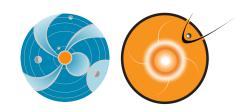




Space Weather Research Center Status and Future Plans

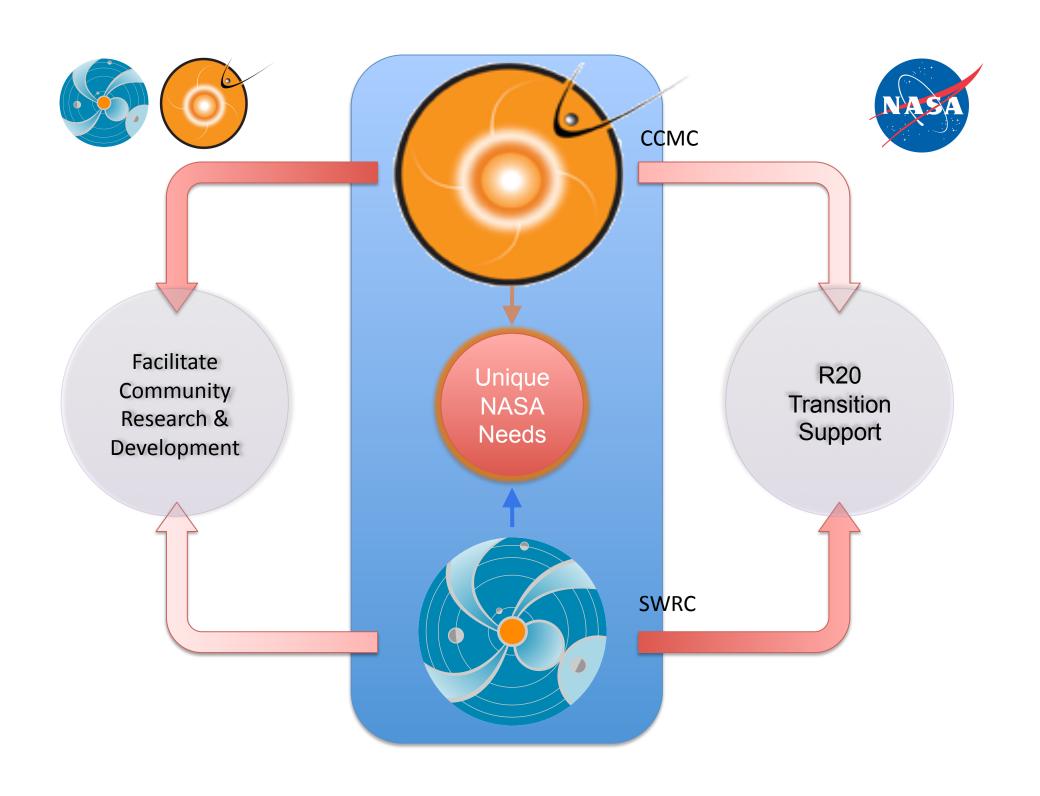
Antti Pulkkinen NASA GSFC

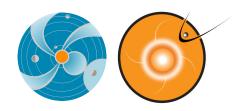






- SWRC Concept of Operations
- SWRC activities and services status
- New products
- Planned future directions





SWRC Concept of Operations

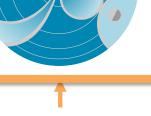
Notifications
Weekly Reports
Anomaly Analysis Support
Workshops & Training









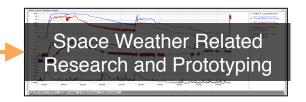


Partnering

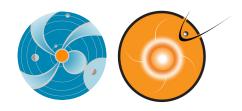














Key services status

- Daily Service To All NASA Missions/Centers
 - Real-time space weather analysis
 - Notifications
 - Weekly reports
- Since March 2010
 - 600+ forecaster generated notifications
 - 200+ weekly reports issued
- 3000+ individual entries into the DONKI space weather database since March 2010.

