Geophysical Research Abstracts, Vol. 10, EGU2008-A-11862, 2008 SRef-ID: 1607-7962/gra/EGU2008-A-11862 EGU General Assembly 2008 © Author(s) 2008



## Interplanetary magnetic field and <sup>10</sup>Be

## I. Sabbah (1) and D. Khalil (2)

Department of Physics, Faculty of Science, Kuwait University

Cross-correlation analysis has been performed between Beryllium10 ( $^{10}$ Be) and the geomagnetic activity index aa during the common period 1868-1985. The two parameters are well cross anticorrelated, with cross correlation coefficient (CCC) = 0.8. The index aa leads  $^{10}$ Be by 1 year. The aa index is also well correlated to the product of the interplanetary magnetic field strength and the square of the solar wind speed (BV $^2$ ) during the interval 1963-1995. Hence we can predict the condition of interplanetary space before space age from  $^{10}$ Be data.  $^{10}$ Be is better correlated with aa index during the negative solar polarity (qA<0) than during positive solar polarity (qA>0) epochs.