



Cerema

Centre d'études et d'expertise sur les risques,
l'environnement, la mobilité et l'aménagement



IFSTTAR

Influence des cycles thermiques sur les instabilités rocheuses

Thèse de Claudia Villarraga-Diaz
Soutenance prévue le 12/12/2017

Thèse en cotutelle UPS / UPC

Muriel Gasc

Identification sur site

La Roque



La Roque Gageac

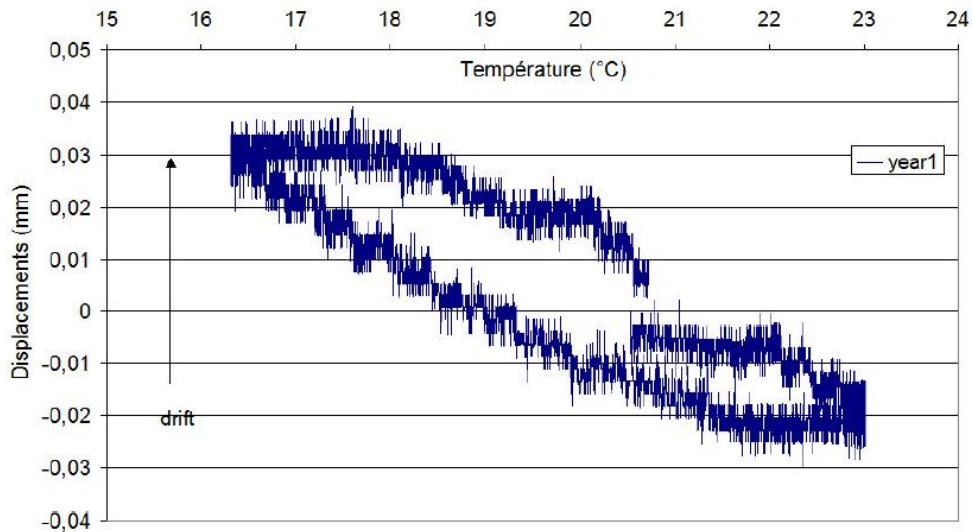
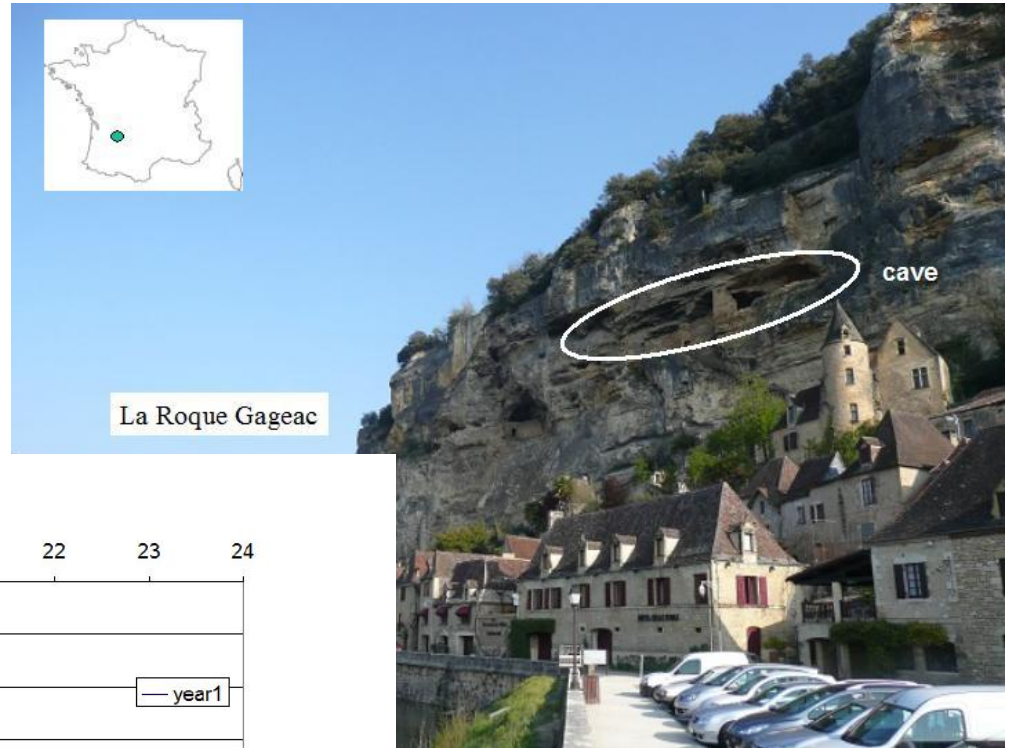
Dordogne River



