

3D X Ray Tomography exploration and Diagenesis evaluation of Proterozoic Rocks (550 Million years old) from Bretagne (France).

Questioning remains about the understanding of the Precambrian-Cambrian limit in western Europe. The Brioverian rocks (550 Million years old) from Bretagne is the unique place where The Precambrian-Cambrian limit is well conserved. The goal of this study is to understand paleo-environmental and paleo-conditions responsible of these well preservation of trace fossils recorded inside the pelitic and sandstone rocks. Some of these traces are pyritised and/or filled by sediment, showing well organized network. Mineralogical and geochemical characterization will permit to identify the diagenetic grade. 3D analyses will provide a supplementary data about the spatial distribution of these traces and host rock.

Will be used : XRD, X Ray Tomography, SEM, Thin section, geochemistry.

For more information, contact Abder El Albani (abder.albani@univ-poitiers.fr)