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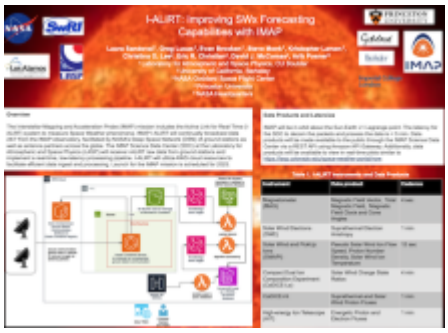
Poster
The Interstellar Mapping and Acceleration Probe (IMAP) mission includes the Active Link for Real-Time (I-ALiRT) system to forecast Space Weather phenomena. IMAP I-ALiRT will continually broadcast data 24/7 from the IMAP observatory, facilitated by NASA's Deep Space Network (DSN) of ground stations as well as antennae partners across the globe. The IMAP Science Data Center (SDC) at the Laboratory for Atmospheric and Space Physics (LASP) will play a critical role in this architecture, receiving I-ALiRT data from ground stations and implementing a real-time, low-latency processing pipeline. I-ALiRT will utilize AWS cloud resources to facilitate efficient data ingest and processing. Data products will be made available through the IMAP Science Data Center. We will present the Cloud Architecture plans, emphasizing how we intend to leverage cutting-edge technology to provide real-time space weather data products to the public and forecasting centers.


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