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Teide Volcanomagnetic network - VOLMAGTEGETEIDE

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A magnetic network for the detection and analysis of possible volcanomagnetic signals associated to the eventual reactivation of the Teide volcanic system (Tenerife, Canary Islands, Spain) has been designed and put into operation within the objectives of a multidisciplinary research project (TEGETEIDE CGL2004-21643-E) funded by the Spanish Ministry of Education and Science.

The network consists of five stations, three of them inside Las Cañadas caldera where a seismic array has also been installed, one station on the southern slope of the edifice and the other on the north part, in the Icod valley, where seismic activity has concentrated since 2004.

Güímar Observatory (National Geographic Institute, IGN) is the reference point used in the process of data reduction. A continuous record since June 2005 is available for most of stations. The possible correlation between seismicity and changes of magnetic field is being investigated, as well as site effects in every station.