



## **Reawakening of the Teide volcano (Tenerife island, Spain): Monitoring the activity through the analysis of continuous seismic and GPS data.**

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The reawakening of the Teide volcano in 2004 caused the installation of several seismic and GPS stations, operating in continuous mode. This allowed the application of different techniques of time sequence data analysis. The results of the analysis of the background seismic noise, deformation model and b parameter of located seismic events show evidences of a magmatic process in course, probably related to the central volcanic system of Tenerife. Other obtained results not only allow the occurrence of tectonic events (volcanotectonic??) forecasting, but also the establishment of a clear influence in the variation of the background noise characteristics.