

Project Details

ROSES ID: NNH17ZDA001N

Selection Year: 2017

Program Element: Focused Science Topic

Topic: Understanding Physical Processes in the Magnetosphere--Ionosphere / Thermosphere / Mesosphere System During Extreme Events

Project Title:

Data mining for extreme space weather

PI Name: Mikhail Sitnov

PI Email: Mikhail.Sitnov@jhuapl.edu

Affiliation: The Johns Hopkins University Applied Physics Laboratory

Project Member(s):

- Stephens, Grant Killian;Co-I;Johns Hopkins University
- Brandt, Pontus C.;Co-I;Johns Hopkins University
- Merkin, Viacheslav G.;Co-I;Johns Hopkins University

Summary:

Science goals and objectives: The overarching goal is to reveal distinctive features of the Earth's magnetosphere during extreme events (EEs) through empirical reconstruction of the geomagnetic field, electric currents and plasma pressure for superstorms (Dst index