

MARINE–LACUSTRINE–COASTAL GEOLOGY SESSION

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Marine, coastal and lacustrine systems are continuously changing under the influence of climate change, sea and lake-level fluctuations, tectonic processes and human activities. Understanding the geological characteristics and evolution of these systems is essential for assessing environmental challenges, reducing natural hazards, protecting ecosystems and developing sustainable management strategies.

This session will address past climate and environmental changes, coastal erosion, sedimentary processes, seafloor tectonics and natural hazards within the scope of marine, coastal and lacustrine geology. It will also examine the sources, transport and environmental impacts of heavy metals, organic and inorganic pollutants, and microplastics in these environments. Furthermore, the session will focus on the role of geological, geophysical and geochemical methods, bathymetry, remote sensing and high-resolution mapping techniques in environmental monitoring and sustainable management.