

# National Oceanic & Atmospheric Administration

## 2008 Satellite Direct Readout Conference



*“Transitioning into the Future:  
Global Satellites for Global Needs”*

### Agenda

December 8-12, 2008  
Miami, Florida

<http://directreadout.noaa.gov/miami08>  
[www.noaa.gov](http://www.noaa.gov)



# NOAA 2008 Direct Readout Conference Miami, Florida

**Monday, December 8, 2008, (12:45 p.m. – 5:30 p.m.)**

**Session 1: Welcome and Keynote  
Co-Chairs: Kathy Kelly and Paul Seymour**

Presentation	Time	Session or Event
	8:00 a.m. – 12:45 p.m.	Registration
1.1	12:45 p.m. – 1:05 p.m.	<b>Welcome and Logistics</b> Paul Seymour, NOAA Satellite and Information Service
1.2	1:05 p.m. – 1:20 p.m.	<b>Conference Opening Remarks and Introductions</b> Kathy Kelly, Director of Office of Satellite Data Processing and Distribution, NOAA Satellite and Information Service
1.3	1:20 p.m. – 1:50 p.m.	<b>Keynote Address: NOAA Satellite Programs</b> Mary M. Glackin, Deputy Under Secretary for Oceans and Atmosphere, NOAA
1.4	1:50 p.m. – 2:10 p.m.	<b>National Environmental Satellite, Data, and Information Service Welcome</b> Mary E. Kicza, Assistant Administrator, NOAA Satellite and Information Services
1.5	2:10 p.m. – 2:30 p.m.	<b>National Weather Service Welcome</b> Dr. Louis W. Uccellini, Director, National Centers for Environmental Prediction (NCEP), NOAA National Weather Service
1.6	2:30 p.m. – 2:50 p.m.	<b>National Aeronautics and Space Administration Welcome</b> Dr. Shahid Habib, Chief, Office of Applied Sciences
	2:50 p.m. – 3:20 p.m.	<b>Break: Refreshments in Exhibits Area</b>
1.7	3:20 p.m. – 3:40 p.m.	<b>World Meteorological Organization (WMO) Space Program</b> Jerome Lafeuille, Chief of Space-based Observing Division, World Meteorological Organization (WMO) Observing and Information Systems Department
1.8	3:40 p.m. – 4:00 p.m.	<b>Global Earth Observation System of Systems (GEOSS) Overview</b> David Grimes, Assistant Deputy Minister, MSC/EC (Canada)
1.9	4:00 p.m. – 5:30 p.m.	<b>Panel: GEOSS in the Americas</b> <b>Moderator:</b> David Grimes, Assistant Deputy Minister, Meteorological Services of Canada, Environment Canada <b>Panel Members:</b> Mary Glackin, Deputy Under Secretary for Oceans and Atmosphere David Grimes, Assistant Deputy Minister, MSC/EC (Canada) Jerome Lafeuille, Chief, Space-based Observing Division, WMO Luiz Machado, INPE/CPTEC (Brazil) (Instituto Nacional de Pesquisas Espaciais, Centro de Previsão de Tempo e Estudos Climáticos, Divisão de Satélites e Sistemas Ambientais) Albert Jones, WMO RA IV (North America, Central America and the Caribbean)
	6:00 p.m. – 7:30 p.m.	Conference "Icebreaker" – Hilton Miami Airport Hotel – To Be Announced

