

Variation of equivalent current system representing geomagnetic Sq variation in the period of 1980-2010

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Spherical harmonics analysis was performed for the geomagnetic Sq field from 1980 to 2010 for every universal hour on each day. Solar activity dependence of the total Sq currents was confirmed, and variation in each solar cycle was also reflected in the total current intensity.

More detailed features of the long trend of the Sq field will be discussed in the presentation.

Keywords: geomagnetic daily variation,, equivalent current system, secular variation, solar activity

