



Contributors & Expertise/Research

Romania

ISWI
SCM

Participants

Infrastructure

Publications



Solar Observations/Monitoring	AIRA, ISS	Ionospheric Monitoring	ISS/INFP/ROSA
CME/FL/HSS Impact	AIRA	Space climate/weather and effects in terrestrial atmosphere	UGAL, IGSSSAR
HSS Catalogues	AIRA, IGSSSAR	SWE – GS	AIRA, ISS, IGSSSAR
SWE ionospheric effects	UGAL	SWE and Geoelectric Hazards over Romania	IGSSSAR

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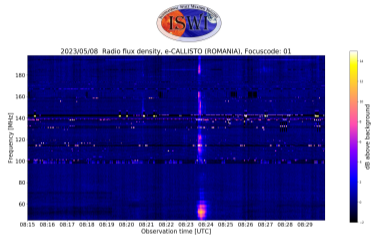
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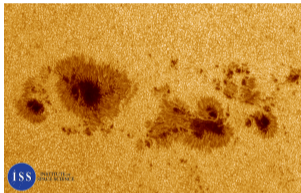
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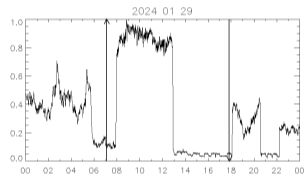
Publications



e-Callisto @AIRA



Solar Monitoring @ISS



SID @AIRA

AIRA: <https://eeris.eu/ERIO-2000-000A-0046>

IGSSAR: <https://eeris.eu/ERIO-2000-000Y-0445>

INFP: <https://eeris.eu/ERIO-2000-000Q-0068>

ISS: <https://eeris.eu/ERIO-2000-000S-0061>

UGAL: <https://eeris.eu/ERIO-2000-000C-0062>

ROSA: <https://eeris.eu/ERIO-2000-000S-0027>



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Publications

- M. Echim, H. Lamy, C. Simon-Wedlund, J. De Keyser, and G. Cessateur. *Probing the Magnetospheric Generator of Quiet Electrostatic Auroral Arcs From Ground Based Optical Observations and Magnetosphere-ionosphere Coupling Modeling*. *Geophys. Res. Lett.*, 50(24):e2023GL103689, December 2023
- Eliza Teodorescu, Marius Mihai Echim, and Jay Johnson. *Estimating intermittency significance by means of surrogate data: implications for solar wind turbulence*. *Frontiers in Astronomy and Space Sciences*, 10:1188126, June 2023
- G. Voitcu, M. Echim, E. Teodorescu, and C. Munteanu. *Kinetic simulations of solar wind plasma irregularities crossing the Hermean magnetopause*. *A&A*, 674:A228, June 2023
- Iannis Dandouras, Matt G. G. T. Taylor, Johan De Keyser, et al., *Space plasma physics science opportunities for the lunar orbital platform - Gateway*. *Frontiers in Astronomy and Space Sciences*, 10:1120302, March 2023
- M. Echim, M. Voiculescu, C. Munteanu, et al., *On the phenomenology of magnetosheath jets with insight from theory, modelling, numerical simulations and observations by Cluster spacecraft*. *Frontiers in Astronomy and Space Sciences*, 10:32, February 2023
- T. Sarris, M. Palmroth, A. Aikio, S. Buchert, et al. *Plasma-neutral interactions in the lower thermosphere-ionosphere: The need for in situ measurements to address focused questions*. *Frontiers in Astronomy and Space Sciences*, 9:1063190, January 2023
- P. Vaideanu, M. Ionita, M. Voiculescu, and N. Rimbau. *Deconstructing Global Observed and Reanalysis Total Cloud Cover Fields Based on Pacific Climate Modes*. *Atmosphere*, 14(3):456, February 2023
- I. Mares, V. Dobrica, C. Demetrescu, and C. Mares. *The Combined Effect of Atmospheric and Solar Activity Forcings on the Hydroclimate in Southeastern Europe*. *Atmosphere*, 14(11):1622, October 2023
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- D. Wrzesiński, L. Sobkowiak, I. Mares, V. Dobrica, and C. Mares. *Variability of River Runoff in Poland and Its Connection to Solar Variability*. *Atmosphere*, 14(7):1184, July 2023
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- D. Dumitru and C. Munteanu. *Classifying Interplanetary Discontinuities Using Supervised Machine Learning*. *Earth and Space Science*, 10(7):e2023EA002960, July 2023
- V. Mercea, A.R. Paraschiv, D.A. Lacatus, A. Marginean, and D. Besliu-Ionescu. *A Machine Learning Enhanced Approach for Automated Sunquake Detection in Acoustic Emission Maps*. *Sol. Phys.*, 298(11):4, January 2023
- J. Vogt, O. Marghithu, A. Blagau, L. Pick et al. *Daedalus Ionospheric Profile Continuation (DIPCont): Monte Carlo studies assessing the quality of in situ measurement extrapolation*. *Geoscientific Instrumentation, Methods and Data Systems*, 12(2):239–257, December 2023
- T. E. Sarris, S. Tourgaidis, P. Pirarris, et al. *Daedalus MASE (mission assessment through simulation exercise): A toolbox for analysis of in situ missions and for processing global circulation model outputs in the lower thermosphere-ionosphere*. *Frontiers in Astronomy and Space Sciences*, 9:1048318, January 2023
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