# NOAA 2008 Direct Readout Conference Miami, Florida

**Tuesday, December 9, 2008, (8:30 a.m. – 12:00 p.m.)**

**Session 2: Current Satellite Systems/Instruments**

**Chair: Kathy Kelly**

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
2.0	8:30 a.m. – 8:35 a.m.	<b>Introduction</b> Kathy Kelly, Director of Office of Satellite Data Processing and Distribution, NOAA Satellite and Information Service
2.1	8:35 a.m. – 9:00 a.m.	<b>Keynote</b> Albert Jones, WMO RA IV (North America, Central America and the Caribbean)
2.2	9:00 a.m. – 9:20 a.m.	<b>NOAA Geostationary Operational Environmental Satellite (GOES) Overview</b> Chris Wheeler, NOAA Satellite and Information Service
2.3	9:20 a.m. – 9:40 a.m.	<b>European Organization for the Exploitation of Meteorological Satellites (EUMETSAT): Geostationary Satellite Systems</b> Michael Williams, Head of Control Centre Division, EUMETSAT
2.4	9:40 a.m. – 10:00 a.m.	<b>Status of the Japan Meteorological Agency Multi-functional Transport Satellite (MTSAT) Series</b> Mark Mulholland, Deputy Director, Office of Systems Development, NOAA Satellite and Information Service
	10:00 a.m. – 10:20 a.m.	<b>Break: Refreshments in Exhibits Area</b>
2.5	10:20 a.m. – 10:40 a.m.	<b>Polar-orbiting Operational Environmental Satellite (POES) Overview</b> Cindy Hampton, NOAA Satellite and Information Service
2.6	10:40 a.m. – 11:00 a.m.	<b>European Organization for the Exploitation of Meteorological Satellites (EUMETSAT): Polar-orbiting Satellite Systems</b> Michael Williams, Head of Control Centre Division, EUMETSAT
2.7	11:00 a.m. – 11:20 a.m.	<b>Status of the National Aeronautics and Space Administration (NASA) Earth Observing System (EOS)</b> Patrick Coronado, NASA Direct Readout Laboratory
2.8	11:20 a.m. – 11:40 a.m.	<b>Update form the Coordination Group for Meteorological Satellites (CGMS)</b> Michael Williams, Head of Control Centre Division, EUMETSAT
2.9	11:40 a.m. – 12:00 p.m.	<b>Satellite Operations Control Center (SOCC) and Wallops Island and Fairbanks Command and Data Acquisition (CDA) Overview</b> Chris Wheeler and Cindy Hampton, NOAA Satellite and Information Service
	12:00 p.m. – 1:30 p.m.	<b>Lunch</b>

# NOAA 2008 Direct Readout Conference Miami, Florida

**Tuesday, December 9, 2008, (1:30 p.m. – 8:00 p.m.)  
Session 3: Current Direct Readout Workshop  
Chair: Dave Benner**

Presentation	Time	Session or Event
3.1	1:30 p.m. – 2:00 p.m.	<b>Showcase Overview</b> Tim Schmit, NOAA Satellite and Information Service
3.2	2:00 p.m. – 4:00 p.m.	<b>Direct Services Showcase Panel</b> Moderator: Dane Clark, Short and Associates, Incorporated <b>Panel Members:</b>
3.2.1		LRIT – Paul Seymour, Jamie Kibler
3.2.2		EMWIN – Rob Wagner, Santos Rodriguez
3.2.3		GOES DCS – Kay Metcalf, Letecia Reeves
3.2.4		Argos – Bill Woodward, Jim Wydick
3.2.5		GVAR – Chris Wheeler, Brian Hughes, Tim Schmit
3.2.6		EGVAR/GRB (GOES-R) – Andrew Royle, Bill Mazur, Jim Gurka
3.2.7		HRPT/APT – Marlin Perkins, Cindy Hampton
3.2.8		HRD, IPOPP Featuring Simulcast – John Overton, Gary McWilliams
3.2.9		GEONETCast Americas – Chris O’Connors, Alfreda Alexander
3.2.10		RANET – Kelly Sponberg, Jennifer Lewis
3.2.11		NOAAPORT – Brian Gockel, Jim Heil
	4:00 p.m. – 4:20 p.m.	<b>Break: Refreshments in Exhibits Area</b>
3.3	4:20 p.m. – 5:30 p.m.	<b>Direct Services Showcase Panel: Feedback/Questions and Answers</b> Moderator: Dave Benner, NOAA Satellite and Information Service <b>Panel Members:</b>
		LRIT – Paul Seymour
		EMWIN – Santos Rodriguez
		GOES DCS – Kay Metcalf
		Argos – Bill Woodward
		GVAR – Chris Wheeler
		EGVAR/GRB (GOES R) – Bill Mazur
		HRPT/APT - Marlin Perkins
		HRD, Simulcast/IPOPP - John Overton
		GEONETCast Americas – Chris O’Connors
		RANET – Kelly Sponberg
		NOAAPORT – Brian Gockel
3.4	6:30 p.m. – 8:00 p.m.	<b>EMWIN/HRIT Prototype Software Defined Receiver: Demonstration Session</b> Paul Seymour, NOAA Satellite and Information Service Rob Wagner/Santos Rodriguez, EMWIN Team, NOAA National Weather Service, Office of the CIO Bill Mazur, GOES-R Program Office Jeremy L. Roberson, Aerospace Corporation

