

# 2011 Space Weather Enterprise Forum

*Solar Maximum – Can We Weather the Storm?*

## AGENDA

7:30 AM Registration and continental breakfast

### Session 1: Welcome and Opening Addresses

*Session Coordinator: Mr. Michael Babcock (OFCM)*

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| 8:00 AM | Forum Welcome and Introduction | <b>Mr. Samuel P. Williamson</b><br>Federal Coordinator for Meteorology   |
| 8:30 AM | Keynote Address                | <b>The Honorable Yvette D. Clarke, (D-NY)</b><br>Ranking Member of the Subcommittee on Cybersecurity, Infrastructure Protection, and Security Technologies |
| 9:00 AM | Invited Speaker                | <b>Dr. Margaret Cavanaugh</b><br>Deputy Assistant Director, Geosciences Directorate, National Science Foundation   |

### Session 2: Critical Infrastructure Vulnerability to Space Weather

*Session Coordinator: Ms. Patricia Mulligan (National Environmental Satellite, Data, and Information Service)*

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| 9:30 AM | <p>We depend on critical systems and activities affected by space weather, such as the electric power grid, communications, positioning and navigation, and national security. Space weather effects must be understood, mitigation actions developed, and acceptable levels of risk assessed to build and support an informed and resilient society. This session covers the main areas in which space weather can have a significant impact on our modern technological society.</p> <p><b>Moderator: Mr. Joe McClelland</b>, Director, Office of Electric Reliability, Federal Energy Regulatory Commission (FERC)</p> <p><b>Panelists:</b></p> <ul style="list-style-type: none"><li>• <b>Mr. John Kappenman</b>, Storm Analysis Consultants</li><li>• <b>Mr. Eric Rollison</b>, Engineer of Reliability Assessments, North American Electric Reliability Corporation (NERC)</li><li>• <b>Mr. Mitch Narins</b>, Chief Systems Engineer for Navigation Services, Federal Aviation Administration (FAA)</li><li>• <b>Mr. Tim Deaver</b>, Vice President, Hosted Payload Development, SES WORLD SKIES U.S. Government Solutions</li></ul> |
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10:30 am Morning Break

**Session 3: Human Safety and Response Preparedness***Session Coordinator: Mr. Michael Bonadonna (OFCM)*

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| 11:00 AM | <p>Protection of human health and safety are of paramount concern among the space weather service providers. Threats to human health and safety include exposure to space radiation and to the effects of infrastructure degradation following severe space weather events. Appropriate mitigation, response, and recovery plans and actions are critical to minimizing the risk. In this session, the panel will discuss human safety and response preparedness for adverse space weather conditions.</p> <p><b>Moderator: Mr. Jonathan T. (Jon) Malay</b>, Director, Civil Space and Environment Programs, Lockheed Martin Corporation; President, American Meteorological Society</p> <p><b>Panelists:</b></p> <ul style="list-style-type: none"> <li>• <b>Mr. Michael Stills</b>, Manager – International Operations, United Flight Dispatch</li> <li>• <b>Mr. Leviticus (L.A.) Lewis</b>, FEMA Representative, DHS Space Team</li> <li>• <b>Dr. John Allen</b>, Program Executive for Crew Health and Safety, NASA Headquarters Space Operations Mission Directorate</li> <li>• <b>Dr. Brenda Phillips</b>, Professor, Center for the Study of Disasters and Extreme Events, Fire and Emergency Management Program, Department of Political Science, Oklahoma State University</li> </ul> |
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**Luncheon: Served in the meeting room, noon to 1:15 PM**

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| Noon     | Lunch is served                  |  |
| 12:30 PM | Introduction of Luncheon Speaker | <b>Mr. Samuel P. Williamson</b><br>Federal Coordinator for Meteorology   |
| 12:35 PM | Luncheon Speaker                 | <b>Dr. Kathryn Sullivan</b><br>Assistant Secretary of Commerce for Environmental Observation and Prediction<br>National Oceanic and Atmospheric Administration |

1:15 PM Brief Break / Clear Lunch from Tables

#### Session 4: Space Weather Warnings and Prediction Services

Session Coordinator: Dr. Genene Fisher (National Weather Service)

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| 1:30 PM | <p>This session will introduce the new interagency and international Unified Space Weather Operational Capability initiative to improve space weather products and services in advance of the coming solar maximum. Dr. Jack Hayes, the U.S. Permanent Representative to the World Meteorological Organization, will present the overarching concept and the international context. He will be followed by a number of agency leaders who will describe the components of their programs that comprise the overall capability.</p> <p><b>Moderator: Ms. Maria Pirone</b>, Senior Account Manager, Environmental Systems, Harris Corporation</p> <p><b>Panelists:</b></p> <ul style="list-style-type: none"> <li>• <b>Dr. Jack Hayes</b>, Assistant Administrator for Weather Services and Director, National Weather Service</li> <li>• <b>Colonel John Egentowich (PhD)</b>, Deputy Director of Weather, Headquarters, United States Air Force</li> <li>• <b>Dr. Michael Hesse</b>, Chief, Space Weather Laboratory, NASA Goddard Space Flight Center</li> <li>• <b>Dr. Richard Behnke</b>, Head, Geospace Section, National Science Foundation</li> <li>• <b>Dr. David Applegate</b>, Associate Director for Natural Hazards, U.S. Geological Survey</li> </ul> |
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2:30 PM Afternoon Break

#### Featured Speaker

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| 2:55 PM | Introduction of Featured Speaker | <b>Mr. Samuel P. Williamson</b><br>Federal Coordinator for Meteorology |
| 3:00 PM | Featured Speaker                 | <b>Mr. David Jones</b><br>President, StormCenter Communications, Inc.  |

### Session 5: Strategic Communications, Education and Outreach

Session Coordinator: Mr. Michael Bonadonna (OFCM)

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| 3:30 PM | <p>This session focuses on education and outreach and examines the challenges and opportunities among the public and stakeholders in raising awareness and understanding of space weather impacts on daily life, security, the global economy, infrastructure, and business continuity.</p> <p><b>Moderator: Mr. David Jones</b>, President, StormCenter Communications, Inc.</p> <p><b>Panelists:</b></p> <ul style="list-style-type: none"> <li>• <b>Ms. Victoria Jaggard</b>, Space Editor, National Geographic News Online</li> <li>• <b>Mr. Robert Irion</b>, Director, Science Communication Program, University of California, Santa Cruz</li> <li>• <b>Lieutenant Lesley Lykins</b>, Director, Emerging Media Integration, Department of the Navy, Office of Information</li> <li>• <b>Dr. W. Jeffrey Hughes</b>, Director, Center for Integrated Space Weather Modeling, Boston University</li> <li>• <b>Mr. Clay Anderson</b>, Senior Media Representative, Pepco Holdings, Inc.</li> </ul> |
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### Session 6: Summary and Wrap-Up

Session Coordinator: Mr. Michael Babcock (OFCM)

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| 4:30 PM | Forum Wrap-up and Summary of Key Points | <p><b>Dr. Paul Try</b><br/>Senior Vice President and Program Manager, Science and Technology Corporation</p> |
| 4:45 PM | Closing Remarks                         | <p><b>Mr. Samuel P. Williamson</b><br/>Federal Coordinator for Meteorology</p>                               |