

Abstract

Aly A Abdel-Halim

North-South asymmetry of the solar parameters during the different solar cycles

Abstract Data of the solar and interplanetary parameters (IMF magnitude B , Solar wind speed V , Proton density n , and the Proton temperature T) during the period from 1975 to 2013, have been used to examine the asymmetry between the solar field north and south of the heliospheric current sheet (HCS). In this work, the asymmetry of the IMF magnitude is obvious, and has no magnetic solar cycle dependence over the considered epochs. The solar wind speed V is faster by about 26.9 km/s for toward polarity days than for away ones.