IFST

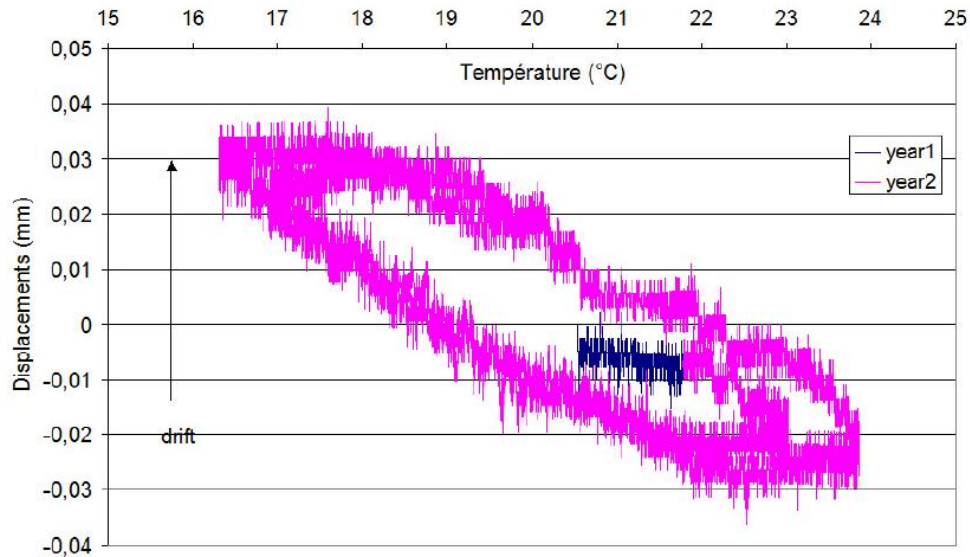
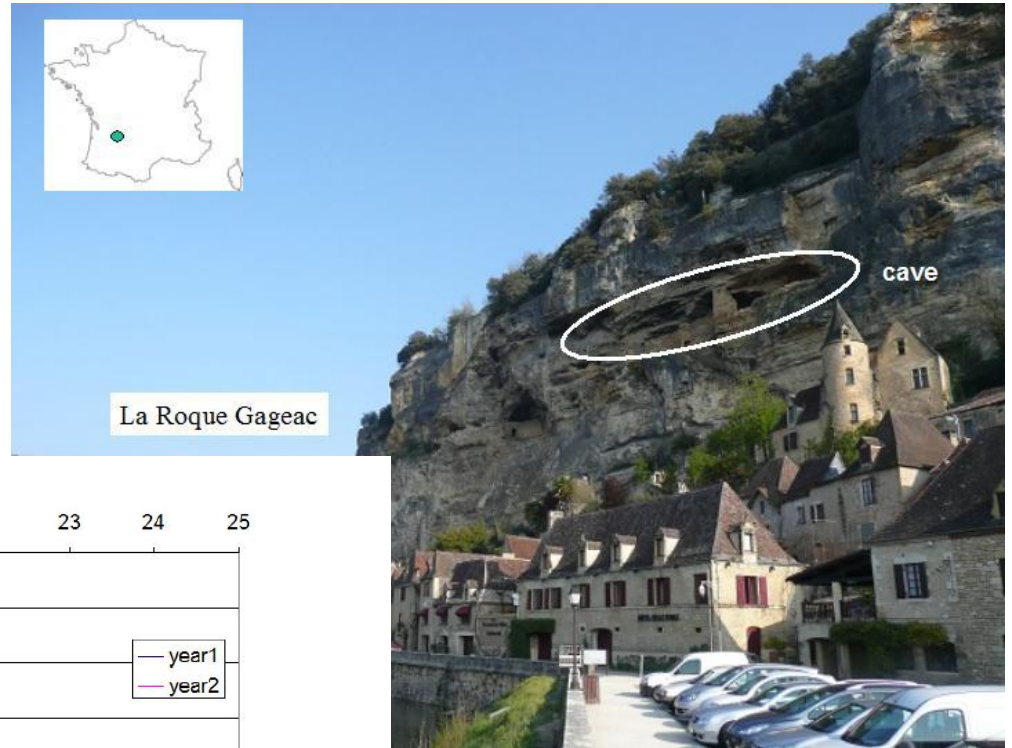
Identification sur site

