

Ring current space time inhomogeneities observed during intense geomagnetic storms

V. M. Silbergleit (1), A. L. Clúa de González (2)

(1) Facultad de Ingeniería de la Universidad de Bs. As. and CONICET, Argentina, (vsilber@fi.uba.ar / Fax: 541149632062), (2) INPE, Brasil, (alicia@dge.inpe.br / Fax: 551239456810)

The behavior of the horizontal component of the magnetic field obtained by ground magnetometers for three intense magnetic storms that happened on April 6-7, 2000, October 21-23, 1999 and August 26-28, 1998 was studied by means of UT-LT diagrams. One minute resolution data were taken from six magnetic observatories, with approximately uniform longitudinal distribution. The result were correlated with some interplanetary parameters such as velocity of solar wind, south component of interplanetary magnetic field.