

# AMERICAN METEOROLOGICAL SOCIETY



## **Joint 21st Satellite Meteorology, Oceanography and Climatology Conference and 20th Conference on Air-Sea Interaction**

15–19 August 2016      Monona Terrace Community and Convention Center      Madison, Wisconsin

# JOINT 21ST SATELLITE METEOROLOGY, OCEANOGRAPHY AND CLIMATOLOGY CONFERENCE AND 20TH CONFERENCE ON AIR-SEA INTERACTION

15-19 AUG. 2016

MONONA TERRACE COMMUNITY & CONVENTION CTR

MADISON, WI

## ORGANIZERS

The 21st Conference on Satellite Meteorology is organized by the AMS Committee on Satellite Meteorology, Oceanography, and Climatology and is sponsored by the American Meteorological Society.

The 20th Conference on Air-Sea Interaction is organized by the AMS Committee on Air Sea Interaction and is sponsored by the American Meteorological Society.

## REGISTRATION RATES

All attendees must register to attend the conference. At this time, registration may be completed on-line or on-site. On-site registration is available with an additional \$20 added to the rate. Please see the main conference web-page for a registration rate listing.

FULL-WEEK REGISTRATION includes: admission to all conference sessions, coffee breaks, poster viewings, icebreaker reception on Mon. and lunches Tues.-Thur.

ONE-DAY REGISTRATION includes: admission to all conference sessions, coffee breaks, poster viewings, and lunch (if Tues.-Thur.) for one calendar day.

## REGISTRATION HOURS

The AMS registration desk will be located in Registration Area 3/4 on Level 4 of the Monona Terrace Community and Convention Center and will be open for registration during the following hours:

|                   |                    |
|-------------------|--------------------|
| Sun. 14 August:   | 5:00 pm - 7:00 pm  |
| Mon. 15 August:   | 7:30 am - 5:30 pm  |
| Tues. 16 August:  | 7:30 am - 5:30 pm  |
| Wed. 17 August:   | 7:30 am - 5:30 pm  |
| Thurs. 18 August: | 7:30 am - 5:30 pm  |
| Fri. 19 August:   | 7:30 am - 12:00 pm |

## ACCOMMODATIONS

Attendees were responsible for making their own hotel arrangements. All meeting sessions for the conference will be held at the Monona Terrace Community and Convention Center, 1 John Nolen Drive, Madison, WI 53703. All sessions and events will be located on Level 4 except for the Student Mixer and Icebreaker Reception.

Blocks were reserved at a special rate for AMS attendees at the following hotels:

The Madison Concourse Hotel  
Hyatt Place Madison/Downtown  
Best Western Plus Inn on the Park

Thank you for booking your sleeping room at an official AMS hotel. In doing so, you're helping AMS maintain a strong pick-up history for future hotel contract negotiations, helping to keep registration rates as low as possible.

## CONFERENCE SOCIAL EVENTS:

### COFFEE BREAKS

|                      |                                |
|----------------------|--------------------------------|
| Monday, 15 August    |                                |
| 10-10:30am           | Capitol Promenade              |
| 3-4:30pm             | Grand Terrace (Poster Viewing) |
| Tuesday, 16 August   |                                |
| 10-10:30am           | Grand Terrace                  |
| 3-4:30pm             | Grand Terrace (Poster Viewing) |
| Wednesday, 17 August |                                |
| 10-10:30am           | Grand Terrace                  |
| 3-4:30pm             | Grand Terrace (Poster Viewing) |
| Thursday, 18 August  |                                |
| 10-10:30am           | Grand Terrace                  |
| 3-4:30pm             | Grand Terrace (Poster Viewing) |
| Friday, 19 August    |                                |
| 10-10:30am           | Grand Terrace                  |

### ICEBREAKER RECEPTION

Monday, 15 August, 6-8pm

On Monday evening, we invite attendees to kick off the Joint AMS 21st Satellite Meteorology, Oceanography and Climatology Conference and 20th AMS Conference on Air-Sea Interaction in the Community Terrace (Level 2) of the Monona Terrace Community and Convention Center. Hors d'oeuvres and a cash bar will be available.

### BOXED LUNCHES

Tuesday, 16 August, 12-1:30pm

Wednesday, 17 August, 12-1:30pm

Thursday, 18 August, 12-1:30pm

Deli lunches (with plates and brown bags) will be available for conference attendees in Ballroom AB. Attendees are encouraged to eat their lunch in Ballroom AB or bring a bagged lunch into Ballroom CD for a Town Hall Meeting from 12:30-1:30.

### STUDENT MIXER

Monday, 15 August, 12-1:30pm

On Monday, we invite students to grab a bagged lunch in the Community Terrace (Level 2) and take part in the student mixer, where they will be able to meet with professionals in their field.

### POSTER ROTATIONS

Formal Poster Viewings will be held in the Grand Terrace of the Monona Terrace Community and Convention Center. The set up, preview, presentation, and tear down times are as follows:

| Poster #       | Set Up After | Poster Viewing      | Tear Down By* |
|----------------|--------------|---------------------|---------------|
| 1-22 (AirSea)  | Mon. at Noon | Mon.-Wed. 3-4:30pm  | Thurs. by 6pm |
| 23-75 (SatMet) | Mon. at Noon | Mon.&Tues. 3-4:30pm | Tues. by 6pm  |
| 76-127(SatMet) | Wed. at Noon | Wed&Thurs. 3-4:30pm | Thurs. by 6pm |

\* Note that AMS is not responsible for posters not removed by the tear down time. Coffee, tea, and snacks will be provided during formal poster viewings.

## INTERNET ACCESSIBILITY

AMS has negotiated a contracts that provide complimentary wireless internet access in all sleeping rooms for those who booked within the AMS block at an official AMS hotel. Please your hotel's front desk for instructions on accessing the free wifi.

Free wireless is also provided at the Monona Terrace Community and Convention Center. To access the wifi in the meeting space, please see sign posted at the AMS registration desk.

## SPECIAL NEEDS

It is our sincere desire to comply fully with both the letter and the spirit of the Americans with Disabilities Act of 1990 (ADA). Attendees with special needs should call the AMS Meetings Dept. at (617) 227-2426 x228, 4–6 weeks prior to the meeting to request special arrangements. Special housing needs should be requested when making hotel reservations.

## PROFESSIONAL AND RESPECTFUL CONDUCT AT AMS MEETINGS

AMS is committed to safe and productive meetings for all attendees. Harassment, intimidation, or discrimination of any kind will not be tolerated at any meeting or event associated with the meeting. All communication should be appropriate for a professional audience including people of many different backgrounds. Those who violate the standards of professional and respectful conduct may be asked to leave the meeting immediately and without refund, may not be considered for service on AMS boards and committees, and may be subject to additional legal action.

Harassment, intimidation, or discrimination includes offensive verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion; sexual images in public spaces; deliberate intimidation, stalking, or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact; and unwelcome sexual attention.

This statement is meant to cover all meeting-associated events, including those sponsored by organizations other than AMS but held in relation to AMS events. This includes the scientific program and exhibitions, as well as receptions, town hall meetings, and other informal or formal gatherings associated with AMS.

## BEYOND THE CONFERENCE

Monona Terrace Community and Convention Center opened its doors after nearly 60 years of debate on July 18, 1997. It was first designed by Wisconsin native and internationally-renowned architect Frank Lloyd Wright in 1938 as a cultural, governmental and recreational building. Wright reworked the design several times between 1938 and 1958 before signing off on the final plans seven weeks before his death in 1959. Madison voters approved referenda to construct Monona Terrace – on the same site Wright had originally proposed – as a community and convention center in 1992. While Wright's design was used for the building's exterior, the interior was redesigned by Wright apprentice and Taliesin architect Tony Puttnam to house state-of-the-art exhibition, meeting and public space. The Monona Terrace Community and Convention Center has a lot to offer: <http://www.mononaterrace.com/attending-event/things-to-do>

[www.visitmadison.com](http://www.visitmadison.com) has itineraries designed with you in mind, maps to help you find your way, visitor guides to help you with your planning, and an array of restaurant options to complete your perfect travel experience.

As you enjoy Madison, feel free to download VisitMadison's free app. It's GPS enabled allowing you to easily find dining, shopping, attractions and more within walking distance of your location (<http://www.visitmadison.com/plan-your-trip/planning-tools/mobile-app/>).

## FOREWORD

### 21<sup>th</sup> Conference on Satellite Meteorology and Oceanography

Welcome to the 21<sup>th</sup> Conference on Satellite Meteorology and Oceanography, held in Madison, WI on August 15-19, 2016 in conjunction with the 20<sup>th</sup> Conference on Air-Sea Interaction. We look forward to an intellectually stimulating meeting and are excited to offer this conference that ties together important areas of interdisciplinary research in meteorological and oceanographic studies. The conference kicks off with a joint plenary session with invited papers that address the state of the science, and continues with joint sessions scattered throughout the week that expand on these connections.

This year's Conference consists of over 20 oral sessions, including joint sessions with the Air-Sea Interaction programs. Each day concludes with an extended interactive poster session that is intended to forge new connections and provide ample time for stimulating discussion.

In our first session following Monday's joint plenary we recognize the work of Gregory Mandt and his skilled management of the GOES-R program. Additional sessions scheduled during subsequent days address the science of GOES-R, as well as planned research with the JPSS. Sessions that address the potential of other new generation satellite systems to improve understanding of our environment are also scheduled, as are sessions that discuss ongoing training and education programs, and demonstrate the application of satellite data to forecasting. Additional sessions will also discuss the evolution of the US satellite-based observational network, and will highlight to the future use of microsatellites and nanosatellites. We are confident you will find the meeting to be an intellectually stimulating and professionally productive event.

We have encouraged student contributions, and will be holding a student competition to highlight and reward their work. Prizes will be awarded for outstanding student oral and poster presentations.

The Program Committee thanks the co-chairs of the Air-Sea Interaction Program Committees for their assistance and time spent in organizing this meeting. We particularly thank Jen Ives and the AMS staff for their invaluable assistance and patience with the organization of this conference. We could not hold this meeting without the assistance of our many session chairs who stepped up to help with planning and organizing the meeting.

#### **Program Committee**

Jordan Gerth, Steven A Ackerman and Derek Posselt, Conference Co-Chairs

Kenneth F. Carey, Satellite Met/Ocean Committee Chair

Joseph Turk and Shaima Nasiri, co-Chairs for the Student Program

#### **AMS Satellite Meteorology and Oceanography Conference Session Chairs**

Steven A. Ackerman, Jordan Gerth, Derek Posselt, Brian Kahn, Steven J. Goodman, Phil Ardanuy, Wayne Feltz, Mitchell Goldberg, Fuzhong Weng, Andrew Heidinger, Christopher Velden, Christopher Ruf, Maria Colton, Jim Gurka, Ethan Nelson, and Justin Tsu

**SATELLITE METEOROLOGY & OCEANOGRAPHY  
CONFERENCE SERIES**

| <b>DATE</b>              | <b>LOCATION</b>        | <b>CONFERENCE</b>                                                          |
|--------------------------|------------------------|----------------------------------------------------------------------------|
| 25–29 June 1984          | Clearwater, FL         | (First) Conference on Satellite Meteorology/ Remote Sensing & Applications |
| 13-16 May 1986           | Williamsburg, VA       | Conference on Satellite Meteorology/ Remote Sensing and Applications       |
| 31 Jan.–5 Feb. 1988      | Anaheim, CA            | Third Conference on Satellite Meteorology & Oceanography                   |
| 16–19 May 1989           | San Diego, CA          | Fourth Conference on Satellite Meteorology & Oceanography                  |
| 3–7 September 1990       | London, England        | Fifth Conference on Satellite Meteorology & Oceanography                   |
| 5–10 January 1992        | Atlanta, GA            | Sixth Conference on Satellite Meteorology & Oceanography                   |
| 6–10 June 1994           | Monterey, CA           | Seventh Conference on Satellite Meteorology & Oceanography                 |
| 28 Jan.–2 Feb. 1996      | Atlanta, GA            | Eighth Conference on Satellite Meteorology & Oceanography                  |
| 25–29 May 1998           | Paris, France          | Ninth Conference on Satellite Meteorology & Oceanography                   |
| 9–14 January 2000        | Long Beach, CA         | 10th Conference on Satellite Meteorology & Oceanography                    |
| 15–18 October 2001       | Madison, WI            | 11th Conference on Satellite Meteorology & Oceanography                    |
| 9–13 February 2003       | Long Beach, CA         | 12th Conference on Satellite Meteorology & Oceanography                    |
| 20–23 September 2004     | Norfolk, VA            | 13th Conference on Satellite Meteorology & Oceanography                    |
| 29 Jan.–2 Feb. 2006      | Atlanta, GA            | 14th Conference on Satellite Meteorology & Oceanography                    |
| 24 Sept. - 28 Sept. 2007 | Amsterdam, Netherlands | 15th Conference on Satellite Meteorology & Oceanography                    |
| January 09 - 17, 2009    | Phoenix, AZ            | 16th Conference on Satellite Meteorology & Oceanography                    |
| September 27 - 30, 2010  | Annapolis, MD          | 17th Conference on Satellite Meteorology & Oceanography                    |
| January 20 - 26, 2012    | New Orleans, LA        | 18th Conference on Satellite Meteorology & Oceanography                    |
| 16–20 September 2013     | Vienna, Austria        | 19th Conference on Satellite Meteorology & Oceanography                    |
| 4–8 January 2015         | Phoenix, AZ            | 20th Conference on Satellite Meteorology & Oceanography                    |
| 15–19 August 2016        | Madison, WI            | 21st Conference on Satellite Meteorology & Oceanography                    |

## FOREWORD

### 20<sup>th</sup> Conference on Air-Sea Interaction

Welcome to the 20<sup>th</sup> Conference on Air-Sea Interaction, held in Madison, WI on August 15-19, 2016 in conjunction with the 21<sup>st</sup> Conference on Satellite Meteorology, Oceanography and Climatology. The joint conference recognizes the symbiotic relationship between satellite observations and air-sea interaction. Satellite observations play a vital role in studies of coupled air-sea interaction across a broad spectrum of spatial and temporal scales. Meanwhile, developing accurate satellite observations of geophysically relevant information relies critically on processes occurring at the air-sea interface. The frontiers of this nexus include developing accurate and consistently calibrated climate data records from satellite retrievals, developing new measurement techniques and instruments, and revealing new insights into coupled air-sea interaction phenomena which shapes Earth's climate and weather.

The 20<sup>th</sup> Conference on Air-Sea Interaction consists of 11 oral sessions and 2 poster sessions, as well as a Keynote session and 2 joint oral sessions with the 21<sup>st</sup> Conference on Satellite Meteorology, Oceanography and Climatology. Two keynote presentations, from Hisashi Nakamura (University of Tokyo) and Steven Miller (CIARA/Colorado State University) will provide a glimpse of the "state of the science" in each area.

Highlighted sessions from the Air-Sea conference include: a special session in honor of the late Ed Andreas on *Sea Surface Processes, including Waves, Spray, Bubbles, and Aerosols*; and a special session on *the Coupled Air-Sea Processes and EM Ducting Research (CASPAR) campaign*. The conference covers the full range of air-sea interaction from the small, surface gravity wave-scale to global climate phenomena such as the Madden Julian Oscillation and Annular Modes.

The American Meteorological Society's Committee on Air-Sea Interaction prioritizes training the next generation of air-sea researchers, and the Committee will again sponsor a student competition at the 20<sup>th</sup> Conference on Air-Sea Interaction. Cash prizes will be awarded for outstanding oral and poster presentations.

The Program Committee acknowledges the many productive discussions needed for coordinating the joint conferences with the Satellite Meteorology, Oceanography and Climatology Committee. We particularly thank Ken Carey for his enthusiasm in promoting the joint conference, and Jennifer Ives and the AMS staff for their invaluable assistance and patience with the organization of the conferences. Finally, the Air-Sea Interaction Committee thanks all the conference session chairs and participants for their interest and engagement in the successful series of conferences on Air-Sea Interaction.

#### **Program Committee**

L. O'Neill, Conference lead organizer  
David Richter and R. Justin Small, Conference Co-Chairs

#### **AMS Committee on Air-Sea Interaction**

R. Justin Small (Chair), Grant Deane, Larry O'Neill, Henry Potter, David Richter, Qing Wang,  
Christopher Zappa, Samantha Wills.

Also acknowledging: Magdalene Anguelova, Young-Oh Kwon

## AIR-SEA INTERACTION CONFERENCE SERIES

| DATE                  | LOCATION            | CONFERENCE                                                          |
|-----------------------|---------------------|---------------------------------------------------------------------|
| 1–3 December 1971     | Fort Lauderdale, FL | Conference on Air-Sea Interaction with the Office of Naval Research |
| 31 Jan.–2 Feb. 1972   | Fort Lauderdale, FL | Working Symposium on Sea-Sir Chemistry                              |
| 30 March–2 April 1976 | Seattle, WA         | Second Conference on Ocean-Atmosphere Interaction                   |
| 30 Jan.–1 Feb. 1980   | Los Angeles, CA     | Third Conference on Ocean-Atmosphere Interaction                    |
| 8–10 June 1982        | San Diego, CA       | Fourth Conference on Ocean-Atmosphere Interaction                   |
| 10–13 January 1984    | Miami, FL           | Fifth Conference on Ocean-Atmosphere Interaction                    |
| 13–17 January 1986    | Miami, FL           | Sixth Conference on Ocean-Atmosphere Interaction                    |
| 31 Jan.–5 Feb. 1988   | Anaheim, CA         | Seventh Conference on Ocean-Atmosphere Interaction                  |
| 28 Jan.–2 Feb. 1996   | Atlanta, GA         | Eighth Conference on Air-Sea Interaction                            |
| 11–16 January 1998    | Dallas, TX          | Ninth Conference on the Interaction of Sea and Atmosphere           |
| 28 May–2 June 2000    | Fort Lauderdale, FL | 10th Conference on the Interaction of Sea and Atmosphere            |
| 14–18 May 2001        | San Diego, CA       | 11th Conference on the Interaction of Sea and Atmosphere            |
| 9–13 February 2003    | Long Beach, CA      | 12th Conference on the Interaction of Sea and Atmosphere            |
| 9–13 August 2004      | Portland, ME        | 13th Conference on the Interaction of Sea and Atmosphere            |
| 29 Jan.–2 Feb. 2006   | Atlanta, GA         | 14th Conference on the Interaction of Sea and Atmosphere            |
| 20–24 August, 2007    | Portland, OR        | 15th Conference on Air-Sea Interaction                              |
| 11–15 Jan, 2009       | Phoenix, AZ         | 16th Conference on Air-Sea Interaction                              |
| 27 Sept–1 Oct, 2010   | Annapolis, MD       | 17th Conference on Air-Sea Interaction                              |
| 9–13 July, 2012       | Boston, MA          | 18th Conference on Air-Sea Interaction                              |
| 4–8 January 2015      | Phoenix, AZ         | 19th Conference on Air-Sea Interaction                              |
| 15–19 August 2016     | Madison, WI         | 20th Conference on Air-Sea Interaction                              |

# 21st Conference on Satellite Meteorology 20th Conference on Air-Sea Interaction

15-19 August, 2016

Monona Terrace Community and Convention Center

Madison, WI

## AMS Committee on Satellite Meteorology

Kenneth Carey (Chair), Steven Ackerman, Philip Ardanuy, Carol Clayson, Jordan Gerth, Mitchell Goldberg, George Kablick III, Xianglei Huang, Michael Johnson, Brian Kahn, Gary McWilliams, Ethan Nelson, Lars Riishojgaard, Rolf Stuhlmann, Justin Tsu, Fuzhong Weng, Song Yang, Jialong Zhang

## 21st Conference on Satellite Meteorology Program Committee

Jordan Gerth, Steven A Ackerman and Derek Posselt, Conference Co-Chairs  
Joseph Turk and Shaima Nasiri, Co-Chairs for the Student Program

## AMS Committee on Air-Sea Interaction

R. Justin Small (Chair), Grant Deane, Larry O'Neill, Henry Potter, David Richter, Qing Wang, Christopher Zappa, Samantha Wills.

