1 Swarm Publications

21-Oct-2021

https://earth.esa.int/web/guest/missions/esa-eo-missions/swarm/activities/publications#2020

Not yet provided on the website:

1.1 Year: 2021

1) Themens DR, Reid B, Jayachandran PT, Larson B, Koustov AV, Elvidge S, McCaffrey AM, Watson C (2021), "*E-CHAIM as a model of Total Electron Content: Performance and Diagnostics*", Space Weather, Vol. 19, e2021SW002872, DOI: 10.1029/2021SW002872

2) Idolor OR, Akala AO, Bolaji OS (2021), "*Responses of the African and American Equatorial Ionization Anomaly (EIA) to 2014 arctic SSW events*", Space Weather, Vol. 19, e2021SW002812, DOI: 10.1029/2021SW002812

3) Seba EB, Gereme MN, Giday NM, Moldwin MB (2021), "*The relationship between upward propagating atmospheric gravity waves and ionospheric irregularities during solar minimum periods*", Space Weather, Vol. 19, e2021SW002715, DOI: 10.1029/2021SW002715

4) Larson B, Koustov AV, Kouznetsov AF, Lomidze L, Gillies RG, Reimer AS (2021), "*A comparison of the topside electron density measured by the Swarm satellites and incoherent scatter radars over Resolute Bay, Canada*", Radio Science, Vol. 56, e2021RS007326, DOI: 10.1029/2021RS007326

5) Fournier A, Aubert J, Lesur V, Thébault E (2021), "*Physics-based secular variation candidate models for the IGRF*", Earth Planets Space, Vol. 73, 190, DOI: 10.1186/s40623-021-01507-z

6) Workayehu AB, Vanhamäki H, Aikio AT, Shepherd SG (2021), "*Effect of interplanetary magnetic field on hemispheric asymmetry in ionospheric horizontal and field-aligned currents during different seasons*", Journal of Geophysical Research: Space Physics, Vol. 126, e2021JA029475, DOI: 10.1029/2021JA029475

7) Jin Y, Clausen LBN, Spicher A, Ivarsen MF, Zhang Y, Miloch WJ, Moen JI (2021), "*Statistical distribution of decameter scale (50 m) ionospheric irregularities at high latitudes*", Geophysical Research Letters, Vol. 48, e2021GL094794, DOI: 10.1029/2021GL094794

8) Smirnov A, Shprits Y, Zhelavskaya I, Lühr H, Xiong C, Goss A, Prol FS, Schmidt M, Hoque M, Pedatella N, Szabó-Roberts M (2021), "*Intercalibration of the plasma density measurements in Earth's topside ionosphere*", Journal of Geophysical Research: Space Physics, Vol. 126, e2021JA029334, DOI: 10.1029/2021JA029334

9) Saturnino D, Pais MA, Domingos J (2021), "*The signature of geomagnetic field external drivers in Virtual Observatory 30-day means derived from Swarm data*", Journal of Geophysical Research: Space Physics, Vol. 126, e2021JA029579, DOI: 10.1029/2021JA029579

10) Xie T, Chen B, Wu L, Dai W, Kuang C, Miao Z (2021), "*Detecting seismo-ionospheric anomalies possibly associated with the 2019 Ridgecrest (California) earthquakes by GNSS,*

CSES, and Swarm observations", Journal of Geophysical Research: Space Physics, Vol. 126, e2020JA028761, DOI: 10.1029/2020JA028761

11) Kim H, Shiokawa K, Park J, Miyoshi Y, Miyashita Y, Stolle C, Connor HK, Hwang J, Buchert S, Kwon H-J, Nakamura S, Nakamura K, Oyama S-I, Otsuka Y, Nagatsuma T, Sakaguchi K (2021), "*Isolated proton aurora driven by EMIC Pc1 wave: PWING, Swarm, and NOAA POES multi-instrument observations*", Geophysical Research Letters, Vol. 48, e2021GL095090, DOI: 10.1029/2021GL095090

12) Singh AK, Maltseva O, Panda SK (2021), "*Comparison between Swarm measured and IRI-2016, IRI-Plas 2017 modeled electron density over low and mid latitude region*", Acta Astronautica, Vol. 189, 476-482, DOI: 10.1016/j.actaastro.2021.09.017

