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Evolution of Current Systems During Magnetic Storms

The study the evolution of current systems in the Earth's magnetotail during geomagnetic storms making use of space-based (ACE, Polar, GOES, etc.) data as well as ground-based magnetometer data and the Lyon-Fedder-Mobarry magnetohydrodynamic simulation code in order to analyze the structure and evolution of these currents during intense geomagnetic storms.