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...
  
  o **Science**: 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.*
  
  o **Operations**: 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.*
  
  o **Applications**: 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.*
  
  o **Exploration**: 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?**