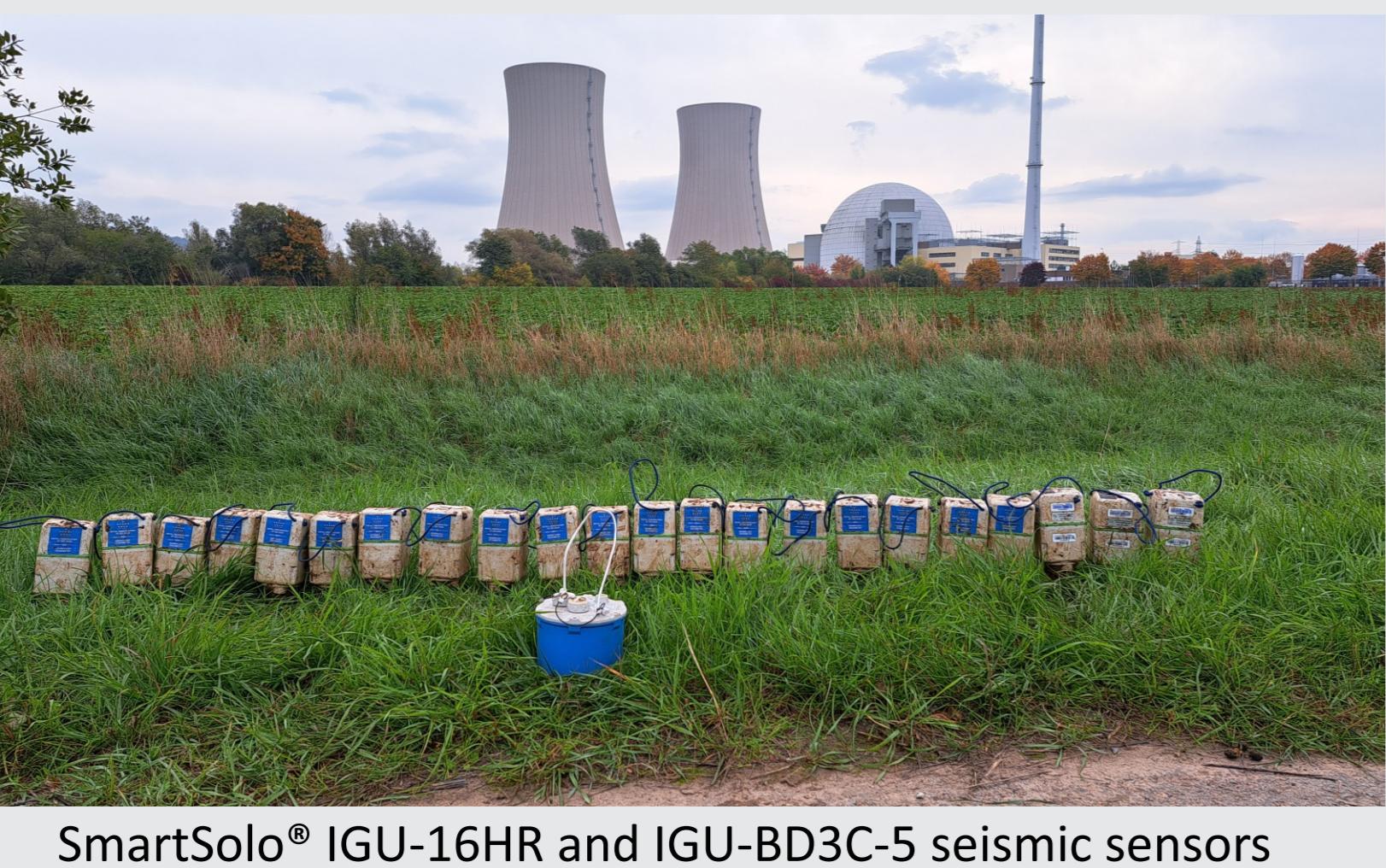




koen.vannoten@seismology.be
<https://sites.google.com/site/koenvannoten>

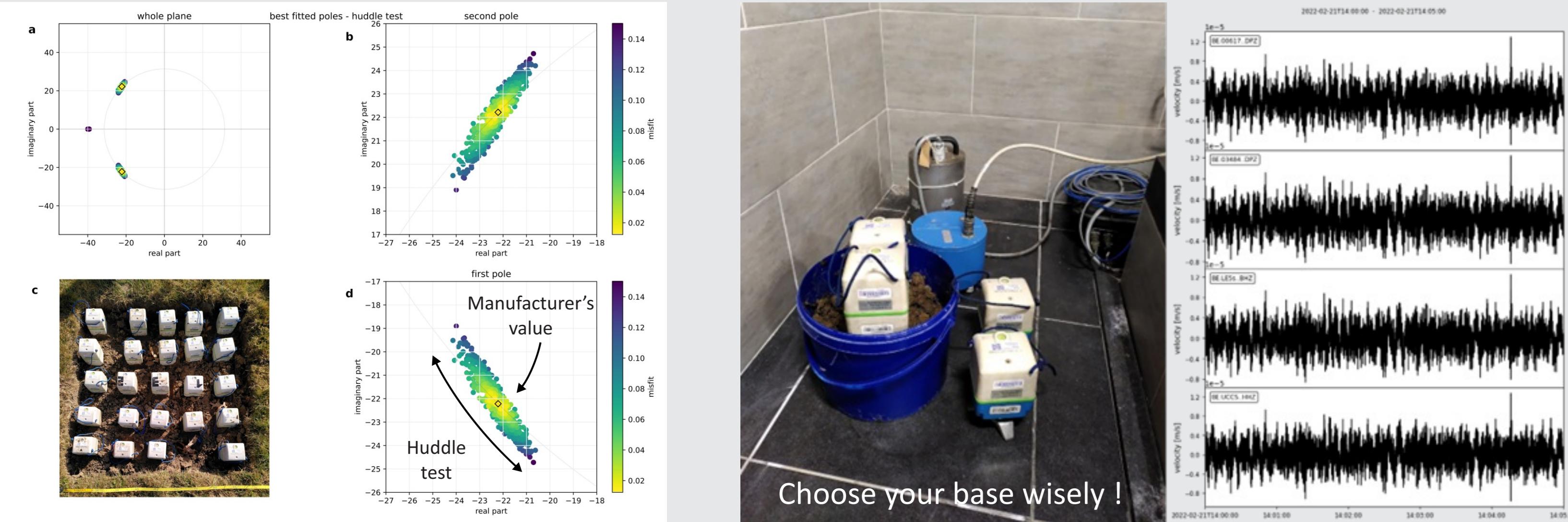
SMARTSOLO (MODULAR) IGU-16HR 3C AND IGU-BD3C-5



©Koen Van Noten, Royal Observatory of Belgium
SmartSolo® IGU-16HR 3C connected to standard battery tripods during an urban seismology campaign in Brussels

SmartSolo® IGU-16HR and IGU-BD3C-5 seismic sensors used for geophysical prospection in Hameln (DE)