## 20th Conference on Air-Sea Interaction Program Committee

L. O'Neill, Conference Lead Organizer  
David Richter and R. Justin Small, Conference Co-Chairs

### Monday, August 15

|                  |                                                   |
|------------------|---------------------------------------------------|
| 10:00–10:30 A.M. | Coffee Break–Capitol Promenade                    |
| 12:00–1:30 P.M.  | Lunch Break                                       |
| 12:00–1:30 P.M.  | Student Mixer–Community Terrace                   |
| 3:00–4:30 P.M.   | Formal Poster Viewing/Coffee Break– Grand Terrace |
| 6:00–8:00 P.M.   | Icebreaker – Community Terrace                    |

8:50 A.M.–10:00 A.M.

21SATMET / 20ASI

Joint Session I: **STATE OF THE SCIENCE KEYNOTE**  
–MADISON BALLROOM CD

**Co-Chair(s):** Steve A. Ackerman, CIMSS, Madison, WI, Larry W. O'Neill, Oregon State Univ., Corvallis, OR

**8:50 A.M.** Welcoming Remarks

**9:00 A.M.**

**J1.2** *Potential Importance of a Midlatitude SST Front for the Annular-Mode Variability: Inter-Basin Differences in the Southern Annular-Mode Signatures.* **Hisashi Nakamura**, Univ. of Tokyo, Tokyo, Japan

**9:30 A.M.**

**J1.3** *Advances in Day/Night Band Science and Applications: Making Good on Promises of the Moon.* **Steven D. Miller**, CIRA/ Colorado State Univ., Fort Collins, CO; C. Combs, W. C. Straka III, C. J. Seaman, M. Setvak, A. Heidinger, A. Walther, Y. J. Noh, J. Solbrig

10:30 A.M.–12:00 P.M.

21SATMET

**Session I: CELEBRATING THE NATION'S OPERATIONAL ENVIRONMENTAL SATELLITES: PAST, PRESENT AND FUTURE—A SPECIAL SESSION HONORING GREGORY (“GREG”) MANDT –MADISON BALLROOM CD**

**Co-Chair(s):** Steven J. Goodman, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD, Mitch Goldberg, JPSS, Lanham, MD

**10:30 A.M.**

**I.1** *The Future of NOAA Satellites: The NOAA Observing System Architecture Study (Invited Presentation).* **Karen St. Germain**, NOAA/NESDIS, Silver Spring, MD; S. M. Volz

**10:45 A.M.**

**I.2** *From LEO to GEO—A Joyful Career with Weather Satellites (Invited Presentation).* **Greg Mandt**, Greenbelt, MD

**11:00 A.M.**

**I.3** *Joint Polar Satellite System: The United States Next Generation Civilian Polar Orbiting Environmental Satellite System (Invited Presentation).* **Harry Cikanek**, JPSS, Lanham, MD; A. Mehta, M. Goldberg

**11:15 A.M.**

**I.4** *R20 with GOES: Remembering GIMPAP & GOES-R Risk Reduction (Invited Presentation).* **Paul Menzel**, Univ. of Wisconsin, Madison, WI

**11:30 A.M.**

**I.5** *Preparing for the onset of GOES-R ABI data through development and training (Invited Presentation).* **Bill Ward**, NWS, Honolulu, HI

**I.6** WITHDRAWN

10:30 A.M.–12:00 P.M.

20ASI

**Session 1: SEA SURFACE PROCESSES, INCLUDING WAVES, SPRAY, BUBBLES, AND AEROSOL (Special Session in Honor of Ed Andreas) PART I –LECTURE HALL**

**Co-Chair(s):** David H. Richter, Univ. of Notre Dame, South Bend, IN; Samantha Willis, Colorado State Univ., Fort Collins, CO

10:30 A.M.

**I.1** *Edgar L. Andreas, 1946-2015, In Remembrance.* **Edward C. Monahan**, Univ. of Connecticut, Groton, CT

11:00 A.M.

**I.2** *A Unified Air-Sea Flux Parameterization Incorporating Winds, Waves, and Sea Spray Generation.* **Christopher W. Fairall**, NOAA/ESRL/PSD, Boulder, CO; M. L. Banner, R. P. Morison

11:15 A.M.

**I.3** *Parameterizations of Whitecap Fraction: Status Update.* **Magdalena D. Anguelova**, NRL, Washington, DC

11:30 A.M.

**I.4** *Constraining Sea Spray Aerosol Productivity with Satellite Observations.* **Marcin L. Witek**, JPL, Pasadena, CA; D. J. Diner, M. Garay

11:45 A.M.

**I.5** *Impact of Droplets on Latent and Sensible Heat Flux at the Air-Sea Interface.* **Tianze Peng**, Univ. of Notre Dame, Notre Dame, IN; D. H. Richter

1:30 P.M.–3:00 P.M.

21SATMET

**Session 2: HOW SATELLITE DATA ARE BEING USED TO ADVANCE OUR UNDERSTANDING OF FUNDAMENTAL WEATHER & CLIMATE PROCESSES IN THE ATMOSPHERE, OCEANS, LAND SURFACE, & CRYOSPHERE PART I –MADISON BALLROOM CD**

**Co-Chair(s):** Philip E. Ardanuy, INNOVIM, Silver Spring, MD; Ethan L. Nelson, Univ. of Wisconsin, Madison, WI

1:30 P.M.

**2.1** *Leveraging A-Train Observations to Examine Arctic Cloud Processes in the Community Earth System Model.* **Elin A. McIlhatten**, Univ. of Wisconsin, Madison, WI; T. S. L'Ecuyer

1:45 P.M.

**2.2** *Recent Improvements and Observations of Super Rapid Scan Mesoscale Atmospheric Motion Vector Flow Fields over Deep Convection.* **Jason Apke**, Univ. of Alabama, Huntsville, AL; J. R. Mecikalski, C. P. Jewett, E. W. McCaul Jr., L. D. Carey

2:00 P.M.

**2.3** *Latent Heat Release from Warm Rain over the Global Oceans and its Connection to the Large-Scale Environment.* **Ethan L. Nelson**, Univ. of Wisconsin, Madison, WI; T. S. L'Ecuyer

2:15 P.M.

**2.4** *Observed Changes in the Morphology of TRMM Precipitation Features in the ITCZ.* **Kyle Robert Wodzicki**, Texas A&M, College Station, TX; A. D. Rapp

21SATMET (Session 2 Continued)

2:30 P.M.

**2.5** *The Influence of Tropical Convection on the Transport and Removal of Saharan Dust.* **Kathryn Sauter**, Univ. of Wisconsin, Madison, WI; T. S. L'Ecuyer

2:45 P.M.

**2.6** *Unique multispectral cloud properties of cyclones entrained with large amounts of desert dust.* **George P. Kablick**, NRL, Washington, DC; M. Fromm

1:30 P.M.–3:00 P.M.

20ASI

**Session 2: SEA SURFACE PROCESSES, INCLUDING WAVES, SPRAY, BUBBLES, AND AEROSOL (Special Session in Honor of Ed Andreas) PART II –LECTURE HALL**

**Co-Chair(s):** David H. Richter, Univ. of Notre Dame, South Bend, IN; Samantha Willis, Colorado State Univ., Fort Collins, CO

1:30 P.M.

**2.1** *Separating Wave and Ice Signatures from Shipbased Lidar and IR Thermometer.* **P. Ola G. Persson**, CIRES/Univ. of Colorado and NOAA/ESRL/Physical Sciences Division, Boulder, CO; B. W. Blomquist, C. W. Fairall

1:45 P.M.

**2.2** *Small-Scale Airflow Dynamics Above Surface Waves.* **Marc Buckley**, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany; F. Veron

2:00 P.M.

**2.3** *A kinetic model for particle-surface interaction applied to rain falling on water waves.* **Fabrice Veron**, Univ. of Delaware, Newark, DE; L. Mieussens

2:15 P.M.

**2.4** *Air-Sea Interactions in Light of New Understanding of Air-Land Interactions.* **Jielun Sun**, NCAR, Boulder, CO; J. French

2:30 P.M.

**2.5** *Laboratory Observations of Short Wave Hydrodynamic Modulation by Gravity Waves.* **Nathan J. M. Laxague**, Univ. of Miami/RSMAS, Miami, FL; B. K. Haus, M. Curcic, J. V. Bjorkvist

2:45 P.M.

**2.6** *Understanding Ocean Surges And Possible Signals Over The Nigerian Coast Using a Multi-Model Ensemble of the Sub-Seasonal to Seasonal Forecasts.* **Eniola Ajani Olaniyan**, Federal Univ. of Technology Akure, Nigeria

4:30 P.M.–5:30 P.M.

21SATMET

**Session 3: USING SATELLITE DATA TO ASSESS CONVECTION AND CONVECTIVE POTENTIAL – MADISON BALLROOM CD**

**Co-Chair(s):** Wayne Feltz, CIMSS, Madison, WI, Christopher Velden, Madison, WI

4:30 P.M.

**3.1** *Using NUCAPS Retrievals to Diagnose Pre-Convective Environments over the United States.* **John F. Dostalek**, CIRA/Colorado State Univ., Ft. Collins, CO; D.T. Lindsey, J. M. Haynes

4:45 P.M.

**3.2** *Short Range Forecasts of Convective Destabilization Using Information from the Advanced Himawari Imager.* **Robert M. Aune**, NESDIS, Madison, WI; L. M. Counce, R. A. Petersen

5:00 P.M.

**3.3** *Evaluation of Microphysics and Cumulus Parameterization Schemes in the HWRF Model Using Satellite Infrared Brightness Temperatures.* **Jason Otkin**, Univ. of Wisconsin, Madison, WI; W. E. Lewis, A. L. Lenzen, B. McNoldy, S. J. Majumdar

5:15 P.M.

**3.4** *Using Passive Microwave Imagery to Develop Objective Tropical Cyclone Structure and Intensity Analysis and Improved Near-Realtime Products.* **Joshua Cossuth**, Monterey, CA; R. L. Bankert, K. Richardson

4:30 P.M.–5:30 P.M.

20ASI

**Session 3: AIR-SEA INTERACTIONS IN HIGH WIND CONDITIONS –LECTURE HALL**

**Co-Chair(s):** Larry W. O'Neill, Oregon State Univ., Corvallis, OR, Brandon Reichl, Univ. of Rhode Island, Narragansett, RI

4:30 P.M.

**3.1** *Airborne Measurements of the Turbulence Field in the Marine Atmospheric Boundary Layer Under Strong Wind Conditions: Impact of Coherent Structures on Vertical Exchanges.* **Pierre-Etienne Brilouet**, CNRS, Toulouse, France; P. Durand, G. Canut

4:45 P.M.

**3.2** *Estimating Air-Sea Energy and Momentum Exchanges inside Tropical Cyclones Using the Fetch- and Duration-Limited Wave Growth Properties.* **Paul A. Hwang**, NRL, Washington, DC; Y. Fan

5:00 P.M.

**3.3** *Wave and Wind Direction Effects on Ocean Surface Emissivity in High Wind Conditions.* **Heather M. Holbach**, Florida State Univ., Tallahassee, FL; E.W. Uhlhorn, M.A. Bourassa, B.W. Klotz

5:15 P.M.

**3.4** *The reliability of using dropsondes for high-wind air-sea flux estimates.* **David H. Richter**, Univ. of Notre Dame, South Bend, IN; R. Bohac, D. P. Stern

**Tuesday, August 16**

10:00–10:30 A.M.

Coffee Break–Grand Terrace

12:00–1:30 P.M.

Boxed Lunches–Madison Ballroom AB

3:00–4:30 P.M.

Formal Poster Viewing/Coffee Break–Grand Terrace

8:30 A.M.–10:00 A.M.

21SATMET

**Session 4: DEVELOPMENT OF APPLICATIONS AND INNOVATIVE METHODS OF PROCESSING, COMBINING, ASSIMILATING & ANALYZING SATELLITE OBSERVATIONS OF THE LAND, OCEAN/ WATER, & ATMOSPHERE PART I –MADISON BALLROOM CD**

**Co-Chair(s):** Fuzhong Weng, NOAA/NESDIS, College Park, MD; Kenneth Carey, ERT, Inc., Laurel, MD

8:30 A.M.

**4.1** *Making Satellite Retrievals Compatible with NWP Background Fields for NWP Data Assimilation.* **William L. Smith**, Univ. of Wisconsin, Madison, WI; E. Weisz

8:45 A.M.

**4.2** *New Satellite Observations for Monitoring and Forecasting Hurricanes and Severe Storms.* **Fuzhong Weng**, NOAA/NESDIS, College Park, MD

9:00 A.M.

**4.3** *The Impact of Assimilation of GPM Clear Sky Radiance on HWRF Hurricane Track and Intensity Forecasts.* **Chau Lam Yu**, Univ. of Utah, Salt Lake City, UT; Z. Pu

9:15 A.M.

**4.4** *Implementation of a Global Dust Physical Sea Surface Temperature Retrieval For Numerical Weather Prediction Applications.* **Mayra I. Oyola**, NRL, Monterey, CA; N. R. Nalli, S. Lu, E. Joseph, V. R. Morris

9:30 A.M.

**4.5** *Assimilation of Satellite Track Wind and GNOS Bending Angle Data in Rainy Environment.* **Gang Ma**, NSMC, Beijing, China

9:45 A.M.

**4.6** *Improving Satellite Derived Rainfall Products: Bayesian Approach.* **Margaret Kimani**, Enschede, Netherlands

8:30 A.M.–10:00 A.M.

20ASI

**Session 4: AIR-SEA INTERACTION AND ITS EFFECTS ON ELECTROMAGNETIC WAVE PROPAGATION: RESULTS FROM CASPER (Coupled Air-Sea Processes & Em Ducting Research) PART I –LECTURE HALL**

**Co-Chair(s):** Qing Wang, NPS, Monterey, CA, Djamal Khelif, Univ., Irvine, CA

8:30 A.M.

**4.1** *Air-Sea Interaction Related to Characterizing Electromagnetic Wave Propagation in the Atmosphere – CASPER Science Objectives and Measurement Strategy.* **Qing Wang**, NPS, Monterey, CA; R. Burkholder, T. de Paolo, H. J. S. Fernando, T. Haack, T. Hanley, T. R. Holt, K. Horgan, H. H. Jonsson, D. Khelif, W. Nuss, T. Rogers, I. Savelyev, R. K. Shearman, L. Shen, C. Yardim

8:45 A.M.

**4.2** *Analysis of Refractive-Index Layer Observations during CASPER-East.* **H.J.S. Fernando**, Univ. of Notre Dame, Notre Dame, IN; A. J. Christman, L. S. Leo, E. Creegan, B.W. Blomquist, C.W. Fairall

9:00 A.M.

**4.3** *Marine Atmospheric Boundary Layer Profiling during the CASPER Campaign.* **A.J. Christman**, Univ. of Notre Dame, Notre Dame, IN; L. S. Leo, E. D. Creegan, Q. Wang, C. Hocut, H. J. S. Fernando, D. Grober

9:15 A.M.

**4.4** *Characteristics of Surface Layer Scalar Profiles Using In-Situ Measurements in an Undisturbed Marine Environment.* **Denny P. Alappattu**, NPS, Monterey, CA; Q. Wang, R. Yamaguchi, R. J. Lind, J. Kalogiros, R. B. Rainer

9:30 A.M.

**4.5** *Air-Sea/Land Interaction in Coastal Zone during CASPER-2015.* **Andrey A. Grachev**, Univ. of Colorado CIRES/NOAA/ESRL, Boulder, CO; L. S. Leo, H. J. S. Fernando, C.W. Fairall, B.W. Blomquist, C. M. Hocut

9:45 A.M.

**4.6** *Air-sea exchange influence on boundary layer moisture and atmospheric refraction.* **Tracy Haack**, NRL, Monterey, CA; Q. Wang

10:30 A.M.–12:00 P.M.

21SATMET

**Session 5: JPSS –MADISON BALLROOM CD**

**Co-Chair(s):** Mitch Goldberg, JPSS, Lanham, MD, Andrew Heidinger, NOAA, Madison, WI

10:30 A.M.

**5.1** *Society Benefiting from a Global Constellation of Polar-orbiting Satellites.* **Mitchell Goldberg**, JPSS, Lanham, MD; F. Kogan, I. Csiszar, S. Kondragunta, C. Elvidge

10:45 A.M.

**5.2** *Preparing for VIIRS Imagery from JPSS-1.* **Donald W. Hillger**, NOAA/NESDIS, Fort Collins, CO; T. J. Kopp, S. D. Miller, C. J. Seaman, J. Torres, D. T. Lindsey

21SATMET (Session 5: continued)

11:00 A.M.

**5.3** *Consistency of reflected moonlight based nighttime cloud properties and precipitation product with its daytime equivalent.* **Andi Walther**, CIMSS, Madison, WI; S. D. Miller, A. Heidinger

11:15 A.M.

**5.4** *Hyper-spectral Infrared Sensor CrIS Sensor Data Record Long-term Radiometric and Spectral Accuracy and Stability.* **Yong Chen**, ESSIC/Univ. of Maryland, College Park, MD; Y. Han, F. Weng

11:30 A.M.

**5.5** *Estimation of Tropical Cyclone Intensity Using the CIMSS ATMS Tropical Cyclone Intensity Algorithm.* **Derrick Herndon**, CIMSS, Madison, WI; C. S. Velden

5.6 WITHDRAWN

11:45 A.M.

