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Relationship between substorm magnitude and Pi2 features

Rui Yamaguchi[1], Hideaki Kawano[2], Shin-ichi Ohtani[3], kiyohumi yumoto[1], Circum-pan Pacific Magnetometer Network Group Yumoto Kiyohumi

[1] Earth and Planetary Sci., Kyushu Univ, [2] Earth and Planetary Sci., Kyushu Univ., [3] JHU/APL

At the substorm expansion onset, many kinds of phenomena take place almost simultaneously in various areas. In order to obtain a comprehensive view of the substorm mechanism, it is important to study the relationship between those phenomena by using data from multipoint observations.

The purpose of this paper is to investigate the relationship between positive bays and Pi2's. We have statistically investigated the correlation between the amplitudes of positive bays and Pi2 amplitudes. As a result, we have found that they show a quite low correlation. This indicates a possibility of the existence of different energy sources for the two phenomena.

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