

E137-023

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Global simulation of solar surface-solar wind coupling system

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We develop a three-dimensional MHD model of the solar surface-solar wind coupling system, using measurements of the photospheric magnetic field as boundary conditions for the calculation. We apply a grid system which covers a sphere by triangles with no apparent singular point. The MHD scheme used on this grid system is the finite volume TVD scheme. Results are shown for the formation of coronal hole from open field lines and the deformation of heliospheric structure by the CME.