

The geomagnetic effect of the solar eclipse of August 11, 1999

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A b s t r a c t: This paper presents the first results of the analysis of the geomagnetic effect caused by the total solar eclipse of August 11, 1999. Data from 30 European and several other INTERMAGNET observatories and variation stations were used to isolate the transient geomagnetic effect produced by the temporary cut-off of the ionizing solar radiation. The method of dynamic mapping of the filtered variation signals proved to be powerful in separating the eclipse effect from other phenomena of geomagnetic activity.

Key words: geomagnetic eclipse effect, dynamic mapping

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