

Geosynchronous Magnetopause Crossings observed in 1999

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We examined the magnetic field data at geosynchronous orbit observed by GOES 8, 9, and 10 from 1995 to 1999, and 3 events of Geosynchronous Magnetopause Crossings (GMCs) were found in March 10, 1998, July 30, 1999, and September 22, 1999. To analyze these events, we used data from WIND, ACE, IMP-8, Geotail satellites in addition to GOES data. Here we analyze the GMC events occurred in 1999, and discuss 1) the conditions of magnetic field and dynamic pressure of solar wind, 2) magnetic field responses observed at magnetosheath, geosynchronous orbit, and on the ground.