**5.6A** *Integration, Monitoring and Applications of the NOAA Operational VIIRS Active Fire Product.* **Marina Tsidulko**, IMSG, College Park, MD; I. A. Csiszar, L. Giglio, W. Schroeder

10:30 A.M.–12:00 P.M.

20ASI

**Session 5: AIR-SEA INTERACTION AND ITS EFFECTS ON ELECTROMAGNETIC WAVE PROPAGATION: RESULTS FROM CASPER (Coupled Air-Sea Processes & EM Ducting Research) PART II –LECTURE HALL**

**Co-Chair(s):** Joe Fernando, Arizona State Univ., Tempe, AZ, Lian Shen, Univ. of Minnesota, Minneapolis, MN

10:30 A.M.

**5.1** *Turbulence Measurements with the Controlled Towed Vehicle and its tow Aircraft during CASPER East.* **Djamal Khelif**, Univ. of California, Irvine, CA; J. Barge, R. T. Yamaguchi, H. Jonsson, Q. Wang

10:45 A.M.

**5.2** *Flux Buoy, Ship Turbulence Measurements and Wind-Wave Coupling in the Atmospheric Wave Boundary Layer.* **John Kalogiros**, National Observatory of Athens, Athens, Greece; Q. Wang, R. Yamaguchi, R. J. Lind, P. Portalakis, M. Tombrou, A. De Paolo

11:00 A.M.

**5.3** *LES of Stratified Marine Atmospheric Boundary Layer over Waves.* **Tao Cao**, Univ. of Minnesota, Minneapolis, MN; L. Shen

11:15 A.M.

**5.4** *Numerical Investigation of the Impact of Sea Spray Droplets on Air-Sea Boundary Layer.* **Lian Shen**, Univ. of Minnesota, Minneapolis, MN; C. Liu, S. Tang, Y. Dong

11:30 A.M.

**5.5** *Observations of the Fall Breakdown of Stratification on the Mid Atlantic Bight Shelf.* **R. Kipp Shearman**, Oregon State Univ., Corvallis, OR; Q. Wang, H. J. S. Fernando, I. Lozovsky, A. Sanchez, A. J. Christman, S. Pierce

11:45 A.M.

**5.6** *Mixing on the Carolina Shelf and at the Gulf Stream Front near the Shelf Break during 2015 CASPER East.* **Iossif Lozovsky**, Univ. of Notre Dame, Notre Dame, IN; J. Planella, H. J. S. Fernando, R. K. Shearman, A. Sanchez, Q. Wang

12:30 P.M.–1:30 P.M.

21SATMET / 20ASI

Town Hall Meeting : **MICROSATELLITES AND NANOSATELLITES –MADISON BALLROOM CD**

**Moderator:** Christopher Velden, Madison, WI

1:30 P.M.–3:00 P.M.

21SATMET

**Session 6: POTENTIAL OF NEW GENERATION SATELLITE SYSTEMS TO IMPROVE WEATHER, CLIMATE, & OTHER ENVIRONMENTAL DATA PRODUCTS; ENHANCE USER APPLICATION & SERVICES, & CONTRIBUTE TO BLENDED & FUSED SATELLITE DATASETS PART I –MADISON BALLROOM CD**

**Co-Chair(s):** Song Yang, NRL, Monterey, CA, Christopher Velden, Madison, WI

1:30 P.M.

**6.1** *Environmental Information in Every Decision.* **Philip E. Ardanuy**, INNOVIM, Greenbelt, MD; D. S. Green, G. Komar, S. Marley, P. P. Neill, C. Schueler

1:45 P.M.

**6.2** *Absolute Radiance Interferometer (ARI) for the CLARREO Pathfinder: Overview and Status (Part-1).* **Henry. E. Revercomb**, Univ. of Wisconsin, Madison, WI; F. A. Best, J. K. Taylor, P. J. Gero, D. C. Tobin, R. O. Knuteson, D. Adler, C. Pettersen, M. Mulligan, J. Wong, M. Schwarz, D. Thielman

2:00 P.M.

**6.3** *Absolute Radiance Interferometer (ARI) for the CLARREO Pathfinder: On-Orbit Verification and Test (Part-2).* **Fred A. Best**, Univ. of Wisconsin, Madison, WI; H. E. Revercomb, J. K. Taylor, P. J. Gero, D. Adler, C. Pettersen, R. O. Knuteson, D. Tobin, J. Wong, M. Schwarz, D. Thielman, M. Mulligan, J. A. Dykema

2:15 P.M.

**6.4** *Measuring Earth's Radiation Imbalance using Cubesat Constellations.* **William D. Collins**, LBNL, Berkeley, CA; D. Feldman, S. Lorentz, L. Dyrud, T. J. Immel

2:30 P.M.

**6.5** *The TROPICS smallsat tropical cyclone mission: High temporal resolution microwave imagery as part of NASA's third Earth Venture-Instrument (EVI-3) program.* **William J. Blackwell**, MIT, Lexington, MA; S. A. Braun, R. Bennartz, C. S. Velden, M. DeMaria, R. Atlas, J. P. Dunion, F. D. Marks Jr., R. Rogers

2:45 P.M.

**6.6** *Impact Analysis of LEO Hyperspectral Sensor IFOV size on the next generation high-resolution NWP model forecast performance.* **Agnes Lim**, CIMSS/Univ. of Wisconsin, Madison, WI; Z. Li, J. A. Jung, H. L. Huang, J. Woollen, F. W. Nagle, G. Quinn, S. B. Healy, J. Otkin, M. Goldberg, R. Atlas

1:30 P.M.–3:00 P.M.

20ASI

**Session 6: SURFACE WAVE EFFECTS ON TURBULENCE AND AIR-SEA INTERACTION, FROM SMALL TO CLIMATE SCALE –LECTURE HALL**

**Co-Chair(s):** Christopher J. Zappa, Columbia Univ., Palisades, NY, Marc Buckley, Helmholtz-Zentrum Geesthacht, Germany

1:30 P.M.

**6.1** *Impact of sea-state dependent Langmuir turbulence on the ocean response to tropical cyclones.* **Brandon Reichl**, Princeton Univ., Princeton, NJ; I. Ginis, T. Hara, D. Wang, T. Kukulka

1:45 P.M.

**6.2** *Simulation of air-sea interaction in a turbulent opposing wind.* **Xianyun Wen**, Univ. of Leeds, Leeds, UK

2:00 P.M.

**6.3** *Impact of Surface Waves on Atmospheric/Ocean Numerical Model Simulations.* **Lichuan Wu**, Uppsala Univ., Uppsala, Sweden; A. Rutgersson, E. Sahlée

2:15 P.M.

**6.4** *Large Eddy Simulation of Momentum and Scalar Transport in Turbulent Flow Over Resolved Laboratory Breakers.* **Peter P. Sullivan**, NCAR, Boulder, CO; M. L. Banner, R. P. Morison, W. L. Peirson

2:30 P.M.

**6.5** *Laboratory measurements of the inception and evolution of centimeter-scale Langmuir Turbulence.* **Fabrice Veron**, Univ. of Delaware, Newark, DE; Y. Ma, M. Buckley, A. Tejada-Martinez, A. Hafsi

2:45 P.M.

**6.6** *On the variation of the effective breaking strength in oceanic sea states.* **Christopher J. Zappa**, Columbia Univ., Palisades, NY; M. L. Banner, R. P. Morison, S. E. Brumer

4:30 P.M.–5:30 P.M.

21SATMET / 20ASI

**Joint Session 2: SATELLITE MEASUREMENTS OF AIR-SEA INTERACTION PROCESSES –MADISON BALLROOM CD**

**Chair(s):** Marie C. Colton, Silver Spring, MD

4:30 P.M.

**J2.1** *Difference Between Ocean Surface Wind and Stress Variability.* **W. Timothy Liu**, JPL, Pasadena, CA; X. Xie

4:45 P.M.

**J2.2** *The Salinity Processes in the Upper Ocean Regional Study-2 (SPURS-2) Mission, Observing the Effects of Precipitation on the Salinity Structure.* **Aaron Paget**, Univ. of Connecticut, Groton, CT; J. B. Edson, C. A. Clayson

5:00 P.M.

**J2.3** *Postfrontal Convective Snow: A Local to Global Observational Perspective.* **Mark S. Kulie**, Univ. of Wisconsin, Madison, WI; C. Pettersen, J. Lenters

5:15 P.M.

**J2.4** *Passive microwave remote sensing of surface turbulent fluxes: the role of clouds and statistics.* **J. Brent Roberts**, NASA/MSFC, Huntsville, AL; C. A. Clayson, C. B. Blankenship

**20ASI****Poster Session I: AIR-SEA POSTERS –GRAND TERRACE**

- 1**      *A Numerical Study of Urban Heat Island Characteristics and Local Circulation in Hong Kong Using a Multilayer Urban Parameterization.* **Yi Wang**, Univ. of Hong Kong, Hong Kong, Hong Kong; S. Di Sabatino, A. Martilli, Y. Li, P.W. Chan
- 2**      WITHDRAWN
- 3**      *Mesoscale Air-Sea interaction in coastal oceans.* **Yuntao Wang**, Univ. of Georgia, Athens, GA
- 4**      *Empirical Model for Sea Spray Production.* **Michael H. Bettenhausen**, NRL, Washington, DC; J. Prytherch, M. D. Anguelova, I. M. Brooks, S. J. Norris, I. B. Savelyev, M. J. Yelland, R. W. Pascal, D. J. Salisbury
- 5**      *Eurasia-North Pacific Oscillation in Atmospheric Mass Variations Independent of AO and Its Links to Winter Climate Anomalies.* **Qian Zhang**, Nanjing Univ., Nanjing, China; Z. Guan
- 6**      *Mechanistic Analysis of the Suppressed Convective Anomaly Precursor Associated with the Initiation of Primary MJO Events over the Tropical Indian Ocean.* **Jiangyu Mao**, IAP, Beijing, China
- 7**      *Changes of the Moisture Budget over the Southeast Tibetan Plateau and its influences on the precipitation of China in Summer.* **Yuanfa GONG**, Chengdu Univ., Chengdu, China
- 8**      *Spatial Patterns and Intensity of the Winter Surface Storm Tracks in the CESM, GFDL and GISS CMIP5 Models.* **Young-Oh Kwon**, WHOI, Woods Hole, MA; J. Booth, R. J. Small, S. Ko, R. Msadek
- 9**      *The Intraseasonal Oscillations and Submonthly Wave Patterns over the Western North Pacific.* **Ken-Chung Ko**, National Kaohsiung Normal Univ., Kaohsiung, Taiwan; J. H. Liu
- 10**     *Impact of SST Resolution on Numerical Sea Breezes over Complex Coastal Regions.* **Kelly Lombardo**, Univ. of Connecticut, Groton, CT; E. Sinsky, J. B. Edson, M. Whitney
- 11**     *SeaFlux-CDR: Developing a multi-platform remotely sensed turbulent flux climate data record.* **J. Brent Roberts**, NASA/MSFC, Huntsville, AL; C. A. Clayson, J. Brown
- 12**     *Development of a 28-Year (1987-2014) Climatology of Single and Multi-sensor Satellite-based Retrievals of Near-surface Humidity and Temperature.* **Darren L. Jackson**, CIRES/Univ. of Colorado, Boulder, CO; G.A. Wick
- 13**     *lake-atmosphere feedbacks in a coupled regional climate model over the Great Lakes.* **Xinyu Ye**, Michigan Technological Univ., Houghton, MI; P. Xue
- 14**     *Refractive Conditions under different mesoscale flow regimes during CASPER-East Field Campaign.* **Marcela Ulate**, NPS, Monterey, CA; Q. Wang, T. Haack, T. Holt
- 15**     *The Great Lakes Evaporation Network (GLEN): Building an Integrated Observing System for Great Lakes Flux Measurements.* **John Lenters**, LimnoTech, Ann Arbor, MI; P. D. Blanken, C. Spence

**20ASI (Poster Session I Continued)**

- 16**     *Observations of the Interaction Between a Storm and the North Pacific Warm Anomaly, aka The Blob.* **Briana Phillips**, Oregon State Univ., Corvallis, OR; L.W. O'Neill
- 17**     *Addition of Langmuir Turbulence in a Hierarchy of Vertical Mixing Parameterizations for Ocean Climate Modeling.* **Brandon Reichl**, Princeton Univ., Princeton, NJ; S. Griffies, A. Adcroft, R. Hallberg
- 18**     *Autonomous Wave Glider – New Type of Measurement Platform for Air-Sea Interaction Research.* **Ryan Yamaguchi**, NPS, Monterey, CA; R. J. Lind, Q. Wang, J. Kalogiros
- 19**     *Uncertainty in Radar Performance Due to Evaporation Ducting.* **Eric P. Hassey**, MIT, Lexington, MA; H. Iskenderian, R. W. Havener, E. Anesta
- 20**     *Airborne observations of Langmuir turbulence during CASPER experiment.* **Ivan Savelyev**, NRL, Washington, DC
- 21**     *Obtaining Accurate Sea Surface Skin Temperature from Multiple Data Sources during the CASPER-East Field Campaign.* **Denny P. Alappattu**, NPS, Monterey, CA; Q. Wang, R. Yamaguchi, R. J. Lind, R. M. Reynolds, J. Kalogiros, A. J. Christman
- 22**     *New Concept of Oceanic Overturning Circulation and the Role of Water Vapor in Maintaining Atmospheric Meridional Circulation.* **Wei Huang**, Houston, TX

**21SATMET****Poster Session I: MONDAY/TUESDAY SATELLITE METEOROLOGY POSTER SESSION –GRAND TERRACE**

- 23**     *NOAA Operational Satellite Derived Oceanic Heat Content Products.* **Eileen Maturi**, NOAA/NESDIS, College Park, MD
- 24**     *Regional and Semi-Global Distribution of Albedo and Absorbed Solar Radiation at the Top of Atmosphere.* **Maksim Yu. Chervikov**, Saratov State Univ., Saratov, Russian Federation; A. I. Kotuma, M. B. Bogdanov
- 25**     *Geostationary satellite-based 6.7  $\mu\text{m}$  band best water vapor information layer analysis over the Tibetan Plateau.* **Yufei Ai**, CIMSS/SSEC, Univ. of Wisconsin, Madison, WI; D. Di, J. Li, W. Shi, N. Lu
- 26**     *Deep Convective Cloud Identifications from both Broadband and Hyperspectral Infrared Measurements.* **Yufei Ai**, CIMSS/SSEC, Univ. of Wisconsin, Madison, WI; W. Shi, J. Li
- 27**     *Refining the CLARREO Mission By Correlating Ozone and Temperature Profiles With IASA Five-Year Variances Infrared Brightness Temperature Spectra.* **Ester Nikolla**, CIMSS, Madison, WI; R. Knuteson, M. Feltz, H. E. Revercomb
- 28**     *Impact of satellite radiance observations in high resolution data assimilation systems.* **Joel Bedard**, EC, Dorval, QC, Canada; M. Buehner, J. F. Caron
- 29**     *Satellite retrieval of convective thermals and updraft speeds at cloud base.* **Youtong Zheng**, Univ. of Maryland, College Park, MD; D. Rosenfeld, Z. Li

## 21SATMET (Poster Session I Continued)

- 30** NOAA's Joint Polar Satellite System's Proving Ground and Risk Reduction (PGRR) Program—PGRR Projects Ready to Aid in Responding to Current and Future Severe Environmental Events. **Bill Sjoberg**, NESDIS/JPSS, Lanham, MD; D. M. Goldberg
- 31** Near Real-Time Earth Radiation Budgets using the FLASH CERES Data. **David P. Kratz**, NASA, Hampton, VA; P. Stackhouse Jr., P. K. Sawaengphokhai, S. K. Gupta, A. C. Wilber
- 32** Effect Analysis of ATMS and CrIS Data Assimilation for Weather Element Forecasts over Tibetan Plateau. **Tong Xue**, NUIST, Nanjing, China; Z. Guan, J. Xu, M. Shao
- 33** Impact of Enhanced Atmospheric Motion Vectors on Forecasts of Rapid Intensification of Hurricane Gonzalo with HWRF. **Shixuan Zhang**, Univ. of Utah, Salt Lake City, UT; Z. Pu, C. S. Velden
- 34** NOAA's Joint Polar Satellite System's (JPSS) Proving Ground and Risk Reduction (PGRR) Program—JPSS Products Being Used to Address NOAA's Weather, Ocean and Climate Challenges. **Bill Sjoberg**, NESDIS/JPSS, Lanham, MD; D. M. Goldberg
- 35** GeolPS: Next Generation Satellite Data Processing Capability at NRL. **Mindy Surratt**, NRL, Monterey, CA; K. Richardson, J. Cossuth, A. P. Kuciauskas, R. Bankert
- 36** The Effect of Cloud Type on Earth's Energy Balance. **Yun Hang**, Univ. of Wisconsin, Madison, WI; T. S. L'Ecuier
- 37** CrIMSS Temperature and Water Vapor Retrieval Validation Using ARM Site Atmospheric State Best Estimates and GPS RO COSMIC. **Lori A. Borg**, CIMSS, Madison, WI; M. L. Feltz, D. C. tobin, R. O. Knuteson, T. Reale, D. J. Holdridge, J. H. Mather, Q. Liu
- 38** CrIS Cloud clearing using VIIRS and application to Hurricane forecast. **Xinya Gong**, IAP, Beijing, China; Z. Li, J. Li, P. Wang, H. Liu, A. Collard, M. Goldberg
- 39** Detection and Inventory of Intense Pyroconvection in Western North America using GOES-15 Daytime Infrared Data. **David A. Peterson**, NRL, Monterey, CA; J. Solbrig, E. Hyer, M. Fromm, M. Surratt, J. R. Campbell
- 40** Towards Continuity in Cloud Top Height from MODIS to the Joint Polar Satellite System (JPSS) Polar-Orbiting Sensors. **Bryan A. Baum**, Univ. of Wisconsin, Madison, WI; P. Menzel, A. Heidinger, I. Gladkova
- 41** Polar2Grid: Reprojecting Satellite Data Made Easy. **David Hoese**, CIMSS, Madison, WI; K. Strabala
- 42** Deriving CERES fluxes from geostationary radiances. **Forrest J. Wrenn**, SSAI, Hampton, VA; D. R. Doelling, L. T. C. Nguyen, R. Rajalekshmy
- 43** Joint Polar Satellite System (JPSS) Data Products—End-to-End Product Lifecycle. **Arron Layns**, JPSS, Lanham, MD
- 44** African Dust Property Retrieval and Cloud Detection from Hyperspectral Infrared Radiances using Optimal Estimation. **Walter R. Sessions**, CIMSS, Madison, WI; R. Holz, J. S. Reid

