

National Oceanic & Atmospheric Administration
2011 SATELLITE DIRECT READOUT
CONFERENCE

*“Real-time Access for
Real-time Applications”*

PROGRAM
AND
AGENDA

(as of 1 April 2011)

April 4-8, 2011
Miami, Florida



<http://directreadout.noaa.gov>



NOAA 2011 Satellite Direct Readout Conference Miami, Florida

Monday, April 4, 2011 (1:00 p.m. – 3:40 p.m.)
Session 1: Welcome and Keynote Addresses
Co-Chairs: Kathy Kelly and Marlin O. Perkins

Presentation	Time	Session or Event
	8:00 a.m. – 1:00 p.m.	Registration
1.1	1:00 p.m. – 1:15 p.m.	Welcome and Logistics Marlin O. Perkins, NOAA Satellite and Information Service
1.2	1:15 p.m. – 1:35 p.m.	Conference Opening Remarks and Introductions Kathy Kelly, Director, Office of Satellite Products and Operations, NOAA Satellite and Information Service
1.3	1:35 p.m. – 2:00 p.m.	NOAA Satellite Program Charles S. Baker, Deputy Assistant Administrator, NOAA Satellite and Information Services
1.4	2:00 p.m. – 2:25 p.m.	National Weather Service Welcome Edward Johnson, Director, Strategic Planning and Policy Office, NOAA National Weather Service
1.5	2:25 p.m. – 2:50 p.m.	National Aeronautics and Space Administration Welcome Patrick Coronado, NASA Direct Readout Laboratory
1.6	2:50 p.m. – 3:15 p.m.	World Meteorological Organization (WMO) Space Program Jerome Lafeuille, Chief, Space-based Observing Division, World Meteorological Organization (WMO) Observing and Information Systems Department
1.7	3:15 p.m. – 3:40 p.m.	The International Charter for Space and Major Disasters: Monitoring and Management Support for Disaster Response Timothy Stryker, Executive Officer, Committee on Earth Observation Satellites, U. S. Geological Survey
	3:40 p.m. – 4:00 p.m.	Break: Refreshments in Exhibits Area

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Monday, April 4, 2011 (4:00 p.m. – 5:30 p.m.)

**Session 2: Panel Discussion: Use of Satellites in Disaster Response and Mitigation
Co-Chairs: Kathy Kelly and Marlin O. Perkins**

Presentation	Time	Session or Event
2.1	4:00 p.m. – 5:15 p.m.	<p>Panel: Use of Satellites in Disaster Response and Mitigation Moderator: Timothy Stryker, Executive Officer, Committee on Earth Observation Satellites, U. S. Geological Survey</p> <p>Panel Members: William Read, Director, National Hurricane Center Jerome Lafeuille, Chief, Space-based Observing Division, WMO Alejandro Muñoz, Jefe Subdepartamento Pronósticos, Dirección Meteorológica de Chile Edward Young, Deputy Director, National Weather Service, Pacific Region</p>
2.2	5:15 p.m. – 5:30 p.m.	<p>Panel Discussion Summary and Conclusions Timothy Stryker, Executive Officer, Committee on Earth Observation Satellites, U. S. Geological Survey</p>
	6:00 p.m. – 8:00 p.m.	<p>Conference “Icebreaker” – Hilton Miami Airport Hotel: Pool Area</p>

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Tuesday, April 5, 2011 (8:30 a.m. – 12:45 p.m.)
Session 3: Current Geostationary Satellite Systems
Co-Chairs: Kathy Kelly and Greg Mandt

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
3.1	8:30 a.m. – 8:35 a.m.	Introduction Kathy Kelly, Director, Office of Satellite Products and Operations, NOAA Satellite and Information Service
3.2	8:35 a.m. – 9:00 a.m.	Keynote: The Perspective of WMO RA III Alejandro Muñoz, Jefe Subdepartamento Pronósticos, Dirección Meteorológica de Chile, representing Myrna Araneda, Director, Dirección Meteorológica de Chile, and President, WMO RA III (South America).
3.3	9:00 a.m. – 9:15 a.m.	NOAA Geostationary Operational Environmental Satellite (GOES) Overview Cynthia Hampton, NOAA Satellite and Information Service
3.4	9:15 a.m. – 9:30 a.m.	Status of the Current GOES Services (Low Rate Information Transmission and the Emergency Managers Weather and Information Network) Paul Seymour, NOAA Satellite and Information Service
3.5	9:30 a.m. – 9:45 a.m.	Access to Real-time Satellite Products from Mobile Devices and Desktop Browsers Through a Web Map Service Dave Santek, Space Science and Engineering Center (SSEC)
3.6	9:45 a.m. – 10:00 a.m.	Current Status and Planned Activities of SSEC/UW-Madison Direct Broadcast Processing Packages, Real-time Data Processing and Near Real-time Applications Allen Huang, Cooperative Institute for Meteorological Satellite Studies (CIMSS), Space Science and Engineering Center (SSEC)
	10:00 a.m. – 10:30 a.m.	Break: Refreshments in Exhibits Area

