

On time variation of CA transfer function

Satoru Tsunomura[1]

[1] KMO, JMA

Time variation of CA transfer functions has been discussed by some authors, being expected as a monitoring possible method to infer the electrical change associated with seismological and/or crustal activities. The traditional method to derive CA transfer functions has a deficiency that the coefficients cannot be obtained accurately if geomagnetic disturbances do not occur timely. As a matter of fact, in the period of geomagnetically quiet period, such as the solar minimum, CA transfer functions cannot be derived precisely without accumulating the analysing period. In this paper, the implication of the time variation of the CA transfer functions will be discussed and a new monitoring method using the vertical component of geomagnetic field will be investigated.