

## NOAA's Current and Future Space Weather Architecture

\*Elsayed R Talaat<sup>1</sup>

### 1. NOAA National Environmental Satellite, Data, and Information Service

NOAA observational responsibilities in support of space weather forecasting are in the context of significant, numerous, complementary international and domestic efforts. Each measurement plays a unique role at different phases of the forecasting or event characterization process. This paper overviews the current suite of observation that NOAA maintains and utilizes on various platforms, NOAA's forecasting capability, contributions to research efforts, and the status of the NOAA/NESDIS plan forward efforts for the Space Weather Follow-On (SWFO) program to provide needed continuity. This paper will also brief the NOAA space weather goals within the NOAA Satellite Observing System Architecture.

Keywords: space weather, coronagraph, energetic particles