## 21SATMET (Poster Session I Continued)

- 45** Uniqueness of JPSS products for NWS decision support activities. **Jorel Torres**, CIRA/CSU, Fort Collins, CO; B. H. Connell, S. D. Miller
- 47** Aqua and Terra Direct Broadcast Processing at CIMSS/SSEC Using a Merged Pass System. **Jessica Braun**, CIMSS, Madison, WI; L. Gumley, K. Strabala, B. M. Flynn, M. Rogal
- 48** The VIIRS Fast Radiative Transfer Model (VFRTM). **Aronne Merrelli**, Univ. of Wisconsin, Madison, WI; B. Baum, P. Yang, Y. Ding
- 49** Client-side Data Processing and Training for Multispectral Imagery Applications in the GOES-R Era. **Kevin K. Fuell**, Univ. of Alabama, Huntsville, AL; C. M. Gravelle, J. E. Burks, E. Berndt, L. A. Schultz, A. L. Molthan, A. LeRoy
- 50** Intercomparison of Cloud Heights for AMV Generation. **Steve Wanzong**, CIMSS, Madison, WI; A. Heidinger, R. Borde, P. Watts, J. Daniels, W. Bresky
- 51** JPSS-1, CSPP SDR and ADL Block 2. **Scott Mindock**, SSEC/CIMSS, Madison, WI; K. Strabala, G. Martin, R. Garcia, L. Gumley, G. Cureton
- 52** Can we observe the atmosphere by street lamps? Examining the potential for use of anthropogenic light emissions in atmospheric retrievals. **Jeremy E. Solbrig**, CIRA, Fort Collins, CO; S. D. Miller, J. Zhang, T. M. McHardy
- 53** Performance of the NOAA Enterprise AWG Cloud Height Algorithm in Multi-layer Scenes. **Andrew Heidinger**, STAR, Madison, WI; Y. Li, S. Wanzong
- 54** A Multi-format Client-agnostic Server for Satellite Data. **Jerrold O. Robaidek**, CIMSS/Univ. of Wisconsin, Madison, WI; D. Santek, D. Parker, C. Suplinski, R. A. Kohrs
- 55** Enterprise Solutions for Joint Polar Satellite System (JPSS) Science Products Algorithms and Calibration/Validation. **Lihang Zhou**, NOAA STAR, College Park, AL
- 56** An Operational Algorithm for the Retrieval of Water Quality Parameters in the Great Lakes from Satellite Data. **George Leshkevich**, NOAA/GLERL, Ann Arbor, MI; R. A. Shuchman, M. Sayers, R. Sawtel
- 57** Exploring the Scattering Signal of GMI's 166GHz Channel. **Samantha A. Tushaus**, SSEC, Madison, WI; M. S. Kulie, G. W. Petty
- 58** Joint Polar Satellite System Environmental Satellite Processing Center Data Products. **Bonnie Reed**, NESDIS, Suitland, MD; T. Schott, S. L. Bunin, A. Layns
- 59** The Documentation and Investigation of Pyrocumulonimbus Events. **Annastasia V Sienko**, Univ. of Wisconsin, Madison, WI; S. Bachmeier, B. Baum
- 60** Uncertainties in Satellite Passive Microwave Observations of Cloud Liquid Water Path. **Tom Greenwald**, Univ. of Wisconsin, Madison, WI; R. Bennartz, M. Lebsock, C. O'Dell

## 21SATMET (Poster Session I Continued)

- 61** *Polar Satellite Composite Imagery: A Useful Tool from Operations to Research.* **David E. Mikolajczyk**, AMRC/Univ. of Wisconsin, Madison, WI; M.A. Lazzara, R.A. Kohrs, J. Key, L. M. Keller, J. Nettesheim, M. Tsukernik
- 62** *The assimilation of layer precipitable water and the impacts on weather forecasting in a regional NWP model.* **Pei Wang**, CIMSS/Univ. of Wisconsin, Madison, WI; J. Li, Y. K. Lee, Z. Li, J. Li, Z. Liu, T. J. Schmit, S. Ackerman
- 63** *Reprocessing the “Top Ten” Most Intense Historical Tropical Cyclones in the Satellite Era Using the Advanced Dvorak Technique.* **Christopher S. Velden**, CIMSS, Madison, WI; T. L. Olander, D. C. Herndon, J. P. Kossin
- 64** *Life Cycle of Deep Convection Observed from Satellite and Represented in NICAM.* **Toshiro Inoue**, Univ. of Tokyo, Kashiwa, Japan
- 65** *Using Satellites to Measure Temperature Trends on the Greenland Ice Sheet.* **Genevieve M. Burgess**, CIMSS/Univ. of Wisconsin, Madison, WI; R. Knuteson, E. Borbas
- 66** *Clouds & The Earths Radiant Energy System (CERES) Synoptic (SYN1deg) Data Product Validation Using Buoys & Ship Borne Radiometers.* **David A. Rutan**, SSAI, Hampton, VA; D. R. Doelling, F. G. Rose, S. Kato
- 67** *Climate Impacts of African Biomass Burning Aerosols.* **Alexander Matus**, Univ. of Wisconsin, Madison, WI; T. S. L’Ecuyer
- 68** *Investigation of Favorable Atmospheric Conditions for PyroCb (Pyrocumulonimbus) Events using Cross-track Infrared Sounder (CrIS) Measurements and Retrieval Products.* **Rebecca E Schultz**, CIMSS, Madison, WI; B. A. Baum, E. Weisz
- 69** *Sensitivity analysis of a novel hyper-spectral infrared cloud and atmosphere property retrieval based on an optimal estimation framework.* **Paolo Veglio**, CIMSS/Univ. of Wisconsin, Madison, WI; R. E. Holz
- 70** *Using PATMOS-x product for studying waves in the equatorial region.* **Yue Li**, CIMSS, Madison, WI; A. Heidinger, M. J. Foster, J. Nielsen
- 71** *Quantifying the Indirect Effect in Warm Marine Stratocumulus.* **Alyson Rose Douglas**, Univ. of Wisconsin, Madison, WI
- 72** *CSPP CLAVR-x.* **Nick Bearson**, Univ. of Wisconsin, Madison, WI; A. Heidinger
- 73** *Investigating Precipitation and Aerosols Over Southeast Asia Using a Collocated CloudSat-CALIOP-MODIS-NAAPS Dataset.* **Alexa Ross**, CIMSS, Madison, WI
- 74** *Cloud Mask Performance Comparison.* **Denis Botambekov**, CIMSS, Madison, WI; A. Walther, A. Heidinger
- 75** *A Quantitative Analysis of Satellite-Observable Storm Top Features.* **Kai-Yuan Cheng**, Univ. of Wisconsin, Madison, WI; P. K. Wang

## Wednesday, August 17

|                  |                                                  |
|------------------|--------------------------------------------------|
| 10:00–10:30 A.M. | Coffee Break—Grand Terrace                       |
| 12:00–1:30 P.M.  | Boxed Lunches—Madison Ballroom AB                |
| 3:00–4:30 P.M.   | Formal Poster Viewing/Coffee Break—Grand Terrace |

8:30 A.M.—10:00 A.M.

### 21SATMET

#### Session 7: DEVELOPMENT OF APPLICATIONS & INNOVATIVE METHODS PART II —MADISON BALLROOM CD

**Co-Chair(s):** Fuzhong Weng, NOAA/NESDIS, Kenneth Carey, ERT Inc., Laurel, MD

8:30 A.M.

**7.1** *RealEarth: Real-time Access to Global Satellite Data and Derived Products.* **David A. Santek**, Univ. of Wisconsin, Madison, WI; D. Parker, R. Dengel, S. Batzli, N. Bearson, T. Jasmin

8:45 A.M.

**7.2** *Advancements in Morphological Compositing of Polar-Orbiting Satellite Imagery.* **Anthony Wimmers**, CIMSS/Univ. of Wisconsin, Madison, WI; C. Velden, A. Heidinger

9:00 A.M.

**7.3** *Assessing the Information Content of AIRS and MODIS Radiances for Retrieving Ice Cloud Properties.* **Kai-Wei Chang**, Univ. of Wisconsin, Madison, WI; T. S. L’Ecuyer, B. H. Kahn, V. Natraj

9:15 A.M.

**7.4** *Bayesian Retrievals of Vertically Resolved Cloud Particle Size Distribution Properties.* **Derek J. Posselt**, Univ. of Michigan, Ann Arbor, MI; G. G. Mace, J. Kessler

9:30 A.M.

**7.5** *Exploring Detection of Multilayer Clouds and Retrieval of Their Properties Using Multispectral Satellite Data in an Artificial Neural Network Approach.* **Patrick Minnis**, LRC, Hampton, VA; G. Hong, S. Sun-Mack, W. L. Smith, Jr., Y. Chen

9:45 A.M.

**7.6** *Satellite dual-frequency millimeter-wave radar retrieval algorithm.* **Mircea Grecu**, Morgan State Univ., Greenbelt, MD; L. Tian, G. M. Heymsfield

8:30 A.M.—10:00 A.M.

### 20ASI

#### Session 7: EXTRA-TROPICAL AIR-SEA INTERACTION: LINKAGES BETWEEN ANNULAR MODES, WESTERN BOUNDARY CURRENTS, AND STORM TRACKS PART I —LECTURE HALL

**Co-Chair(s):** Young-Oh Kwon, WHOI, Woods Hole, MA, Samantha Willis, Colorado State Univ., Fort Collins, CO

**8:30 A.M.**

**7.1** *Testing Dynamics of the Atmospheric Response to the Ocean Mesoscale.* **Niklas Schneider**, Univ. of Hawaii, Honolulu, HI; M. Nonaka, B. Taguchi, H. Nakamura, R. J. Small, A. Kuwano-Yoshida

**8:45 A.M.**

**7.2** *Atmospheric Response to a Midlatitude SST Front: Along-front Winds.* **Thomas J. Kilpatrick**, SIO, La Jolla, CA; N. Schneider, B. Qiu

**9:00 A.M.**

**7.3** *Effects of Extreme Weather Events on Time-Mean Wind and Derivative Wind Fields.* **Larry W. O'Neill**, Oregon State Univ., Corvallis, OR; T. Haack, E. D. Skillingstad

**9:15 A.M.**

**7.4** *Interannual Modulations of Mesoscale Imprints of the Kuroshio Extension and Oyashio Fronts on the Wintertime Atmospheric Boundary Layer.* **Ryusuke Masunaga**, Univ. of Tokyo, Tokyo, Japan; H. Nakamura, T. Miyasaka, K. Nishii, B. Qiu

**9:30 A.M.**

**7.5** *Controlling Influence of Ocean Mesoscale Eddy – Atmosphere Feedback on the Kuroshio Extension Jet.* **Xiaohui Ma**, Texas A&M Univ., College Station, TX; Z. Jing, P. Chang, X. Liu, R. Montuoro, R. J. Small, F. O. Bryan, R. J. Greatbatch, P. Brandt, D. Wu, X. Lin, L. Wu

**9:45 A.M.**

**7.6** *Low-cloud Transitions across the Kuroshio Front in the East China Sea.* **Jing-Wu Liu**, Ocean Univ., Qingdao, China

**10:30 A.M. – 12:00 P.M.**

**21SATMET**

**Session 8: GOES-R PART I –MADISON BALLROOM CD**

**Co-Chair(s):** Steven J. Goodman, Greenbelt, MD, Timothy J. Schmit, NOAA, Madison, WI

**10:30 A.M.**

**8.1** *The GOES-R Post Launch Test Field Campaign.* **Steven J. Goodman**, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD; F. P. Padula

**10:45 A.M.**

**8.2** *Getting Ready for the Advanced Baseline Imager (ABI) on the GOES-R series.* **Timothy J. Schmit**, NOAA/NESDIS/Center for Satellite Applications and Research, Madison, WI; M. M. Gunshor, R. B. Pierce, J. J. Gerth, S. S. Lindstrom, J. M. Daniels, S. J. Goodman

**11:00 A.M.**

**8.3** *Himawari-8 ABI Proves “Instrumental” in Preparations for Enhanced GOES-R ABI Imagery Applications.* **Steven D. Miller**, CIRA/Colorado State Univ., Fort Collins, CO; D. T. Lindsey, C. J. Seaman, T. J. Schmit, M. M. Gunshor, D. W. Hillger, Y. Sumida, L. D. Grasso

**21SATMET (Session 8 continued)**

**11:15 A.M.**

**8.4** *Wildfire Detection Notifications for Impact-based Decision Support Services in Oklahoma Using Geostationary Super Rapid Scan Satellite Imagery.* **Vivek N. Mahale**, NOAA/NWS, Norman, OK; W. Line, T. T. Lindley, A. Anderson, S. Curl

**11:30 A.M.**

**8.5** *Preparing the End User Community for the GOES-R Geostationary Lightning Mapper.* **Geoffrey T. Stano**, ENSCO, Inc. / NASA SPoRT, Huntsville, AL; J. E. Burks, K. M. McGrath

**11:45 A.M.**

**8.6** *Asynchronous Assimilation of High Temporal Infrared Imaging for Wind Profile Retrieval – A Pilot Study.* **Allen Huang**, CIMSS, Madison, WI; A. Lim, S. Wu

**10:30 A.M. – 12:00 P.M.**

**20ASI**

**Session 8: EXTRA-TROPICAL AIR-SEA INTERACTION: LINKAGES BETWEEN ANNULAR MODES, WESTERN BOUNDARY CURRENTS, & STORM TRACKS PART II –LECTURE HALL**

**Co-Chair(s):** Young-Oh Kwon, WHOI, Woods Hole, MA, Samantha Willis, Colorado State Univ., Fort Collins, CO

**10:30 A.M.**

**8.1** *Atmospheric variability related to ocean features—dependence on time and space scale.* **Richard Small**; F. Bryan, S. Bishop, R. Tomas

**10:45 A.M.**

**8.2** *On the Observed Relationships between Variability in Gulf Stream Sea Surface Temperatures and the Atmospheric Circulation over the North Atlantic.* **Samantha M. Wills**, Colorado State Univ., Fort Collins, CO; D. W. J. Thompson, L. M. Ciasto

**11:00 A.M.**

**8.3** *Nonlinear North Atlantic atmospheric response to meridional shift of the Gulf Stream path.* **Hyodae Seo**, WHOI, Woods Hole, MA; Y. O. Kwon, T. M. Joyce, C. C. Ummerhofer

**11:15 A.M.**

**8.4** *Atmospheric Drivers of the Variability and Extreme Surface Turbulent Heat Fluxes Over the North Atlantic in Winter.* **Natalia Tilinina**, Institute of Oceanology, Moscow, Russian Federation; S. Gulev

**11:30 A.M.**

**8.5** *In situ measurements of ocean-atmosphere heat fluxes in high latitudes of the South Atlantic and Southern Ocean.* **Ronald B. Souza**, INPE, Santa Maria, Brazil; L. P. Pezzi, M. F. Santini

**8.6** **WITHDRAWN**

**12:30 P.M. – 1:30 P.M.**

**21SATMET / 20ASI**

**Town Hall : EVOLUTION OF THE UNITED STATES SATELLITE-BASED OBSERVATIONS –MADISON BALLROOM CD**

**Moderator:** Steve Ackerman, CIMSS/Univ. of Wisconsin, Madison, WI

**1:30 P.M.–3:00 P.M.**

**21SATMET**

**Session 9: POTENTIAL OF NEW GENERATION SATELLITE SYSTEMS PART II –MADISON BALLROOM CD**

**Co-Chair(s):** Song Yang, NRL, Monterey, CA, Jun Li, CIMSS/ Univ. of Wisconsin, Madison, WI

**1:30 P.M.**

**9.1** *The ABI-Based Combined Sounder/Imager (CSI).* **Ronald J. Glumb**, Harris Corporation, Fort Wayne, IN; P. C. Griffith, P. Mantica, D. Jordan

**1:45 P.M.**

**9.2** *The Importance of Satellite-based Predictors in the NOAA/ CIMSS ProbSevere Model.* **Justin Sieglaff**, CIMSS/Univ. of Wisconsin, Madison, WI; M. J. Pavolonis, J. L. Cintineo

**2:00 P.M.**

**9.3** *Volcanic Cloud Identification, Tracking, and Characterization with Next Generation Satellites.* **Michael J. Pavolonis**, NOAA/ NESDIS, Madison, WI; J. Sieglaff, J. L. Cintineo

**2:15 P.M.**

**9.4** *Satellite Data Applications for Oceanic Aviation Weather.* **Haig Iskenderian**, MIT, Lexington, MA; M. S. Veillette, C. J. Mattioli, P. M. Lamey, E. P. Hassey, J. R. Mecikalski, G. T. Stano, R. Bass

**2:30 P.M.**

**9.5** *Addressing Forecast Challenges at the Satellite Proving Ground for Marine, Precipitation, and Satellite Analysis.* **Michael J. Folmer**, CICS, College Park, MD; J. D. Clark, J. M. Sienkiewicz, A. Orrison, M. Klein, J. A. Nelson Jr., J. Kibler, N. A. Ramos, H. D. Cobb III, M. DeMaria, E. Berndt, M. D. Goldberg, S. J. Goodman

**2:45 P.M.**

**9.6** *The success story of Himawari-8: Does R2O really mean “Risks to Overcome”?* **Jordan J. Gerth**, CIMSS, Madison, WI; B. Ward

**2:00 P.M.–3:00 P.M.**

**20ASI**

**Session 9: TROPICAL AIR-SEA INTERACTION – LECTURE HALL**

**Chair:** Justin Small, Boulder, CO

**9.1** WITHDRAWN

**2:15 P.M.**

**9.2** *Coupled atmosphere and ocean boundary layer variability in the suppressed phase of the Madden-Julian Oscillation.* **J. Brent Roberts**, NASA/MSFC, Huntsville, AL; F. R. Robertson, C. A. Clayson, P. Taylor

**2:30 P.M.**

**9.3** *The Role of Mesoscale Sea-Surface Temperature Variability in Organizing Tropical Convection.* **Eric D. Skyllingstad**, Oregon State Univ., Corvallis, OR; L. W. O'Neill

**2:45 P.M.**

**9.4** *Diversified Effects of Air-Sea Interaction on Shaping the Madden-Julian Oscillation in Nature and Models.* **Joshua Xiouhua Fu**, Univ. of Hawaii, Honolulu, HI; W. Wang, T. Shinoda

**4:30 P.M.–5:30 P.M.**

**21SATMET / 20ASI**

**Joint Session 3: CYCLONE GLOBAL NAVIGATION SATELLITE SYSTEM –MADISON BALLROOM CD**

**Chair(s):** Derek J. Posselt, Univ. of Michigan, Ann Arbor, MI

**4:30 P.M.**

**J3.1** *CYGNSS Tropical Cyclone Wind Structure Science Data Products.* **Mary Morris**, Univ. of Michigan, Ann Arbor, MI; C. S. Ruf

**4:45 P.M.**

**J3.2** *Tropical Cyclone Diurnal Cycle Property From Satellite Passive Microwave Observations.* **Song Yang**, NRL, Monterey, CA; J. Cossuth, K. Richardson, R. Bankert

**5:00 P.M.**

**J3.3** *Impact of CYGNSS Data on Hurricane Analyses and Forecast in Regional OSSEs with HWRF Model.* **Zhaoxia Pu**, Univ. of Utah, Salt Lake City, UT; S. Zhang

**5:15 P.M.**

**J3.4** *Exploring the use of CYGNSS for Surface Flux Estimation in Extratropical Cyclones.* **Juan A. Crespo**, Univ. of Michigan, Ann Arbor, MI; D. J. Posselt

## Thursday, August 18

|                  |                                                  |
|------------------|--------------------------------------------------|
| 10:00–10:30 A.M. | Coffee Break—Grand Terrace                       |
| 12:00–1:30 P.M.  | Luncheon—Madison Ballroom AB                     |
| 12:00 P.M.       | 20 Air-Sea Adjourns                              |
| 3:00–4:30 P.M.   | Formal Poster Viewing/Coffee Break—Grand Terrace |

8:30 A.M.–10:00 A.M.

