

Thematic Session 03

Fibrous clay minerals: properties and implications for paleoenvironment and diagenesis

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This session focuses on the use of detrital and/or authigenic fibrous clay minerals in sediments of various ages and environments as proxies for weathering and erosion processes, identification of detrital sources and depositional processes of clay phases. This session will offer the opportunity to discuss the robustness and the limits of the use of the fibrous clays to trace source area, to reconstruct paleoclimate variability and basins evolutions. This section will be also devoted to the following issues:

How reliable are fibrous clays to record paleoclimatic and paleoenvironmental fluctuations? What is the minimal resolution required?

How can fibrous clay minerals be used to understand the geodynamic evolution of sedimentary basins?

We invite a broad variety of contributions, including studies focusing on sedimentology, mineralogy, geochemistry and characterization of fibrous clay minerals.

Keywords: Fibrous clay, Weathering, Diagenesis, Paleoclimate, Sedimentology.

Potential Journals: Applied Clay Science, Clay Minerals.

