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Electric phenomena in the ionosphere over seismically active regions

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0.0.1 The paper presents the results of detecting quasi-static electric fields on board the INTERCOSMOS-BULGARIA-1300 satellite over seismically active regions as the Pacific Ring, Indonesian Archipelago and South Indian Ocean. Database and observation methodology are described. An exciting process of the quasi-static electric field for satellite's orbits over seismic sources M$\geq$5 (seismic data of World Data Center, Colorado) is observed. An increase of the electric field in the ionosphere as result of possible generation of an extraneous electric current, above the sources of forthcoming or just happened earthquakes, is found. A possible mechanism of such fields' forming has been proposed by Sorokin and Yashchenko (2000). To confirm this mechanism an accumulation of large amount of satellite experimental data is necessary. The increase of the electric field can be probably treated as pre- and post- seismic effects in the low- and mid- latitude ionosphere.