

International Geological Congress Oslo 2008

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<http://www.33igc.org/coco/>

The Symposium SES-06 *Foreland basins: Palaeoecology, climate, and chronostratigraphy* is dedicated to studies in foreland basins on chronostratigraphy and palaeoclimate (see abstract).

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Abstract: Foreland basins are tectonically active areas characterized by rapidly changing sedimentation dynamics and patterns. This symposium will discuss the relation between uplift and climate change in the Paratethys basins, and foreland basins in general. We will address the question as to whether it is possible to recognize global climate signals in these tectonically active areas. Moreover, we will discuss how eustatic sea-level changes can be distinguished from tectonically induced changes of the palaeoenvironment. A reliable time control is essential for a more complete understanding of the processes occurring in foreland basins; however, chronostratigraphic control in foreland basins is often poor and largely based on biostratigraphy of endemic species (e.g. charophytes, mollusks, ostracods, fishes). Multi-proxy studies that combine data from magnetostratigraphy, isotopes, palaeontology, and sedimentology represent a far more reliable approach for time control in sedimentologically dynamic areas. We encourage all colleagues interested in foreland basins, and using multidisciplinary approaches to address palaeoecology, climate change, and chronostratigraphy to participate in this symposium.

Convener: Bettina Reichenbacher, Munich; Iuliana Vasiliev, Utrecht