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- 3.7 10:30 a.m. – 10:45 a.m. **INPE Applications of the Geostationary Operational Environmental Satellite - 12 (GOES-12) Data**
Carlos Frederico Angelis, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil
- 3.8 10:45 a.m. – 11:00 a.m. **CONAE Applications of the Geostationary Operational Environmental Satellite - 12 (GOES-12) Data**
Dr. Sandra Torrusio, Servicio Meteorológico Nacional, Argentina
- 3.9 11:00 a.m. – 11:15 a.m. **Costa Rica Applications of the Geostationary Operational Environmental Satellite - 13 (GOES-13) Data**
Werner Stolz, Costa Rican Meteorological Service
- 11:15 a.m. – 11:30 a.m. **Pickup Box Lunches**
- 3.10 11:30 a.m. – 12:45 p.m. **Panel Discussion: Current and Future Use of Satellite Data in Numerical Models**
Moderator: Jack Beven, National Weather Service
Panel Members:
Mike Manore, Environment Canada
Carlos Frederico Angelis, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil
Dr. Gloria Pujol, Servicio Meteorológico Nacional, Argentina

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Tuesday, April 5, 2011 (1:00 p.m. – 6:30 p.m.)
Session 4: Future Geostationary Satellite Systems
Co-Chairs: Greg Mandt and Steve Goodman

Presentation	Time	Session or Event
4.1	1:00 p.m. – 1:10 p.m.	Introduction Steve Goodman, Senior Scientist, NOAA GOES-R Program
4.2	1:10 p.m. – 1:25 p.m.	European Organization for the Exploitation of Meteorological Satellites (EUMETSAT): Geostationary Satellite Systems Joaquin Gonzalez, Head of System Engineering Support Division, EUMETSAT
4.3	1:25 p.m. – 1:45 p.m.	GOES-R Overview Greg Mandt, System Program Director, NOAA GOES-R Program
4.4	1:45 p.m. - 2:00 p.m.	The Advanced Baseline Imager (ABI) on the GOES-R series Tim Schmit, NOAA Satellite and Information Service
4.5	2:00 p.m. – 2:15 p.m.	High Impact Weather Forecasts and Warnings with the GOES-R Geostationary Lightning Mapper (GLM) Steve Goodman, Senior Scientist, NOAA GOES-R Program
4.6	2:15 p.m. – 2:30 p.m.	Information on the GOES-R User Readiness Planning Dr. Kathleen S. Fontaine, National Aeronautics and Space Administration
4.7	2:30 p.m. – 2:45 p.m.	GOES-R Rebroadcast Services Satya Kalluri, Andrew Royle and Randall Race, NOAA GOES-R Program
4.8	2:45 p.m. – 3:00 p.m.	NOAA Report on the Development of the GOES-R Access Subsystem (GAS) and Future Products Reginald Lawrence, NOAA Satellite and Information Service
	3:00 p.m. – 3:30 p.m.	Break: Refreshments in Exhibits Area

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| 4.9 | 3:30 p.m. – 3:45 p.m. | GOES-R Proving Ground: Demonstrating New Products to Ensure User Readiness
James Gurka, Physical Scientist, NOAA GOES-R Program |
| 4.10 | 3:45 p.m. – 4:00 p.m. | Cooperative Institute for Research in the Atmosphere Proving Ground Activities
Bernadette Connell, Cooperative Institute for Research in the Atmosphere (CIRA) |
| 4.11 | 4:00 p.m. – 4:15 p.m. | Cooperative Institute for Meteorological Satellite Studies GOES-R Proving Ground Participation
Wayne Feltz, Cooperative Institute for Meteorological Satellite Studies (CIMSS) |
| 4.12 | 4:15 p.m. – 4:30 p.m. | NASA Short-term Prediction Research and Transition (SPoRT) GOES-R Proving Ground Activities
Dr. Andrew Molthan, Principal Investigator, SPoRT Program, NASA |
| 4.13 | 4:30 p.m. – 4:45 p.m. | National Hurricane Center Testbed Activities
Jack Beven, NOAA National Weather Service |
| 4.14 | 4:45 p.m. – 5:00 p.m. | Storm Prediction Center
Chris Siewert, Oklahoma University, Storm Prediction Center |
| 4.15 | 5:00 p.m. – 5:15 p.m. | University of Wisconsin Direct Broadcast Experiences and Plans
Kathleen Strabala, Cooperative Institute for Meteorological Satellite Studies (CIMSS) |
| 4.16 | 5:30 p.m. – 6:30 p.m. | HRIT/EMWIN Prototype Demonstration
Craig Keeler, NOAA GOES-R Program, and Paul Seymour, NOAA Satellite and Information Service |

