

Magnetotail dynamics for the dipole tilt

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Magnetospheric dynamics is influenced by magnetic reconnection at the dayside magnetopause between the interplanetary magnetic field (IMF) and geomagnetic field.

The structure and dynamics of the magnetosphere with dipole tilt have been studied for several different IMF B_z components by using a 3-dimensional MHD simulation of interaction between the solar wind and the earth's magnetosphere.

We have studied where magnetic reconnection occurs in the magnetotail for dipole tilt and how the magnetospheric configuration evolves.