# NOAA 2008 Direct Readout Conference Miami, Florida

**Wednesday, December 10, 2008, (8:30 a.m. – 12:00 p.m.)**

**Session 4: Applications and Training  
Co-Chairs: Tim Schmit and Tony Mostek**

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
4.0	8:30 a.m. – 8:35 a.m.	<b>Introduction</b> Tim Schmit, NOAA Satellite and Information Service
4.1	8:35 a.m. – 9:00 a.m.	<b>Keynote</b> Arona Ngari (Cook Islands), President, WMO RA V (South-West Pacific)
4.2	9:00 a.m. – 9:15 a.m.	<b>COMET Program: Satellite Meteorology Training Resources for the Atmospheric Science Community</b> Tim Spangler, University Corporation for Atmospheric Research (UCAR) Cooperative Program for Operational Meteorology, Education, and Training (COMET®)
4.3	9:15 a.m. – 9:30 a.m.	<b>Cooperative Institute for Meteorological Satellite Studies (CIMSS) VISITview</b> Scott Bachmeier, CIMSS
4.4	9:30 a.m. – 9:45 a.m.	<b>Satellite Training Activities: Cooperative Institute for Research in the Atmosphere (CIRA)</b> Bernadette Connell, CIRA
4.5	9:45 a.m. – 10:00 a.m.	<b>Satellite HydroMeteorology (SHyMet) NOAA Distance Training Course</b> Tony Mostek, NOAA National Weather Service
4.6	10:00 a.m. – 10:15 a.m.	<b>Satellite Training and Education and Naval Research Lab Monterey, California</b> Arunas Kuciauskas, Tom Lee, F. Joseph Turk, K. Richardson, and J. Hawkins, Naval Research Laboratory
	10:15 a.m. – 10:45 a.m.	Break: Refreshments in Exhibits Area
4.7	10:45 a.m. – 11:00 a.m.	<b>McIDAS-V: A Powerful Data Analysis and Visualization Tool for Multi- and Hyperspectral Environmental Satellite Data</b> Dave Santek, University of Wisconsin Space Science and Engineering Center
4.8	11:00 a.m. – 11:15 a.m.	<b>NCEP Direct Readout Usage: Current and Future Satellite Applications at NCEP's Aviation Weather (AWC) and Storm Prediction Center (SPC)</b> Jim Heil, NOAA National Weather Service
4.9	11:15 a.m. – 11:30 a.m.	<b>NCEP Use for Forecast Models</b> Lars Riishojgaard, Joint Center for Satellite Data Assimilation
4.10	11:30 a.m. – 11:45 a.m.	<b>Current and Near-term GOES Operations and Applications</b> Tim Schmit, NOAA Satellite and Information Service
4.11	11:45 a.m. – 12:00 p.m.	<b>From Data to Products to Weather Forecasting and Air Quality Monitoring: Direct Broadcast at Its Best</b> Allen Huang, Cooperative Institute for Meteorological Satellite Studies (CIMSS)
	12:00 p.m. – 1:30 p.m.	Lunch

# NOAA 2008 Direct Readout Conference Miami, Florida

**Wednesday, December 10, 2008, (1:30 p.m. – 5:30 p.m.)**

**Session 4 Continued: Applications and Training**

**Co-Chairs: Tim Schmit and Tony Mostek**

Presentation	Time	Session or Event
4.12	1:30 p.m. – 1:45 p.m.	<b>EOS Direct Broadcast Products Used In Operations</b> Kathy Strabala, Cooperative Institute for Meteorological Satellite Studies (CIMSS)
4.13	1:45 p.m. - 2:00 p.m.	<b>Geoscience Educations Utilizing Satellite Imagery: A Direct Readout Experience from the EXLORES! Perspective</b> Paul Ruscher, Florida State University
4.14	2:00 p.m. – 2:15 p.m.	<b>Evolution of the EUMETSAT Advanced Retransmission Service (EARS)</b> Christelle Ponsard, European Organization for the Exploitation of Meteorological Satellites
4.15	2:15 p.m. – 2:30 p.m.	<b>Use of RARS data in the UK Met Office</b> Richard Francis, Satellite Data Processing System Group, Meteorological Office, United Kingdom
4.16	2:30 p.m. – 2:45 p.m.	<b>National Weather Service Requirements for Real-time Satellite Data</b> Gary Hufford, NOAA National Weather Service
4.17	2:45 p.m. – 3:00 p.m.	<b>GEONETCast Americas</b> Paul Seymour, NOAA Satellite and Information Service
	3:00 p.m. – 3:30 p.m.	<b>Break: Refreshments in Exhibits Area</b>
4.18	3:30 p.m. – 3:45 p.m.	<b>Poster Session Overview</b> Tim Schmit, NOAA Satellite and Information Service
4.19	3:45 p.m. – 5:30 p.m.	<b>Direct Readout Conference Poster Session</b>

