



XIX Congress of the Carpathian Balkan Geological Association
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Session

S18

www.cbga2010.org
info@cbga2010.org

S18 New advances of understanding physical volcanology processes in the Carpathian-Balkan Region from a global perspective

Conveners: [Karoly Nemeth](#) (NZ) & [Zoltan Pecskey](#) (HU)

This session accepts both full papers and abstracts

The Carpathian-Balkan Region is a perfect site where young and active volcanism co-exists with older volcanic terrains that were formed in a strikingly similar way to their active, younger counterparts. This scenario makes the Carpathian-Balkan Region a perfect playground to study, compare, and advance our knowledge of the volcanic processes that generated a broad range of volcanic landforms, volcanosedimentary environments and associated ore mineralizations. This unique nature of the Carpathian-Balkan Region manifested in the past decade in elevated research activity focused on understanding the physical volcanology of various volcanic systems from intra-continental to subduction related tectonic settings. The proximity in both age and space of various volcanoes, their erosional remnants as well as volcanogenic sediment-filled basins in such a diverse environment ranging from submarine, lacustrine to continental realms provide an exceptional location from which to understand physical volcanology processes in general. In this session we invite papers on physical volcanology research primarily based on examples located in the Carpathian-Balkan Region, as well as research that has relevance, similarity or recent or ancient analogy from elsewhere in the World that could be applied directly to volcanic systems in the Carpathian-Balkan Region. This session also calls for presentations on theoretical approaches for understanding the physics of explosive volcanism, analogue and numerical modelling of volcanic mass flow processes, their natural hazard implications, quantifying sedimentary budgets in volcano-dominated sedimentary basins and geochronological methods developed, trialled in or compared with volcanic systems of the Carpathian-Balkan Region. This session will officially be supported by the International Association of Volcanology and Chemistry of the Earth Interior's Commission on Volcanogenic Sediments and Commission on Monogenetic Volcanism. Contributions are expected to be submitted either as full length manuscript to the Special Publications of the Geological Society of Greece (CBGA Volume) or as a short abstract to the Abstract Volume of the XIX CBGA. Full length research articles are encouraged to be submitted to the Special Volume (*New advances of understanding physical volcanology processes in the Carpathian-Balkan Region from a global perspective*) of the Central European Journal of Geosciences (Versita/Springer) by 30 April 2010 (www.cejg.editoool.com).