NASA and NOAA Roles in Space Weather

- Fundamentally, NOAA is operations-driven and NASA is science-driven, and NASA strives to push the boundaries of what's currently possible through cutting-edge activities.
- NOAA is the source of the official forecast, watches, warnings, and alerts for space weather for the Nation
- NASA's role regarding...
 - <u>Science</u>: NASA advances our scientific understanding and space-based observations of the Sun and space environment to ultimately enable space weather forecasting. We are currently working to build better interfacing & coordination between LWS and SWxP.
 - <u>Operations</u>: NASA is committed to transitioning the best applicable science into operations at SWPC, SRAG, and DAF through the R2O2R program element. We are currently working to improve NASA's role in the R2O2R process.
 - <u>Applications</u>: NASA work in space weather is also informed by the needs of the **broader user community** and our mission to push the boundaries by **exploring novel and cutting-edge uses of space weather information**. We are currently brainstorming how best to implement this function at NASA, and we will coordinate with NOAA on this effort.
 - <u>Exploration</u>: NASA is responsible for the success of its robotic and human exploration missions (e.g., Artemis I), and that drives unique space weather requirements in some situations. The SWPC, CCMC, and M2M Space Weather Analysis
 Office collaboration is very strong and mutually beneficial. We continue efforts to enable lunar and eventual Mars human exploration missions.
- FYI: One NOAA Space Weather Strategy and interfaces with NASA Space Weather Program will be discussed at the Space Weather Council on 23 February by Dr. Elsayed Talaat
- For Discussion: What is HPAC hearing from the community regarding NASA and NOAA roles in space weather?