

Aperçu du programme de recherche (1996 - 30 juin 2020)

| Abbr. | Title of experiment | Phase 1&2 | Phase 3 | Phase 4 | Phase 5 | Phase 6 | Phase 7 | Phase 8 | Phase 9 | Phase 10 | Phase 11 | Phase 12 | Phase 13 | Phase 14 | Phase 15 | Phase 16 | Phase 17 | Phase 18 | Phase 19 | Phase 20 | Phase 21 | Phase 22 | Phase 23 | Phase 24 | Phase 25 | Phase 26 | | |
|-------|---|-----------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | 96/97 | 97/98 | 98/99 | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | 10/11 | 11/12 | 12/13 | 13/14 | 14/15 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 20/21 | | |
| AD | Analysis of discontinuity | | | | | | | | | | | | | | | | | | | | | | | | B | BZ | | |
| AS | Anisotropy of stresses | | | | | | | | | | | C | C | C | C | | | | | | | | | | | | | |
| BB | Borehole behaviour deformation | | | | | | | | | | | | | B | B | B | | | | | | | | | | | | |
| BF | Borehole fluid effects | AN | A | A | | | | | | | | | | | | | | | | | | | | | | | | |
| BI | Borehole inventory | | | | | | | F | F | F | | | | | | | | | | | | | | | | | | |
| BN | Bitumen-Nitrate-Clay-Interaction | | | | | | | | | | | ACNS | ACNS | ACINS | AINS | AINS | AINS | AINS | AINS | AINS | AFIS | AFIS | AFIS | AFIS | AFIS | AFIS | AFIMS | |
| BS | Variability of brittleness of Opalinus Clay | | | | | | | | | | | | | | | | | | | | | T | | | | | | |
| BW | Short-term borehole wall development | | | | | | | | | | | | | | BN | BN | | | | | | | | | | | | |
| CD | Cyclic deformations | | | | | | | | | | | HNT | HNT | HINT | HINT | HINT | HIT | BHIT | | | | | | | | | | |
| CD-A | Influence of humidity on deformation | | | | | | | | | | | | | | | | | | | | | | | | | BGHT | BGHTZ | |
| CI | Cement clay interaction | | | | | | | | | N | N | N | AN | AIN | AIN | ACINS | ACINOS | ACINOS | ACINOS | ACNOS | ACFNOS | ACFNOS | ACFNOS | ACFNOS | ACFNOS | ACFNOS | ACFNOS | |
| CI-D | Diffusion across concrete-clay interface | | | | | | | | | | | | | | | | | | | | | | | | ACFNOSW | ACFNOS | ACFNORSW | ACFNORSW |
| CL | CO2/PIE-CO2 Long-term injection | | | | | | | | | | | | | | | | | | | | | | | | B | BT | BKT | |
| CP | Chem. and physical weathering | | | | | | C | C | C | | | | | | | | | | | | | | | | | | | |
| CQ | Carbonate cap rocks quality | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS | CO2-sealing integrity | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS-A | Well leakage simulation & remediation | | | | | | | | | | | | | | | | OTV | OT | OT | OT | OT | OT | | | | | | |
| CS-B | Caprock integrity, remediation | | | | | | | | | | | | | | | | | V | V | TV | TV | TV | TV | TV | RTV | LRTV | LRTV | |
| CS-C | CO2-assessment shale properties | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CS-D | CO2-caprock and fault sealing integrity | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CW | High-pH cement porewater | AENO | AENO | ANO | ANO | NO | | | | | | | | | | | | | | | | | | | | | | |
| DB | Deep inclined borehole through OPA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DB-A | Porewater characterisation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DBS | Deep borehole simulation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DF | Drilling fluids for Opalinus Clay | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DI | Diffusion in rock | | AEINJS | AEINJS | AEINJS | AEINJS | | | | | | | | | | | | | | | | | | | | | | |
| DI-A | Long-term diffusion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DI-B | Hydrogeochemistry | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DM | Deformation mechanisms | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DM-A | Long-term deformation measurement I | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DM-B | Long-term deformation measurement II | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR | Diffusion and retention | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-A | Disturbances, diffusion and retention | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-B | Long-term diffusion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-C | Porewater chemistry and diffusion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-D | Heterogeneity of sandy facies | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS | Determination of stress | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT | Drilling techniques | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB* | Engineered barriers | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ED-A | EDZ hydraulic and pneumatic testing | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ED-B | EDZ evolution around Ga 98 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ED-C | EDZ seismic characterisation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EH | EDZ self-healing | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER | Natural electromagnetic radiation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EG | EDZ gas diffusion by carbon isotopes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EZ-A | EDZ out-off | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EZ-B | Fracture generation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EZ-E | Analysis of swollen EDZ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EZ-G* | Geophysical characterisation of EDZ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE | Full scale emplacement demonstration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE-A | Site preparation for FE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE-B | THM part of FE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE-C | Engineering part of FE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE-D* | Emplacement part of FE (LUCOEX) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE-E | EDZ in vicinity of FE Gallery | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Partners | A ANDRA | B BGR | C CRIEPI | D U.S. DOE | E ENRESA | F FANC (FOWG*) | G GRS | H ENSI (HSK) | I IRSN | J JAEA | K ETH |
| | L TOTAL | M BASE | N NAGRA | W NWMO | O Obayashi | P BGE | R RWM | S SCK-CEN | T swissstopo | V Chevron | Z Helmholtz |

* Experiments co-financed by EC

**FOWG until Phase 10, FANC from Phase 21 on

New experiment from phase 26

