

# 7<sup>th</sup> GOES Users' Conference (GUC)

19-21 October 2011  
Wynfrey Hotel, Birmingham, Alabama

## Wednesday, October 19, 2011

6:00-9:00  
PM

**Registration, GOES Poster Session and Reception (poster presentations listed below)**

## Thursday, October 20, 2011

**Session 1: Joint NWA/GUC Session: Current and Future GOES**  
**Session Chair: Ken Carey, Chair, Professional Development Committee,**  
**Noblis, Inc., Falls Church, VA**

8:00 AM	<b>Welcome and Opening Remarks</b> James Gurka, NOAA/NESDIS/GOES-R, Greenbelt, MD
8:05 AM	<b>Keynote Speaker: The GOES-R Program</b> Greg Mandt, Director, GOES-R Program Office, Greenbelt, MD
8:30 AM	<b>NOAA's GOES Satellites: Current Status, Operational Updates, Improvements and Short-Term Plans</b> Tom Renkevans, NOAA/NESDIS/Office of Satellite and Product Operations, Camp Springs, MD
9:00 AM	<b>The Tennessee Floods of May 2010: A Satellite Perspective</b> Sheldon Kusselson, NOAA/NESDIS/Center for Satellite Applications and Research, Camp Springs, MD
9:15 AM	<b>The ABI (Advanced Baseline Imager) on the GOES-R Series</b> Timothy Schmit, NOAA/NESDIS/Center for Satellite Applications and Research, Madison, WI
9:30 AM	<b>High Impact Weather Forecasts and Warnings with the GOES-R Geostationary Lightning Mapper (GLM)</b> Steven Goodman, NOAA/NESDIS/GOES-R, Greenbelt, MD

9:45 AM	<b>How AWIPS II will bring GOES-R Capabilities and Science to the Field</b> Jordan Gerth, SSEC/CIMSS, University of Wisconsin, Madison, WI
10:00 AM	<b>Coffee Break</b>
<b>Session 2: Joint NWA/GUC Session: GOES-R Proving Ground</b> <b>Session Chair: Frank Brody, Councilor, NOAA/NWS,</b> <b>NASA Spaceflight Meteorology Group, Houston, TX</b>	
10:30 AM	<b>GOES-R Proving Ground Partnership</b> James Gurka, NOAA/NESDIS/GOES-R, Greenbelt, MD
10:45 AM	<b>NWS Field Perspective of the GOES-R Proving Ground</b> Jeffrey Craven, NOAA/NWS, Milwaukee/Sullivan, WI
11:00 AM	<b>GOES-R Proving Ground Activities at the National Hurricane Center</b> John (Jack) Beven, NOAA/NWS/National Hurricane Center, Miami, FL
11:15 AM	<b>The GOES-R Proving Ground at NOAA's Storm Prediction Center and Hazardous Weather Testbed</b> Christopher Siewert, OU-CIMMS, Norman, OK
11:30 AM	<b>Advancements Toward Fused Satellite, Radar, NWP, and In Situ Aviation Weather Decision Support</b> Wayne Feltz, SSEC/CIMSS, University of Wisconsin, Madison, WI
11:45 AM	<b>Lunch</b>
12:15 PM	<b>Lunch Panel – “The Path Forward to Ensure User Readiness for GOES-R”</b> Moderator: Steven Goodman (NOAA/NESDIS/GOES-R) Panelists: Mike Johnson (NOAA/NWS), Vanessa Griffin (NOAA/NESDIS/GOES-R), Anthony Mostek (NOAA/NWS), Rusty Billingsley (NOAA/NWS), Dan Satterfield (WHNT NEWS 19)
<b>Session 3: Benefits of GOES-R Products for Forecasters/Broadcasters - Part I</b> <b>Session Chair: Dan Satterfield, WHNT NEWS 19, Huntsville, AL</b>	
1:30 PM	<b>Overview of GOES-R Proving Ground Activities at SPoRT</b> Gary Jedlovec, NASA/Earth Science Office, Huntsville, AL

1:45 PM	<b>Training in the NOAA Satellite Proving Ground – Focus on User Readiness and Decision Support Services</b> Anthony Mostek, NOAA/NWS/OCWWS/Training Division/COMET, Boulder, CO
2:00 PM	<b>GOES Data and Products in the Space Weather Forecast Office</b> Rodney Viereck, NOAA/NWS/Space Weather Prediction Center
2:15 PM	<b>GOES-R for Broadcast Meteorologists – Going from a Trickle to a Fire Hose</b> Dan Satterfield, WHNT NEWS 19, Huntsville, AL
2:30 PM	<b>Coffee and Poster Break (poster presentations listed below)</b>
<b>Session 4: Benefits of GOES-R Products for Forecasters/Broadcasters - Part II</b> <b>Session Chair: Jeffrey Craven, NOAA/NWS, Milwaukee/Sullivan, WI</b>	
3:30 PM	<b>Developing and Evaluating RGB Composite MODIS Imagery for Applications in NWS Forecast Offices</b> Andrew Molthan, NASA/SPoRT, Huntsville AL
3:45 PM	<b>Improving Short-Term Predictions and the Identification of Hazardous Weather</b> Deirdre Kann, NOAA/NWS, Albuquerque, NM
4:00 PM	<b>Meteosat Third Generation (MTG): An Innovative Approach to Advanced Observations from the Geostationary Orbit</b> Rolf Stuhlmann, EUMETSAT, Darmstadt, Germany
4:15 PM	<b>Optimizing the Lightning Forecast Algorithm within the Weather Research and Forecasting Model</b> Eugene McCaul, NASA/SPoRT Center/USRA, Huntsville, AL
4:30 PM	<b>An Overview of New and Unique GOES-R Products for Hazard Assessments</b> Michael Pavolonis, NOAA/NESDIS/Center for Satellite Applications and Research, Madison, WI
4:45 PM	<b>GOES-R Post Launch Activities</b> Vanessa Griffin, NOAA/NESDIS/GOES-R, Greenbelt, MD
5:00 PM	<b>User Input from Past GOES Users' Conferences</b> James Gurka, NOAA/NESDIS/GOES-R, Greenbelt, MD

