

Ionospheric and Magnetospheric Responses to Space Weather

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Thailand's awareness about space weather has grown significantly in the past decade. It is now commonly accepted that space weather, the dynamics of particles, and radiation outside the Earth can significantly affect human activities on Earth. We have looked at the ionospheric response using GNSS observations during geomagnetically quiet and disturbed times and disturbances produced by the Hunga Tonga volcano. Moreover, the investigation of magnetospheric responses led to several studies, including the difference in waves' characteristics in the plasma sheet during substorms and pseudosubstorms (pseudobreakups) and space-based observation of the auroral variability during substorm onset.

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