Co. Pvt. Ltd., New Delhi.

- Li, G., Ning, B., Liu, L., Wan, W., dan Liu, J. Y., 2009, Effect of Magnetic Activity on Plasma Bubbles over Equatorial and Low-Latitude Regions in East Asia, *Annales Geophysicae*, 27, 1, 303–312.
- Li, G., Ning, B., Zhao, B., Liu, L., Liu, J. Y., dan Yumoto, K., 2008, Effects of Geomagnetic Storm on GPS Ionospheric Scintillations at Sanya, *Journal of Atmospheric and Solar-Terrestrial Physics*, 70, 7, 1034-1045.
- Li, G., Ning, B., Wang, C., Abdu, M. A., Otsuka, Y., Yamamoto, M., Wu, J., Chen, J., 2018, Storm-Enhanced Development of Post-Sunset Equatorial Plasma Bubbles around the Meridian 120°E/60°W on 7-8 September 2017, *Journal of Geophysical Research: Space Physics*, 123, 9, 7985-7998.
- Liu, Y., Fu, L., Wang, J., dan Zhang, C., 2017, Study of GNSS Loss of Lock Characteristics under Ionosphere Scintillation with GNSS Data at Weipa (Australia) During Solar Maximum Phase, *Remote Sensors*, 17, 10.
- Loewe, C. A., dan Pross, G. W., 1997, Classification and Mean Behavior of Magnetic Storms, *Journal of Geophysical Research*, 102, A7, 14209-14213.
- Ma, G. Y., dan Maruyama, T., 2006, A Super Bubble Detected by Dense GPS Network at East Asian Longitudes, *Geophysical Research Letters*, 33, 21, L21103.
- Makarevich, R. A., Crowley, G., Azeem, I., Ngwira, C., dan Forsythe, V. V., 2021, Auroral E-Region as a Source Region for Ionospheric Scintillation, *Journal of Geophysical Research: Space Physics*, 126, 5, e2021JA029212.
- Marlia, D., Wu, F., Ekawati, S, Husin, A., Anggarani, S., Ednofri, dan Yang, G., 2019, Analysis of Ionospheric Irregularities in Low Latitude During Geomagnetic Storm Using GISTM Network, *IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium*, Yokohama, Japan, 2019, 7716-7719.
- Mathewson, S., 2018, 'Hole' in the Sun Spawns Powerful Solar Wind; Could Amp Up Auroras, <https://www.space.com/40256-coronal-hole-in-sun-april-2018.html>, 10 April 2018, diakses 29 April 2025.
- Mitchell, C. N., Alfonsi, L., De Franceschi, G., Lester, M., Romano, V., dan Wernik, A. W., 2005, GPS TEC and Scintillation Measurements from the Polar Ionosphere During the October 2003 Storm, *Geophysical Research Letters*, 32, L12S03.
- Momani, M. A., Al Smadi, T. A., Al Taweel, F. M., dan Ghaidan, K. A., 2011, GPS Ionospheric Total Electron Content and Scintillation Measurements During the

October 2003 Magnetic Storm, *American Journal of Engineering and Applied Sciences*, 4, 2, 301-305.

Morton. Y. T, dan Mathews, J. D., 1993, Effects of the 13–14 March 1989 Geomagnetic Storm on the E Region Tidal Ion Layer Structure at Arecibo During AIDA, *Journal of Atmospheric and Terrestrial Physics*, 55, 3, 467-485.

Olatunbosun, L., Ariyibi, E. A., Olabode, A., dan Owolabi T., 2017, Investigation of Scintillation Occurrence During Intense Geomagnetic Storms at Low Latitude Stations, *Physics and Astronomy International Journal*, 1, 1.

Onwumechilli, A., 1967, *Geomagnetic Variations in the Equatorial Zone*, Department of Physics, University of Ibadan, Nigeria.

Parker, E.N., 1955, Hydromagnetic Dynamo Models. *Astrophysical Journal*, 122, 293-314.

Parker, E.N., 1958, Dynamics of the Interplanetary Gas and Magnetic Fields. *The Astrophysical Journal*, 128, 664-676.

Parks, G. K., 2003, *Physics of Space Plasmas: An introduction*, Westview Press; 2nd edition.

Pulkkinen, T., 2007, Space Weather: Terrestrial Perspective, *Living Reviews in Solar Physics*, 4, 1.