13) Knipp D, Kilcommons L, Hairston M, Coley WR (2021), "Hemispheric asymmetries in Poynting flux derived from DMSP spacecraft", Geophysical Research Letters, Vol. 48, e2021GL094781, DOI: 10.1029/2021GL094781

14) Chartier AT, Datta-Barua S, McDonald SE, Bust GS, Tate J, Goncharenko LP, Romeo G, Schaefer RK (2021), "*Night-time ionospheric localized enhancements (NILE) observed in North America following geomagnetic disturbances*", Journal of Geophysical Research: Space Physics, Vol. 126, e2021JA029324, DOI: 10.1029/2021JA029324

15) Pavón-Carrasco FJ, Marsal S, Campuzano SA, Torta JM (2021), "*Signs of a new geomagnetic jerk between 2019 and 2020 from Swarm and observatory data*", Earth Planets Space, Vol. 73, 175, DOI: 10.1186/s40623-021-01504-2

16) Panasenko SV, Kotov DV, Otsuka Y, Yamamoto M, Hashiguchi H, Richards PG, Truhlik V, Bogomaz OV, Shulha MO, Zhivolup TG, Domnin IF (2021), "*Coupled investigations of ionosphere variations over European and Japanese regions: observations, comparative analysis, and validation of models and facilities*", Progress in Earth and Planetary Science, Vol. 8, 45, DOI: 10.1186/s40645-021-00441-8

17) Ivarsen MF, St-Maurice J-P, Jin Y, Park J, Miloch W, Spicher A, Kwak Y-S, Clausen LBN (2021), "*Steepening plasma density spectra in the ionosphere: The crucial role played by a strong E-region*", Journal of Geophysical Research: Space Physics, Vol. 126, e2021JA029401, DOI: 10.1029/2021JA029401

18) Zhu K, Fan M, He X, Marchetti D, Li K, Yu Z, Chi C, Sun H, Cheng Y (2021), "*Analysis of Swarm Satellite Magnetic Field Data Before the 2016 Ecuador (Mw = 7.8) Earthquake Based on Non-negative Matrix Factorization*", Frontiers in Earth Science, Vol. 9, 221, DOI: 10.3389/feart.2021.621976

19) Fathy A and Ghamry E (2021), "*A two-dimensional lithospheric magnetic anomaly field model of Egypt using the measurements from Swarm satellites*", Geodesy and Geodynamics, Vol. 12, 229-238, DOI: 10.1016/j.geog.2021.03.004

20) Verhoeven O, Thébault E, Saturnino D, Houliez A, Langlais B (2021), "*Electrical conductivity and temperature of the Earth's mantle inferred from Bayesian inversion of Swarm vector magnetic data*", Physics of the Earth and Planetary Interiors, Vol. 314, 106702, DOI: 10.1016/j.pepi.2021.106702

21) Agyei-Yeboah E, Roberto Fagundes P, Tardelli A, Pillat VG, Pignalberi A, Kavutarapu V, Pezzopane M, Vieira F (2021), "*Ground and satellite-based observations of ionospheric*

plasma bubbles and blobs at 5.65° latitude in the Brazilian sector", Advances in Space Research, Vol. 67, 2416-2438, DOI: 10.1016/j.asr.2021.01.034

22) Consolini G, Tozzi R, De Michelis P, Coco I, Giannattasio F, Pezzopane M, Marcucci MF, Balasis G (2021), "*High-latitude polar pattern of ionospheric electron density: Scaling features and IMF dependence*", Journal of Atmospheric and Solar-Terrestrial Physics, Vol. 217, 105531, DOI: 10.1016/j.jastp.2020.105531

1.2 Year: 2020

1) Abuelezz OA, Mahrous AM, Cilliers PJ, Fleury R, Youssef M, Nedal M, Yassen AM (2020), "*Neural network prediction of the topside electron content over the Euro-African sector derived from Swarm-A measurements*", Advances in Space Research, Vol. 67, 1191-1209, DOI: 10.1016/j.asr.2020.11.009