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Poster
The Johns Hopkins University Applied Physics Laboratory (APL) boasts a broad array of capabilities relevant to space weather (SWx). This starts with a broad array of world-class researchers with significant experience studying every aspect of relevant space weather phenomena spanning the sun, solar wind, radiation belts, cislunar space, and the ionosphere-thermosphere-mesosphere region. Across these various research domains, APL has the science and engineering capability to design, test, build, and operate an equally broad range of in-situ and remote sensing instrumentation to obtain the scientific and operational measurements necessary to understand and monitor space weather phenomena. Finally, APL also features a deep bench of scientists, researchers, and engineers skilled at applying a diverse set of experience and analytical tools – including cutting-edge machine learning techniques - to address the unique computational and engineering problems presented by space weather. In the coming decade, APL plans to accelerate its leadership in the area of solar and space physics with a new focus on space weather. APL looks to unite a diverse set of government, commercial, and public stakeholders to enable a national and cross-agency space weather initiative that includes opportunities for research, technology, and a new line of missions to study the Sun–Earth system.

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