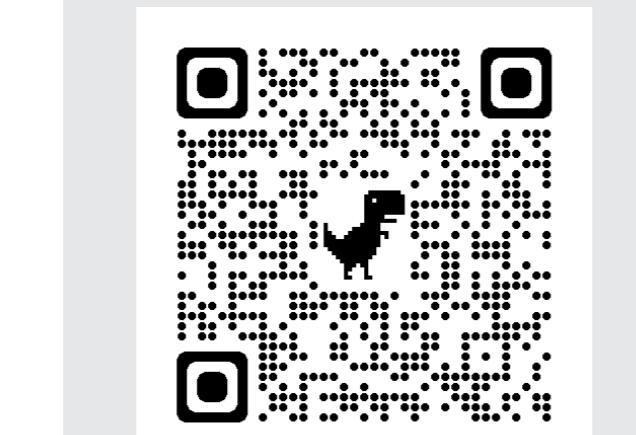
NODE LAB PERFORMANCE: ZECKRA ET AL. PREPRINT



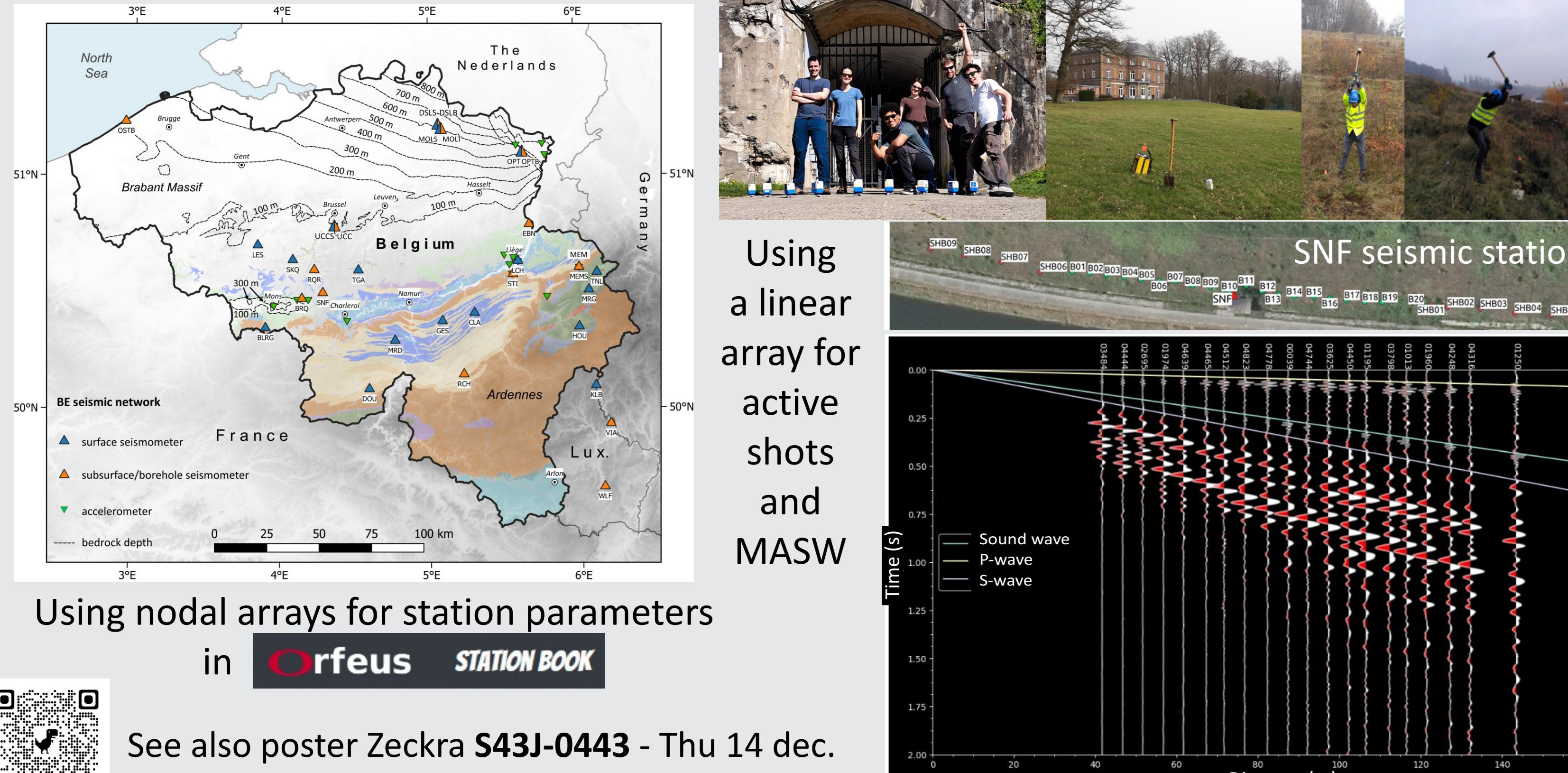
Huddle test: Transfer function as poles in the complex plane colored by misfit

Spikes base vs tripod base vs Lennartz LE3D/5s vs Guralp CMG 3ESP: waveform and H/V spectral ratio similarity !