5:15 PM	<b>Question and Answer Session</b>
6:00 PM	<b>Conference Dinner – "Reconnect With Your Passion Now!"</b> James Spann, Chief Meteorologist, ABC 33/40, Birmingham, Alabama

## Friday, October 21, 2011

7:30 AM	<b>Continental Breakfast</b>
<b>Session 5: User Discussion and Recommendations</b>	
<b>Session Chair: James Spann, ABC 33/40, Birmingham, AL</b>	
8:00 AM	<b>Introductions to Group Topics; Discussion on Purpose and Logistics</b> James Gurka, NOAA/NESDIS/GOES-R, Greenbelt, MD
8:10 AM	<b>Group Discussion I--Exploiting GOES Data/Products:</b> Share and discuss methods to better exploit current GOES data and products for your applications area (e.g., Are there operational products that you do not currently have access to in your system?). Are there "best practices/lessons learned" for transition to the GOES-R system?
9:05 AM	<b>Group Discussion II--Operational Enhancements by Leveraging the GOES-R Proving Ground:</b> How might satellite resources be more effective in helping provide operational products/services? Do you have any recommendations on better use of satellite resources (including the GOES-R Lightning Mapper) in the Proving Ground exercises? What actions do you recommend to ensure the Proving Ground is more effective in using future satellite data for decision support?
10:00 AM	<b>Break</b>
10:20 AM	<b>Group Discussion III--Maximizing Operational User Readiness/Decision Support:</b> What training and education is needed for users to maximize GOES-R data and products? What methods (e.g., delivery, user involvement) would be most beneficial to operational forecasters and broadcasters?
11:15 AM	<b>Group Topical Discussion Summaries</b>
11:45 AM	<b>Closing Remarks</b> James Gurka, NOAA/NESDIS/GOES-R, Greenbelt, MD

## GUC Poster Presentations

**Poster presenters available Wednesday, 6:00-9:00 p.m., and Thursday, 2:30-3:30 p.m.**

- P1**     **The GOES-R Product Generation Architecture**, Gerald Dittberner, Harris Corporation, Greenbelt, MD
- P2**     **The Ground Segment Architecture for GOES-R**, Dennis Hansen, Harris Corporation, Melbourne, FL
- P3**     **How GOES-R Will Limit Outages and Breaks in Continuity**, Les Spain, Harris Corporation, Melbourne, FL
- P4**     **The GRB Simulator: A System for Testing GOES Rebroadcast (GRB)**, Kevin Gibbons, Harris Corporation, Melbourne, FL
- P5**     **Lightning Injury Continues to be a Health Threat internationally**, Mary Ann Cooper, MD, Retired, University of Illinois at Chicago, Chicago IL
- P6**     **Objective Validation of Satellite-based Convective Initiation Algorithms Using Radar**, Valliappa Lakshmanan, University of Oklahoma, National Severe Storms Laboratory, Norman, OK
- P7**     **ABI Flight Performance Predictions Based on PTM Test Results**, Dr. Paul C. Griffith, ITT Geospatial Systems, Fort Wayne, IN
- P8**     **GOES Imager Stray Light Correction**, Hyre Bysal, NOAA/NESDIS/OSPO, Suitland, MD
- P9**     **GOES Playback and Display: Interacting with Movies**, James L. Carr, Carr Astronautics, Greenbelt, MD