La Roque-Gageac



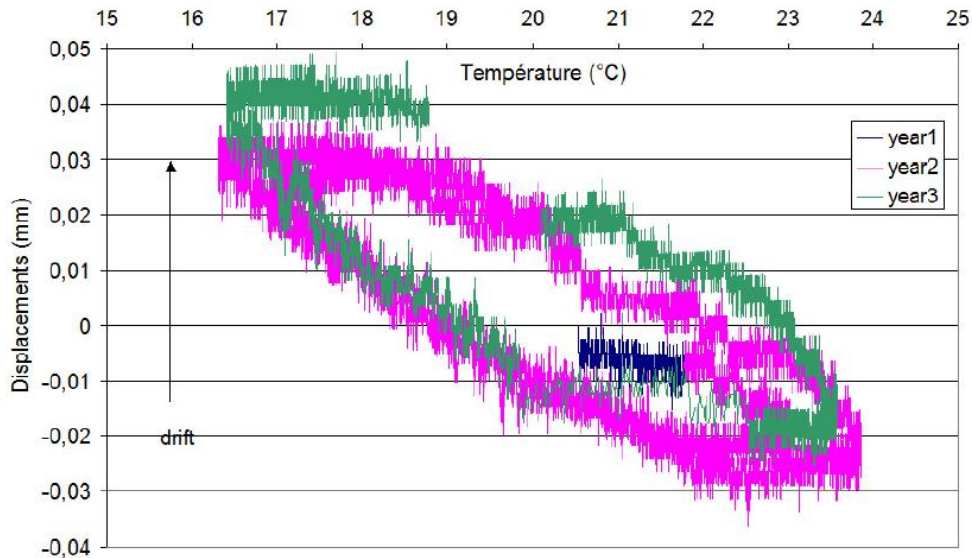
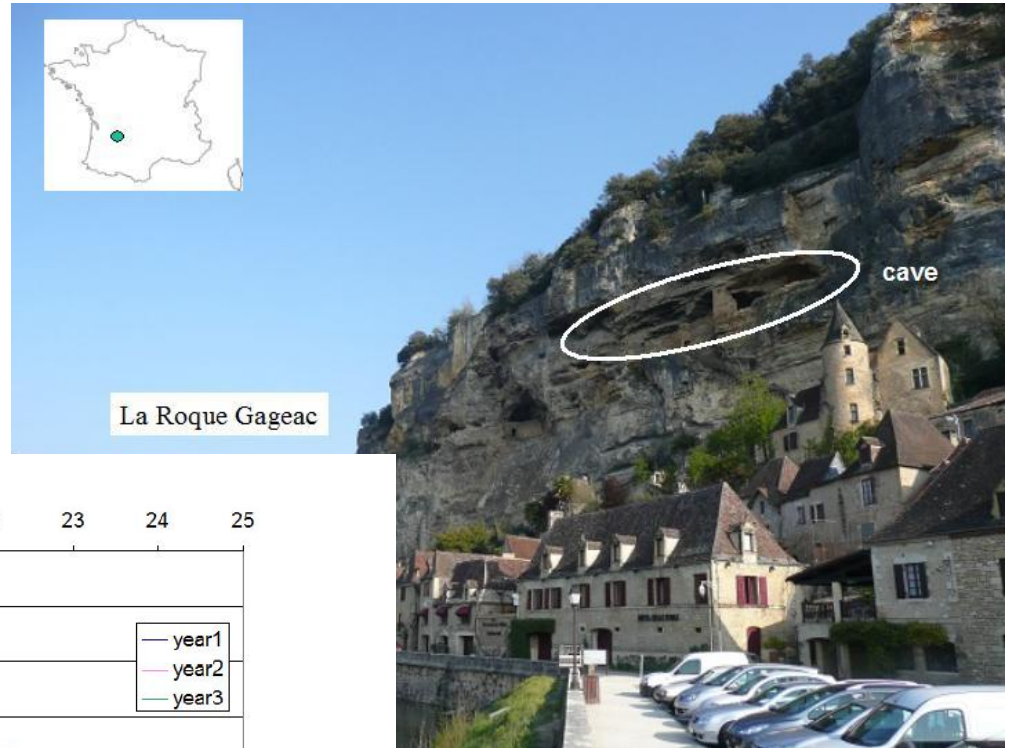
Identification sur site

