# SSEC Data Ingestor (SDI) Make your own data

Scott Mindock, Johnathan Beavers, Rick Kohrs, Denny Hackel

University Of Wisconsin Madison

# What do I need to Ingest the GRB data stream with SDI?

- Antenna
- Demodulator
- SDI GRB Appliance (CSPP GEO )

https://www.ssec.wisc.edu/mcidas/software/sdi/

# What is a SDI?

- SSEC GRB Data Ingestor - SDI
- It's Hardware – A preconfigured server
- It's Software – CSPP GEO and ADDE
- It's Service – We are here for you!
- SSEC has long history of Geostationary data ingest and service.
- 1980's Mainframe frame syncs and software.
- 1990's SDI-104 for GVAR
- SDI GRB Appliance Continues a SSEC Tradition

https://www.ssec.wisc.edu/mcidas/software/sdi/

# What do I get? (1 of 2)

- CSPP (Community Satellite Processing Package)
- CSPP Geo GRB software converts GOES-R GRB data stream into mission compliant netCDF files
- 16-channel Advanced Baseline Imager (ABI) Level 1b
- Geostationary Lightning Mapper (GLM)
- Level 2+Space Environment In-Situ Suite (SEISS)
- Level 1bMagnetometer (MAG) Level 1bSolar Ultraviolet Imager (SUVI)
- Level 1bExtreme Ultraviolet and X-ray Irradiance Suite (EXIS) Level 1b

https://www.ssec.wisc.edu/mcidas/software/sdi/

# What do I get? (2 of 2)

- GRB netCDF products available via SFTP or NFS
- Application software logs available via SFTP
- McIDAS ADDE access (optional)
- On site installation (optional)
- AMQP Event Notifications via RabbitMQ serviceData availability notifications, no need to poll
- 16-channel ABI Level 1b netCDF files available via ADDE
- GLM Level 2+ product available via ADDE
- System configured and operationally tested at SSEC/CIMSS
- Support for both local area and air-gapped networks
- System installation / restore accomplished with USB stick

# Summary

- SDI GRB Appliance mission compliant software
- SDI GRB Appliance provides suitable matched hardware.
- SDI GRB Appliance provides standard data access.
- SDI GRB Appliance provides ADDE access.

- The SDI GRB Appliance Team thanks you for your attention.