Land Subsidence for Education

The Dangerous Disappearance of Delta Dirt


Scientific Group

The new established group on "Science, Economics and Policy of Global GW Over-Extraction and Land Subsidence" (an initiative of Ariel Dinar, University of California) launched a website:

The website can be found on https://waterdialogue.ucr.edu/land-subsidence and was designed and created by Dr. Mehdi Nemati from UCR.
PhD-positions

**Iran, Teheran**

The new established UNESCO Chair on Coastal Geo-Hazard Analysis in Tehran, Iran offers Ph.D and Post Doc positions:

For more information see web site:  
[www.ries.ac.ir](http://www.ries.ac.ir)

**The Netherlands, Delft**

PhD Position Physico-biogeochemical processes in the transition of sediment to soil


The project Sediment-to-Soil (S2S), financed by the Dutch Science Foundation (NWO), will study, optimise and predict the transition of fine-grained sediment dredged from ports, waterways, barrages or sluices, to soil for use as alternative earthen construction material.

Deadline, May 5th, 2022

For more information about this vacancy, please contact Dr. habil. Julia Gebert, e-mail: 

[j.gebert@tudelft.nl](mailto:j.gebert@tudelft.nl)
New Literature

*Coastal Cities*

Pei-Chin Wu et al., Subsidence in Coastal Cities Throughout the World Observed by InSAR

[https://www.researchgate.net/publication/359462526_Subsidence_in_Coastal_Cities_Throughout_the_World_Observed_by_InSAR](https://www.researchgate.net/publication/359462526_Subsidence_in_Coastal_Cities_Throughout_the_World_Observed_by_InSAR)

*Canada, Iqaluit*


[https://www.mdpi.com/2072-4292/14/9/2156/htm](https://www.mdpi.com/2072-4292/14/9/2156/htm)

*Egypt, Lake Burullus*

Keshta, A.E. et al., Loss of Coastal Wetlands in Lake Burullus, Egypt: A GIS and Remote-Sensing Study. Sustainability 2022, 14, 4980. [https://doi.org/10.3390/su14094980](https://doi.org/10.3390/su14094980)


*India, Lucknow*


*Indonesia,*

Akbar Kurniawan et al.,

Literatur Review: Perbandingan Berbagai Teknik Pemodelan Land Subsidence Comparation of Land Subsidence Modelling Technique

**Iran, Isfahan**


**Iran, Lake Urmia Basin**


**Kenia, Nairobi**


**PR China, Kunming City**

Zhou, D.; Zuo, X.; Zhao, Z. Constructing a Large-Scale Urban Land Subsidence Prediction Method Based on Neural Network Algorithm from the Perspective of Multiple Factors. Remote Sens. 2022, 14, 1803. [https://doi.org/10.3390/rs14081803](https://doi.org/10.3390/rs14081803)

**PR China, Shanghai**


**Turkey, Küçük Menderes Graben**


**Saudi Arabia, Al-Yutamah Valley**


[https://www.mdpi.com/2072-4292/14/8/1769/pdf](https://www.mdpi.com/2072-4292/14/8/1769/pdf)
**Saudi Arabia**

https://doi.org/10.1007/978-3-030-88874-9_20

**Vietnam, Mekong Delta**

Tran Viet Hoan et al.,  
An Improved Groundwater Model Framework for Aquifer Structures of the Quaternary-Formed Sediment Body in the Southernmost Parts of the Mekong Delta, Vietnam  
April 2022Hydrology 9(4):61 Follow journal  
DOI: 10.3390/hydrology9040061  
Mining

**Australia, Queensland**

Australian farming practices could be affected by CSG subsidence


**Australia**


https://www.mdpi.com/2075-163X/12/5/543

Modelling


Monitoring

**USA, California**

A set of Land Subsidence data in California:

WDL Ground Surface Displacement - Land Subsidence Monitoring

https://data.cnra.ca.gov/dataset/wdl-ground-surface-displacement

Peat

**Indonesia, Borneo**

NIVEDITA SANWLANI et al.,

Rising dissolved organic carbon concentrations in coastal waters of northwestern Borneo related to tropical peatland conversion.

https://www.science.org/doi/10.1126/sciadv.abi5688

**the Netherlands**

A YouTube film about land subsidence in the Netherlands with Gilles Erkens. (4.35 minutes)

https://www.youtube.com/watch?v=gIn7ReHjQg0&ab_channel=Deltares
From the Press

Brasil, Braksem mine

The Bebedouro neighborhood was abandoned because of ground subsidence caused by the Braskem mine. (AP: Eraldo Peres)


USA, California

NASA Researchers Untangle Puzzling Patterns of Sinking and Rising Land To Monitor Underground Water Loss

This map shows changes in the mass of water, both above ground and underground, in California from 2003 to 2013, as measured by NASA’s GRACE satellite. The darkest red indicates the greatest water loss. The central valley is outlined in yellow; the Tulare basin covers about the southern third. Extreme groundwater depletion has continued to the present. Credit: NASA/GSFC/SVS

**USA, Houston**

Rapidly sinking Houston: sinking nearly 2 centimeters a year, may it "disappear" in less than 100 years?

https://inf.news/en/world/Se634fd4d3df51ec9c2810b9415cc142.html

**Vietnam, Ho Chi Minh City**

HCMC seeks Japanese cooperation in sinking land response


**Vietnam, Mekong Delta**

Netherlands supports Mekong Delta’s sustainable development

https://en.vietnamplus.vn/netherlands-supports-mekong-delta-s-sustainable-development/224822.vn