La Roque-Gageac



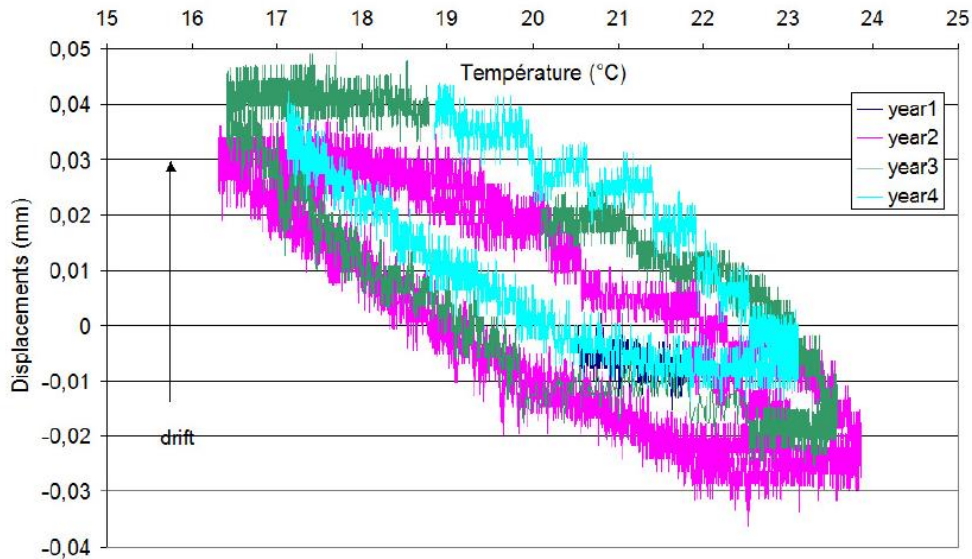
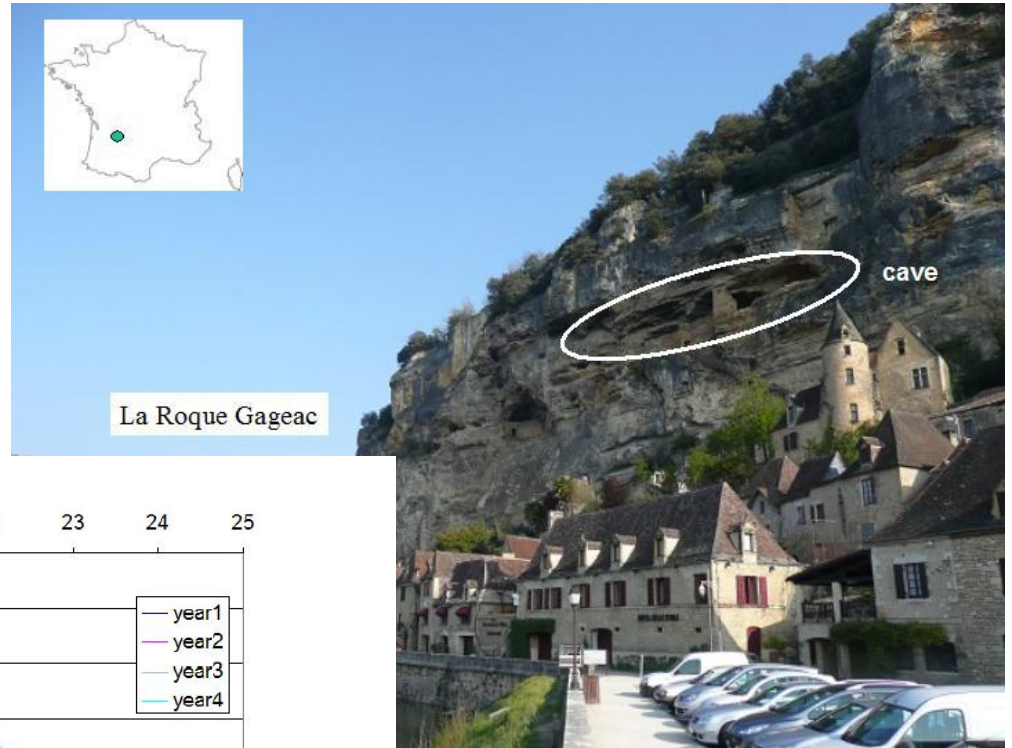
Identification sur site

