

## Development of Web Based Visualization System for a Simulated Earth's Magnetosphere

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In order to understand the magnetosphere-ionosphere (M-I) coupling process, we executed magnetosphere-ionosphere coupling global MHD simulation called REPPU (REProduce Plasma Universe) code. During the investigation of the simulated magnetosphere-ionosphere system, it is necessary to identify the status of the magnetosphere-ionosphere system. For example, if a substorm occurred, we have to analyze on three phases of substorm, the growth phase, the expansion phase, and the recovery phase, respectively.

To visually recognize the status of the magnetosphere-ionosphere system, we designed a web-based visualization system. Our visualization system is finished by using Web 3D technique—WebGL in process of building and analysis, which can display topology clearly.