Zeckra et al.
Preprint



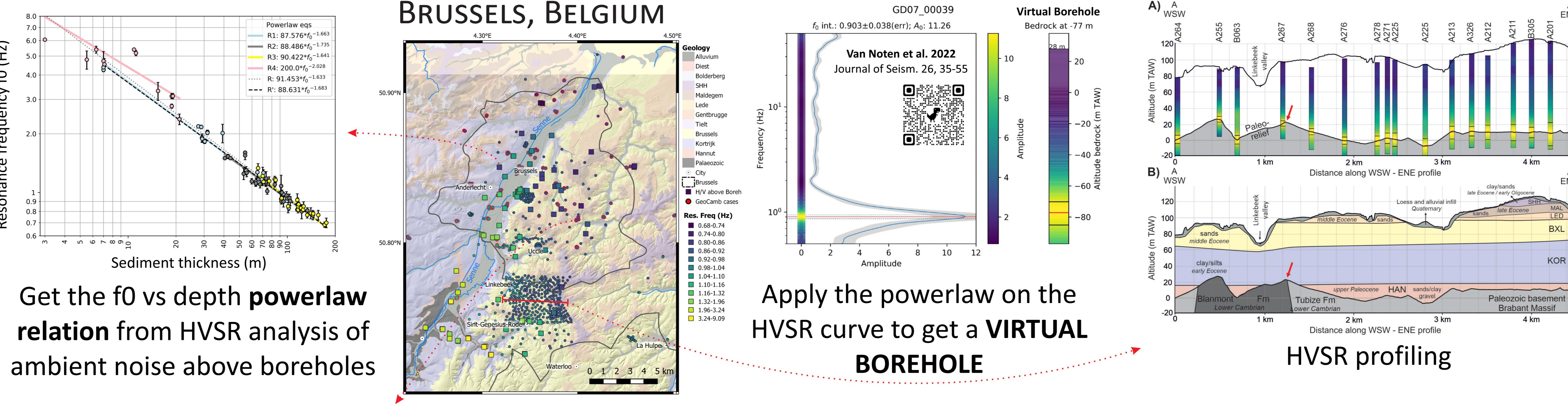
SITE CHARACTERISATION OF THE BELGIAN NETWORK



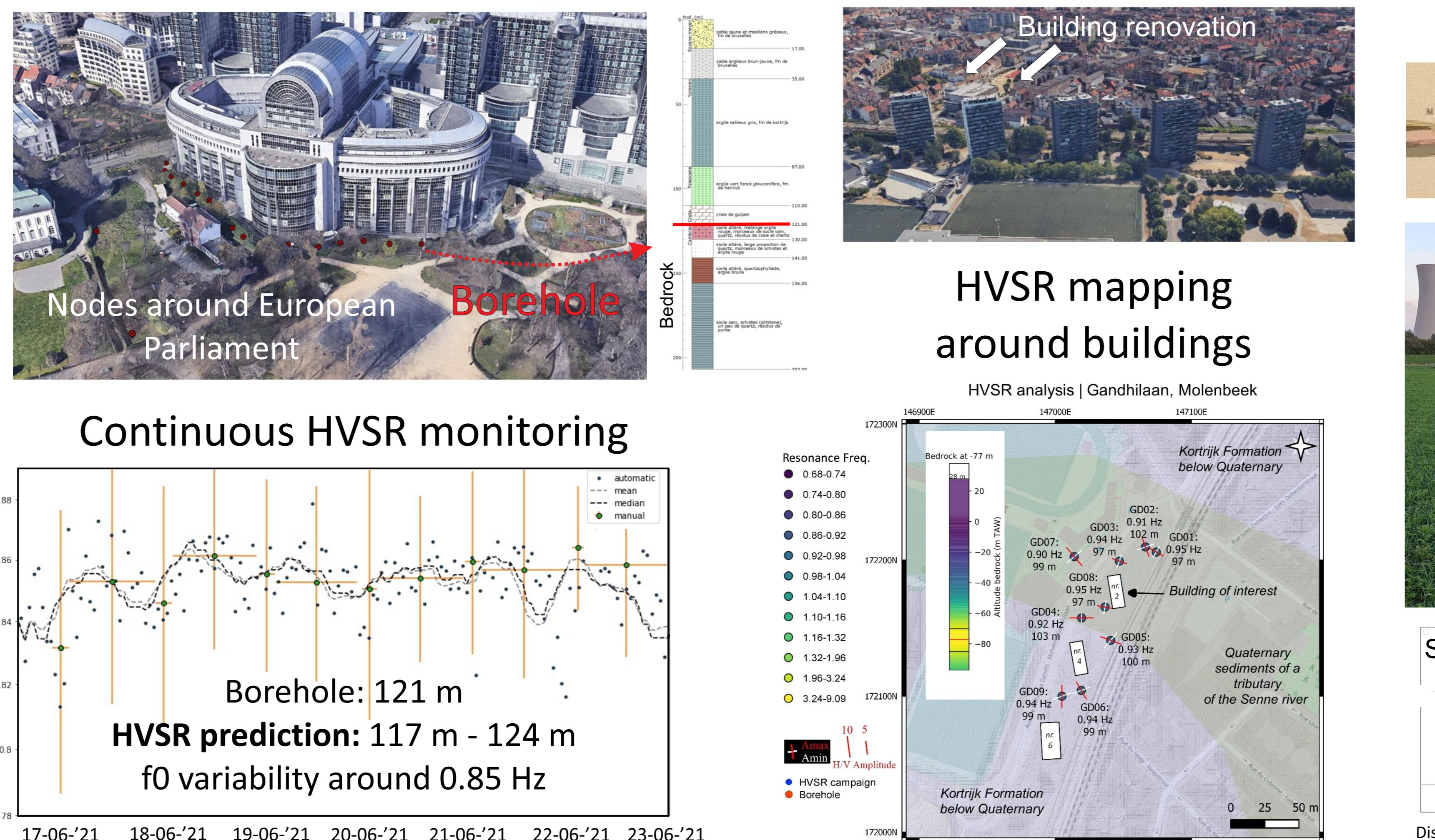
Using nodal arrays for station parameters in **Orfeus STATION BOOK**