La Roque-Gageac



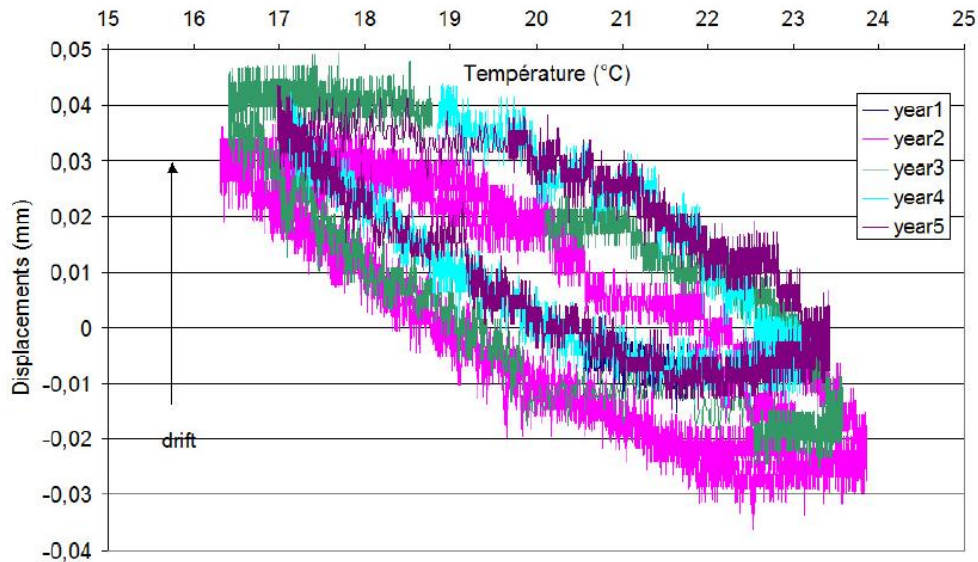
Identification sur site

La Roque-Gageac

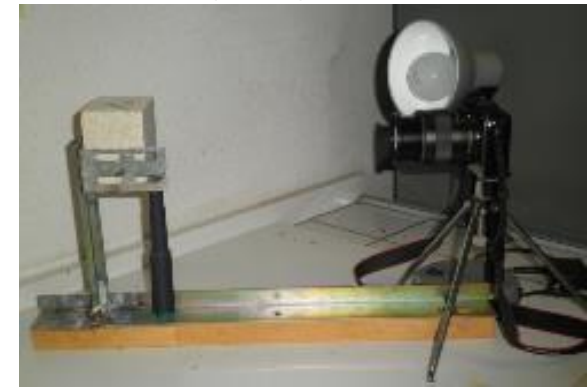
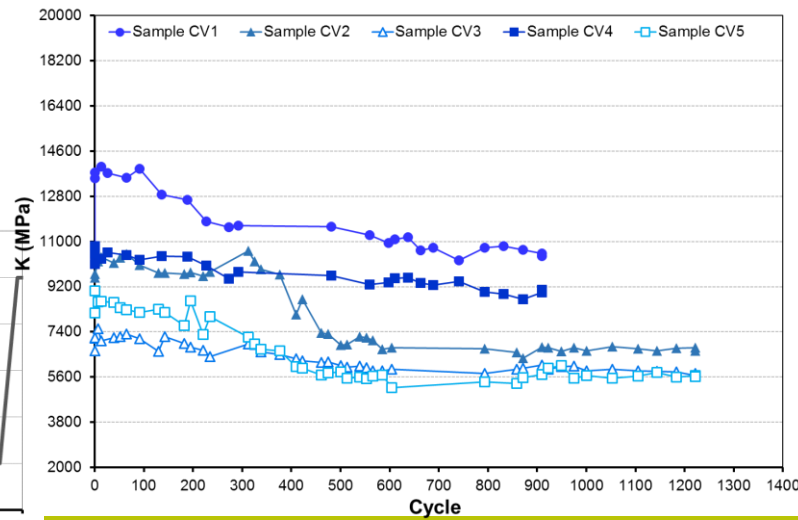
