



Preliminary Results from the Seismoelectromagnetic Research at the front of the Hellenic Arc

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In the framework of the project TeCH-SEM [Technologies Coalescence for Holistic Seismoelectromagnetic Research (Lithosphere-Atmosphere-Ionosphere Coupling)] a number of seismoelectromagnetic stations are being installed and continuously operated in the south front of the Hellenic Arc.

Up to now two such stations are operated. The first one was installed in early 2013 at Omalos plateau, W. Crete (35.33 , 23.89). The second one was installed on April 2014 in Rhodes Island (36.17 , 27.97). Although the recording history of the stations is not very broad, there are significant indications that probably both stations are sensitive to the detection of preseismic signatures.

In this work we discuss characteristic cases of possible precursory seismoelectric anomalies observed and with emphasis the cases of the strong M6.4 earthquake of October 12, 2013, occurred approximately 60km WNW from Omalos' station and the M5.8 earthquake of August 29, 2014, occurred approximately 130km NNW from Omalos' station.

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