

Title – Geomagnetic Storm

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Abstract – Geomagnetic storms, also known as magnetic storms are temporary disturbances in earth's magnetosphere caused by the solar wind. It is a crucial phenomenon during severe space weather conditions, which directly and indirectly affect communication, power grid and satellite electronic systems. The magnetic field carried by the solar wind interacts with earth's magnetic field and transfers an increased energy into the magnetosphere. This interaction results in amplified plasma flow through the magnetosphere and an increase in the electric currents in both magnetosphere and ionosphere which, in turn, can damage the transformers connected to the power grids. Thus studies of geomagnetic storms are significant from a scientific point of view. Here, in this talk, we will discuss the basics of geomagnetic storms, the magnetospheric current system, geomagnetic indices, etc.