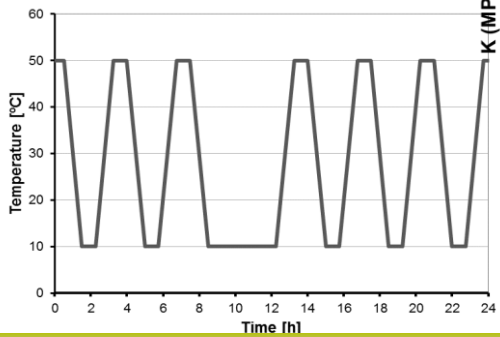
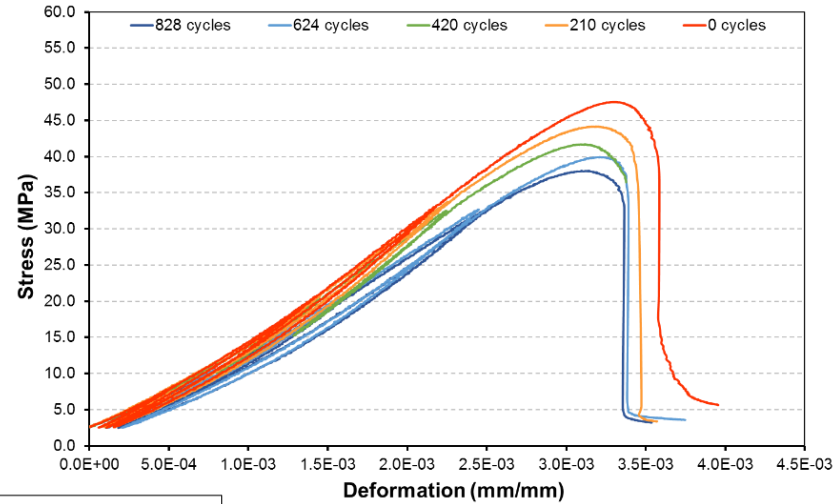
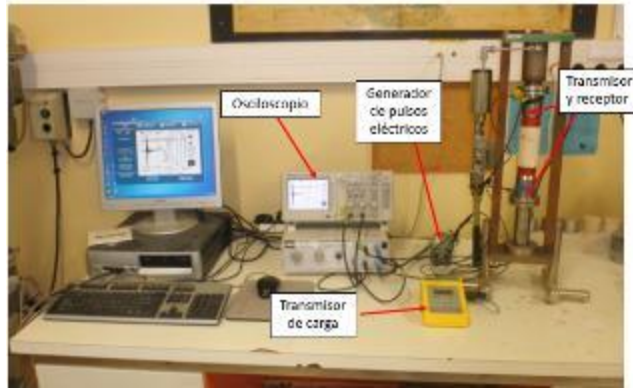
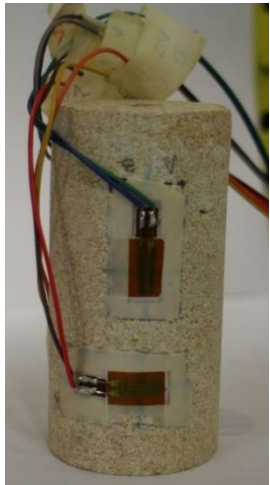


