

EINLADUNG ZUM GASTVORTRAG

Dienstag, 11. Januar 2022, 16:45 UHR

Universität Wien • Universitätsstraße 7 • 1010 Wien

Hybride Veranstaltung: HÖRSAAL
5A Geographie NIG oder online:

[https://univienne.zoom.us/j/93822355068?](https://univienne.zoom.us/j/93822355068?pwd=TzFQZkh4aHNTV21tb3hDVG9KMIV6UT09)

[pwd=TzFQZkh4aHNTV21tb3hDVG9KMIV6UT](https://univienne.zoom.us/j/93822355068?pwd=TzFQZkh4aHNTV21tb3hDVG9KMIV6UT09)

09

Meeting-ID: 938 2235 5068

Kenncode: 983672



Dr.

Katharina Anders

Universität Heidelberg, Geographisches
Institut, Germany

4D Change Analysis of Natural Landscape Dynamics in Near- Continuous LiDAR Time Series

The talk will present methodological research to analyze surface changes from near-continuous LiDAR time series of natural scenes. While these large datasets are becoming increasingly available in geoscientific applications, challenges arise for change analysis if the timing, duration, and magnitude of changes are highly variable, and where processes coincide or overlap in landscape dynamics. The research features use cases of coastal and snow cover monitoring, and puts forward a method that incorporates the full temporal information to improve the detection and quantification of natural surface changes.

Katharina Anders is a postdoctoral researcher in the 3DGeo Research Group at the Institute of Geography at Heidelberg University. Her research focusses on method development for change analysis of 3D/4D point clouds and LiDAR time series for understanding the spatial and temporal dimensions of landscape dynamics in geoscientific applications.