Putra, A. Y., Abadi, P., Kilowasid, L. O. M. M., Syafitri, N., Nuraeni, F., Wellyanita, V., Wisnu, K., Purnomo, C., Suwarno, dan Rakhman, A., 2024, Investigation of Geomagnetic Storm Effects on Ionosphere over Pontianak: A Study Case, *Proceedings of INCREASE 2023*, 20-21 November 2023, Indonesia, 567–575.

Roy, B., Dasgupta, A., dan Paul, A., 2013, Impact of Space Weather Events on Satellite-Based Navigation, *Space Weather*, 11, 12, 680–686.

Rishbeth, H., dan Garriot, O. K., 1969, *Introduction to Ionospheric Physics*, Academic Press, New York and London.

Sahai, Y., Fagundes, P. R., dan Bittencourt, J. A., 2000, Transequatorial F-Region Ionospheric Plasma Bubbles: Solar Cycle Effects, *Journal of Atmospheric and Solar-Terrestrial Physics*, 62, 1377-1383.

Samson, J. C., dan Yeung, K. L., 1986, Some Generalizations on the Method of Superposed Epoch Analysis, 34, 11, 1133-1142.

Shang, S.P., Shi, J.K., Kintner, P.M., Zhen, W.M., Luo, X.G., Wu, S.Z., dan Wang, G.J., 2008, Response of Hainan GPS Ionospheric Scintillations to the Different Strong Magnetic Storm Conditions, *Advances in Space Research*, 41, 4, 579-586.

Shepherd, G. G., Cogger, L. L., Burrows, J. R., 1976, Mid-Latitude Auroras and SAR Arcs Observed from the Isis 2 Spacecraft During the August 1972 Geomagnetic Storm, *Journal of Geophysical Research: Space Physics*, 81, 25, 4597-4602.

Singh, R., 2019, Coupling of The Solar Driven Prolonged and Transient Processes to The Equatorial and Low Latitude Ionosphere, *Ph.D. Dissertation*, University of Mumbai, Indian Institute of Geomagnetism.

Sori, T., Shinbori, A., Otsuka, Y., Tsugawa, T., dan Nishioka, M., 2021, The Occurrence Feature of Plasma Bubbles in the Equatorial to Midlatitude Ionosphere During Geomagnetic Storms using Long-Term GNSS-TEC Data, *Journal of Geophysical Research: Space Physics*, 126, e2020JA029010.

Spogli, L., Cesaroni, C., Di Mauro, D., Pezzopane, M., Alfonsi, L., Musicò, E., Povero, G., Pini, M., Dovis, F., Romero, R., Linty, N., Abadi, P., Nuraeni, F., Husin, A., Huy, M. L., Lan, T. T., La, T. V., Pillat, V. G., dan Floury, N., 2016, Formation of Ionospheric Irregularities over Southeast Asia During the 2015 St. Patrick's Day Storm, *Journal of Geophysical Research: Space Physics*, 121, 12, 12,211-12,233.

Srinivasu, V. K. D., Prasad, D. S. V. V. D., Niranjana, K., Seemala, G. K., dan Venkatesh, K., 2019, L-Band Scintillation and TEC Variations on St. Patrick's Day Storm of 17 March 2015 over Indian Longitudes using GPS and GLONASS Observations, *Journal of Earth System Science*, 128, 69.

Stolle, C., Luhr, H., Rother, M., dan Balasis, G., 2006, Magnetic Signatures of Equatorial Spread F as Observed by the CHAMP Satellite, *Journal of Geophysical Research*, 111, A02304.

Sugiura, M., 1963, Hourly Values of Equatorial Dst for the IGY, *Pergamon Press Vol.* 35.

Sugiura, M., dan Kamei, T., 1991, Equatorial Dst Index 1957-1986, *IAGA Bulletin N°* 40.

Sun, W., Li, G., Zhao, B., Zhang, S.-R., Otsuka, Y., Hu, L., Dai, G., Zhao, X., Xie, H., Li, Y., Liu, J., Li, Y., Ning, B., Liu, L., Shinbori, A., Nishioka, M., dan Perwitasari, S., 2024, Midlatitude plasma Blob-Like Structures along with Super Equatorial Plasma Bubbles During the May 2024 Great Geomagnetic Storm. *Geophysical Research Letters*, 51, e2024GL111638.

