

Latest Highlights

New Publications

“Wenn Daten das neue Öl sind, dann ist Datenschutz der neue Umweltschutz.”

- Democracy - Im Rausch der Daten (2015, Doku)

- G. Pfalz, B. Diekmann, J.-C. Freytag, L. Strykh, D.A. Subetto, and B.K. Biskaborn (2022). **Improving age-depth correlations by using the LANDO model ensemble.** *Geochronology*, 4, 269–295. <https://doi.org/10.5194/gchron-4-269-2022>
- T. Rettelbach, M. Langer, I. Nitze, B. Jones, V. Helm, J.-C. Freytag, and G. Grosse. **From images to hydrologic networks - Understanding the Arctic landscape with graphs.** *ACM Proceedings of the 34th International Conference on Scientific and Statistical Database Management (SSDBM 2022)* (accepted).
- B. Ghosh, S. Garg, and M. Motagh (2022). **Automatic flood detections from Sentinel-1 data using deep learning architectures.** *ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci.*, V-3-2022, 201–208, <https://doi.org/10.5194/isprs-annals-V-3-2022-201-2022>.

Recent Presentations at Conferences

- T. Rettelbach, I. Nitze, and G. Grosse. **Polar-6 Airborne Expedition Perma-X West Alaska 2021.** (Oral presentation), *12. Treffen des AK Permafrost der DGP*, Online, 06 May 2022.
- T. Rettelbach, I. Nitze, S. Schäffler, S. Barth, I. Grünberg, J. Hammar, M. Gessner, T. Bucher, J. Brauchle, T. Sachs, J. Boike, and G. Grosse. **Super-high-resolution Earth observation datasets of North American permafrost landscapes.** (Oral and poster presentation), *8th NASA ABoVE Science Team Meeting*, Fairbanks, Alaska, USA, 9-12 May 2022.
- T. Rettelbach, C. Witharana, A. Liljedahl, M. Langer, I. Nitze, J.-C. Freytag, and G. Grosse. **The Evolution of Ice-Wedge Polygon Networks in Tundra Fire Scars.** (Poster presentation), *16th International Circumpolar Remote Sensing Symposium*, Fairbanks, Alaska, USA, 16-20 May 2022.
- T. Rettelbach, M. Langer, I. Nitze, V. Helm, J.-C. Freytag, and G. Grosse. **Quantifying Rapid Permafrost Thaw with Computer Vision and Graph Theory.** (Poster presentation), *ESA Living Planet Symposium*, Bonn, 23-27 May 2022.
- B. Ghosh, M. Motagh, S. Garg, M. Sips, D. Eggert. **Deep learning, remote sensing and visual analytics to support automatic flood detection.** (Oral presentation), *EGU General Assembly*, Vienna, Austria & Online, 23-27 May 2022.
- B. Ghosh, S. Garg, M. Motagh. **Automatic flood detection from Sentinel-1 data using Deep learning architectures.** (Oral presentation), *ISPRS Congress*, Nice, France, 6-11 June 2022.

- [N. Veigel](#), H. Kreibich, and A. Cominola. **Exploring Behavioral Determinants of Flood Insurance Adoption with Explainable Machine Learning in the Continental US.** *EGU General Assembly*, Vienna, Austria & Online, 23-27 May 2022. EGU22-5839, <https://doi.org/10.5194/egusphere-egu22-5839>
- [G. Pfalz](#), B. Diekmann, J.-C. Freytag, L. Syrykh, D. A. Subetto, and B. K. Biskaborn. **Using LANDO as a universal wrapper for applying multiple age-depth modeling systems for sediment records from Arctic lake systems.** *EGU General Assembly 2022*, Vienna, Austria, 23–27 May 2022, EGU22-8743, <https://doi.org/10.5194/egusphere-egu22-8743>
- [J. Münchmeyer](#), J. Woollam, F. Tilmann, A. Rietbrock, D. Lange, T. Bornstein, T. Diehl, C. Giunchi, F. Haslinger, D. Jozinović, A. Michelini, J. Saul, and H. Soto. **Which picker fits my data? A quantitative evaluation of deep learning based seismic pickers.** *EGU General Assembly 2022*, Vienna, Austria, 23–27 May 2022. <https://meetingorganizer.copernicus.org/EGU22/EGU22-4071.html>

Other

- **Elizabeth Robertson** has been interviewed by HIDA on HEIBRiDS, her research and her future plans. You can read the full interview [here](#).

Announcements / Upcoming Events

1st HEIBRiDS PhD defense

Siddhant Agarwal is defending his PhD thesis on **June 21, 13:00 – 15:00**. The defense is going to take place at TU-Berlin (exact location to be announced).

HEIBRiDS Website

The HEIBRiDS website has been recently updated. A tab on [News](#) has been added, where you can find both news from HEIBRiDS, as well as news from HIDA and the other Data Science Schools. On the updated website, the Events & Training tab has also been reconstructed. Among other changes, the current training offers of our partners are now summarized [here](#).

Poetic AI Exhibition

The immersive exhibition [Poetic AI](#) at the [Napoleon Complex](#) is a visual journey, where physics, art, cosmology, neuroscience and ancient civilisations are linked and presented in a large format via the help of artificial intelligence. It has been produced by the media studio [OUCHHH Berlin](#) and will run until **August 12, 2022**. The makers of the experience exhibition promise an “AI journey through the consciousness of the world's most creative artists and geniuses”.