

WORKSHOP

Compaction-induced vulnerability in coastal areas: lessons learned from worldwide investigations

12 February 2026

Online meeting

Time is CET

The appearance, growth, and survival of coastal morphologies (e.g., salt marshes and tidal flats) depend on the interaction between sedimentation, sea-level rise, land subsidence and autocompaction of the shallowest subsurface

PROGRAM

13:00 Greetings and presentation of RESTORE

13:05 Sanneke van Asselen *Deltares*

Land subsidence monitoring and research in the Dutch peatlands

13:20 Katharina Seeger *Wageningen University & Research*

Towards unravelling the effects of land subsidence on typhoon impact exposure in the Mekong Delta

13:35 Marta Cosma *CNR-IGG*

Reconstructing Holocene subsurface architecture to assess vulnerability of tidal morphology to land subsidence and sea level rise: example from the Venice lagoon (Italy)

13:50 Michael Steckler *Columbia University*

Is Bangladesh sustainable? Estimating the balance of subsidence, sedimentation and elevation change at the world's largest delta

14:05 Manon Verberne *TNO*

Addressing coastal plain subsidence by groundwater management and resource extraction in the Netherlands, state-of-the-art overview from TNO

14:20 Femi Ikuemonisan *Lagos State University of Education*

Land Subsidence in Nigeria: An overview of drivers, impacts, current knowledge, and monitoring efforts

14:35 Samuel Zapp *Louisiana State University*

Impacts of shallow marsh sediment compaction on deltaic and estuarine surface processes: insights from physical and numerical experiments

14:50 Urooj Qayyum *University of Padova*

Natural land subsidence in the marshlands of the Venice Lagoon: monitoring by InSAR and modelling by NATSUB3D

15:05 Discussion/Closure

Register here to join



<https://unipd.zoom.us/meeting/register/7m0uDAC7RByFEHmHx9a-ew>



The workshop is organized by

RESTORE: REconstruct subsurface heterogeneities and quantify Sediment needs TO improve the RESilience of Venice saltmarshes

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<https://restore.dicea.unipd.it/>