



Mont Terri Project

Underground Rock Laboratory

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

Mont Terri Rock Laboratory

Field report: January 21–27, 2019 (Phase 24)

Distribution

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Supporting Research Organisations

Paul Scherrer Institute PSI: S. Churakov, M. Glaus, Th. Gimmi, L. van Loon
ETHZ: S. Löw, M. Ziegler, S. Wiemer, A. Zappone
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Project Management

Swisstopo: C. Nussbaum (Project Manager), T. Theurillat (Site Manager), S. Schefer (Deputy Site Manager), D. Jaeggi (Research Associate)
GGT: F. Burrus (Project Engineer), Th. Küttel, R. Daneluzzi

Construction of Gallery 18

- This week the renovation work continued in Niches HG-A and EZ-B in Gallery 04 and was completed by Wednesday afternoon. After cleaning and demobilization, the renovation is successfully finished.
- On Thursday and Friday, part of the invert in the sections TS1, TS2 and TS3 of Gallery 18 was renovated as well. Attention was paid not to damage the existing fiber optic systems for strain measurements. The invert was concreted on Friday in this part of the rock laboratory.
- Excavation works in Ga18 will continue next Monday.

CS-D (CO₂: Studying Caprock and Fault Sealing Integrity) experiment

- On Monday, January 21, A. Zappone and Q. Wenning (ETHZ) were on site to check on the experiment and to do small maintenance work.

SI-A (Seismic imaging ahead of and around underground infrastructure) experiment

- From Monday to Wednesday, a team from GFZ Potsdam consisting of the PI S. Lüth, R. Esefelder, B. Wawerzinek, A. Jurczyk and K. Krüger, continued with the seismic pilot survey in Gallery 08, Niche TT and Niches 7 and 8 (**Figure 1**). The survey lasted until Wednesday, January 23.

Varia

- On Monday, January 21, Florian Amacher started his civil service at the Mont Terri rock laboratory (**Figure 2**). F. Amacher is currently taking a break from his Master Studies in Earth Sciences at the University of Bern to fulfill his civil duty at the Mont Terri. He will stay with us for 6 months.
- From Monday to Thursday, P.X. Meury and Q. Humair (Geo-Environnement Sàrl) measured the convergences in Gallery 18 and Niches 7 & 8 (invar-profiles).

Visits

Day	Date	Number of persons	Name of the group	Guide
Wed	23.01.2019	5	Seismic team from GFZ Potsdam (Helmholtz)	P. Bossart/ C. Nussbaum
Fri	25.01.2019	26	Lions Club Delémont	M. Pretalli
Fri	25.01.2019	25	Lions Club Bad Krozingen / Staufen (D)	P. Burgert



Figure 1: SI-A: B. Wawerzinek and the PI S. Lueth (GFZ Potsdam) during the seismic measurements performed in Gallery 08 next to the FS-B experiment (Photo: D. Jaeggi, swisstopo).



Figure 2: Varia: F. Amacher started his civil service at the Mont Terri rock laboratory (Photo: R. Raselli, swisstopo).