

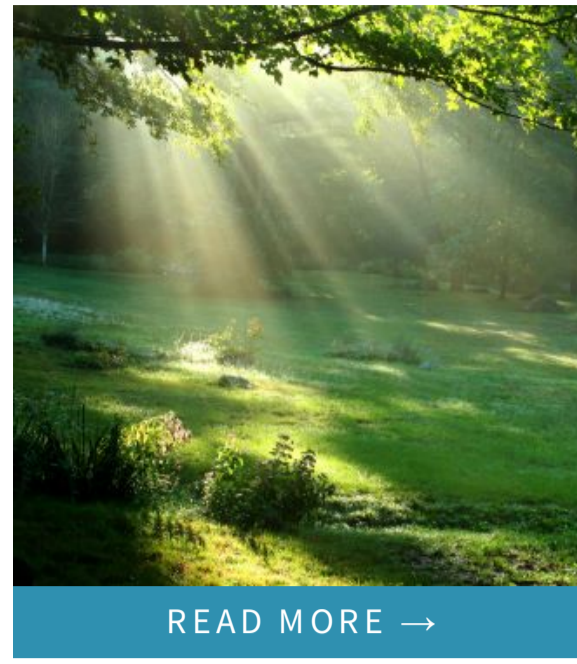
NEWSLETTER

No 5. July 2023

Polska wersja jest dostępna [TUTAJ](#)

ABOUT THE PROJECT

HES-GEO project aims to enhance existing research capacity and stimulate scientific excellence in the [Institute of Geography and Spatial Management \(IGSM\), Jagiellonian University](#), in studying **human-environmental systems (HES)** of the Anthropocene, along variety of urban-rural-marginal gradients, at various spatial and temporal scales and using **tools and data available through Earth observation (EO) and geospatial technologies**.



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PARTNERS



[Institute of Geography and Spatial Management \(IGSM\)](#)



[The Department of Geoinformatics – Z_GIS](#)



[The Geography Department](#)



[The Department of Earth and Environmental Sciences](#)

PROJECT PROGRESS - EVENTS



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FORUM CARPATICUM 2023
Carpathian Futures - Critical Transitions, 25-28 September 2023, Kraków, Poland
 HES-GEO project co-organizes the 7th Forum Carpathicum conference, which brings together scientists, practitioners and stakeholders to share recent research and discuss the challenges and possible modes of adaptation to ongoing environmental, economic and socio-political crises in the Carpathian region. We invite to participate!

Centre of Excellence Talks with **prof. Volker Radeloff**

On 2.3.2023 the second session of Centre of Excellence Talks (organized by Centre of Excellence established within the HES-GEO project) was held. The guest was **prof. Volker Radeloff**, the head of Spatial Analysis For Conservation and Sustainability SILVIS LAB, **University of Wisconsin-Madison** with the speech "Analyses of trends in time-series of satellite data".



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Advanced Satellite Data Analysis Techniques for HES-GEO Researchers
 In early April, we had the pleasure of hosting **Dirk Tiede** and **Martin Sudmanns** from the **Paris-Lodron University of Salzburg** for two days of workshops on advanced satellite data analysis techniques. The workshops covered **Spatio-Temporal Analyses in Data Cubes and Object-based Image Analyses**.

Centre of Excellence Talks with **dr Simona Gradinaru**

On 11.5.2023 the third open seminar within the Centre of Excellence Talks was organized with **dr Simona Gradinaru** from the **Land Change Science group at the Swiss Federal Institute for Forest, Snow and Landscape (WSL)**, speaking on "Steering peri-urban land transformations and their impact on the food system".



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Website of the Human-Environment Systems Research Centre
 We invite you to follow the news on the website of the Human-Environment Systems Research Centre, which was created as part of the HES-GEO project at the Faculty of Geography and Geology of the Jagiellonian University. We post there announcements about upcoming events, including open seminars like the Center of Excellence Talks series.

RESEARCH TEAMS



We talk about HES-GEO!

As part of the project, we made two podcasts - in the first entitled "The ground under your feet" Dr. Anita Bernatek-Jakiel, Dr. Dominik Kaim and Dr. Łukasz Musielok talk about land use. The second episode "City is People", attended by Dr. Katarzyna Gorczyca, Dr. Magdalena Kubal-Czerwińska, Dr. Agnieszka Nowak-Olejnik, concerns the problems of cities. The interviews were conducted by **Dr. Ewa Górńska** from Reorient.

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SOIL EROSION

team leader: Anita Bernatek-Jakiel, PhD

During the **EGU General Assembly conference** on April 23-28, 2023 in Vienna **Dr. Anita Bernatek-Jakiel** gave a speech entitled "A European database of soil piping-related features: a major step towards producing a piping erosion susceptibility map of Europe"

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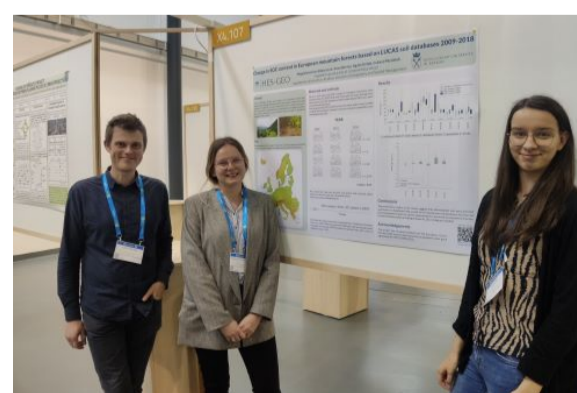


CULTURAL ECOSYSTEM SERVICES

team leader: Agnieszka Nowak-Olejnik, PhD

On April 20-23, 2023, **Dr. Agnieszka Nowak-Olejnik** took part in the National Scientific Conference entitled **INTERDISCIPLINARITY IN LANDSCAPE RESEARCH** organized in Czajowice by the Polish Association of Landscape Ecology (PAEK), the Institute of Geography and Spatial Management of the Jagiellonian University in Krakow and the Institute of Geography of the Pedagogical University of Krakow.

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CARBON SEQUESTRATION IN SOILS OF MOUNTAIN ECOSYSTEMS

team leader: Łukasz Musielok, PhD

Dr. Łukasz Musielok and **Magdalena Gus-Stolarczyk, MSc, Anna Bartos, MSc and Agata Gołąb, MSc**, during the **EGU General Assembly conference** on April 23-28, 2023 in Vienna presented on the poster the first results of their research on changing SOC content in European mountain forests based on LUCAS soil databases.

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