- Theerapatpaiboon, P., Leelaruji, N., Hemmakorn, N., dan Supnithi, P., 2005, The Effects of Sumatra-Andaman Earthquake on Total Ionospheric Electron Content (TEC) and Ionospheric Scintillation of GPS Signal in Thailand, The Fifth International Conference on Information Communications and Signal Processing (ICICS 2005), 1183-1186.
- Tsurutani, B. T., dan Gonzalez, W. D., 1997, The Interplanetary Causes of Magnetic Storms: A Review, *Geophysical Monograph Series*, 98, 77-89.
- Tsurutani, B. T., Verkhoglyadova, O. P., Mannucci, A. J., Saito, A., Araki, T., Yumoto, K., Tsuda, T., Abdu, M. A., Sobral, J. H. A., Gonzalez, W. D., McCreadie, H., Lakhina, G. S., dan Vasyliunas, V. M., 2008, Prompt Penetration Electric Fields (PPEFs) and Their Ionospheric Effects During the Great Magnetic Storm of 30–31 October 2003, *Journal of Geophysical Research: Space Physics*, 113, A5, A05311.
- Tulasi Ram, S., Yokoyama, T., Otsuka, Y., Shiokawa, K., Sripathi, S., Veenadhari, B., Heelis, R., Ajith, K. K., Gowtam, V. S., Gurubaran, S., Supnithi, P., dan Le Huy, M., 2016, Duskside Enhancement of Equatorial Zonal Electric Field Response to Convection Electric Fields During the St. Patrick's Day Storm on 17 March 2015, *Journal of Geophysical Research: Space Physics*, 121, 1, 538-548.
- Tyasto, M. I. Ptitsyna, N. G., Veselovsky, I. S. dan Yakovchouk, O. S., 2009, Extremely Strong Geomagnetic Storm of September 2–3, 1859, According to the Archived Data of Observations at the Russian Network, *Geomagnetism and Aeronomy*, 49, 2, 153–162.
- Van Dierendonck, A. J., Klobuchar, J., dan Hua, Q., 1993, Ionospheric Scintillation Monitoring Using Commercial Single Frequency C/A Code Receivers, *Proceedings of the 6th International Technical Meeting of the Satellite Division of The Institute of Navigation*, 22-24 September 1993, Salt Lake City, 1333 – 1342.
- Wakai, N., Ohyama, H., dan Koizumi, T., 1987, *Manual of Ionospheric Scaling Third Version*, Radio Research Laboratory, Ministry of Posts and Telecommunications, Japan.
- Wanliss, J. A., dan Showalter, K. M., 2006, High-Resolution Global Storm Index: Dst versus SYM-H, *Journal of Geophysical Research: Space Physics*, 111, A2.
- Wei, Y., Zhao, B., dan Li, G., 2015, Electric Field Penetration into Earth's Ionosphere: a Brief Review for 2000–2013, *Science Bulletin*, 60, 8, 748-761.

- Wilcox, J. M., dan Coldburn, D. S., 1972, Interplanetary Sector Structure at Solar Maximum, *Journal of Geophysical Research*, 77, 4, 751-756.
- World Data Center for Geomagnetism, Kyoto, M. Nose, T. Iyemori, M. Sugiura, T. Kamei, 2015a, Geomagnetic AE index. doi:10.17593/15031-54800.
- World Data Center for Geomagnetism, Kyoto, M. Nose, T. Iyemori, M. Sugiura, T. Kamei, 2015b, Geomagnetic Dst index. doi:10.17593/14515-74000.
- World Data Center for Geomagnetism, Kyoto, S. Imajo, A. Matsuoka, H. Toh, and T. Iyemori, 2022, Mid-latitude Geomagnetic Indices ASY and SYM (ASY/SYM Indices). doi:10.14989/267216.
- Yeh, K. C., dan Liu, C. H., 1982, Radio Wave Scintillations in the Ionosphere. *Proceedings of the IEEE*, 70, 4, 324-360.
- Yokoyama, T., Shinagawa, H., dan H. Jin, 2014, Nonlinear Growth, Bifurcation and Pinching of Equatorial Plasma Bubble Simulated by Three-Dimensional High-Resolution Bubble Model, *Journal of Geophysical Research: Space Physics*, 119, 10, 474–10,482.
- Zheng, Y., Xiong, C., Jin, Y., Liu, D., Oksavik, K., Xu, C., Zhu, Y., Gao, S., Wang, F., Wang, H., dan Yin, F., 2022, The Refractive and Diffractive Contributions to GPS Signal Scintillation at High Latitudes During the Geomagnetic Storm on 7–8 September 2017, *Journal of Space Weather Space Climate*, 12, 40.
- Zmuda, A.J., Martin, J.H., dan Heuring, F.T., 1966, Transverse Magnetic Disturbances at 1100 km in the Auroral Region, *Journal of Geophysical Research*, 71, 21, 5033-5045.