

[<https://doi.org/10.69646/aob260919>]

[Poster]

The Astro-Geo Interface: Prospects and Directions for Future Research

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Abstract: Building on existing research demonstrating that solar activity governs numerous terrestrial geographical processes, this study explores future directions for interdisciplinary research in the astro-geographical field. Given that all natural phenomena are inherently interconnected, establishing cascading causal chains across multiple earth-system elements offer new perspectives on terrestrial changes that are often examined in isolation from broader solar influences. Accordingly, this work investigates the linkages among both natural and social geographical elements, contextualizing them within the framework of overarching solar forcing. As research of this kind remains in its early stages (e.g., Langović et al., 2025), further methodological development is essential to fully elucidate these complex terrestrial processes. Ultimately, this study proposes a foundational framework for this interdisciplinary domain, highlighting the critical need to develop robust methodological tools for future investigations.

Keywords: interdisciplinary research, solar activity, geosciences, Sun, Earth

Acknowledgement

The Institute of Physics Belgrade, University of Belgrade, supported this work with a grant from the Republic of Serbia's Ministry of Science, Technological Development, and Innovations. Authors acknowledge funding in the frame of the multilateral scientific and technological cooperation in the Danube region "Application of novel AI methods (Transformer Architectures) in analyzing Big data in Astrophysics (ionospheric and geomagnetic) and Physics (molecular magnetism)" DS2 (project no. 003614304 2025 13440 003 000 000 001 01 005).

Reference

Langović, M., Srećković, V., Vidović, Z., Langović, M. & Mijić, Z. (2025). The nexus between solar activity and population displacement: The case study of Southern Europe. Journal of the Geographical Institute Jovan Cvijic, SASA, 1-17. <https://doi.org/10.2298/IJGI250621017L>