



Electromagnetic emissions in the 142 to 415 MHZ band

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The purpose of this project is to capture electromagnetic emissions in VHF band. Possible correlations of these emissions prior to strong earthquakes are investigated. In order to record the variations of the electromagnetic field in a wide spectrum of frequencies up to UHF band, a new device has been designed and implemented by our research team. In the present study, the implemented system is described analytically and its potential contribution to the earthquake research is discussed.

Four prototype electromagnetic variation (EMV) field stations have already been installed in Western Greece, at the locations: Corfu, Ioannina, Ithomi and Kefalonia. This telemetric network was launched on 06/2004 and has been working until now. During this period there were ten strong earthquakes with magnitude over 5.5 R in the wider area of Western Greece. An initial analysis of electromagnetic emissions in VHF band is under discussion.