

Space Weather Prediction Testbed Exercise in Support of Human Space Exploration and the Artemis-II Mission

Agenda

Day 1 (Tuesday, April 29th and May 6th)

Arrive

08:00 - 08:30 Arrive NOAA David Skaggs Research Center

Introductions

08:30 - 08:35 Logistics (Bryan Brasher)

08:35 - 08:45 Welcome and Introductions (Clinton Wallace)

08:45 - 08:50 Round the Room Introductions (Hazel Bain)

08:50 - 09:00 Exercise Objectives/Overview (Hazel Bain)

Agency Provider: Roles and Responsibilities

09:00 - 09:15 NOAA SWPC Forecast Office (Mike Bettwy)

09:15 - 09:30 NASA SRAG (Edward Semones)

09:30 - 09:45 NASA M2M SWx Analysis Office (Teresa Nieves-Chinchilla/Michelangelo Romano) and CCMC (Leila Mays/Claudio Corti)

09:45 - 10:00 DoD (Major Ross Malugani)

10:00 - 10:15 **Break (15 mins)**

Product Overviews

10:15 - 10:25 UMASEP Overview (Marlon Nunez)

10:25 - 10:35 UMASEP Proving Ground Evaluation (Kim Moreland)

10:35 - 10:45 GOES SUVI Flare Locations (Jonathan Darnel)

10:45 - 11:00 GOES SGPS Alpha Particle & EHIS Heavy Ion Measurements (Juan Rodriguez)

11:00 - 11:10 GOES Compact Coronagraph (Nathan Miles)

11:10 - 11:30 Split into working groups

11:30 - 12:10 **Lunch (45 mins)**

Event #1

12:15 - 12:20 Space Weather Summary (Shawn Dahl)

12:20 - 14:40 Event #1 - Onset (2 hrs, 20 mins)

Discussion Topics

- How are the forecasts made?
- What observations are being utilized
- What models/tools are being utilized

14:40 - 14:55 Big Group Discussion - Event #1 - Onset (15 mins)

14:55 - 15:10 **Break (15 mins)**

15:10 - 15:15 Space Weather Summary (Shawn Dahl)

15:15 - 17:25 Event #1 - Peak (2 hrs, 10 mins)

Discussion Topics

- Reflection on actions taken so far
- Review GOES alpha particle and heavy ion measurements

17:10 - 17:25 Big Group Discussion - Event #1 Peak (15 mins)

Wrap Up

17:25 - 17:30 Wrap Up

Day 2 (Wednesday, April 30th and May 7th)

Event #2

08:00 - 08:30 Arrive NOAA David Skaggs Research Center

08:30 - 08:45 Day 2 Welcome (Hazel Bain)

08:45 - 08:50 Space Weather Summary (Shawn Dahl)

08:50 - 11:00 Event #2 - Onset (3 hrs, 40 mins)

Discussion Topics

- Are SWPC products meeting user needs?

11:00 - 11:15 **Break (15 mins)**

11:15 - 12:30 Event #2 - Onset Continued

Discussion Topics

- GOES SUVI flare locations
- New modeling capabilities

12:30 - 13:30 **Lunch/Group Picture (60 mins)**

13:30 - 13:35 Space Weather Summary (Shawn Dahl)

13:35 - 15:10 Event #2 - Peak Part I (1 hr, 35 mins)

Discussion Topics

- Artemis II roles and responsibilities

15:10 - 15:30 **Break (20 mins)**

15:30 - 17:25 Event #2 - Peak Part II (1 hr 55 mins)
Open Discussion

Wrap Up

17:25 - 17:30 Wrap Up

18:00 - 20:00 Social at Rayback

Day 3 (Thursday, May 1st and May 8th)

08:00 - 08:30 Arrive NOAA David Skaggs Research Center

08:30 - 09:30 Debrief exercise events

09:30 - 09:45 **Break**

09:45 - 10:15 Extreme Event Discussion (Steve Johnson/Edward Semones)

10:15 - 10:45 Communications Plan (Shawn Dahl/Bryan Brasher)

10:45 - 11:15 Improvements to Products Needed Ahead of Mission (Hazel Bain/Kim Klockow McClain)

11:15 - 11:30 Improvements for Future Exercises (Mike Bettwy)

11:30 - 12:00 Wrap Up