See also poster Zeckra S43J-0443 - Thu 14 dec.

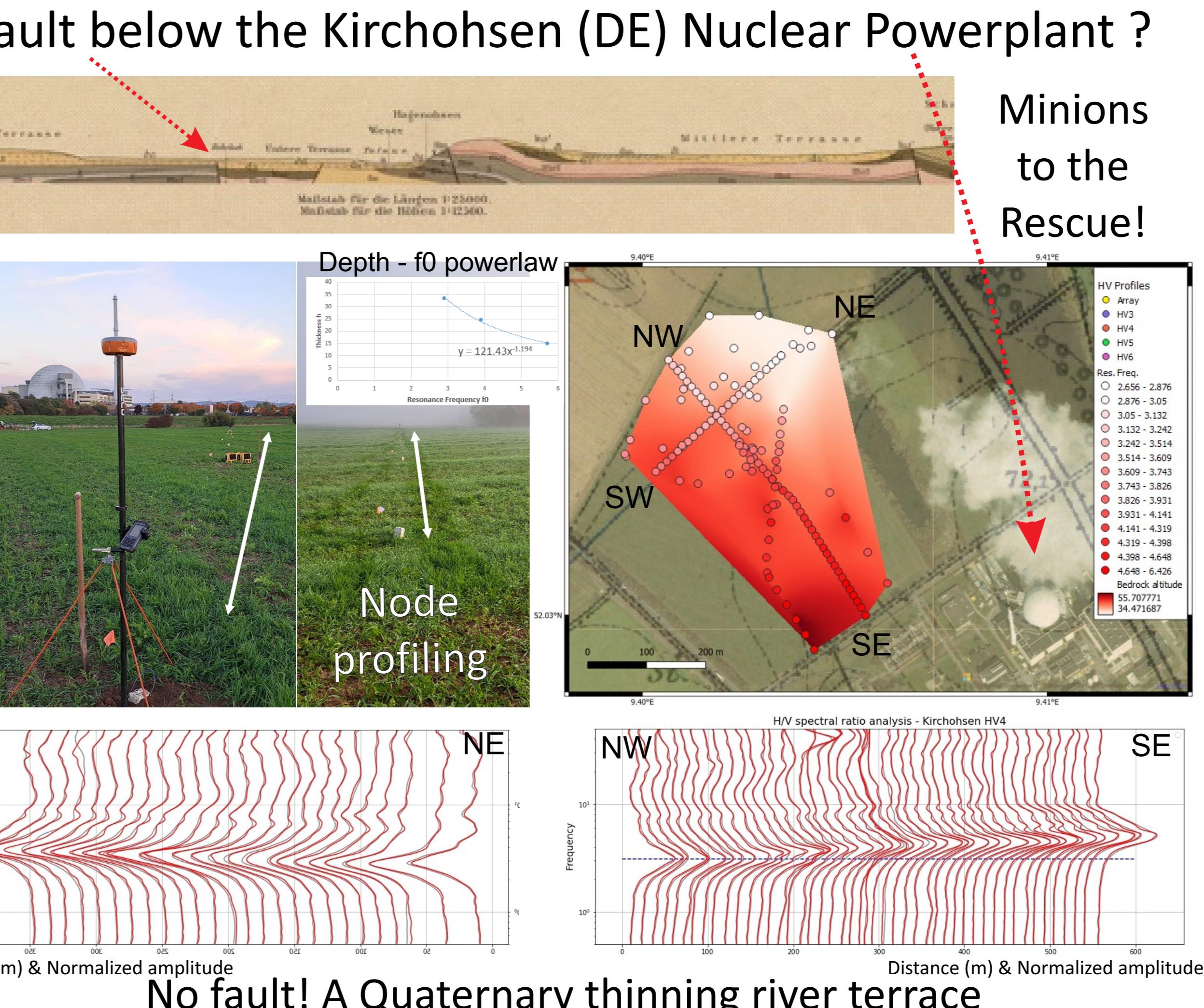
URBAN SEISMOLOGY AND BEDROCK DEPTH PREDICTION USING H/V SPECTRAL RATIO IMAGING



