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Poster
The Promoting Research and Observations of Space Weather to Improve the Forecasting of Tomorrow (PROSWIFT) Act integrates national space weather activities. National Oceanic and Atmospheric Administration (NOAA) is implementing the PROSWIFT Act by fulfilling existing program responsibilities and data continuity requirements, as well as standing up new programs to advance critical operational space weather capabilities. The NOAA Office of Space Weather Observations (SWO) is developing the Space Weather Follow-On (SWFO) mission to Lagrange 1 (L1) point, planned for launch in 2025 as a rideshare. It will serve as NOAA's first space weather dedicated observatory, to succeed NOAA’s Deep Space Climate Observatory. In parallel, SWO is embarking on implementing the Space Weather Next (SW Next) program that will provide continuity of space weather observations from L1 and Geosynchronous orbits, as well as other relevant orbits. The SW Next program developed its reference space architecture and concept for the collection of data to meet its observational requirements. The program is currently formulating the SW Next L1 Series project that will provide continuity of observations beyond SWFO. The project will consist of two observatories that are near-derivative of SWFO-L1. The first SW Next L1 Series mission (L1-A) is planned to be launched in 2028, and the second SW Next L1 Series mission (L1-B) in 2031. In this presentation, we will describe observational requirements from the L1 vantage point to support different space weather products and services. We will present the notional SW Next architecture and discuss the status SW Next L1-A observatory development.

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