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Statistical features of seismoelectric signals prior to an M = 7.4 earthquake in México

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In this work we report a statistical study of seismoelectric ULF signals prior to an M = 7.4 earthquake occurred at the Mexican Pacific coast in Sept. 14, 1995. The signals were simultaneously recordered six months before and two months after the mainshock date. We use methods stemming from non linear dynamics, namely Higuchi fractal dimension, detrended fluctuation analysis and scatter plots of NS and EW signals exhibiting cross-correlation levels. The analysis is performed over both original and preprocessed signals. Our results suggest the existence of some patterns possibly associated to the impeding mainschock.