

EINLADUNG ZUM VORTRAG

am **DIENSTAG, 10. DEZEMBER 2024, 16:45 UHR**

INSTITUT FÜR GEOGRAPHIE UND REGIONALFORSCHUNG
Universität Wien • Universitätsstr. 7/5 • 1010 Wien
HÖRSAAL 5A

Dr. Michael DIETZE

Department of Physical Geography,
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THE HUM OF OUR ENVIRONMENT - UNDERSTANDING HAZARDS THROUGH THEIR SEISMIC FOOTPRINTS

Environmental change is implemented by often hazardous Earth surface processes. Modern measurement approaches to those landscape dynamics typically lack spatial distribution or temporal continuity. This systematic knowledge gap can be bridged by seismometers that are able to detect, locate and quantify many environmental processes over large temporal and spatial scales.

In the presentation, I introduce the discipline of environmental seismology. You will see how meteorological, hydrological, biological and hazardous slope activity and coupled processes leave their seismic traces. You will get to know how those traces can be analysed to gain insights into the anatomy and evolution of the processes, their drivers and triggers, as well as their consequences.

We will explore the innovative potential of environmental seismology and sketch future fields of application, based on three themes: (1) Biogeomorphology, (2) Flood early, and (3) Preparatory survey of large Alpine slope instabilities.

MD is a geographer by training with minors in applied geology and soil science. During his PhD project at the TU Dresden he studied physics and later, as a Post doctoral researcher at the GFZ Potsdam, he contributed to the development of the field of environmental seismology. He currently works as a researcher and lecturer at the Georg-August University Göttingen.

Organisiert von
Arbeitsgruppe *Geomorphologische Systeme und Risikoforschung*
Institut für Geographie und Regionalforschung
Universität Wien

Zoom-Meeting beitreten
<https://univienne.zoom.us/j/69541100870?pwd=mjMURPgilbmET7HlItGaaQkF9782Da.1>
Meeting-ID: 695 4110 0870
Passwort: 458532

