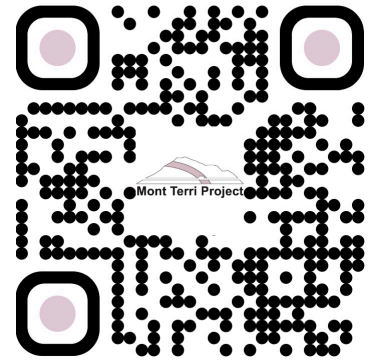


Mont Terri Project Underground Rock Laboratory

Report period: August 25–31, 2025

Assembled and edited by swisstopo, St-Ursanne



Spotlight of the week: New trainee at Mont Terri! Starting on September 1st, Caroline Etter will join us for one year as a trainee. She studied geology at UNIL and graduated this year in February as a geologist. We are excited to welcome Caroline and look forward to a great collaboration.

CD-A (Influence of Humidity on Cyclic and Long-Term Deformations) experiment

- On Monday, August 25, S. Schefer (swisstopo) restarted the switch and the computer attached to the UPS due to a malfunction of the UPS that could be resolved with a reboot of the UPS.
- On Thursday, August 28, N. Philipossian and G. Vuilleumier (Sigeom) performed a new laser scan inside both Twin Niches.

CL (CO₂LPIE-CO₂ Long-Term Periodic Injection) experiment

- From Tuesday to Wednesday, August 26–27, C. Debourdan (Inelectro) installed an independent electrical connection for the CL-experiment. Therefore, several interruptions of the electrical connection were unavoidable.
- From Tuesday to Wednesday, August 26–27, J. Gisiger (Solexperts) performed function checks of the installation. All measuring loops were interconnected as a preparation for the upcoming gas analysis.
- On Wednesday, August 27, M. Ziegler (swisstopo) moved the seismic DAS from PF-A to CL to continue seismic monitoring and conduct active seismic transmission surveys.
- On Friday, August 29, J. Gisiger (Solexperts) continued the function tests of the injection, water circulation and gas analyses cabinets (Figure 1).

HT (Hydrogen Transfer in Opalinus Clay) experiment

- On Monday, August 25, S. Schefer (swisstopo) emptied the Tedlar bag attached to the BHT-1 system.

IS-E (In-situ stress measurements using a novel flat jack method) experiment

- From Tuesday to Friday, August 26–29, A. Engelke, D. Novotny, C. Lege, and C. Fixar (BGR) installed the drill rig for BIS-E2 and drilled to 1.09 m. They ran into mechanical problems with the drill rig and have to interrupt the drilling until the engines are fixed (Figure 2).

PF-A (Progressive Evolution of Structurally-Controlled Overbreaks: Long-term monitoring, hydromechanical simulation and rock testing) experiment

- On Wednesday, August 27, M. Ziegler (swisstopo) moved the seismic DAS from CL to PF-A to conduct active seismic transmission surveys. The transmissions were manually started.
- On Wednesday, August 27, A. Rinaldi (ETHZ) and S. Schefer (swisstopo) installed a fiber optic connection between BPF-7 and Niche CO₂. This allows us to concentrate all fiber optic measurements on one single spot (Niche CO₂).
- On Wednesday, August 27, M. Ziegler (swisstopo) performed a photogrammetric survey of BPF-7.
- On Thursday, August 28, S. Schefer (swisstopo) measured the position of the geodetic targets inside BPF-7 for the new photogrammetry.

SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment

- On Thursday, August 28, S. Schefer (swisstopo) refilled the HPT of shaft 1.

Visits

Day	Date	Group Name	Group Size	Visitors Guide
Fri	29.8.2025	Ehem. Of Stab Inf Rgt 15	5	R. Nicol (swisstopo)

Figures



Figure 1: CL: J. Gisiger observing the filling of the circulation units (S. Schefer, swisstopo).



Figure 2: IS-E: Drill site close to the ventilation cavern with the entire BGR-team (S. Schefer, swisstopo).