- P10** **GOES-R GS Product Generation Infrastructure Operations**, Mike Blanton, Harris Corporation, Melbourne, FL
- P11** **GOES-R Command and Control**, Les Spain, Harris Corporation, Melbourne, FL
- P12** **Using the Water Body Database for GOES-R Landmarking**, James L. Carr, Carr Astronautics, Greenbelt, MD
- P13** **End-to-end Design and Development of GOES-R Level 2 Algorithms: Cloud Pathfinder Algorithm Case Study**, Andra Ivan, Atmospheric and Environmental Research, Inc., Lexington, MA
- P14** **Updated Analysis of Lossless Compression Techniques for the GOES-R Rebroadcast (GRB) Sub-System**, Peter Finocchio, Atmospheric and Environmental Research, Inc., Lexington, MA
- P15** **GOES-R Ground System and Algorithm Implementation Design**, Alexander Werbos, Atmospheric and Environmental Research, Inc., Lexington, MA
- P16** **Development of GOES-R Algorithms using a Common Framework and Data Model Design Approach**, Scott Zaccheo, Atmospheric and Environmental Research, Inc., Lexington, MA
- P17** **GOES-R Proving Ground Product Development at CIRA**, Dan Lindsey, NOAA/NESDIS/RAMMB, Fort Collins, CO, CIRA/CSU, Fort Collins, CO
- P18** **Demonstration of RGB Composite Imagery at NOAA National Centers in Preparation for GOES-R**, Kevin Kenneth Fuell, University of Alabama Huntsville / NASA SPoRT, Huntsville, AL
- P19** **GOES-R Products List and Planned Availability**, Donald Gray, NOAA/NESDIS, Goddard Space Flight Center, Greenbelt, MD

- P20**    **The Satellite Analysis Branch Hazard Mitigation Programs**, Jamie Kibler, NOAA/NESDIS/OSPO/SPSD/Satellite Analysis Branch, Camp Springs, MD
- P21**    **GOES-R AWG Product Processing System Framework: System Design**, Walter Wolf, NOAA/NESDIS/STAR, Camp Springs, MD
- P22**    **Operational Applications of New Satellite Data Sets in NWS Eastern Region**, Dave Radell, NOAA/NWS Eastern Region Headquarters, Bohemia, NY
- P23**    **Satellite Meteorology Education Resources from COMET**, Patrick Dills, UCAR-COMET, Boulder, CO
- P24**    **Transitioning Improvements in the GOES Sounder Profile Retrieval Algorithm into Operations**, Gary S. Wade, NOAA/NESDIS/STAR/CoRP/Advanced Satellite Products Branch (ASPB), Madison, WI
- P25**    **Evaluation of NASA SPoRT's Pseudo-Geostationary Lightning Mapper Products in the 2011 Spring Program**, Geoffrey T. Stano, NASA/SPoRT/ ENSCO Inc., Huntsville, AL
- P26**    **The GOES-R Antenna System: Your Link to Better Forecasts**, Kevin Fisher, GOES-R Ground Segment Project, NASA/GSFC, Greenbelt, MD
- P27**    **GOES-R Sectorized Cloud and Moisture Imagery Products**, William H. Campbell, NWS/OST, Silver Spring, MD
- P28**    **NOAA's 2011 Satellite Direct Readout Conference: Summary and Outcomes**, Marlin O. Perkins, NOAA/NESDIS/Office of Satellite and Product Operations, NSOF, Suitland, MD
- P29**    **Advances in Technology to Optimize use of DCS on GOES-R**, Kay Metcalf, NOAA/NESDIS/OSPO, NSOF, Suitland, MD

- P30** **HRIT/EMWIN: The Evolution of LRIT and EMWIN**, Paul Seymour, NOAA/NESDIS NSOF, Suitland, MD
- P31** **NOAA's Suite of Operational Geostationary Sea Surface Temperature Products, Current and Future**, Eileen Maturi, NOAA/NESDIS/STAR, Camp Springs, MD
- P32** **The SUVI Calibration Underflight Program: A Feasibility Study**, Linda Habash Krause, NASA Marshall Space Flight Center, Huntsville, AL
- P33** **The Reproducibility of Research Baseline Results in Implemented Algorithms**, Rajiv Khanna, GOES-R Ground Segment Project/Noblis, Falls Church, VA
- P34** **A Grobner Basis Solution for Lightning Ground Flash Fraction Retrieval**, Richard Solakiewicz, Chicago State University, Chicago, IL
- P35** **Nighttime Oil Spill Detection and Monitoring by Infrared Satellite Remote Sensing**, Sungwook Hong, KMA (Korea Meteorological Administration), Jincheon-gun, South Korea
- P36** **An Overview of the Total Lightning Jump Algorithm: Past, Present and Future Work**, Christopher J. Schultz, University of Alabama-Huntsville, Huntsville, AL
- P37** **Improving High Impact Weather Forecasts with Combined GOES-R Measurements and Advanced Infrared Soundings from JPSS**, Jun Li, Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin-Madison, Madison, WI
- P38** **Improved Forecasts of Convective Initiation associated with the North American Monsoon System**, Brian Guyer, National Weather Service Forecast Office, Albuquerque, NM

- P39** **GOES-R Product Definition and Users' Guide - Work in Progress**, Christa C. Hornbaker, GOES-R Ground Segment Project, Product Distribution IPT (Boeing), Fort Walton Beach, FL
- P40** **Validation of a Convective Storm Growth Detection Algorithm using a Satellite-based Object Tracking Methodology**, Lee M. Counce, SEC/CIMSS, University of Wisconsin, Madison, WI
- P41** **Enhanced Use of GOES for Estimating Land Surface Wetness with Application to Wildfire Forecasting at the NOAA Storm Prediction Center**, Robert Rabin, NOAA/National Severe Storms Laboratory, Norman, OK