



Mont Terri Project

Underground Rock Laboratory

ANDRA BASE BGE BGR CHEVRON CRIEPI DOE ENRESA ENSI ETH FANC GRS HELMHOLTZ IRSN JAEA NAGRA NWMO OBAYASHI RWM SCK•CEN SWISSTOPO TOTAL

Mont Terri Rock Laboratory

Field report: April 26-May 2, 2021 (Phase 26)

DR-D (Heterogeneity of Sandy Facies by Geophysical Characterization and Diffusion studies) experiment

- Monday to Wednesday, H. Gutgesell and HW. Sassmannshausen (Schützeichel) drilled BDR-D1 down to 5 m. Next week the two lateral boreholes BDR-D1 and BDR-D2 of ca. 16 m length each will be drilled in Ga18 close to niche TS (**Figure 1**).
- On Tuesday and Wednesday, V. Regard (swisstopo) did the core mapping of the first 5 m of BDR-D1.

FS-B (Imaging the Long Term Loss of Faulted Host Rock Integrity) experiment

- On Monday, M. Felder and S. Schefer (swisstopo) performed a pulse test inside BFS-B2 (35 bars with immediate shut-in at 10.50 h).
- On Friday, V. Regard inflated the packer of BFS-B2.

GT (Gas Transport Models and the Behavior of OPA to Gas Pressure) experiment

- On Wednesday, B. Helmlinger (Solexperts) was on site for maintenance of the fibre-optics inside the boreholes. He also changed the computer for the data acquisition.

PF (Progressive Rock Mass Failure and Overbreak Sealing) experiment

- From Monday to Thursday, M. Felder (swisstopo) exchanged the connectors to the different boreholes (**Figure 2**) and M. Furche (BGR) remotely measured ERT for nine cross-hole sections and along every borehole (BPF-1 to BPF-6).
- On Friday, the ERT measuring system was moved back to SW-A.

SM-C (Permanent Nanoseismic Monitoring) experiment

- On Tuesday, M. Felder and S. Schefer re-installed the newly calibrated seismometers of SNS-2 and SNS-4 and exchanged the cable for SNS-1N. R. Häfner (Seismic Solutions) remotely checked the state of the Centaurs, and while SNS-1 and SNS-3 are running, SNS-2 is still not accessible.
- On Monday, M. Felder and S. Schefer with the remote assistance of E. Meier (EMP AG) removed 2 dl of water from the hydrostatic levelling system (HLS).

Varia

- Announcement: In the framework of the MH experiment, geodetic measurements will be carried out in the Security Gallery. **During the weeks May 17–21 and May 31–June 4, access to the rock laboratory will be limited and partly not possible with vehicles.**

Visits

- The first visits since last December have taken place this week!

Tue	27.04.2021	Bilingual session (secondary school), Delémont (JU)	12	R. Nicol
Fri	30.04.2021	Laville-Nappep family, Grandfontaine (JU)	10	R. Nicol

D. Jaeggi and S. Schefer, April 30, 2021



Figure 1: DR-D: Installation for BDR-D1 is ready (Photo: V. Regard, swisstopo).



Figure 2: PF: M. Felder changing the grounding cable from a packer to the steel casing to produce better results (Photo: S. Schefer, swisstopo).