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Power law relationship between parameters of earthquakes and precursory electrical phenome revisited II

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Abstract. The credibility of the power law relation, reported by Dol (2009) between the stress drop of an earthquake and the lead time preceded Seismic Electric Signal, SES, has been checked through a new data from 9 June 2008 to 7 April 2010. Three earthquakes with $M_w \geq 5.5$ have been found in Greece during this period. A critical exponent (e.g. 0.328) has been obtained which compares very well with the reported ($\alpha=0.332$) by Dologlou (2009). The stability of this exponent imply that critical dynamic processes, of mechanical (earthquakes) or electromagnetic (SES) sense dominate the pre focal area when a signal of the impending earthquake is emitted.

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