NASA Goddard Space Flight Center, Space Weather Research Center (SWRC)

- Message Type: Space Weather Alert SEP
- Message Issue Date: 2013-08-21T13:07:00Z
- Message ID: 20130821-AL-001

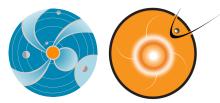
Summary:

- Solar energetic particle event detected by STEREO B.
- The flux of 13-100 MeV protons exceeds 10^(-1) pfu/MeV starting at 2013-08-21T06:57Z.

STEREO B can be impacted.

At STEREO A an SEP event continues with the 13-100 MeV protons flux exceeding 10^(-1) pfu/MeV (Activity ID: 2013-08-20T05:54:24-SEP-001).

Activity ID: 2013-08-21T06:57:10-SEP-001.

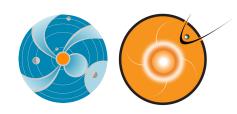






Key services status

- Reports for Spacecraft Anomaly Resolution Generated
 - Supported: Dawn, GALEX, MRO, SWIFT, IBEX, Kepler, SOHO, Fermi and A-Train missions.
 - We help with quick and cost-effective assessment of space weather's role in the anomalies.
- Conducted annual NASA Robotic Mission Ops & Space Weather Workshops since 2009
 - Goal to help agency-wide education about space weather and its impacts.
 - Goal to help exchange of information between operators and tailoring of space weather services to meet the NASA robotic fleet needs.
 - Expanded format this year.







Space Weather Research, Education and Development Initiative (REDI) summer bootcamps 2013-2014 and Jan 2014 space weather training for engineers.



bootcamp 2014

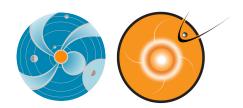






Key services status

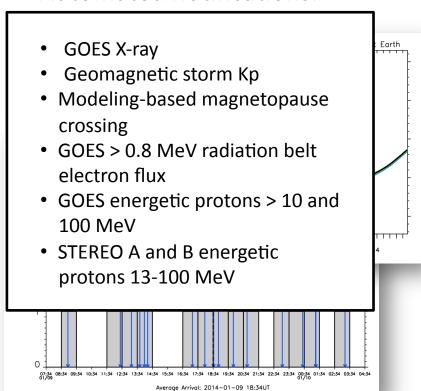
- Thanks to everybody for your endorsements and testimonials, which were very important over the past year!
- Our goals for the past year were:
 - Sustainability. COMPLETED/IN PROGRESS
 - Automated alerts, Phase I and II. COMPLETED/IN PROGRESS
 - Orbit-specific SWx products. IN PROGRESS (M. Maddox on Thu)
 - Move toward better specification of hardware impacts. IN PROGRESS
 - Expand Space Weather REDI training. COMPLETED/IN PROGRESS
- We will have a demo session on Thu morning, please join us!

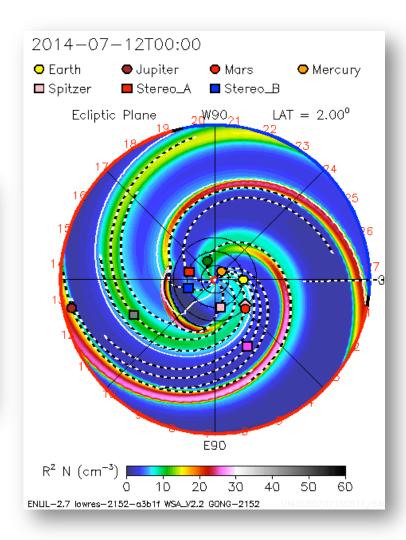


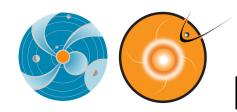




- Ensemble CME product.
- <u>5.5 AU CME products.</u>
- Automated notifications.







Planned future directions



- Let us know what your needs are.
- At the moment, some of the high priority new space weather products are:
 - Tailoring capacity for notifications.
 - New flare prediction products.
 - Space weather effects database. More in the Thu morning session.
- We have daily space weather tag ups in Bldg 21, Room 261. All are welcomed to attend! We also have Google Hangout sessions Mon and Fri.
 - Mon 11:15am, Tue 11:30am, Wed 11:15am, Thu 9:00am, Fri 11:15am.





Thank you!