

SW REDI FOR ENGINEERS

Training Agenda at a Glance

28 January 2014 (Day 1)

9:00 – 3:00 Fundamentals of Space Weather

3:00 – 5:00 Space Weather Impacts On Satellites: Satellite Drag and Mitigation Strategies

29 January 2014 (Day 2)

9:00 – 9:20 Recap of Day 1

9:20 – 12:00 Space Weather Impacts On Satellites: SEE, Cumulative Radiation Effects, Charging, Surface Degradation/Erosion and others

1:00 – 4:00 SWRC Service Products, Tools, Resources Explained

4:00 – 4:30 Discussion/Feedback

END



Space Weather Training For Mission Operators and Engineers Jan 28 – 29, 2014



Bldg 21, Rm 183, NASA/GSFC

Agenda

Jan 28 (9 am – 5pm)

- ❖ 9:00 – 9:15: Welcome and Overview of CCMC/SWRC Space Weather Services and Capabilities (Pulkkinen)
- ❖ 9:15 – 9:45: Introduction of Space Weather (Zheng)
- ❖ 9:45 – 10:00: Quick Start of iSWA (Maddox)
- ❖ 10:00-10:20: Break (Q/A)
- ❖ 10:20 – 10:50 The Sun and its solar activity (Taktakishvili)
- ❖ 10:50 – 11:20 Major Solar Eruptions (Flares and CMEs) and Radiation Storms due to Solar Energetic Particles (SEPs) (Taktakishvili)
- ❖ 11:20 – 11:30 Q&A
- ❖ 11:30 - 12:00: Forecasting models of Flares, CMEs and SEPs – where we are (Pulkkinen)
- ❖ 12:00 – 1:00 pm Lunch break
- ❖ 1:00 - 1:30: Coronal hole and high speed streams (Zheng)
- ❖ 1:30 – 2:00: Space Weather in the magnetosphere (Zheng)
- ❖ 2:00– 2:30 Space weather in the ionosphere-thermosphere (Zheng)
- ❖ 2:30 -2:40: Q/A
- ❖ 2:40 – 3:00: Break (Q/A)

- ❖ 3:00 – 3:10: Overview and introduction of Space Weather impacts on satellite (Zheng)
- ❖ 3:10 – 4:10 Space Weather effects on satellite: satellite drag, tools and resources (Delores Knipp)
- ❖ 4:10 – 4:40 : Q/A and Discussion

Jan 29 (9am – 5pm)

- ❖ 9:00 – 9:20 Recap
- ❖ 9:20 – 10:00 Radiation impacts on satellites due to GCRs and SEPs (Xapsos)
- ❖ 10:00 – 10:10 Q/A
- ❖ 10:20 – 10:40 break
- ❖ 10:40 – 11:40 Space Weather Impacts on Spacecraft and Mitigation Strategies (Garrett)
- ❖ 11:40 – 12:00 Q/A
- ❖ 12:00 – 1:00 Lunch break
- ❖ 1:00 – 4:00 SWRC service products explained
 - ❖ Alerts (Pulkkinen)
 - ❖ Tools (DONKI, Scoreboard and iswa layouts) (Mays and Zheng)
 - ❖ Others
- ❖ 4:00 – 4:30 discussion/feedback
- ❖ End