

Ben

Estacio

Johns Hopkins University Applied Physics Laboratory

John Hicks, Johns Hopkins University Applied Physics Laboratory

Pat Dandenault, Johns Hopkins University Applied Physics Laboratory

Joe Comberiate, Johns Hopkins University Applied Physics Laboratory

Matt Zuber, Johns Hopkins University Applied Physics Laboratory

Poster

At the Johns Hopkins University Applied Physics Laboratory (JHU/APL) we are well known for our space and space weather science missions such as the Van Allen Probes and Parker Solar probe. Missions such as these have advanced understanding of space weather in our solar system. In addition to the science work, we at JHU/APL have interests in the application of space weather to spacecraft hardware, spacecraft operations, and working with/around space weather to enable novel missions. These applications encompass both Civil and National Security Space interests. They range from operations that take place in very Low Earth Orbit (vLEO) to missions to the edge of the sun's influence. Our software has enabled tool transition from research to operations for multiple end users, with more capabilities on the way. We research the effects of space weather on hardware, no matter the distance from the Sun, engineering better systems and enabling more robust spacecraft with more capabilities. Through laboratory experiments, modeling, and analysis we are working to enable future technologies such as on orbit manufacturing, sustained vLEO, and novel power systems in orbit or on the lunar surface taking into account or exploiting space weather. We will present the breadth of applications that JHU/APL is considering, the resources JHU/APL has, and how the work being done on space weather applications may be of interest to the broad space weather community.

Poster session day

Wednesday, April 17, 2024

Poster location

18

Meeting homepage

[Space Weather Workshop 2024](#)

[Download to PDF](#)