

## Space disasters and space weather studies

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When the solar flare occurs, the high energy particles hit the satellite and cause serious troubles in the communication and broadcasting systems. The geomagnetic storm causes induced currents giving damages to the power transmission system. To avoid the damages due to the solar flare and geomagnetic storms, we are doing research to achieve the prediction model of the solar flare and magnetospheric and ionospheric storms. This talk will present examples of the satellite failures and power outage and also the simulation studies which will enable us to predict the space weather.

Keywords: Space weather, magnetic storm, geomagnetically induced current, radiation particles, satellite anomaly, power outage