### 21SATMET

#### Session 10: HOW SATELLITE DATA ARE BEING USED PART II —MADISON BALLROOM CD

**Co-Chair(s):** Philip E. Ardanuy, INNOVIM, Silver Spring, MD, Ethan L. Nelson, Univ. of Wisconsin, Madison, WI

#### 10.1 WITHDRAWN

8:30 A.M.

**10.1A** *Analysis Of Severe Convective Storms Using Super-Rapid Scan Satellite Imager, Dual-Polarization Radar, And Total Lightning Observations In Preparation For GOES-R.* **Kristopher Bedka**, LRC, Hampton, VA; C. R. Homeyer, J. R. Mecikalski, B. Scarino, T. Sandmael, J. Apke, C. P. Jewett

8:45 A.M.

**10.2** *Dust-infused Baroclinic Cyclone Storm Clouds: the Evidence, Meteorology, and Implications.* **Michael D. Fromm**, NRL, Washington, DC; G. P. Kablick III, P. F. Caffrey

9:00 A.M.

**10.3** *Interactions of South Pacific Tropical Cyclones Pam and Winston with Underlying Warm Ocean Features.* **Jodi K. Brewster**, RSMAS, Miami, FL; L. K. Shay

9:15 A.M.

**10.4** *New Products and Perspectives from the Global Precipitation Measurement (GPM) Mission.* **Christian Kummerow**, Colorado State Univ., Fort Collins, CO; D. Randel

9:30 A.M.

**10.5** *Passive microwave and visible/near infrared retrievals of boundary layer cloud physical properties.* **Ralf Bennartz**, Vanderbilt Univ., Nashville, TN

9:45 A.M.

**10.6** *Using A-Train Observations to Study Cloud Processes in Frontal Regions.* **Derek J. Posselt**, Univ. of Michigan, Ann Arbor, MI; C. Naud, S. van den Heever

8:30 A.M.–10:00 A.M.

### 20ASI

#### Session 10: AIR-SEA INTERACTION AT HIGH LATITUDES —LECTURE HALL

**Co-Chair(s):** David H. Richter, Univ. of Notre Dame, South Bend, IN, Larry W. O'Neill, Oregon State Univ., Corvallis, OR

8:30 A.M.

**10.1** *In Situ Measurements of Surface Turbulent Exchange Over Arctic Sea Ice: Results from the ACSE Campaign.* **Dominic J. Salisbury**, Univ. of Leeds, Leeds, UK; I. M. Brooks, J. Prytherch, B. I. Moat, B. J. Brooks, J. Sedlar, G. Sotiropoulou, M. Tjernstrom, P. O. G. Persson, M. Shupe, P. Achtert

8:45 A.M.

**10.2** *The Influence of Winter Cloud on Summer Sea Ice in the Arctic, 1983-2013.* **Aaron Letterly**, CIMSS, Madison, WI; J. Key, Y. Liu

9:00 A.M.

**10.3** *Scenario changes of Atlantic water in the Arctic Ocean.* **William Perrie**, OESD, Dartmouth, NS, Canada; Z. Long

9:15 A.M.

**10.4** *Surface Energy Fluxes During Arctic Freeze-Up.* **P. Ola G. Persson**, CIRES/Univ. of Colorado and NOAA/ESRL/PSD, Boulder, CO; B.W. Blomquist, P. S. Guest, C.W. Fairall, I. M. Brooks, J. Sedlar, J. Prytherch, D. J. Salisbury, G. Bjork, S. Stammerjohn, G. Sotiropoulou, M. Tjernstrom, J. Inoue

9:30 A.M.

**10.5** *The Variability of Drag Coefficients over the Polar Oceans Caused by Sea Ice Morphology and Atmospheric Stability.* **Christof Lüpkes**, AWI, Bremerhaven, Germany; V. M. Gryanik

9:45 A.M.

**10.6** *Comparing Mass, Momentum and Air-Sea CO<sub>2</sub> Fluxes for the North Atlantic and the European Arctic Using Different Parametrizations Dependent on Wind Speed.* **Iwona Honorata Wrobel**, Institute of Oceanology Polish Academy of Sciences, Sopot, Poland; J. Piskozub

10:30 A.M.–12:00 P.M.

### 21SATMET

#### Session 11: RESEARCH AND OPERATIONAL SATELLITE DATA APPLICATIONS FOR WEATHER, OCEAN, AND CLIMATE MONITORING AND FORECASTING PART I —MADISON BALLROOM CD

**Co-Chair(s):** Jordan J. Gerth, CIMSS, Madison, WI, Timothy J. Schmit, NOAA, Madison, WI

10:30 A.M.

**11.1** *Visualizing multi-spectral satellite imagery in different color spaces.* **Jordan J. Gerth**, CIMSS, Madison, WI; T. J. Schmit

10:45 A.M.

**11.2** *Operational Techniques for Oil Detection on the Ocean's Surface with Satellite Imagery.* **William D. Boll**, NOAA, College Park, MD

11:00 A.M.

**11.3** *Accounting for cloud vertical structure to improve parameterizations and applications for passive satellite cloud parameters.* **William L. Smith**, NASA, Hampton, VA; P. Minnis, C. Wang, D.A. Spangenberg, S. Sun-Mack, Y. Chen

## 21SATMET (Session 11 Continued)

11:15 A.M.

11.4 *Regime Dependence of Precipitating Cloud Radiative efficiencies using CloudSat/CALIPSO.* **Anita D. Rapp**, Texas A&M Univ., College Station, TX; L. Sun, T. S. L'Ecuyer

11:30 A.M.

11.5 *An Empirical Relationship between Water Vapor and Precipitation using Satellite Observations for Near-Real Time Forecasting Applications.* **Shane Hubbard**, CIMSS/Univ. of Wisconsin, Madison, WI; J. A. Roman, R. O. Knuteson, S. Ackerman, H. Revercomb

11:45 A.M.

11.6 *El Nino Impact on the Earth's Radiation Budget: A Satellite Analysis.* **Parnchai K. Sawaengphokhai**, SSAI, Hampton, VA; P. W. Stackhouse, D. P. Kratz, S. K. Gupta, A. C. Wilber

10:30 A.M.–12:00 P.M.

20ASI

**Session 11: THE ROLE OF AIR-SEA INTERACTION IN CLIMATE VARIABILITY & CHANGE –LECTURE HALL**

**Co-Chair(s):** Young-Oh Kwon, WHOI, Woods Hole, MA, Justin Small, Boulder, CO

10:30 A.M.

11.1 *Impact of the Madden-Julian Oscillation on Air-Sea CO<sub>2</sub> Fluxes.* **Charlotte A. DeMott**, Colorado State Univ., Fort Collins, CO; A. S. Denning, S. Doney, I. Lima, C. Roedenbeck

10:45 A.M.

11.2 *Interdecadal Variability of El Niño Onset and Impact on Monsoon Systems over Areas Encircling the Pacific Ocean.* **Jianjun Xu**, George Mason Univ., Fairfax, VA; J. Cai

11:00 A.M.

11.3 *North Atlantic Blocking Variability and Role of the Atlantic Multidecadal Oscillation.* **Young-Oh Kwon**, WHOI, Woods Hole, MA; H. Seo, C. C. Ummenhofer, T. M. Joyce

11:15 A.M.

11.4 *Impacts of Midlatitude Oceanic Fronts on the Atmosphere as Revealed in a New Japanese Atmospheric Reanalysis.* **Hisashi Nakamura**, Univ. of Tokyo, Tokyo, Japan

11:30 A.M.

11.5 *Influence of the Summer NAO on the Spring-NAO-based Predictability of the East Asian Summer Monsoon.* **Fei Zheng**, IAP, Beijing, China

11:45 A.M.

11.6 *Responses of the Tropical Atmospheric Circulation to Climate Change and Connection to the Hydrological Cycle.* **Jian Ma**, Shanghai Ocean Univ., Shanghai, China

12:30 P.M.–1:30 P.M.

21SATMET / 20ASI

**Town Hall: USER READINESS FOR NEW-GENERATION SATELLITES –MADISON BALLROOM CD**

**Moderator:** Bill Ward, NWS, Honolulu, HI

1:30 P.M.–3:00 P.M.

21SATMET

**Session 12: RESEARCH AND OPERATIONAL SATELLITE DATA APPLICATIONS FOR WEATHER, OCEAN, AND CLIMATE MONITORING AND FORECASTING PART II –MADISON BALLROOM CD**

**Co-Chair(s):** Jordan J. Gerth, CIMSS, Madison, WI, James J. Gurka, NOAA, Greenbelt, MD

1:30 P.M.

12.1 *Satellite Remote Sensing of Snowfall.* **Guosheng Liu**, Florida State Univ., Tallahassee, FL

1:45 P.M.

12.2 *Sea Ice Thickness from Satellite Data and Its Recent Trends in Polar Regions.* **Xuanji Wang**, CIMSS, Madison, WI; J. Key

2:00 P.M.

12.3 *Measurement of Ocean Surface Wind by AMSR2 on GCOM-W1.* **Naoto Ebuchi**, Hokkaido Univ., Sapporo, Japan

2:15 P.M.

12.4 *Results from GOES-R and JPSS Proving Ground Demonstrations at the HWT 2016 Spring Experiment.* **William Line**, OU/CIMMS and NOAA/NWS/SPC, Norman, OK

2:30 P.M.

12.5 *Development of a Coupled GOES-R Legacy Sounding NearCast with Convective Initiation Products to Improve Convective Weather Nowcasts.* **Lee M. Cronicc**, CIMSS, Madison, WI; R. A. Petersen, J. R. Mecikalski, C. P. Jewett

2:45 P.M.

12.6 *Nowcasting 0–2 hour Storm Intensity within the GOES-R Convective Initiation modeling Framework.* **John R. Mecikalski**, Univ. of Alabama, Huntsville, AL; C. P. Jewett, J. Apke

4:30 P.M.–5:30 P.M.

21SATMET

**Session 13: OTHER TOPICS IN SATELLITE METEOROLOGY –MADISON BALLROOM CD**

**Co-Chair(s):** Derek J. Posselt, Univ. of Michigan, Ann Arbor, MI, Brian H. Kahn, JPL, Pasadena, CA

4:30 P.M.

13.1 *Advancing Littoral Zone Aerosol Prediction via Holistic Studies in Regime-Dependent Flows.* **Jeremy Solbrig**, CIRA, Fort Collins, CO; S. D. Miller, J. Zhang, M. Oo, R. E. Holz, J. Wang, T. M. McHardy

4:45 P.M.

13.2 *Examining the Constellation of Scatterometers and Radiometers for Diurnal and Sub-Diurnal Wind Vector Variability.* **F. Joseph Turk**, JPL, Pasadena, CA; S. Hristova-Veleva

5:00 P.M.

13.3 *Frequency and Distribution of Winter Melt Events from Passive Microwave Satellite Data in the pan-Arctic, 1988–2013.* **Libo Wang**, Environment and Climate Change, Toronto, ON, Canada; P. Toose, R. Brown, C. Derksen

5:15 P.M.

13.4 *Characterizing Arctic Sea Ice Leads from Space.* **Jay P. Hoffman**, CIMSS/Univ. of Wisconsin, Madison, WI; S. Ackerman, Y. Liu, J. Key

## 21SATMET

### Poster Session 2: WEDNESDAY/THURSDAY SATELLITE METEOROLOGY POSTER SESSION – GRAND TERRACE

- 76** *Global Broadband Infrared Surface Emissivity Computed from Combined ASTER and MODIS Emissivity over Land (CAMEL).* **Michelle Feltz**, CIMSS, Madison, WI; E. Borbas, R. Knuteson, G. Hulley, S. Hook
- 77** *Preparing for GOES-R: Data Distribution Paths and Plans.* **Kathryn W. Miretzky**, Science and Technology Corp., Greenbelt, MD; W. M. MacKenzie Jr., M. Seybold, E. J. McMichael, J. Fulbright
- 78** *A Climatology of the Precipitation over the Southern Ocean based on the Surface and Satellite Observations.* **Zhan Wang**, Melbourne, Australia; S. T. Siems, D. Belusic, M. J. Manton, Y. Huang
- 79** *ISCCP H-Series data production at NCEI: Updating the iconic ISCCP data.* **Alisa Holley Young**, NCEI, Boulder, CO; W. B. Rossow, K. R. Knapp, W. Hankins, A. K. Inamdar
- 80** *Comparative Impact Of Ocean Surface Wind Vectors and Ocean Surface Wind Speed for Global NWP.* **Justin Tsu**, NRL, Monterey, CA; N. L. Baker, S. D. Swadley
- 81** *ABI Band Fact Sheets for User Readiness.* **Bill Ward**, NWS, Honolulu, HI; T. Schmit, J. Gerth
- 82** *Latest Improvements of ATMS TDR/SDR Sciences and Algorithms for Reprocessing.* **Hu Yang**, Univ. of Maryland, College Park, MD; F. Weng
- 83** *Calibration of Historical Visible Geostationary Data for ISCCP and Other Applications.* **Anand K. Inamdar**, North Carolina State Univ., Asheville, NC; K. R. Knapp, A. H. Young, W. Hankins, W. B. Rossow
- 84** *A Method For Calculating The Height Of Overshooting Convective Cloud Tops Using Satellite-Based IR Imager and CloudSat Cloud Profiling Radar Observations.* **Sarah M. Griffin**, CIMSS/Univ. of Wisconsin, Madison, WI; K. M. Bedka, C. S. Velden
- 85** *Visualizing Cold Air Aloft with Radio Occultation and Hyperspectral Infrared Sounders: Investigating Aviation Safety Purposes.* **Michelle Feltz**, CIMSS, Madison, WI; R. Knuteson, J. M. Feltz, S. Ackerman, W. Feltz, D. Hoese, K. Strabala, N. Smith, E. Weisz
- 86** *Identification of Hazardous Weather for Offshore Forecasting.* **Patrick C. Meyers**, Univ. of Maryland, College Park, MD; S. Rudlosky, R. Ferraro, M. J. Pavolonis, J. L. Cintineo, N. Y. Wang
- 87** *Reprocessing GOES GVAR Data.* **Kenneth R. Knapp**, NOAA/NCEI, Asheville, NC; J. L. Matthews
- 88** *GOES-R Training Plan for NOAA National Weather Service (NWS) Forecasters.* **LeRoy Spayd**, NOAA/NWS, Silver Spring, MD

## 21SATMET (Poster Session 2: Continued)

- 89** *CIRA's current and future contributions to the GOES-R Proving Ground as we approach the launch of GOES-R.* **Ed Szoke**, NOAA/ESRL/GSD and CIRA, Boulder, CO; D. Bikos, R. Brummer, H. Gosden, S. D. Miller, D. W. Hillger, B. H. Connell, D. A. Molenar, C. J. Seaman, D. T. Lindsey
- 90** *Suomi-NPP VIIRS Recalibration in the Reflective Solar Bands and Day Night Band.* **Taeyoung Choi**, NOAA, College Park, MD; C. Cao, N. Sun, F. Weng
- 91** *GOES-R End-to-End Readiness at the Univ. of Wisconsin - Madison Space Science and Engineering Center Data Center.* **Richard A. Kohrs**, CIMMS, Madison, WI; J. O. Robaidek, D. Forrest
- 92** *GOES-R ABI Post-Launch Calibration and Validation.* **Boryana Efremova**, NESDIS, College Park, MD; X. Wu, C. Cao, F. Yu, F. P. Padula, V. Kondratovich, R. A. Iacovazzi Jr., A. J. Pearlman, X. Shao, R. Datla, H. Yoo, L. Zhu
- 93** *The UW-CIMSS Advanced Dvorak Technique (ADT).* **Timothy L. Olander**, CIMSS/Univ. of Wisconsin, Madison, WI; C. S. Velden
- 94** *Assimilation and Forecast Impact of Combined-Platform Leo/Geo AMVs in the GDAS/GFS.* **Brett T. Hoover**, CIMSS, Madison, WI; D. Santek, M. M. Madsen
- 95** *Using the HIRS Data to Record More than Three Decades of Global Cloud and Moisture Properties.* **Eva Borbas**, CIMSS, Madison, WI; W. P. Menzel, R. A. Frey, B. A. Baum, G. Cureton, N. Bearson
- 96** *Advances in Suomi NPP ATMS SDR Life Cycle Reprocessing.* **Ninghai Sun**, NOAA/NESDIS/STAR/SMCD, College Park, MD; F. Weng, W. Chen
- 97** *Relationship Between Latent Heating and Tropical Cyclone Warm Core Structure Analyzed Using Satellite-based Products.* **Ryo Oyama**, MRI, Tsukuba, Ibaraki, Japan
- 98** *Using GOES Brightness Temperatures to Assess the Accuracy of Short-Range Forecasts from the High-Resolution Rapid Refresh (HRRR) Model.* **Jason Otkin**, Univ. of Wisconsin, Madison, WI; S. M. Griffin, C. M. Rozoff, J. Sieglaff, L. Counce, C. R. Alexander
- 99** *Development and Optimization of Mesoscale Atmospheric Motion Vectors Using Novel GOES-R Processing Algorithms on 1-5 Minute SRSO Proxy Data, and Demonstration of Readiness for GOES-R Applications via Impact Studies in Mesoscale/Hurricane Data Assimilation and NWP Systems.* **Dave Stettner**, CIMSS, Madison, WI; C. Velden, W. E. Lewis, W. Bresky, J. Daniels, S. Wanzong
- 100** *SUOMI-NPP OMPS SDR Reprocessing for NADIR Sensors.* **Ding Liang**, SMCD, College Park, MD; F. Weng, C. Pan, N. Sun
- 101** *Coherent Cloudiness Variability from the Mountains to the Sea in the Western U.S.* **Edwin Sumargo**, SIO, San Diego, CA; D. R. Cayan

