BayCEER Kolloquium

Lectures in Ecology and Environmental Research

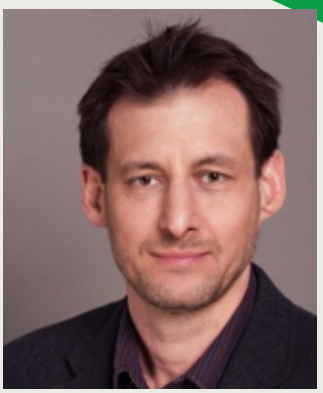
winter 2026/27

UNIVERSITÄT BAYREUTH

Mittwoch/Wednesday

25.11.2026

12:30 in K1, GEO



Prof. Dr. David Karátson

Eötvös Lorand University, Budabest, Hungary

Miocene-Quaternary volcanism in the Carpathians and its environmental impacts

The Neogene plate-tectonic evolution of the Carpathian-Pannonian region led to large-scale volcanism that is unparalleled in Europe. In recent years, detailed volcanological, K-Ar and Ar-Ar geochronological, and juvenile glass geochemical studies have significantly refined our knowledge regarding specific eruptions. Scenarios for colossal (VEI 7) Middle- and Late-Miocene eruptions were identified in the northern part of the Pannonian Basin; these events had profound impacts on the environment, which was characterized by a transition zone between land and sea (Central Paratethys). While these eruptions, occurring between 20 and 10 Ma, were driven by crustal extension and mantle differentiation, volcanism resulting from inward-directed subduction—primarily along the Carpathian Arc—was also present from ca. 16 Ma onwards, from Miocene to Quaternary times. The youngest phase of the subduction-related volcanism took place at the Ciomadul (Csomád) volcano in Romania; its eruptions (explosive activity, lahars, etc.) occurred within the last 30,000 years and influenced the everyday life of early humans already present in the area.

Bayreuth Center of Ecology and Environmental Research

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