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Variations of Particle Fluxes From Geosynchronous and THEMIS Observations During the Storm Main Phase

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Energetic particle fluxes from geosynchronous and THEMIS observations are examined to investigate their associated transport process during the storm main phase. Particle data provided by THEMIS mission including energy fluxes and angular distributions will be analyzed for both ions and electrons at lower energy (< 30 keV) and higher energy (> 30 keV) from the instruments ESA and SST, respectively. The geosynchronous energetic particle fluxes observations provided by LANL satellites will also be explored as complementary data. As to the magnetic field configuration, local fields detected from THEMIS as well as geosychronous fields observed from GOES will be adopted. To consider the effect from solar wind parameters, the uptream solar wind data from ACE is also applied to identify the magnetospheric environment.