## 21SATMET (Poster Session 2: Continued)

**102** *SIFT: Satellite Information Familiarization Tool.* **David Hoese**, CIMSS, Madison, WI; R. K. Garcia, J. J. Gerth, K. Strabala, S. Lindstrom

**103** *Sensitivity of Longwave Fluxes to Clouds and Meteorology: Establishing Uncertainties for GEWEX SRB Longwave Release 4.* **J. Colleen Mikovitz**, SSAI, Hampton, VA; P. Stackhouse Jr., S. K. Gupta, S. J. Cox, T. Zhang

**104** *Helping Prepare Users for the GOES-R Series.* **Mathew M. Gunshor**, CIMSS, Madison, WI; T. J. Schmit, J. J. Gerth, S. S. Lindstrom, C. Schmidt, K. I. Strabala, A. S. Bachmeier

**105** *Evaluation of cloud properties in RCA4 CORDEX Africa ensemble.* **Arun Rana**, SMHI, Norrköping, Sweden; A. Devasthale, G. Nikulin, U. Willén

**106** *Assessing Calibration Improvements for the Clouds and the Earth's Radiant Energy System (CERES) Instrument.* **Natividad M. Smith**, SSAI, Hampton, VA; N. Loeb, K. J. Priestley, S. Thomas, D. R. Walikainen, M. Shankar, Z. P. Szewczyk

**107** *SSEC SDI GRB Appliance - Easy GOES-R Data.* **Scott Mindock**, SSEC /CIMSS, Madison, WI; D. Santek, D. Parker, N. Bearson, R. Dengel

**108** *Recent Updates to the Community Satellite Processing Package (CSPP) for three NOAA Operational Algorithms.* **James E. Davies**, CIMSS, Madison, WI; K. Strabala, L. Gumley, A. Huang, C. Grassotti, X. Zhan, C. D. Barnett, A. Gambacorta, T. King, J. Stroup

**109** *Applying Satellite Aerosol Retrievals for Lightning Prediction in Northern Alabama.* **Tong Ren**, Texas A&M Univ., College Station, TX; A. D. Rapp, J. R. Mecikalski, J. Apke, L. D. Carey, S. L. Nasiri

**110** *ISCCP Data QC and Processing: Transitioning Production Between Institutions.* **William Hankins**, NCEI, Laurel, MD; K. R. Knapp, A. H. Young, A. K. Inamdar, W. B. Rossow

**111** *Using Infrared Hyperspectral Measurements to Analyze Tropical Cyclone Ioke.* **Youri Plokhenko**, CIMSS, Madison, WI; R. Knuteson, W. P. Menzel, H. E. Revercomb

**112** *A Look on the S-NPP CrIS Life Cycle Data Reprocessing.* **Miao Tian**, Earth Resources Technology Inc., College Park, MD; N. Sun, W. Chen, Y. Han, F. Weng

**113** *GOES-R Imagery: Readiness and Quality Assurance.* **James P. Nelson**, CIMSS, Madison, WI; J. M. Feltz, K. Bah, M. M. Gunshor, T. J. Schmit

**114** *Product Updates to International MODIS/AIRS Processing Package (IMAPP) and Transition to JPSS.* **James E. Davies**, CIMSS, Madison, WI; K. Strabala, N. Smith, E. Weisz, R. M. Cintineo, E. Schiffer, R. B. Pierce, A. Huang, D. Hoese, D. Parker, M. J. Pavlonis, C. Calvert, G. Martin

**115** *GPM Snowfall Retrievals: Information Gained from Day 1 GPROF Empirical Databases.* **Marian E. Mateling**, Univ. of Wisconsin, Madison, WI; M. S. Kulie, T. S. L'Ecuyer

## 21SATMET (Poster Session 2: Continued)

**116** *Challenges & Opportunities for Using GOES R+ Lightning Mapper Data in NWS.* **Brian C. Motta**, NWS, Boulder, CO; P. Roohr, M. Elliott, J. Jordan, B. Meier, S. J. Goodman, S. D. Rudlosky, W. Line, D. Melendez

**117** *You Used Polar Orbiter Direct Broadcast Data for What?* **Kathleen I. Strabala**, CIMSS/Univ. of Wisconsin, Madison, WI; L. Gumley, J. Davies, S. Mindock, D. Hoese, R. Garcia, G. Martin, G. Cureton, N. A. Bearson, B. Pierce, E. Weisz, J. Braun, H. L. Huang

**118** *Enhancing Weather Monitoring and Forecasting with Polar-orbiting High Spectral Resolution Infrared Sounders.* **Elisabeth Weisz**, Univ. of Wisconsin, Madison, WI; W. L. Smith Sr., R. E. Schultz, K. Strabala, A. Huang

**119** *Using Polar-Orbiting Satellites to Monitor the Upper Atmosphere for Cold Air Pockets that are Potentially Dangerous to Passenger Aircraft.* **John F. Dostalek**, CIRA/Colorado State Univ., Ft. Collins, CO; J. Torres, S. D. Miller, R. Brummer

**120** *CSPP GEO Quick-looks - Verifying data and More.* **Scott Mindock**, SSEC /CIMSS, Madison, WI; G. Martin, R. Garcia, K. I. Strabala, N. A. Bearson, G. Cureton

**121** *CSPP Geo GRB: GOES-R Rebroadcast Reconstruction for Everyone.* **Tommy Jasmin**, Univ. of Wisconsin, Madison, WI; N. Bearson, S. Mindock, J. Braun, G. Martin

**122** *Satellite User Readiness through Training: VISIT, SHyMet, WMO VLab and a Liaison.* **Bernadette H. Connell**, CIRA/Colorado State Univ., Ft. Collins, CO; D. Bikos, E. Szoke, S. Bachmeier, S. Lindstrom, A. Mostek, B. C. Motta, L. Veeck, J. Torres

**123** *Routine Validation of the GOES-R Multi-Satellite Processing System Framework.* **William Straka**, CIMSS/Univ. of Wisconsin, Madison, WI; W. Wolf, S. Sampson, R. Garcia, G. Quinn, G. Martin, A. Li, M. Fan, R. Rollins, J. M. Daniels, E. Schiffer

**124** *Himawari Support In The CSPP-GEO Direct Broadcast Package.* **Geoff Cureton**, Univ. of Wisconsin, Madison, WI; S. Mindock, G. Martin, N. Bearson, J. Braun

**125** *Finding Fires: The Next Generation.* **Christopher C. Schmidt**, CIMSS, Madison, WI

**126** *A Prototype Method for Diagnosing High Ice Water Content in Near-Real-Time Using Passive Satellite Imagery.* **Christopher R. Yost**, SSAI, Hampton, VA; P. Minnis, K. Bedka, L. Nguyen, R. Palikonda, D. Spangenberg

**127** *An Extension of the Python SHARPPy GUI to Display NASA AIRS Satellite Sounding Profiles and CAPE in Near-Real Time.* **Grace Przybyl**, CIMSS, Madison, WI, WI; R. Knuteson, J. M. Gartzke, K. T. Halbert, W. G. Blumberg

## Friday, August 19

10:00–10:30 A.M. Coffee Break–Grand Terrace

12:00 P.M. 21 SatMet Adjourns

8:30 A.M.–10:00 A.M.

21 SATMET

Session 14: **GOES-R PART II** –MADISON BALLROOM CD

**Co-Chair(s):** James J. Gurka, NOAA, Greenbelt, MD, Wayne F Feltz, CIMSS/Univ. of Wisconsin, Madison, WI

8:30 A.M.

**14.1** CSPP Geo Support for Direct Broadcast. **Graeme Martin**, CIMSS, Madison, WI; L. Gumley, N. Bearson, J. Braun, G. Cureton, R. K. Garcia, T. Jasmin, S. Mindock, K. Strabala

8:45 A.M.

**14.2** GOES-R ABI and Himawari-8 AHI Training using SIFT. **Scott S. Lindstrom**, CIMSS/Univ. of Wisconsin, Madison, WI; R. K. Garcia, D. Hoese, J. J. Gerth, K. I. Strabala, T. J. Schmit, B. Ward

9:00 A.M.

**14.3** Preparing to Exploit GOES-R and JPSS: A Guide to Using Education and Training Resources from COMET. **Wendy Schreiber-Abshire**, COMET, Boulder, CO; P. Dills

9:15 A.M.

**14.4** Preparing for GOES-R: Supporting User Readiness of Level 2+ Products. **Wayne M. MacKenzie**, NOAA/NESDIS, Greenbelt, MD; M. Seybold, K. Miretzky, E. J. McMichael, J. Fulbright

9:30 A.M.

**14.5A** Access to GOES-R Satellite Data and Products with McIDAS. **David A. Santek**, Univ. of Wisconsin, Madison, WI; R. Dengel, B. Schaffer

9:45 A.M.

**14.6** Manifestation of Obstacle-like Effect of Severe Thunderstorms in Satellite Storm Images. **Pao K. Wang**, Univ. of Wisconsin, Madison, WI; K. Y. Cheng

10:30 A.M.–12:00 P.M.

21 SATMET

Session 15: **SATELLITE DATA REPROCESSING & IMPACTS OF THE REPROCESSED DATA ON WEATHER & CLIMATE APPLICATIONS**– MADISON BALLROOM CD

**Co-Chair(s):** Steve A. Ackerman, CIMSS, Madison, WI, Brian H. Kahn, JPL, Pasadena, CA

10:30 A.M.

**15.1** JPSS Life-Cycle Data Reprocessing for Advancing Weather and Climate Applications. **Fuzhong Weng**, NOAA, College Park, MD; L. Zhou, K. Carey

10:45 A.M.

**15.2** MODIS-Derived Value-Added Climatology of Maritime Cloud Liquid Water Path Conserving Solar Reflectance, Collection 5 & Collection 6. **Amanda R. Gumber**, SSEC, Madison, WI; M. J. Foster

11:00 A.M.

**15.3** Reprocessing the AVHRR and HIRS Records to Generate a New PATMOS-x Cloud Climatology. **Michael J. Foster**, CIMSS, Madison, WI; A. K. Heidinger

11:15 A.M.

**15.4** Improvements in the Atmospheric Infrared Sounder (AIRS) Ice Cloud Property and Cloud Thermodynamic Phase Retrievals. **Brian H. Kahn**, JPL, Pasadena, CA

**15.5** WITHDRAWN

11:45 A.M.

**15.6** Developing a Long-Term TRMM/GPM Global Precipitation Dataset Based on the Latest Advances in GPM Algorithm Development and Sensor Intercalibration. **Wesley Berg**, Colorado State Univ., Fort Collins, CO; C. D. Kummerow

## CONFERENCE ADJOURNS

# Monday, 15 August 2016

|       | 20 Air-Sea Interaction                                                                                                         | 21 Satellite Meteorology                                                                                                                                                             |
|-------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Lecture Hall                                                                                                                   | Madison Ballroom CD                                                                                                                                                                  |
| 7:30  | <b>REGISTRATION OPENS</b>                                                                                                      |                                                                                                                                                                                      |
|       |                                                                                                                                | <b>J1: State of the Science Keynote</b>                                                                                                                                              |
| 8:45  |                                                                                                                                | Welcoming Remarks                                                                                                                                                                    |
| 9:00  |                                                                                                                                | J1.2 Nakamura, H.                                                                                                                                                                    |
| 9:30  |                                                                                                                                | J1.3 Miller, S. D.                                                                                                                                                                   |
| 10:00 | <b>COFFEE BREAK (CAPITOL PROMENADE)</b>                                                                                        |                                                                                                                                                                                      |
|       | <b>1: Sea Surface Processes, Including Waves, Spray, Bubbles, and Aerosol (Special Session in Honor of Ed Andreas) Part I</b>  | <b>1: Celebrating the Nation's Operational Environmental Satellites: Past, Present and Future—A Special Session Honoring Gregory ("Greg") Mandt</b>                                  |
| 10:30 | 1.1 Monahan, E. C.                                                                                                             | 1.1 St. Germain, K.                                                                                                                                                                  |
| 10:45 |                                                                                                                                | 1.2 Mandt, G.                                                                                                                                                                        |
| 11:00 | 1.2 Fairall, C. W.                                                                                                             | 1.3 Cikanek, H.                                                                                                                                                                      |
| 11:15 | 1.3 Anguelova, M. D.                                                                                                           | 1.4 Menzel, P.                                                                                                                                                                       |
| 11:30 | 1.4 Witek, M. L.                                                                                                               | 1.5 Ward, B.                                                                                                                                                                         |
| 11:45 | 1.5 Peng, T.                                                                                                                   |                                                                                                                                                                                      |
| 12:00 | <b>LUNCH BREAK</b>                                                                                                             |                                                                                                                                                                                      |
|       | <b>2: Sea Surface Processes, Including Waves, Spray, Bubbles, and Aerosol (Special Session in Honor of Ed Andreas) Part II</b> | <b>2: How Satellite Data Are Being Used to Advance Our Understanding of Fundamental Weather and Climate Processes in the Atmosphere, Oceans, Land Surface, and Cryosphere Part I</b> |
| 1:30  | 2.1 Persson, P. O. G.                                                                                                          | 2.1 McIlhatten, E. A.                                                                                                                                                                |
| 1:45  | 2.2 Buckley, M.                                                                                                                | 2.2 Apke, J.                                                                                                                                                                         |
| 2:00  | 2.3 Veron, F.                                                                                                                  | 2.3 Nelson, E. L.                                                                                                                                                                    |
| 2:15  | 2.4 Sun, J.                                                                                                                    | 2.4 Wodzicki, K. R.                                                                                                                                                                  |
| 2:30  | 2.5 Laxague, N. J. M.                                                                                                          | 2.5 Sauter, K.                                                                                                                                                                       |
| 2:45  | 2.6 Olaniyan, E. A.                                                                                                            | 2.6 Kablick, G. P. III                                                                                                                                                               |
| 3:00  | <b>FORMAL POSTER VIEWING WITH COFFEE BREAK (GRAND TERRACE)</b>                                                                 |                                                                                                                                                                                      |
|       | <b>3: Air-Sea Interactions in High Wind Conditions</b>                                                                         | <b>3: Using Satellite Data to Assess Convection and Convective Potential</b>                                                                                                         |
| 4:30  | 3.1 Brilouet, P. E.                                                                                                            | 3.1 Dostalek, J. F.                                                                                                                                                                  |
| 4:45  | 3.2 Hwang, P. A.                                                                                                               | 3.2 Aune, R. M.                                                                                                                                                                      |
| 5:00  | 3.3 Holbach, H. M.                                                                                                             | 3.3 Otkin, J.                                                                                                                                                                        |
| 5:15  | 3.4 Richter, D. H.                                                                                                             | 3.4 Cossuth, J.                                                                                                                                                                      |
| 6:00  | <b>ICEBREAKER RECEPTION (COMMUNITY TERRACE)</b>                                                                                |                                                                                                                                                                                      |
| 8:00  | <b>CONFERENCE ADJOURNS FOR THE DAY</b>                                                                                         |                                                                                                                                                                                      |

| Tuesday, 16 August 2016 |                                                                                                                                                                    |                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | 20 Air-Sea Interaction                                                                                                                                             | 21 Satellite Meteorology                                                                                                                                                                                                         |
|                         | Lecture Hall                                                                                                                                                       | Madison Ballroom CD                                                                                                                                                                                                              |
| 7:30                    | REGISTRATION OPENS                                                                                                                                                 |                                                                                                                                                                                                                                  |
|                         | <b>4: Air-Sea Interaction and Its Effects on Electromagnetic Wave Propagation: Results from CASPER (Coupled Air-Sea Processes and EM Ducting Research) Part I</b>  | <b>4: Development of Applications and Innovative Methods of Processing, Combining, Assimilating and Analyzing Satellite Observations of the Land, Ocean/Water, and Atmosphere Part I</b>                                         |
| 8:30                    | 4.1 Wang, Q.                                                                                                                                                       | 4.1 Smith, W. L. Sr.                                                                                                                                                                                                             |
| 8:45                    | 4.2 Fernando, H. J. S.                                                                                                                                             | 4.2 Weng, F.                                                                                                                                                                                                                     |
| 9:00                    | 4.3 Christman, A. J.                                                                                                                                               | 4.3 Yu, C. L.                                                                                                                                                                                                                    |
| 9:15                    | 4.4 Alappattu, D. P.                                                                                                                                               | 4.4 Oyola, M. I.                                                                                                                                                                                                                 |
| 9:30                    | 4.5 Grachev, A. A.                                                                                                                                                 | 4.5 Ma, G. Sr.                                                                                                                                                                                                                   |
| 9:45                    | 4.6 Haack, T.                                                                                                                                                      | 4.6 Kimani, M.                                                                                                                                                                                                                   |
| 10:00                   | COFFEE BREAK (GRAND TERRACE)                                                                                                                                       |                                                                                                                                                                                                                                  |
|                         | <b>5: Air-Sea Interaction and Its Effects on Electromagnetic Wave Propagation: Results from CASPER (Coupled Air-Sea Processes and EM Ducting Research) Part II</b> | <b>5: JPSS</b>                                                                                                                                                                                                                   |
| 10:30                   | 5.1 Khelif, D.                                                                                                                                                     | 5.1 Goldberg, M.                                                                                                                                                                                                                 |
| 10:45                   | 5.2 Kalogiros, J.                                                                                                                                                  | 5.2 Hillger, D. W.                                                                                                                                                                                                               |
| 11:00                   | 5.3 Cao, T.                                                                                                                                                        | 5.3 Walther, A.                                                                                                                                                                                                                  |
| 11:15                   | 5.4 Shen, L.                                                                                                                                                       | 5.4 Chen, Y.                                                                                                                                                                                                                     |
| 11:30                   | 5.5 Shearman, R. K.                                                                                                                                                | 5.5 Herndon, D.                                                                                                                                                                                                                  |
| 11:45                   | 5.6 Lozovatsky, I.                                                                                                                                                 | 5.6A Tsidulko, M.                                                                                                                                                                                                                |
| 12:00                   | BOXED LUNCHES (MADISON BALLROOM AB)                                                                                                                                |                                                                                                                                                                                                                                  |
| 12:30                   |                                                                                                                                                                    | <b>Town Hall Meeting: Microsatellites and Nanosatellites</b>                                                                                                                                                                     |
|                         | <b>6: Surface Wave Effects on Turbulence and Air-Sea Interaction, from Small to Climate Scale</b>                                                                  | <b>6: Potential of New Generation Satellite Systems to Improve Weather, Climate, and Other Environmental Data Products; Enhance User Application and Services, and Contribute to Blended and Fused Satellite Datasets Part I</b> |
| 1:30                    | 6.1 Reichl, B.                                                                                                                                                     | 6.1 Ardanuy, P. E.                                                                                                                                                                                                               |
| 1:45                    | 6.2 Wen, X.                                                                                                                                                        | 6.2 Revercomb, H. E.                                                                                                                                                                                                             |
| 2:00                    | 6.3 Wu, L.                                                                                                                                                         | 6.3 Best, F. A.                                                                                                                                                                                                                  |
| 2:15                    | 6.4 Sullivan, P. P.                                                                                                                                                | 6.4 Collins, W. D.                                                                                                                                                                                                               |
| 2:30                    | 6.5 Veron, F.                                                                                                                                                      | 6.5 Blackwell, W. J.                                                                                                                                                                                                             |
| 2:45                    | 6.6 Zappa, C. J.                                                                                                                                                   | 6.6 Lim, A.                                                                                                                                                                                                                      |
| 3:00                    | FORMAL POSTER VIEWING WITH COFFEE BREAK (GRAND TERRACE)                                                                                                            |                                                                                                                                                                                                                                  |
|                         |                                                                                                                                                                    | <b>J2: Satellite Measurements of Air-Sea Interaction Processes</b>                                                                                                                                                               |
| 4:30                    |                                                                                                                                                                    | J2.1 Liu, W. T.                                                                                                                                                                                                                  |
| 4:45                    |                                                                                                                                                                    | J2.2 Paget, A.                                                                                                                                                                                                                   |
| 5:00                    |                                                                                                                                                                    | J2.3 Kulie, M. S.                                                                                                                                                                                                                |
| 5:15                    |                                                                                                                                                                    | J2.4 Roberts, J. B.                                                                                                                                                                                                              |
| 5:30                    | CONFERENCE ADJOURNS FOR THE DAY                                                                                                                                    |                                                                                                                                                                                                                                  |

