

CSSS_09: Modelling and mapping of the terrestrial environment

Conveners: [Asim Biswas](#)¹, Adam Gillespie², Daniel Saurette³, Brandon Heung⁴, Jacklyn Cockburn⁵

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Session Description

Technological advances and the availability of geospatial data have led to detailed mapping, modelling and visualization of the terrestrial environment, including its manmade, natural, and sub-surface features over multiple spatial and temporal scales. Geographical information is typically combined with geological and pedological information for the detailed quantification and characterization of the terrestrial environment. Furthermore, these datasets facilitate the development of landform classification and hydrological models derived from digital elevation models; digital soil maps derived from geospatially-correlated soil and environmental variables; and spatial-temporal models derived from satellite imagery. The key themes of this session include the adoption of new mapping and modelling tools and techniques; spatial data management systems; and methods to analyze, integrate, visualize, and distribute environmental datasets. Topics for this session may include, but are not limited to, the collection and acquisition of terrestrial environmental datasets; environmental sampling procedures; the development and comparison of prediction models; or the visualization and communication of digitally processed outputs. We solicit presentations as both oral and poster.

Primary Affiliation: CSSS

Joint Session Submission: CGU Earth Surface Processes