A Preliminary Study on Conductive and Convective Soil Heat Flux

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The heat flux, including the conductive and the convective heat flux, has been calculated by using soil temperature data of meteorological stations. The order of magnitudes of convective heat flux is $10^1$-$10^2$ mW/m$^2$, it is the same as conductive heat flux. From the series of heat flux of single station, it can be seen that geothermal energy has been accumulating continuously before the eruption of earthquakes.

Key words: Conductive heat flux; Convective heat flux; Computational method; Earthquake.