

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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PEM027-P14

Room:Convention Hall

Time:May 25 10:30-13:00

Three dimensional distribution of magnetic reconnection region in the near-Earth magnetotail

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The positions of magnetic reconnection regions and relationship between geomagnetic substorm and magnetic reconnection have been studied using observations by a lot of satellites and computer simulations.

In these studies, single magnetic reconnection region usually has been assumed. In this study, three dimensional magnetic reconnection regions are studied using several observations of Bursty Bulk Flow events in the magnetotail. In particular, conjunction events by THEMIS and GEOTAIL satellites located at distant points in the dawn-dusk direction are examined in order to study about three dimensional magnetic reconnection regions.

Keywords: Magnetic reconnection, Diffusion region, Multi-satellite observation