# NOAA 2008 Direct Readout Conference Miami, Florida

**Thursday, December 11, 2008, (8:30 a.m. – 1:30 p.m.)**

**Session 5: Global User Perspective**

**Chair: Charles S. Baker**

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
5.0	8:30 a.m. – 8:35 a.m.	<b>Introduction</b> Charles S. Baker, Deputy Assistant Administrator, NOAA Satellite and Information Service
5.1	8:35 a.m. – 9:00 a.m.	<b>Keynote</b> Ramón J. Viñas García (Venezuela), President, WMO Region III
5.2	9:00 a.m. – 9:20 a.m.	<b>Group on Earth Observation</b> Francis Bell, Director, Group on Earth Observation (GEO)
5.3	9:20 a.m. – 9:40 a.m.	<b>Private Individual Users of Weather Satellites: The Future</b> Dave Cawley, Remote Imaging Group (RIG)
5.4	9:40 a.m. – 10:00 a.m.	<b>The Use of NOAA Data at the Costa Rican Meteorological Service</b> Werner Stolz, Instituto Meteorológico Nacional de Costa Rica
5.5	10:00 a.m. – 10:20 a.m.	<b>The Use of NOAA Data at the Chile National Meteorological Service</b> Alejandro Muñoz, Jefe Subdepartamento Pronósticos, Dirección Meteorológica de Chile
	10:20 a.m. – 10:50 a.m.	<b>Break: Refreshments in Exhibits Area</b>
5.6	10:50 a.m. – 11:10 a.m.	<b>Use of Satellite Direct Readout in the South Pacific</b> Colin Schultz, Pacific Regional Environment Program
5.7	11:10 a.m. – 11:30 a.m.	<b>The Role of Satellite Data in the Meteorological Service of Canada</b> David Bradley, Project Coordinator, Space-Based Monitoring, Meteorological Services of Canada
5.8	11:30 a.m. – 11:50 a.m.	<b>Comparative Evaluation of NOAA AVHRR, Feng Yun 1D, MODIS and LandSat TM5 Images Working as a Satellite Constellation for the Detection of Burned Areas in the Flooding Valley of the Parana River, Argentina</b> Carlos Cotlier, Universidad Nacional de Rosario, Facultad de Ciencias Exactas, Ingeniería y Agrimensura, Centro de Sensores Remotos, Argentina
5.9	11:50 a.m. – 12:10 p.m.	<b>Low Orbit Meteorological Satellite Products and Analysis Tools at INPE/CPTEC, Brazil</b> Carlos Angelis, INPE/CPTEC (Instituto Nacional de Pesquisas Espaciais, Centro de Previsão de Tempo e Estudos Climáticos, Divisão de Satélites e Sistemas Ambientais)
5.10	12:10 p.m. – 1:30 p.m.	<b>Luncheon Panel on GOES-10 Operations –</b> <b>Moderator:</b> Chris Wheeler, NOAA Satellite and Information Service <b>Panel Members:</b> Luiz Machado, INPE/CPTEC (Brazil) (Instituto Nacional de Pesquisas Espaciais, Centro de Previsão de Tempo e Estudos Climáticos, Divisão de Satélites e Sistemas Ambientais) Tim Schmit, NOAA Satellite and Information Service Chris Wheeler, NOAA Satellite and Information Service



