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A PERSPECTIVE ELECTRIC EARTHQUAKE PRECURSOR OBSERVED IN THE APENNINES

We present the data on a possible electric precursor of the earthquake with magnitude 5.2 occurred on September 14, 2003 at 22h 42m 50s in the Tosco-Emiliano Apennines (Lat. 44.22°; N Long. 11.35°E). The precursor was recorded with an instrument called Radiogeophone installed in an experimental station located near Cascia (PG) (Lat. 42.8° N; Long. 13.1° E; 900 m a.s.l.). A similar precursor was also received at the same station beginning at least 50 days before the earthquake of Colfiorito (epicentre lat. 43.0° N, long. 12.9° E, about 30 km from Cascia) occurred on September 26, 1997 with magnitude 5.3 and followed by a set of aftershocks. The same type of signal was recorded in the laboratory during experiments of rock fractures.