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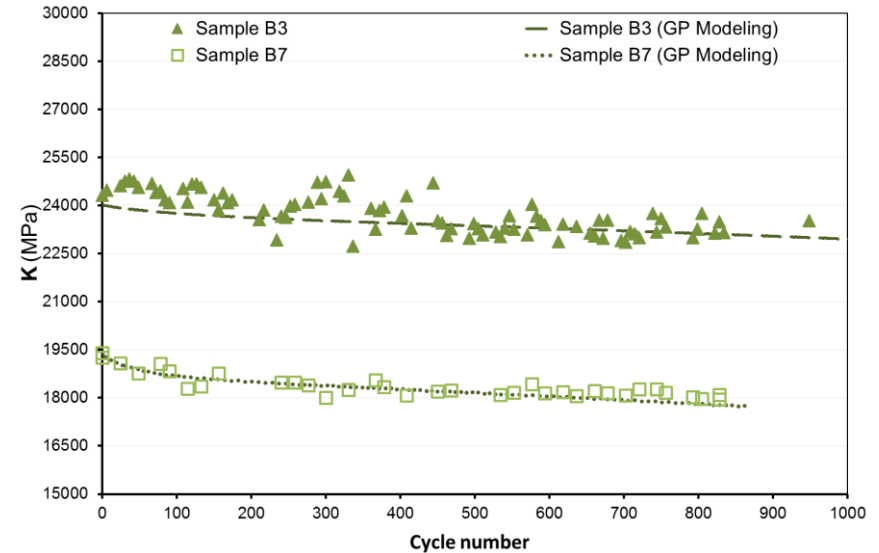
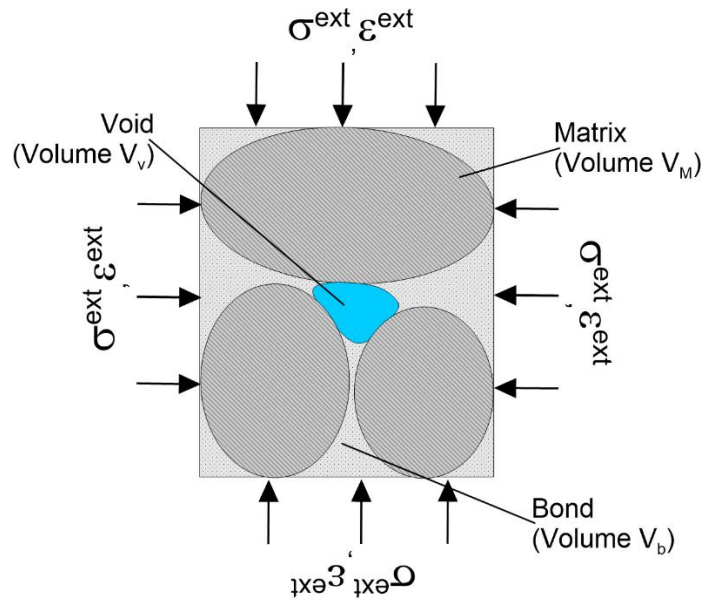


Etude en laboratoire



Modélisation

Développement d'une nouvelle LdC – grains (quartz) + « ciment » (calcaire) implémentée dans CODE_BRIGHT



Perspectives

Modélisation des mesures in-situ

Concurrence des différents phénomènes : couplages et seuils ?