Challenges, new measurement techniques and model approaches for soil physical parameterizations in land surface, climate and earth science model

The hydrophysical and thermal properties of soils play a major role in current societal issues.

However, methods used to characterize soil remain questionable. Parameter uncertainties, missing processes, and the assumption that soil parameters remain constant in time, adversely impact the estimates.

This session acknowledges that soil structure matters and welcomes contributions presenting new approaches to characterize the physical properties of soils as well as comparative approaches between methods and/or laboratories. This scientific session also welcomes contributions on improved parameterization of soil and critical zone processes.

During the chat, we will invite the authors successively, display by display, and organize the time management, as is customary at the EGU. Thank you in advance for your participation.