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Wednesday, April 6, 2011 (8:30 a.m. – 12:05 p.m.)
Session 5: Current and Future Polar-orbiting Satellite Systems
Co-Chairs: Gary Davis and Patrick Coronado

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
5.1	8:30 a.m. – 8:35 a.m.	Introduction Gary Davis, Director, Office of Systems Development, NOAA Satellite and Information Service
5.2	8:35 a.m. – 9:00 a.m.	Keynote: Status of Utilization of Geostationary and Polar-orbiting Satellite Data in WMO Region Association (RA) V Dr. Sri W. B. Harijono, Director General, Agency for Meteorology, Climatology and Geophysics (BMKG), Indonesia, and President, WMO RA V (South-West Pacific)
5.3	9:00 a.m. – 9:15 a.m.	Polar-orbiting Operational Environmental Satellite (POES) Program Overview Cynthia Hampton, NOAA Satellite and Information Service
5.4	9:15 a.m. – 9:30 a.m.	Argos Data Collection System Scott Rogerson, NOAA Satellite and Information Service
5.5	9:30 a.m. – 9:45 a.m.	European Organization for the Exploitation of Meteorological Satellites (EUMETSAT): Polar-orbiting Satellite Systems Sean Burns, EUMETSAT
5.6	9:45 a.m. – 10:00 a.m.	Analysis of Extreme Rainfall in Cusco in Summer 2010 Jorge Chira La Rosa, Director, Oficina General de Operaciones Tecnicas, Servicio Nacional de Meteorología e Horología, Peru
5.7	10:00 a.m. – 10:15 a.m.	My Ocean Frédérique Blanc, CLS France
	10:15 a.m. – 10:35 a.m.	Break: Refreshments in Exhibits Area

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- 5.8 10:35 a.m. – 10:50 a.m. **NPOESS Preparatory Project - Joint Polar-orbiting Satellite System Program Overview**
Gary Davis, Director, Office of Systems Development, NOAA Satellite and Information Service
- 5.9 10:50 a.m. – 11:05 a.m. **Overview of the Defense Weather Satellite System (DWSS) and Planned Activities of DMSP at McMurdo**
Capt. Harvey S. Gaber, Ground System Chief, Defense Weather Systems Directorate, USAF
- 5.10 11:05 a.m. – 11:20 a.m. **Status of the National Aeronautics and Space Administration (NASA) Earth Observing System (EOS) and NPOESS Preparatory Project (NPP) Direct Readout Mission**
Patrick Coronado, NASA Direct Readout Laboratory
- 5.11 11:20 a.m. – 11:35 a.m. **NPOESS Preparatory Project - Joint Polar-orbiting Satellite System Product Overview**
Heather Kilcoyne, NOAA Satellite and Information Service
- 5.12 11:35 a.m. – 11:50 a.m. **Advances in Imagers from AVHRR to VIIRS**
Lihang Zhou, NOAA Satellite and Information Service
- 5.13 11:50 a.m. – 12:05 p.m. **Observation of Our Planet, and of the Argentine Territory via the SAC-C/D Aquarius Missions**
Dr. Sandra Torrusio, Servicio Meteorológico Nacional, Argentina
- 12:05 p.m. – 1:30 p.m. **Lunch**

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Wednesday, April 6, 2011, (1:30 p.m. – 6:45 p.m.)

