

Localized variations in the geomagnetic field and their relation with tectonic activities

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Localized variations in the geomagnetic field is believed to be related with tectonic activities.

I extract the local variations by means of the principal component analysis.

No obvious relation have been found between the extracted local variations in the geomagnetic field and tectonic activities.

Keywords: geomagnetic field, secular variation, localized anomalies, tectonic activities, principal component analysis