BEDROCK BELOW BUILDINGS WITH GEOTHERMAL INTEREST

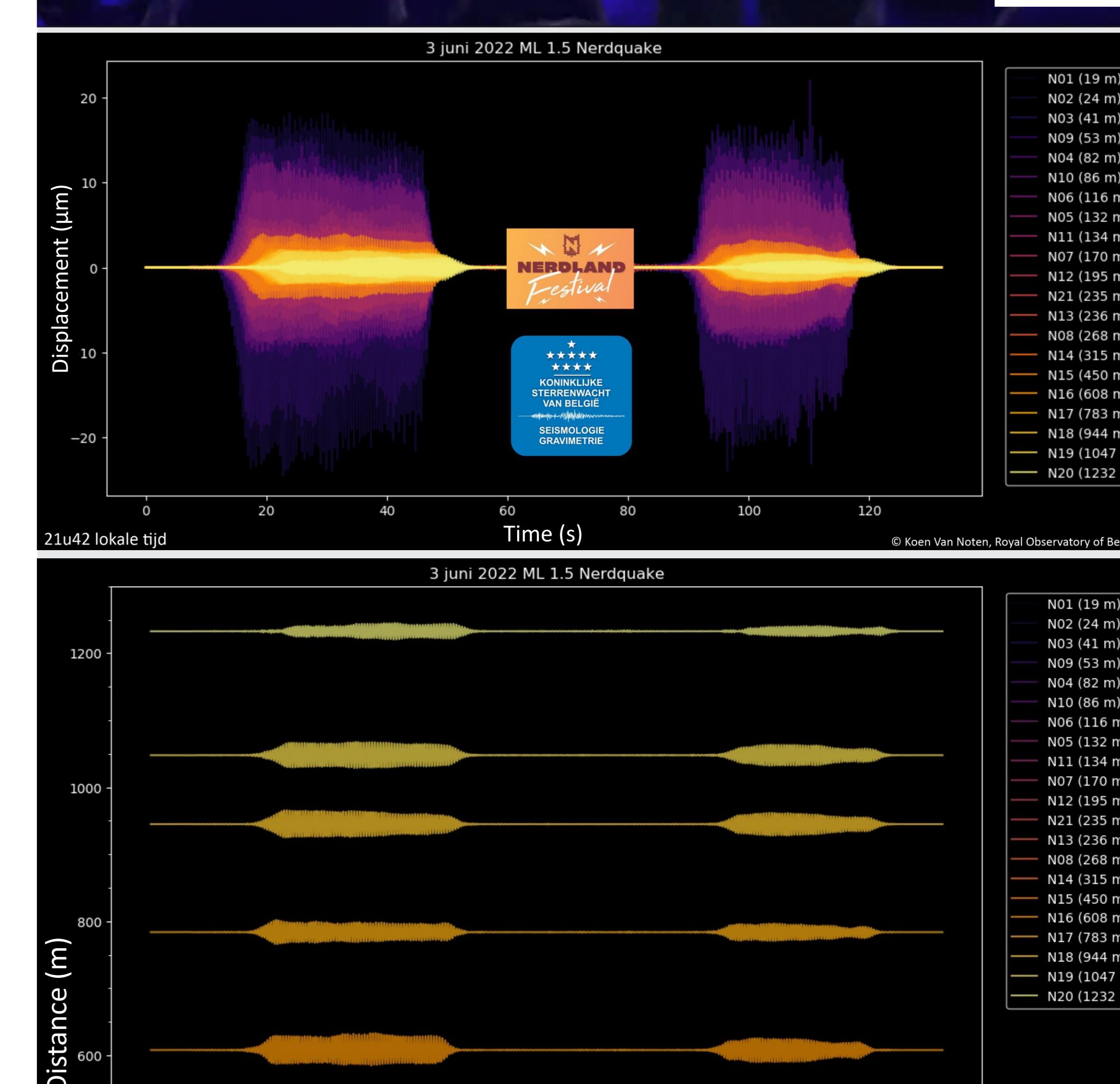


SOLVING GEOLOGICAL PROBLEMS



OUTREACH: THE ML 1.5 NERDQUAKE !