# Wednesday, 17 August 2016

|       | 20 Air-Sea Interaction                                                                                                            | 21 Satellite Meteorology                                                              |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|       | Lecture Hall                                                                                                                      | Madison Ballroom CD                                                                   |
| 7:30  | REGISTRATION OPENS                                                                                                                |                                                                                       |
|       | <b>7: Extra-Tropical Air-Sea Interaction: Linkages Between Annular Modes, Western Boundary Currents, and Storm Tracks Part I</b>  | <b>7: Development of Applications and Innovative Methods Part II</b>                  |
| 8:30  | 7.1 Schneider, N.                                                                                                                 | 7.1 Santek, D. A.                                                                     |
| 8:45  | 7.2 Kilpatrick, T. J.                                                                                                             | 7.2 Wimmers, A.                                                                       |
| 9:00  | 7.3 O'Neill, L. W.                                                                                                                | 7.3 Chang, K. W.                                                                      |
| 9:15  | 7.4 Masunaga, R.                                                                                                                  | 7.4 Posselt, D. J.                                                                    |
| 9:30  | 7.5 Ma, X.                                                                                                                        | 7.5 minnis, P.                                                                        |
| 9:45  | 7.6 Liu, J. W.                                                                                                                    | 7.6 Grecu, M.                                                                         |
| 10:00 | COFFEE BREAK (GRAND TERRACE)                                                                                                      |                                                                                       |
|       | <b>8: Extra-Tropical Air-Sea Interaction: Linkages Between Annular Modes, Western Boundary Currents, and Storm Tracks Part II</b> | <b>8: GOES-R Part I</b>                                                               |
| 10:30 | 8.1 Small, R.                                                                                                                     | 8.1 Goodman, S. J.                                                                    |
| 10:45 | 8.2 Wills, S. M.                                                                                                                  | 8.2 Schmit, T. J.                                                                     |
| 11:00 | 8.3 Seo, H.                                                                                                                       | 8.3 Miller, S. D.                                                                     |
| 11:15 | 8.4 Tilinina, N.                                                                                                                  | 8.4 Mahale, V. N.                                                                     |
| 11:30 | 8.5 Souza, R. B.                                                                                                                  | 8.5 Stano, G. T.                                                                      |
| 11:45 |                                                                                                                                   | 8.6 Huang, A.                                                                         |
| 12:00 | BOXED LUNCHES (MADISON BALLROOM AB)                                                                                               |                                                                                       |
| 12:30 |                                                                                                                                   | <b>Town Hall Meeting: Evolution of the United States satellite-based observations</b> |
|       |                                                                                                                                   | <b>9: Potential of New Generation Satellite Systems Part II</b>                       |
| 1:30  |                                                                                                                                   | 9.1 Glumb, R. J.                                                                      |
| 1:45  | <b>9: Tropical Air-Sea Interaction</b>                                                                                            | 9.2 Sieglaff, J.                                                                      |
| 2:00  | 9.1 WITHDRAWN                                                                                                                     | 9.3 Pavolonis, M. J.                                                                  |
| 2:15  | 9.2 Roberts, J. B.                                                                                                                | 9.4 Iskenderian, H.                                                                   |
| 2:30  | 9.3 Skillingstad, E. D.                                                                                                           | 9.5 Folmer, M. J.                                                                     |
| 2:45  | 9.4 Fu, J. X.                                                                                                                     | 9.6 Gerth, J. J.                                                                      |
|       | FORMAL POSTER VIEWING WITH COFFEE BREAK (GRAND TERRACE)                                                                           |                                                                                       |
|       |                                                                                                                                   | <b>J3: Cyclone Global Navigation Satellite System</b>                                 |
| 4:30  |                                                                                                                                   | J3.1 Morris, M.                                                                       |
| 4:45  |                                                                                                                                   | J3.2 Yang, S.                                                                         |
| 5:00  |                                                                                                                                   | J3.3 Pu, Z.                                                                           |
| 5:15  |                                                                                                                                   | J3.4 Crespo, J. A.                                                                    |
| 5:30  | CONFERENCE ADJOURNS FOR THE DAY                                                                                                   |                                                                                       |

# Thursday, 18 August 2016

|       | 20 Air-Sea Interaction                                                       | 21 Satellite Meteorology                                                                                                           |
|-------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|       | Lecture Hall                                                                 | Madison Ballroom CD                                                                                                                |
| 7:30  | <b>REGISTRATION OPENS</b>                                                    |                                                                                                                                    |
|       | <b>10: Air-Sea Interaction at High Latitudes</b>                             | <b>10: How Satellite Data are Being Used Part II</b>                                                                               |
| 8:30  | 10.1 Salisbury, D. J.                                                        | 10.1A Bedka, K.                                                                                                                    |
| 8:45  | 10.2 Letterly, A.                                                            | 10.2 Fromm, M. D.                                                                                                                  |
| 9:00  | 10.3 Perrie, W.                                                              | 10.3 Brewster, J. K.                                                                                                               |
| 9:15  | 10.4 Persson, P. O. G.                                                       | 10.4 Kummerow, C.                                                                                                                  |
| 9:30  | 10.5 Lüpkes, C.                                                              | 10.5 Bennartz, R.                                                                                                                  |
| 9:45  | 10.6 Wrobel, I. H.                                                           | 10.6 Posselt, D. J.                                                                                                                |
|       | <b>COFFEE BREAK (GRAND TERRACE)</b>                                          |                                                                                                                                    |
|       | <b>11: The Role of Air-Sea Interaction in Climate Variability and Change</b> | <b>11: Research and Operational Satellite Data Applications for Weather, Ocean, and Climate Monitoring and Forecasting Part I</b>  |
| 10:30 | 11.1 DeMott, C. A.                                                           | 11.1 Gerth, J. J.                                                                                                                  |
| 10:45 | 11.2 Xu, J.                                                                  | 11.2 Boll, W. D.                                                                                                                   |
| 11:00 | 11.3 Kwon, Y. O.                                                             | 11.3 Smith, W. L. Jr.                                                                                                              |
| 11:15 | 11.4 Nakamura, H.                                                            | 11.4 Rapp, A. D.                                                                                                                   |
| 11:30 | 11.5 Zheng, F.                                                               | 11.5 Hubbard, S.                                                                                                                   |
| 11:45 | 11.6 Ma, J.                                                                  | 11.6 Sawaengphokhai, P. K.                                                                                                         |
|       | <b>20th Conference on Air-Sea Interaction Adjourns</b>                       |                                                                                                                                    |
| 12:00 | <b>BOXED LUNCHES (MADISON BALLROOM AB)</b>                                   |                                                                                                                                    |
| 12:30 |                                                                              | <b>Town Hall Meeting: User Readiness for New-Generation Satellites</b>                                                             |
|       |                                                                              | <b>12: Research and Operational Satellite Data Applications for Weather, Ocean, and Climate Monitoring and Forecasting Part II</b> |
| 1:30  |                                                                              | 12.1 Liu, G.                                                                                                                       |
| 1:45  |                                                                              | 12.2 Wang, X.                                                                                                                      |
| 2:00  |                                                                              | 12.3 Ebuchi, N.                                                                                                                    |
| 2:15  |                                                                              | 12.4 Line, W.                                                                                                                      |
| 2:30  |                                                                              | 12.5 Cronce, L. M.                                                                                                                 |
| 2:45  |                                                                              | 12.6 Mecikalski, J. R.                                                                                                             |
|       | <b>FORMAL POSTER VIEWING WITH COFFEE BREAK (GRAND TERRACE)</b>               |                                                                                                                                    |
|       |                                                                              | <b>13: Other Topics in Satellite Meteorology</b>                                                                                   |
| 4:30  |                                                                              | 13.1 Solbrig, J.                                                                                                                   |
| 4:45  |                                                                              | 13.2 Turk, F. J.                                                                                                                   |
| 5:00  |                                                                              | 13.3 Wang, L.                                                                                                                      |
| 5:15  |                                                                              | 13.4 Hoffman, J. P.                                                                                                                |
| 5:30  | <b>CONFERENCE ADJOURNS FOR THE DAY</b>                                       |                                                                                                                                    |

| <b>Friday, 19 August 2016</b> |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
|                               | <b>21 Satellite Meteorology</b>                                                                                |
|                               | <b>Madison Ballroom CD</b>                                                                                     |
| 7:30                          | <b>REGISTRATION OPENS</b>                                                                                      |
|                               | <b>14: GOES-R Part II</b>                                                                                      |
| 8:30                          | 14.1 Martin, G.                                                                                                |
| 8:45                          | 14.2 Lindstrom, S. S.                                                                                          |
| 9:00                          | 14.3 Schreiber-Abshire, W.                                                                                     |
| 9:15                          | 14.4 MacKenzie, W. M. Jr.                                                                                      |
| 9:30                          | 14.5A Santek, D. A.                                                                                            |
| 9:45                          | 14.6 Wang, P. K.                                                                                               |
| 10:00                         | <b>COFFEE BREAK (GRAND TERRACE)</b>                                                                            |
|                               | <b>15: Satellite Data Reprocessing and Impacts of the Reprocessed Data on Weather and Climate Applications</b> |
| 10:30                         | 15.1 Weng, F.                                                                                                  |
| 10:45                         | 15.2 Gumber, A. R.                                                                                             |
| 11:00                         | 15.3 Foster, M. J.                                                                                             |
| 11:15                         | 15.4 Kahn, B. H.                                                                                               |
| 11:30                         | 15.5 WITHDRAWN                                                                                                 |
| 11:45                         | 15.6 Berg, W.                                                                                                  |
| 12:00                         | <b>21st Conference on Satellite Meteorology, Oceanography and Climatology Adjourns</b>                         |

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|                   | Conf.    | Paper # | Day | Time     |                    | Conf. | Paper #  | Day  | Time |          |
|-------------------|----------|---------|-----|----------|--------------------|-------|----------|------|------|----------|
| <b>A</b>          |          |         |     |          | <b>E</b>           |       |          |      |      |          |
| Ai, Y.            | 21SATMET | 25      | Mon | 3:00 PM  | Ebuchi, N.         | 2     | 1SATMET  | 12.3 | Thu  | 2:00 PM  |
| Ai, Y.            | 21SATMET | 26      | Mon | 3:00 PM  | Efremova, B.       |       | 21SATMET | 92   | Wed  | 3:00 PM  |
| Alappattu, D. P.  | 20ASI    | 21      | Mon | 3:00 PM  | <b>F</b>           |       |          |      |      |          |
| Alappattu, D. P.  | 20ASI    | 4.4     | Tue | 9:15 AM  | Fairall, C. W.     |       | 20ASI    | 1.2  | Mon  | 11:00 AM |
| Anguelova, M. D.  | 20ASI    | 1.3     | Mon | 11:15 AM | Feltz, M.          |       | 21SATMET | 85   | Wed  | 3:00 PM  |
| Apke, J.          | 21SATMET | 2.2     | Mon | 1:45 PM  | Feltz, M.          |       | 21SATMET | 76   | Wed  | 3:00 PM  |
| Ardanuy, P. E.    | 21SATMET | 6.1     | Tue | 1:30 PM  | Fernando, H. J. S. |       | 20ASI    | 4.2  | Tue  | 8:45 AM  |
| Aune, R. M.       | 21SATMET | 3.2     | Mon | 4:45 PM  | Folmer, M. J.      |       | 21SATMET | 9.5  | Wed  | 2:30 PM  |
| <b>B</b>          |          |         |     |          | Foster, M. J.      |       | 21SATMET | 15.3 | Fri  | 11:00 AM |
| Baum, B. A.       | 21SATMET | 40      | Mon | 3:00 PM  | Fromm, M. D.       |       | 21SATMET | 10.2 | Thu  | 8:45 AM  |
| Bearson, N.       | 21SATMET | 72      | Mon | 3:00 PM  | Fu, J. X.          |       | 20ASI    | 9.4  | Wed  | 2:45 PM  |
| Bedard, J.        | 21SATMET | 28      | Mon | 3:00 PM  | Fuell, K. K.       |       | 21SATMET | 49   | Mon  | 3:00 PM  |
| Bedka, K.         | 21SATMET | 10.1A   | Thu | 8:30 AM  | <b>G</b>           |       |          |      |      |          |
| Bennartz, R.      | 21SATMET | 10.5    | Thu | 9:30 AM  | Gerth, J. J.       |       | 21SATMET | 9.6  | Wed  | 2:45 PM  |
| Berg, W.          | 21SATMET | 15.6    | Fri | 11:45 AM | Gerth, J. J.       |       | 21SATMET | 11.1 | Thu  | 10:30 AM |
| Best, F. A.       | 21SATMET | 6.3     | Tue | 2:00 PM  | Glumb, R. J.       |       | 21SATMET | 9.1  | Wed  | 1:30 PM  |
| Bettenhausen, M.  | 20ASI    | 4       | Mon | 3:00 PM  | Goldberg, M.       |       | 21SATMET | 5.1  | Tue  | 10:30 AM |
| Blackwell, W. J.  | 21SATMET | 6.5     | Tue | 2:30 PM  | Gong, X.           |       | 21SATMET | 38   | Mon  | 3:00 PM  |
| Boll, W. D.       | 21SATMET | 11.2    | Thu | 10:45 AM | Gong, Y.           |       | 20ASI    | 7    | Mon  | 3:00 PM  |
| Borbas, E.        | 21SATMET | 95      | Wed | 3:00 PM  | Goodman, S. J.     |       | 21SATMET | 8.1  | Wed  | 10:30 AM |
| Borg, L. A.       | 21SATMET | 37      | Mon | 3:00 PM  | Grachev, A. A.     |       | 20ASI    | 4.5  | Tue  | 9:30 AM  |
| Botambekov, D.    | 21SATMET | 74      | Mon | 3:00 PM  | Greco, M.          |       | 21SATMET | 7.6  | Wed  | 9:45 AM  |
| Braun, J.         | 21SATMET | 47      | Mon | 3:00 PM  | Greenwald, T.      |       | 21SATMET | 60   | Mon  | 3:00 PM  |
| Brewster, J. K.   | 21SATMET | 10.3    | Thu | 9:00 AM  | Griffin, S. M.     |       | 21SATMET | 84   | Wed  | 3:00 PM  |
| BRILOUET, P. E.   | 20ASI    | 3.1     | Mon | 4:30 PM  | Gumber, A. R.      |       | 21SATMET | 15.2 | Fri  | 10:45 AM |
| Buckley, M.       | 20ASI    | 2.2     | Mon | 1:45 PM  | Gunshor, M. M.     |       | 21SATMET | 104  | Wed  | 3:00 PM  |
| Burgess, G. M.    | 21SATMET | 65      | Mon | 3:00 PM  | <b>H</b>           |       |          |      |      |          |
| <b>C</b>          |          |         |     |          | Haack, T.          |       | 20ASI    | 4.6  | Tue  | 9:45 AM  |
| Cao, T.           | 20ASI    | 5.3     | Tue | 11:00 AM | Hang, Y.           |       | 21SATMET | 36   | Mon  | 3:00 PM  |
| Chang, K. W.      | 21SATMET | 7.3     | Wed | 9:00 AM  | Hankins, W.        |       | 21SATMET | 110  | Wed  | 3:00 PM  |
| Chen, Y.          | 21SATMET | 5.4     | Tue | 11:15 AM | Hassey, E. P.      |       | 20ASI    | 19   | Mon  | 3:00 PM  |
| Cheng, K. Y.      | 21SATMET | 75      | Mon | 3:00 PM  | Heidinger, A.      |       | 21SATMET | 53   | Mon  | 3:00 PM  |
| Cherviakov, M. Y. | 21SATMET | 24      | Mon | 3:00 PM  | Herndon, D.        |       | 21SATMET | 5.5  | Tue  | 11:30 AM |
| Choi, T.          | 21SATMET | 90      | Wed | 3:00 PM  | Hillger, D. W.     |       | 21SATMET | 5.2  | Tue  | 10:45 AM |
| Christman, A. J.  | 20ASI    | 4.3     | Tue | 9:00 AM  | Hoeser, D.         |       | 21SATMET | 102  | Wed  | 3:00 PM  |
| Cikanek, H.       | 21SATMET | 1.3     | Mon | 11:00 AM | Hoeser, D.         |       | 21SATMET | 41   | Mon  | 3:00 PM  |
| Collins, W. D.    | 21SATMET | 6.4     | Tue | 2:15 PM  | Hoffman, J. P.     |       | 21SATMET | 13.4 | Thu  | 5:15 PM  |
| Connell, B. H.    | 21SATMET | 122     | Wed | 3:00 PM  | Holbach, H. M.     |       | 20ASI    | 3.3  | Mon  | 5:00 PM  |
| Cossuth, J.       | 21SATMET | 3.4     | Mon | 5:15 PM  | Hoover, B. T.      |       | 21SATMET | 94   | Wed  | 3:00 PM  |
| Crespo, J. A.     | 21SATMET | J3.4    | Wed | 5:15 PM  | Huang, A.          |       | 21SATMET | 8.6  | Wed  | 11:45 AM |
| Cronce, L. M.     | 21SATMET | 12.5    | Thu | 2:30 PM  | Huang, W.          |       | 20ASI    | 22   | Mon  | 3:00 PM  |
| Cureton, G.       | 21SATMET | 124     | Wed | 3:00 PM  | Hubbard, S.        |       | 21SATMET | 11.5 | Thu  | 11:30 AM |
| <b>D</b>          |          |         |     |          | Hwang, P. A.       |       | 20ASI    | 3.2  | Mon  | 4:45 PM  |
| Davies, J. E.     | 21SATMET | 108     | Wed | 3:00 PM  | <b>I</b>           |       |          |      |      |          |
| Davies, J. E.     | 21SATMET | 114     | Wed | 3:00 PM  | Inamdar, A. K.     |       | 21SATMET | 83   | Wed  | 3:00 PM  |
| DeMott, C. A.     | 20ASI    | 11.1    | Thu | 10:30 AM | Inoue, T.          |       | 21SATMET | 64   | Mon  | 3:00 PM  |
| Dostalek, J. F.   | 21SATMET | 3.1     | Mon | 4:30 PM  | Iskenderian, H.    |       | 21SATMET | 9.4  | Wed  | 2:15 PM  |
| Dostalek, J. F.   | 21SATMET | 119     | Wed | 3:00 PM  |                    |       |          |      |      |          |
| Douglas, A. R.    | 21SATMET | 71      | Mon | 3:00 PM  |                    |       |          |      |      |          |

