

Near-Real-Time Production of Simulated GOES-R Advanced Baseline Imager Data for User Readiness, algorithm validation and ground system testing

Brad Pierce (NESDIS/STAR/CRPD/ASPB)

This presentation will summarize GOES-R Algorithm Working Group (AWG) real-time proxy effort to provide real-time Full-Disk (East and West) and CONUS (East and West) 16 band Advanced Baseline Imager (ABI) imagery for GOES-R user readiness, algorithm validation, and ground system testing. The Full-Disk proxy data utilizes full-resolution (T574L64, an effective grid point spacing of ~27 km) GFS model meteorological and RAQMS 1x1 degree aerosol/ozone forecasts. The CONUS proxy data utilizes nested RAQMS/WRF-CHEM meteorological, aerosol and ozone forecasts. These forecasts provide input for CRTM 16-band ABI radiance calculations. Selected ABI baseline algorithm products are also produced in real-time at CIMSS using GEOCAT to support GOES-R Proving Ground activities.