800 people jumping synchronously during a science festival. 21 nodes up to 1.2 km from the festival tent. Data restituted to displacement. Amplitude scaled to Belgian ML scale. Result: 800 people jumping = equivalent of ML 1.5 eq!

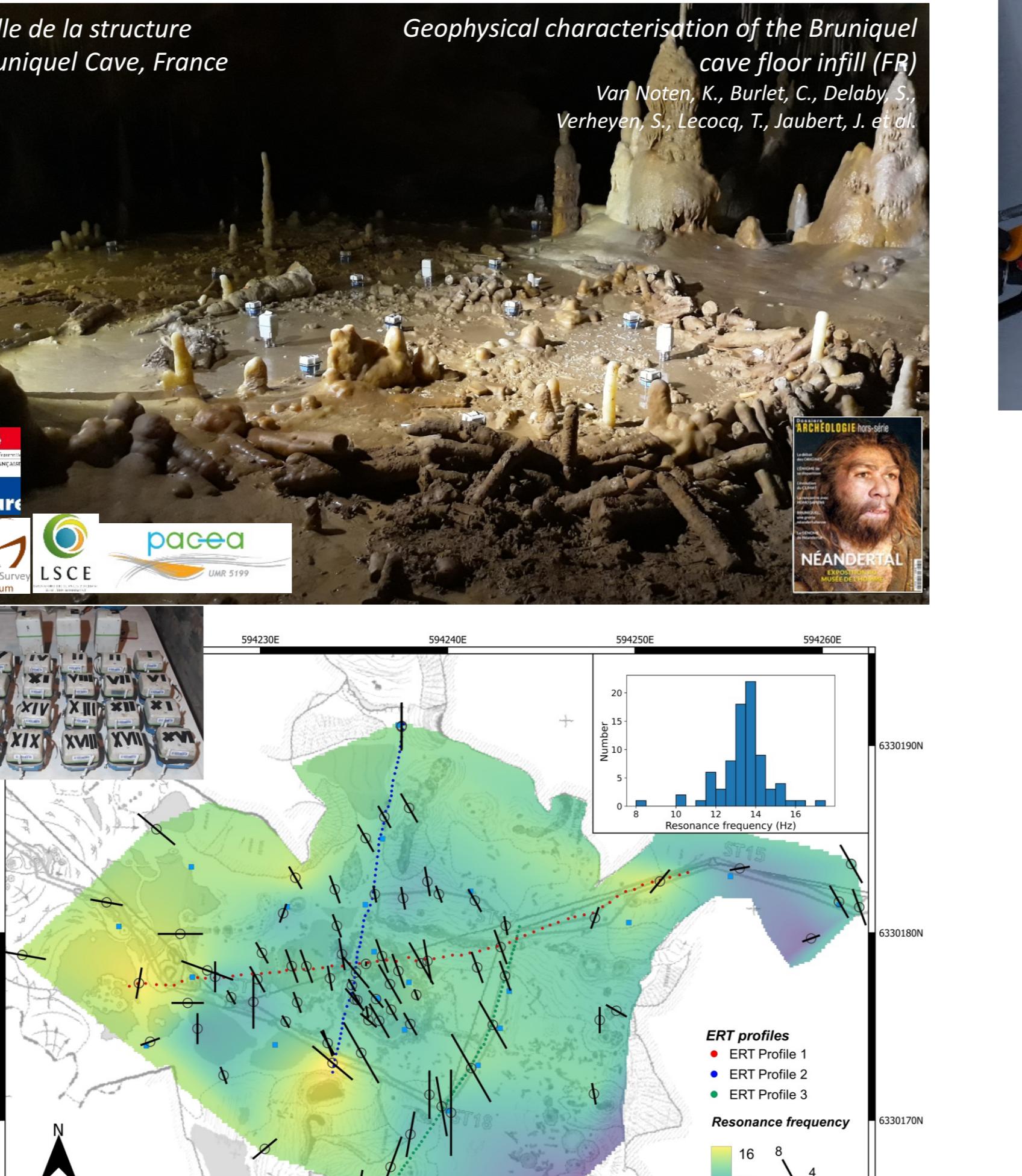


OUTREACH: SEISMO AT SCHOOL

Three minions tracking ground motion decay of kids jumping. Great outreach tool!

