

Geological Records of Climate / Palaeoclimate Changes

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Many different studies including climate/paleoclimate changes from different geological time slices have been published in Turkey till now. However, studies are dominant between Recent and Miocene and focused on lacustrine or continental archives. Pre-Miocene studies are frequently observed on Cretaceous, Devonian and Ordovician periods but comparatively less in number. These studies carried out by different research groups may display the research potential of Turkey on geological records of paleoclimate/climate changes and enlighten the possible future studies. By the means of this meeting, different research groups and disciplines can have opportunity to collaborate and prepare plans for future studies on paleoclimate/climate issues. Many different papers and reports have been published about climate change for the last few years. Comparison of future climate change scenarios with paleoclimate records will carry the discussions on physical evidences. Geological records of effects of different and sudden paleoclimate changes on lithosphere, cryosphere, hydrosphere, biosphere and atmosphere will be discussed.

- Analysis of archives of climate and paleoclimate changes within continental, marine, lacustrine, glacier, cave and mixed sedimentary environments, on the tree and speleothem rings, coral and other fossil shells of different geological periods.
- Causes, types and mechanisms of paleoclimate changes
- Records of climate induced oceanographic and atmospheric events, changes within geomorphologic and fluvial systems, and geological records of sea and lake-level changes.
- Geological records of magnitude and duration of climate/paleoclimate changes, effects on fossil/organism groups, society and ancient civilizations and environment changes.