Session 6: Training Resources and Posters

Co-Chairs: Tony Mostek and Tim Schmit

Presentation	Time	Session or Event
6.1	1:30 p.m. – 1:45 p.m.	Introduction Anthony Mostek, NOAA/NWS – Office of Climate, Weather, and Water, Weather Services (OCWWS) Training Division
6.2	1:45 p.m. – 2:00 p.m.	Cooperative Institute for Meteorological Satellite Studies (CIMSS) VISITview Scott Bachmeier, CIMSS
6.3	2:00 p.m. – 2:15 p.m.	COMET Program: Satellite Meteorology Training Resources for the Atmospheric Science Community Tim Spangler, University Corporation for Atmospheric Research (UCAR) Cooperative Program for Operational Meteorology, Education, and Training (COMET®)
6.4	2:15 p.m. – 2:30 p.m.	Satellite Training Activities: Cooperative Institute for Research in the Atmosphere (CIRA) Bernadette Connell, CIRA
6.5	2:30 p.m. – 2:45 p.m.	Training in the Satellite Proving Ground Anthony Mostek, NOAA/NWS – Office of Climate, Weather, and Water, Weather Services (OCWWS) Training Division
6.6	2:45 p.m. – 3:00 p.m.	WMO Virtual Laboratory for Training in Satellite Meteorology Jerome Lafeuille, Chief of Space-based Observing Division, World Meteorological Organization (WMO) Observing and Information Systems Department
6.7	3:00 p.m. – 3:15 p.m.	Satellite Training at the Caribbean Institute for Meteorology and Hydrology Kathy-Ann Caesar, Department of Meteorology, Barbados Center of Excellence
6.8	3:15 p.m. – 3:30 p.m.	Monitoring Urban Night-Time Lights Carlos Collier, Facultad de Ciencias Exactas, Ingeniería y Agrimensura, Centro de Sensores Remotos, Universidad Nacional de Rosario, Argentina
6.9	3:30 p.m. – 3:45 p.m.	Satellite Demonstration and Education at the National Research Laboratory (NRL) Thomas Lee, National Research Laboratory
6.10	3:45 p.m. – 4:15 p.m.	Poster Session Overview Tim Schmit, NOAA Satellite and Information Service
6.11	4:15 p.m. – 5:30 p.m.	Poster Session
6.12	5:15 p.m. – 6:00 p.m.	JPSS L-band Discussion with the HRPT Users: Questions and Answers Patrick Coronado, NASA Direct Readout Laboratory
6.13	6:00 p.m. – 6:45 p.m.	GOES-R Discussion with the Users: Questions and Answers James Gurka and Satya Kalluri, NOAA GOES-R Program

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Thursday, April 7, 2011 (8:30 a.m. – 12:30 p.m.)

Session 7: User Applications

Co-Chairs: Kathy Kelly and David Benner

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
7.1	8:30 a.m. – 8:35 a.m.	Introduction David Benner, NOAA Satellite and Information Service
7.2	8:35 a.m. – 9:00 a.m.	Keynote: Perspective of WMO RA IV Trevor Basden, Senior Deputy Director, Bahamas Department of Meteorology representing Arthur Rolle, Director, Bahamas Department of Meteorology, and President, WMO RA IV
7.3	9:00 a.m. – 9:15 a.m.	The LSU Earth Scan Laboratory: A History of Research to Real-time Operations Dr. Nan D. Walker, Director Earth Scan laboratory, Louisiana State University
7.4	9:15 a.m. – 9:30 a.m.	Applications of Satellite Data (Chile) Alejandro Muñoz, Jefe Subdepartamento Pronósticos, Dirección Meteorológica de Chile
7.5	9:30 a.m. – 9:45 a.m.	Development of a New High Rate Data Collection Platform (DCP) Sean Burns, EUMETSAT
7.6	9:45 a.m. – 10:00 a.m.	Real Time Access for Private Individual Users of Weather Satellites Dave Cawley, United Kingdom
7.7	10:00 a.m. – 10:15 a.m.	Processing and evaluating NPP Direct Readout Data using the AAPP Software Package Nigel Atkinson, Meteorological Office, United Kingdom
7.8	10:15 a.m. – 10:30 a.m.	Online and Real Time Monitoring of Volcanic Eruption in Ecuador Using NOAA APT Ghulam Jaffer, Graz University of Technology, Graz, Austria
	10:30 a.m. – 11:00 a.m.	Break : Refreshments in Exhibits Area
7.9	11:00 a.m. – 11:20 a.m.	Frequency Re-Allocation Overview Mark Mulholland, NOAA Satellite and Information Service
7.10	11:20 a.m. – 12:30 p.m.	Panel Discussion: Frequency Re-Allocation and the Future of the L-band Moderator: Mark Mulholland, NOAA Satellite and Information Service Panel Members: Eddie Davidson, National Telecommunications and Information Administration (NTIA) Cynthia Hampton, NOAA Satellite and Information Service Jerome Lafeuille, Chief, Space-based Observing Division, WMO David Bradley, Environment Canada Karen Dubey, Seaspace Corporation Dr. Nan D. Walker, Earth Scan Laboratory, Louisiana State University
	12:30 p.m. – 1:30 p.m.	Lunch

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Thursday, April 7, 2011 (1:30 p.m. – 5:15 p.m.)
Session 8: Communications and Breakout Groups
Co-Chairs: David Benner and Scott Rogerson