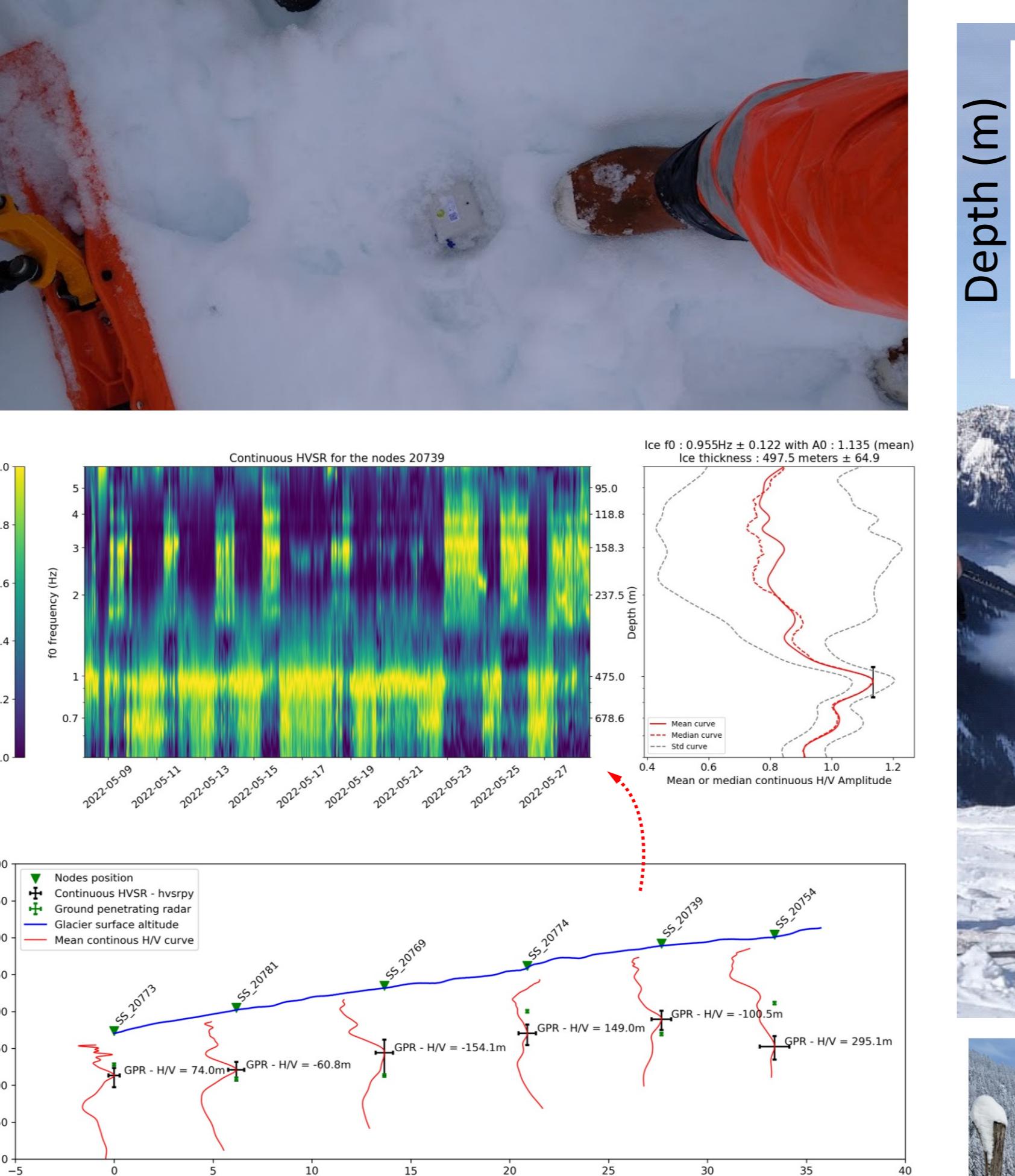


CAVE INFILL (FR)



H/V polarisation maximal along limestone beds. Great tool for finding bedding orientation!

GLACIER THICKNESS (IS)



Nodes buried on Vatnajökull glacier in Iceland. Continuous HVSR monitoring for studying glacier dynamics.

During Heiner Igel's annual SKIENCE winterschool, we placed nodes on the ski piste to track parallel skiers and finding their source. Why? Because we can :-)