



VAULTNET: A New Infrastructure Project for the Installation of Geophysical Instrumentation at Mt. Etna (Italy)

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A new Mt. Etna integrated GPS-seismic broad-band network, composed by 13 stations, has been planned in the 2002. The installation of the instrumentations, on sites with different characteristics, has required a deep revision of the old vaults, where the seismic stations were previously located. Consequently we have planned a project in order to realize multi-sensor installations. Since broad-band seismic geophones, gravimetric and magnetometric sensors are very sensitive especially to physical and environmental factors (e.g. temperature and humidity ranges, wind, rain), a particular attention has been devoted at the quality of the used material (particular concrete, steel type, insulating board, pad, etc.). Moreover the infrastructure engineering was made in order to solve some difficulties due to the hard environmental conditions.