Presentation	Time	Session or Event
8.1	1:30 p.m. – 1:35 p.m.	Introduction David Benner, NOAA Satellite and Information Service
8.2	1:35 p.m. – 1:50 p.m.	GEONETCast and GEONETCast Americas Paul Seymour, NOAA Satellite and Information Service
8.3	1:50 p.m. – 2:05 p.m.	RANET Program Overview Kelly Sponberg, Program Manager, IEPAS / RANET, Joint Office of Science Support, University Corporation for Atmospheric Research
8.4	2:05 p.m. – 2:20 p.m.	The Role of the Polar Communications and Weather Mission for Canada Mike Manore, Project Coordinator, Space-Based Monitoring, Meteorological Services of Canada
8.5	2:20 p.m. – 2:50 p.m.	International Satellite Communications System (ISCS) and NOAAport Activities Robert Gillespie and Scott Christensen, NOAA National Weather Service
8.6	2:50 p.m. – 3:05 p.m.	User Services for NESDIS Satellite Products and Services Matthew Seybold, NOAA Satellite and Information Service
8.7	3:05 p.m. – 3:20 p.m.	McIDAS-V: Advances in data analysis and visualization for satellite data and products Dave Santek, Space Science and Engineering Center (SSEC)
8.8	3:20 p.m. – 3:25 p.m.	Breakout Group Instructions Scott Rogerson, NOAA Satellite and Information Service
	3:25 p.m. – 3:45 p.m.	Break: Refreshments in Exhibits Area

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- 8.9 3:45 p.m. – 4:35 p.m. **Breakout Groups: Session A**
Transition from GOES to GOES-R: GRB, GAS
Moderator: Greg Mandt
Subject-Matter-Experts: Tim Schmit, Reggie Lawrence, Craig Keeler, Satya Kalluri
- Transition from POES to NPP/JPSS: APT, HRPT, IPOPP, LRD, HRD**
Moderator: Gary Davis
Subject-Matter-Experts: Marlin O. Perkins, Patrick Coronado
- Satellite Services: LRIT, EMWIN, GOES DCS, GVAR, Argos, GEONETCast, RANET**
Moderator: Paul Seymour
Subject-Matter-Experts: Kay Metcalf, Matthew Seybold, Natalia Donoho, Letecia Reeves, James Heil, Edward Young, Scott Rogerson
- Frequency Issues: 1675 -1695 MHz, 1695 - 1710 MHz**
Moderator: Mark Mulholland
Subject-Matter-Experts: Cynthia Hampton, Jerome Lafeuille, Ivan Navarro, Joaquin Gonzalez
- 4:40 p.m. – 5:30 p.m. **Breakout Groups: Session B**
Same as Session A
- 6:30 p.m. – 8:30 p.m. **Conference Banquet – Hilton Miami Airport Hotel – Cove Ballroom**
- "The Decline of the American Emergency Communications System: How Technology Makes Communicating with the Public More Difficult"**
Speaker: Bryan Norcross, The Weather Channel, Inc.

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Friday, April 8, 2011 (8:30 a.m. – 12:00 p.m.)
Session 9: User Services and Impacts
Co-Chairs: Kathy Kelly and Edward Young

Presentation	Time	Session or Event
	8:00 a.m. – 8:30 a.m.	Registration/Coffee
9.1	8:30 a.m. – 8:40 a.m.	Introduction Edward Young, Deputy Director National Weather Service, Pacific Region
9.2	8:40 a.m. – 9:30 a.m.	Breakout Group reports
9.3	9:30 a.m. – 10:30 a.m.	Facilitated Discussion: Where Do We Go From here? Moderators: Kathy Kelly, Director, Office of Satellite Products and Operations and Edward Young, Deputy Director National Weather Service, Pacific Region
	10:30 a.m. – 10:45 a.m.	Break: Refreshments
9.4	10:45 a.m. – 11:45 a.m.	Develop/Prioritize Conference Recommendations Edward Young, Deputy Director, National Weather Service, Pacific Region David Benner, NOAA Satellite and Information Service
9.5	11:45 a.m. – 11:50 a.m.	Session Wrap-up and Final Discussion Edward Young, Deputy Director, National Weather Service, Pacific Region
9.6	11:50 a.m. – 12:00 p.m.	Closing Remarks Kathy Kelly, Director, Office Satellite Products and Operations, NOAA Satellite and Information Service
		Conference Closes
	1:30 p.m. – 3:30 p.m.	Tour of the National Hurricane Center

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our efforts to advance
science, service, and good
stewardship for
life on Earth.*

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