

E021-021

Room: C304

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Concurrent development of plasma convection in the ionosphere and inner magnetosphere

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The role of the ionosphere in the magnetosphere-ionosphere coupling system was examined. By using the data from INTERMAGNET global magnetometer chain and SuperDARN radars and magnetometers of the geosynchronous satellites we shows the plasma convection start to develop instantaneously in the ionosphere and the inner magnetosphere. We discuss the physical mechanism of The energy transportation by comparing our observational result and the 3D global MHD simulation results.