United Nations Educational, Scientific and Cultural Organization

Intergovernmental Hydrological Programme

UNESCO Land Subsidence International Initiative

Newsletter of the Unesco Land Subsidence International Initiative

Vol.33, January 2023

On internet, this month, there was an overwhelming number of publications on 'land subsidence' in ***Joshimath, India***, where hundreds of houses show cracks and some were even declared to be unsafe. However this is a real disaster for those who are living in or nearby this city, we should call this disaster rather a landslide than land subsidence. Therefore, no references to this case are mentioned in this newsletter.

On the Wikipedia-page of Joshimath, those who are interested, can find more information about the origin of the landslide.

New Literature

India, Sunderbans

Das, G.K. (2022). Climate Change and Coastal Hazards in Sunderbans. In: Coastal Environments of India. Springer Water. Springer, Cham. https://doi.org/10.1007/978-3-031-18846-6_9

PR China,

Sang, HW., Shi, B., Zhang, D. *et al.* Monitoring land subsidence with the combination of persistent scatterer interferometry techniques and distributed fiber optic sensing techniques: a case study in Suzhou, China. *Nat Hazards* (2023). https://doi.org/10.1007/s11069-022-05757-2

Taiwan, Midwest coastal region

Shih Chun Hsiao et al.,

Assessment of future possible maximum flooding extent in the midwestern coastal region of Taiwan resulting from sea-level rise and land subsidence.

https://oa.mg/work/10.1088/2515-7620/ac8f15

USA, Utah

Li, J., Smith, R. & Grote, K. Analyzing spatio-temporal mechanisms of land subsidence in the Parowan Valley, Utah, USA. *Hydrogeol J* (2023). https://doi.org/10.1007/s10040-022-02583-5

Positions in the Netherlands (Utrecht. Delft)

The Netherlands, Utrecht, Delft

Postdoctoral Researcher on Predictive Land Subsidence Modelling and its Impacts in The Netherlands (0.8 - 1.0 FTE)

Deadline: February 15th, 2023

Postdoctoral Researcher on Scenario Development for Modelling Land Subsidence Mitigation Measures in The Netherlands (0.8 - 1.0 FTE)

Deadline: February 15th, 2023

PhD on probabilistic subsidence predictions for building damage (1.0 FTE)

Deadline: February 20th, 2023

Assistant Professor Coastal Subsidence in Delft

Deadline, February, 6th

https://www.academictransfer.com/nl/322745/assistant-professor-coastal-subsidence/

From the Press

Bangladesh, Dhaka, Chittagong

Stability eludes climate refugees in Bangladesh's sinking cities

https://www.thethirdpole.net/en/climate/stability-eludes-climate-refugees-in-bangladeshs-sinking-cities/

India, Delhi

How a Delhi district stopped the ground from sinking

https://www.bbc.com/news/world-asia-india-64342196

YOUTUBE

USA, California

A nice, 1 h 20 minutes during Youtube film from USGS (with Michelle Sneed performing) explains the mechanisms of Land Subsidence for a broad public.

The link between groundwater use and sinking landscapes What is land subsidence, where does it happen, and why does it matter? How do weather and land use affect land subsidence in California? Why are we optimistic about the future of land subsidence in California?