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A noise comparison between two different types of sensor installation

M. Langlais, B. Vial, and O. Coutant
ISTerre, Université de Grenoble, CNRS

The RISE Interreg/Alcotra project between Grenoble and Nice Universities (France), Val d'Aoste and Piemont Environment Agencies (Italy) intend to develop and modernise the broadband seismic networks that monitor the seismic activity in the Alps across our common border.
During this three years project, ISTerre, the Geoscience Laboratory at Grenoble University has installed height new sites through the northern Alps.
We have put a particular effort on the installation with a focus on the quality of the sensor coupling and isolation from barometric pressure and temperature variations in the various kind of sites that were equiped (galery, outcrop, etc...).
We present in this study the analysis of noise sequences recorded before and after the installation of the broadband sensors (STS2 and Trillium) inside a dedicated gear made of a stainless-steel cover bolted on a massive granite plate that guarantee an isolation from pressure and temperature variations.