# NOAA 2008 Direct Readout Conference Miami, Florida

**Thursday, December 11, 2008, (1:30 p.m. – 5:20 p.m.)**

**Session 6: Future Direct Readout  
Co-Chairs: Hal Bloom and Dan Stockton**

Presentation	Time	Session or Event
6.1	1:30 p.m. – 1:50 p.m.	<b>Future of Direct Readout and Satellite Systems</b> Abigail Harper, Deputy Assistant Administrator, Systems, NOAA Satellite and Information Service
6.2	1:50 p.m. – 2:10 p.m.	<b>GOES-R Satellite and Program Review</b> Hal Bloom, NOAA Satellite and Information Service, GOES-R Program Office
6.3	2:10 p.m. – 2:30 p.m.	<b>GOES-R Instruments and Products</b> Tim Schmit, NOAA Satellite and Information Service
6.4	2:30 p.m. – 2:50 p.m.	<b>GOES-R Direct Readout Implications</b> Bill Mazur, NOAA Satellite and Information Service, GOES-R Program Office
6.5	2:50 p.m. – 3:10 p.m.	<b>GOES-R Outreach Activities</b> Jim Gurka, NOAA Satellite and Information Service, GOES-R Program Office
	3:10 p.m. – 3:40 p.m.	<b>Break: Refreshments in Exhibits Area</b>
6.6	3:40 p.m. – 4:00 p.m.	<b>NPOESS: Satellite and Program Review</b> Dan Stockton, Program Executive Officer for Environmental Satellites, NOAA Satellite and Information Service
6.7	4:00 p.m. – 4:20 p.m.	<b>NPOESS Direct Readout Mission</b> John Overton, NOAA Satellite and Information Service, NPOESS Integrated Program Office
6.8	4:20 p.m. – 4:40 p.m.	<b>NPOESS Direct Readout Operational Enhancements Model for Future Polar-orbiting Systems</b> John van de Wouw, Northrop Grumman Space Technology
6.9	4:40 p.m. – 5:00 p.m.	<b>NPOESS Preparatory Project Calibration and Validation Supporting Direct Readout Users</b> Heather Kilcoyne, NOAA Satellite and Information Service, NPOESS Integrated Program Office
6.10	5:00 p.m. – 5:20 p.m.	<b>Transitioning from POES AVHRR to NPOESS VIIRS: Understanding the Relationships Between POES and NPOESS Data Products</b> Bonnie Reed, NOAA Satellite and Information Service, NPOESS Integrated Program Office
	6:30 p.m. – 8:30 p.m.	<b>Conference Banquet – Hilton Miami Airport Hotel – Room To Be Announced</b>  <b>“Satellites and Their Utility in Communicating: Extreme Weather, Climate Change and Their Impacts in a Collaborative Environment”</b> Speaker: Dave Jones, Founder, President & CEO, Storm Center Communications, Incorporated

# NOAA 2008 Direct Readout Conference Miami, Florida

**Friday, December 12, 2008, (8:00 a.m. – 12:00 p.m.)**

**Session 7: User Services and Impacts**

**Co-Chairs: Mark Mulholland and Brian Hughes**

Presentation	Time	Session or Event
7.1	8:00 a.m. – 8:20 a.m.	<b>User Services</b> Brian Hughes, NOAA Satellite and Information Service
7.2	8:20 a.m. – 8:40 a.m.	<b>The Importance of Geostationary Weather Satellites in Hurricane Forecasting: A Perspective</b> Jack Bevin, NOAA National Weather Service, National Hurricane Center
7.3	8:40a.m. – 11:50 a.m.	<b>Facilitated Discussion</b>
7.31	8:40 a.m. – 9:00 a.m.	<b>Breakout Moderator (Transition to Breakout Areas)</b> Mark Mulholland, Deputy Director, Office of Systems Development, NOAA Satellite and Information Service
7.32	9:00 a.m. – 10:30 a.m.	<b>Structured Breakouts</b> <ul style="list-style-type: none"> <li>• User Needs from GOES Current &amp; Future Satellite: GVAR, eGVAR, GRB</li> <li>• User Needs from POES Current &amp; Future Satellites: HRPT, IPOPP, LRD, HRD</li> <li>• User Needs from Satellite Services: LRIT, EMWIN, GOES DCS, ARGOS, GEONETCast, RANET, and NOAAPORT</li> <li>• Other topics of interest or an additional group</li> </ul>
	10:30 a.m. – 10:50 a.m.	<b>Break: Refreshments (Transition to Plenary Area)</b>
7.33	10:50 a.m. – 11:35 a.m.	<b>Feedback from Breakout Groups</b> Mark Mulholland, Deputy Director, Office of Systems Development, NOAA Satellite and Information Service
7.34	11:35 a.m. – 11:50 a.m.	<b>Session Wrap-up and Final Discussion</b> Abigail Harper, Deputy Assistant Administrator, Systems, NOAA Satellite and Information Service
7.4	11:50 a.m. – 12:00 p.m.	<b>Closing Remarks</b> Abigail Harper, Deputy Assistant Administrator, Systems, NOAA Satellite and Information Service
		<b>Conference Closes</b>



