

# Satellite Symposium Lunch Panel: *Meeting Future Urban Weather and Climate Information Needs from Space*

Wednesday, 14 January 2009: 12:00 PM-1:30 PM

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**Sponsored By:** NOAA Satellite Industry Partners, Rick Ohlemacher and Jon Malay, Co-Chairs



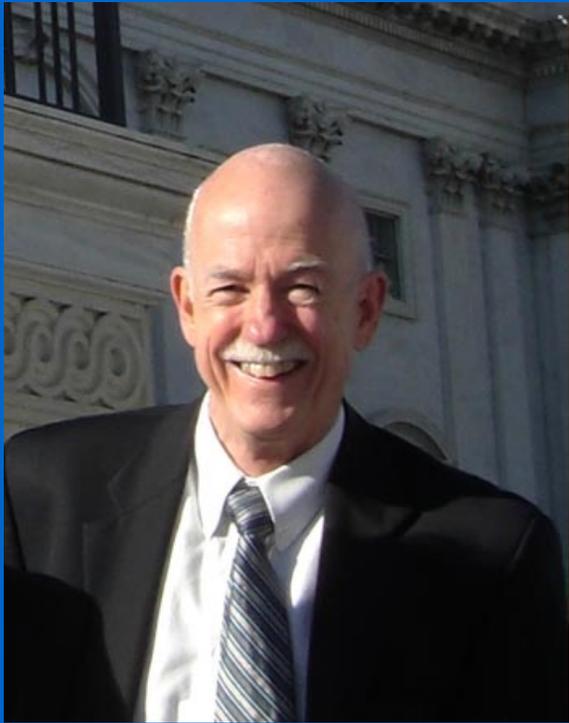
**Moderator:** Dr. William H. Hooke, Director of AMS Policy Program (c)

## **Panel:**

- Dr. Gary J. Jedlovec - NASA/Global Hydrology and Climate Center/Short-term Prediction Research and Transition Center (SPoRT)
- Dr. Thomas R. Karl, Director, NOAA/NESDIS/National Climatic Data Center, President-Elect AMS
- Dr. J. Marshall Shepard, Associate Professor, Department of Geography, University of Georgia
- Mr. Don Berchoff, Director, NOAA/NWS/Office of Science and Technology

## **Description:**

- Discussing the needs for data and information from current and future satellite observing systems, including NPOESS and GOES-R, to address the impacts of weather and climate on an increasingly vulnerable urban society.
- Space-based remote sensing significantly contributes to understanding and predicting climate trends, hazards, and high-impact weather (e.g., hurricanes, tornadoes).
- Panel members will highlight key issues and critical capabilities of the new systems that will be developed over the next few years and flown during the next two decades.



**William H. Hooke, Ph.D.**  
Senior Policy Fellow and Director,  
American Meteorological Society

- B.S. (Physics Honors), Swarthmore College
  - S.M. and Ph.D., University of Chicago
  - AMS Fellow and Member of the American Philosophical Society
  - Chairs the NAS/NRC Disasters Roundtable
  - ICSU Planning Group on Natural and Human-Induced Environmental Hazards and Disasters
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- Senior Policy Fellow at AMS since 2000, and Director of the Policy Program since 2001
  - 1967 to 2000 —NOAA & antecedent agencies
  - 1969 to 1987 — Ad Joint Faculty, University of Colorado and Fellow of two NOAA Joint Institutes (CIRES, 1971-1977; CIRA 1987-2000)
  - 1993 and 2000 — Director, USWRP Office, and Chair, SNDR NSTC Committee on Environment and Natural Resources
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- Policy Research: natural disaster reduction; historical precedents as they illuminate present-day policy; the nature and implications of changing national requirements for weather and climate science and services



**Gary J. Jedlovec**  
**NASA Scientist**  
**UAH Adjunct Professor**

- Doctor of Philosophy in Meteorology 1987
  - Masters Degree in Meteorology, 1981
  - Bachelor of Science in Meteorology, 1979
  - Member: AMS, ASPRS, AGU
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· *Atmospheric Scientist* since 1987  
NASA-Marshall Space Flight Center,  
Global Hydrology and Climate Center

· *Adjunct Associate Professor* since 1988  
University of Alabama in Huntsville  
College of Science, Atmospheric Science  
Department

· *Adjunct Assistant (Courtesy) Professor* from  
1989 - 1993 Florida State University,  
Department of Meteorology

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· 20 years developing and evaluating  
algorithms to retrieve geophysical parameters  
for regional climate and weather forecasting  
applications – applied to GOES and NASA EOS  
data to improved forecasts



**Thomas R. Karl**  
**Director**

**NOAA's National Climatic Data Center**  
**United States Department of Commerce**



- B.S. degree in Meteorology, 1973
  - Masters Degree in Meteorology, 1974
  - Awarded an honorary Doctorate of Humane Letters, 2002
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- Director of NOAA's National Climatic Data Center, Asheville, North Carolina
  - NOAA's Program Manager for Climate Observations and Analysis
  - Co-chairs NOAA's Data Management Committee
  - Fellow of the American Meteorological Society and the American Geophysical Union, and a National Associate of the National Research Council
- 
- Lead Author and Coordinating Lead Author of several IPCC reports, Co-Chair of the U.S. National Assessment of Climate Change and Variability and recently completed the first Climate Change Science Program Synthesis and Assessment Report on Temperature Trends



**Marshall Shepherd**  
Associate Professor  
University of Georgia  
Department of Geography

- B.S., M.S. and Ph.D in Physical Meteorology, Florida State University
  - Awarded highest federal honor to the Nation's young scientists and engineers
  - Elected to the American Meteorological Society Council
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- Research meteorologist in the Earth-Sun Division at NASA-Goddard Space Flight Center

- Deputy Mission Scientist for the Global Precipitation Measurement (GPM) mission — 2010 launch

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- Research focused on weather and climate systems using advanced satellites, experimental aircraft, radars, and sophisticated computer models
- Investigating the linkage between urban cities and rainfall modification using space-based instruments and models



**Don Berchoff**

Director, Office of Science and  
Technology  
National Weather Service  
National Oceanic and Atmospheric  
Administration

- Masters of Science degree in International Studies, the National Defense University
  - Masters of Arts degree in Procurement and Acquisition Management, Webster University
  - Bachelor of Science degree in Meteorology (Honors), State University of New York.
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