



XIX Congress of the Carpathian Balkan Geological Association
Thessaloniki, Greece, 23-26 September 2010

Session

S33

www.cbga2010.org
info@cbga2010.org

S33 Assessment of climate, natural hazard and anthropogenic influence in Carpathian-Balkan lake sediments

Conveners: [Aurelien van Welden](#) (NO), [Gianni Zanchetta](#) (IT) & [Rexhep Koci](#) (AL)

This session accepts both full papers and abstracts

Lakes constitute powerful archives of climate, natural hazard and human activities. Some of the lakes present in Carpathian-Balkan area constitute huge fresh water reservoirs and are characterized by an incredibly huge biodiversity. Due to geodynamic settings (e.g. graben structures), they can furthermore have potentially preserved huge accumulations of sediments. Recent studies (Ohrid, Shkodra lakes) proved the potentiality of large lakes for environmental / palaeoenvironmental studies, especially to reconstruct local climate variability (in relationship with NAO and African Monsoon dynamics). As most Balkan countries are also threaten by earthquake and flood hazards, extensive studies have to be undertaken to characterize and quantify these catastrophic events, in order to better assess their recurrence. For this special session, we invite oral and poster contributions that emphasize climatic variations, natural hazard and human impact / activities from (palaeo-) lacustrine sediments during Historical times to Quaternary time scale. High resolution multi-proxy studies are especially welcome. This session should also include a discussion on meteorological / climatological observations in relationship to water budget flowing into the lakes and isotopic composition of waters. Another main point would be a synthesis of palaeoenvironmental data to define a regional climatic pattern. The session would be the opportunity to define a state of knowledge on limnogeology in Carpathian-Balkan area, to gather local teams and outer countries in order to enhance collaborations and define priorities for the near future.