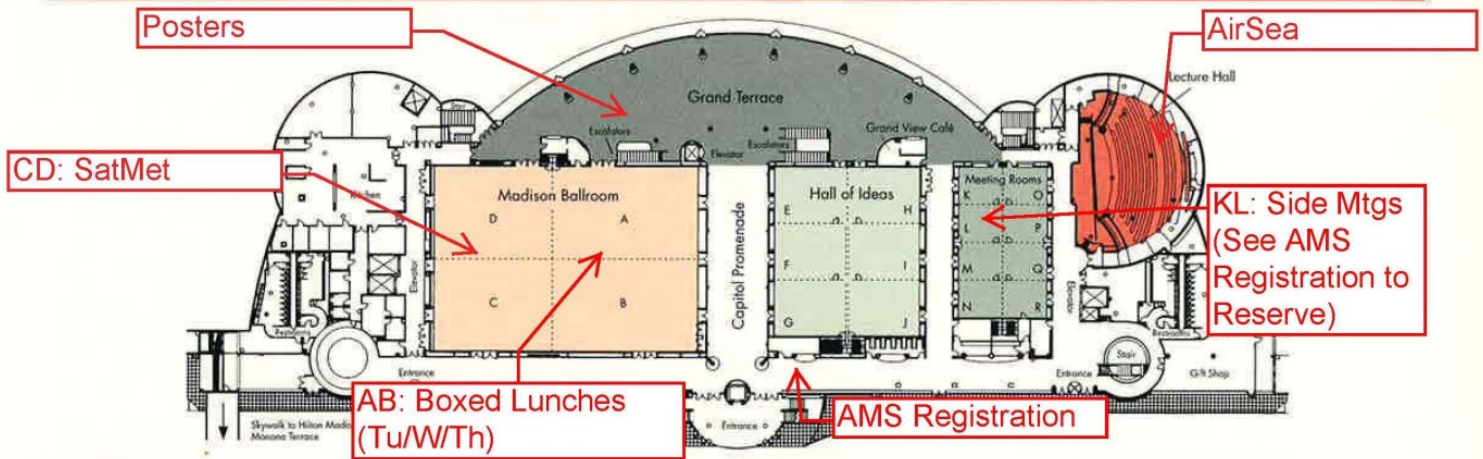
| Conf.    | Paper #            | Day      | Time | Conf.            | Paper #  | Day | Time |
|----------|--------------------|----------|------|------------------|----------|-----|------|
| <b>J</b> |                    |          |      | <b>M (cont.)</b> |          |     |      |
|          | Jackson, D. L.     | 20ASI    | 12   | Mon              | 3:00 PM  |     |      |
|          | Jasmin, T.         | 21SATMET | 121  | Wed              | 3:00 PM  |     |      |
| <b>K</b> |                    |          |      | <b>N</b>         |          |     |      |
|          | Kablick, G. P. III | 21SATMET | 2.6  | Mon              | 2:45 PM  |     |      |
|          | Kahn, B. H.        | 21SATMET | 15.4 | Fri              | 11:15 AM |     |      |
|          | Kalogiros, J.      | 20ASI    | 5.2  | Tue              | 10:45 AM |     |      |
|          | Khelif, D.         | 20ASI    | 5.1  | Tue              | 10:30 AM |     |      |
|          | Kilpatrick, T. J.  | 20ASI    | 7.2  | Wed              | 8:45 AM  |     |      |
|          | Kimani, M.         | 21SATMET | 4.6  | Tue              | 9:45 AM  |     |      |
|          | Knapp, K. R.       | 21SATMET | 87   | Wed              | 3:00 PM  |     |      |
|          | Ko, K. C.          | 20ASI    | 9    | Mon              | 3:00 PM  |     |      |
|          | Kohrs, R. A.       | 21SATMET | 91   | Wed              | 3:00 PM  |     |      |
|          | Kratz, D. P.       | 21SATMET | 31   | Mon              | 3:00 PM  |     |      |
|          | Kulie, M. S.       | 21SATMET | J2.3 | Tue              | 5:00 PM  |     |      |
|          | Kummerow, C.       | 21SATMET | 10.4 | Thu              | 9:15 AM  |     |      |
|          | Kwon, Y. O.        | 20ASI    | 8    | Mon              | 3:00 PM  |     |      |
|          | Kwon, Y. O.        | 20ASI    | 11.3 | Thu              | 11:00 AM |     |      |
| <b>L</b> |                    |          |      | <b>O</b>         |          |     |      |
|          | Laxague, N. J. M.  | 20ASI    | 2.5  | Mon              | 2:30 PM  |     |      |
|          | Layns, A.          | 21SATMET | 43   | Mon              | 3:00 PM  |     |      |
|          | Lenters, J.        | 20ASI    | 15   | Mon              | 3:00 PM  |     |      |
|          | Leshkevich, G.     | 21SATMET | 56   | Mon              | 3:00 PM  |     |      |
|          | Letterly, A.       | 20ASI    | 10.2 | Thu              | 8:45 AM  |     |      |
|          | Li, Y.             | 21SATMET | 70   | Mon              | 3:00 PM  |     |      |
|          | Liang, D.          | 21SATMET | 100  | Wed              | 3:00 PM  |     |      |
|          | Lim, A.            | 21SATMET | 6.6  | Tue              | 2:45 PM  |     |      |
|          | Lindstrom, S. S.   | 21SATMET | 14.2 | Fri              | 8:45 AM  |     |      |
|          | Line, W.           | 21SATMET | 12.4 | Thu              | 2:15 PM  |     |      |
|          | Liu, G.            | 21SATMET | 12.1 | Thu              | 1:30 PM  |     |      |
|          | Liu, J. W.         | 20ASI    | 7.6  | Wed              | 9:45 AM  |     |      |
|          | Liu, W. T.         | 21SATMET | J2.1 | Tue              | 4:30 PM  |     |      |
|          | Lombardo, K.       | 20ASI    | 10   | Mon              | 3:00 PM  |     |      |
|          | Lozovatsky, I.     | 20ASI    | 5.6  | Tue              | 11:45 AM |     |      |
|          | Lüpkes, C.         | 20ASI    | 10.5 | Thu              | 9:30 AM  |     |      |
| <b>M</b> |                    |          |      | <b>P</b>         |          |     |      |
|          | Ma, G. Sr.         | 21SATMET | 4.5  | Tue              | 9:30 AM  |     |      |
|          | Ma, J.             | 20ASI    | 11.6 | Thu              | 11:45 AM |     |      |
|          | Ma, X.             | 20ASI    | 7.5  | Wed              | 9:30 AM  |     |      |
|          | MacKenzie, W.M.Jr. | 21SATMET | 14.4 | Fri              | 9:15 AM  |     |      |
|          | Mahale, V. N.      | 21SATMET | 8.4  | Wed              | 11:15 AM |     |      |
|          | Mandt, G.          | 21SATMET | 1.2  | Mon              | 10:45 AM |     |      |
|          | Mao, J.            | 20ASI    | 6    | Mon              | 3:00 PM  |     |      |
|          | Martin, G.         | 21SATMET | 14.1 | Fri              | 8:30 AM  |     |      |
|          | Masunaga, R.       | 20ASI    | 7.4  | Wed              | 9:15 AM  |     |      |
|          | Mateling, M. E.    | 21SATMET | 115  | Wed              | 3:00 PM  |     |      |
|          | Maturi, E.         | 21SATMET | 23   | Mon              | 3:00 PM  |     |      |
|          | Matus, A.          | 21SATMET | 67   | Mon              | 3:00 PM  |     |      |
|          | McIlhattan, E. A.  | 21SATMET | 2.1  | Mon              | 1:30 PM  |     |      |
|          | Mecikalski, J. R.  | 21SATMET | 12.6 | Thu              | 2:45 PM  |     |      |
|          | Menzel, P.         | 21SATMET | 1.4  | Mon              | 11:15 AM |     |      |
|          | Merrelli, A.       | 21SATMET | 48   | Mon              | 3:00 PM  |     |      |
|          | Meyers, P. C.      | 21SATMET | 86   | Wed              | 3:00 PM  |     |      |
|          | Mikolajczyk, D. E. | 21SATMET | 61   | Mon              | 3:00 PM  |     |      |
|          | Mikovitz, J. C.    | 21SATMET | 103  | Wed              | 3:00 PM  |     |      |
|          | Miller, S. D.      | 21SATMET | 8.3  | Wed              | 11:00 AM |     |      |
|          | Miller, S. D.      | 21SATMET | J1.3 | Mon              | 9:30 AM  |     |      |
|          | Mindock, S.        | 21SATMET | 120  | Wed              | 3:00 PM  |     |      |
|          | Mindock, S.        | 21SATMET | 107  | Wed              | 3:00 PM  |     |      |
|          | Mindock, S.        | 21SATMET | 51   | Mon              | 3:00 PM  |     |      |
|          | Minnis, P.         | 21SATMET | 7.5  | Wed              | 9:30 AM  |     |      |
|          | Miretzky, K. W.    | 21SATMET | 77   | Wed              | 3:00 PM  |     |      |
|          | Monahan, E. C.     | 20ASI    | 1.1  | Mon              | 10:30 AM |     |      |
|          | Morris, M.         | 21SATMET | J3.1 | Wed              | 4:30 PM  |     |      |
|          | Motta, B. C.       | 21SATMET | 116  | Wed              | 3:00 PM  |     |      |
|          | Nakamura, H.       | 21SATMET | J1.2 | Mon              | 9:00 AM  |     |      |
|          | Nakamura, H.       | 20ASI    | 11.4 | Thu              | 11:15 AM |     |      |
|          | Nelson, E. L.      | 21SATMET | 2.3  | Mon              | 2:00 PM  |     |      |
|          | Nelson, J. P. III  | 21SATMET | 113  | Wed              | 3:00 PM  |     |      |
|          | Nikolla, E.        | 21SATMET | 27   | Mon              | 3:00 PM  |     |      |
|          | O'Neill, L. W.     | 20ASI    | 7.3  | Wed              | 9:00 AM  |     |      |
|          | Olander, T. L.     | 21SATMET | 93   | Wed              | 3:00 PM  |     |      |
|          | Olaniyan, E. A.    | 20ASI    | 2.6  | Mon              | 2:45 PM  |     |      |
|          | Otkin, J.          | 21SATMET | 3.3  | Mon              | 5:00 PM  |     |      |
|          | Otkin, J.          | 21SATMET | 98   | Wed              | 3:00 PM  |     |      |
|          | Oyama, R.          | 21SATMET | 97   | Wed              | 3:00 PM  |     |      |
|          | Oyola, M. I.       | 21SATMET | 4.4  | Tue              | 9:15 AM  |     |      |
|          | Paget, A.          | 21SATMET | J2.2 | Tue              | 4:45 PM  |     |      |
|          | Pavolonis, M. J.   | 21SATMET | 9.3  | Wed              | 2:00 PM  |     |      |
|          | Peng, T.           | 20ASI    | 1.5  | Mon              | 11:45 AM |     |      |
|          | Perrie, W.         | 20ASI    | 10.3 | Thu              | 9:00 AM  |     |      |
|          | Persson, P. O. G.  | 20ASI    | 10.4 | Thu              | 9:15 AM  |     |      |
|          | Persson, P. O. G.  | 20ASI    | 2.1  | Mon              | 1:30 PM  |     |      |
|          | Peterson, D. A.    | 21SATMET | 39   | Mon              | 3:00 PM  |     |      |
|          | Phillips, B.       | 20ASI    | 16   | Mon              | 3:00 PM  |     |      |
|          | Plokhenko, Y.      | 21SATMET | 111  | Wed              | 3:00 PM  |     |      |
|          | Posselt, D. J.     | 21SATMET | 10.6 | Thu              | 9:45 AM  |     |      |
|          | Posselt, D. J.     | 21SATMET | 7.4  | Wed              | 9:15 AM  |     |      |
|          | Przybyl, G.        | 21SATMET | 127  | Wed              | 3:00 PM  |     |      |
|          | Pu, Z.             | 21SATMET | J3.3 | Wed              | 5:00 PM  |     |      |
|          | Rana, A.           | 21SATMET | 105  | Wed              | 3:00 PM  |     |      |
|          | Rapp, A. D.        | 21SATMET | 11.4 | Thu              | 11:15 AM |     |      |
|          | Reed, B.           | 21SATMET | 58   | Mon              | 3:00 PM  |     |      |
|          | Reichl, B.         | 20ASI    | 17   | Mon              | 3:00 PM  |     |      |
|          | Reichl, B.         | 20ASI    | 6.1  | Tue              | 1:30 PM  |     |      |
|          | Ren, T.            | 21SATMET | 109  | Wed              | 3:00 PM  |     |      |
|          | Revercomb, H. E.   | 21SATMET | 6.2  | Tue              | 1:45 PM  |     |      |
|          | Richter, D. H.     | 20ASI    | 3.4  | Mon              | 5:15 PM  |     |      |

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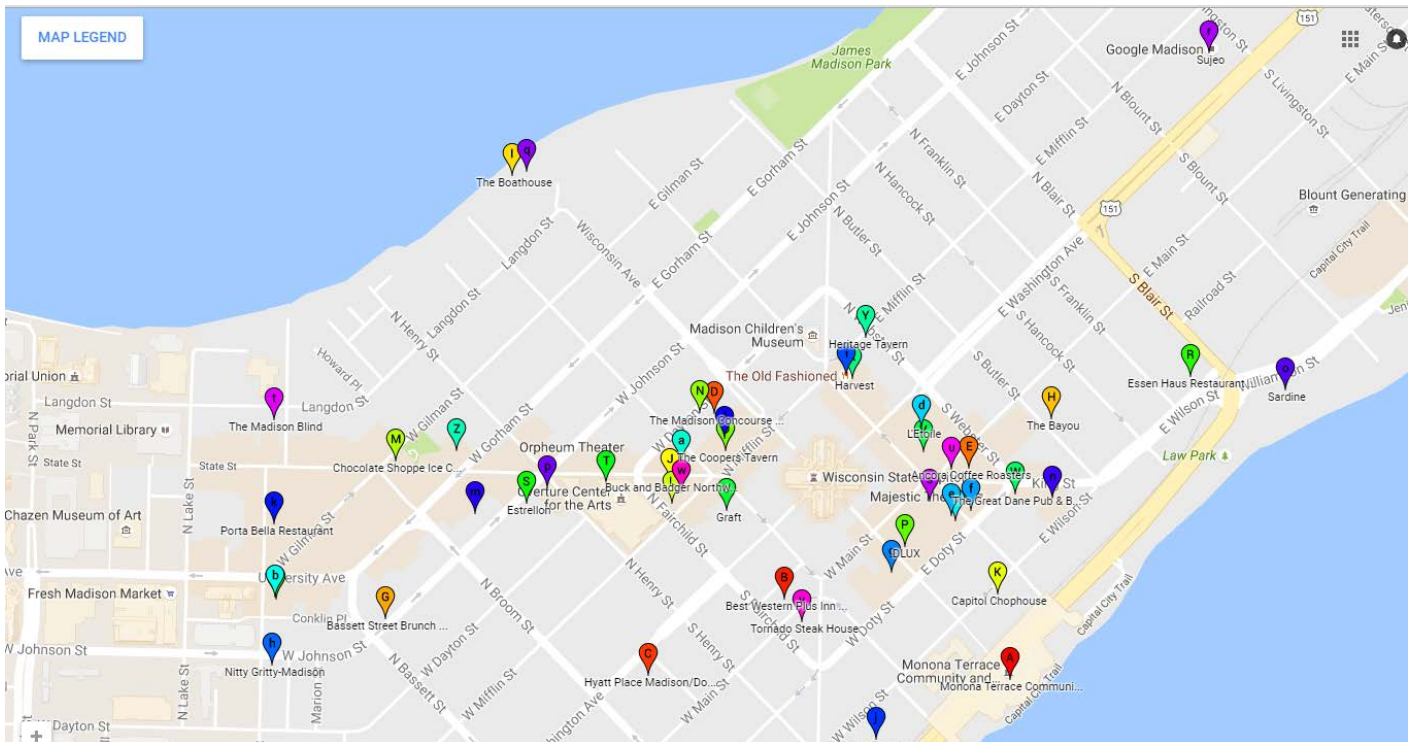
|                       | Conf.    | Paper # | Day | Time     |                 | Conf.    | Paper # | Day | Time     |
|-----------------------|----------|---------|-----|----------|-----------------|----------|---------|-----|----------|
| <b>R (cont.)</b>      |          |         |     |          | <b>U</b>        |          |         |     |          |
| Robaidek, J. O.       | 21SATMET | 54      | Mon | 3:00 PM  | Ulate, M.       | 20ASI    | 14      | Mon | 3:00 PM  |
| Roberts, J. B.        | 20ASI    | 11      | Mon | 3:00 PM  | <b>V</b>        |          |         |     |          |
| Roberts, J. B.        | 21SATMET | J2.4    | Tue | 5:15 PM  | Veglio, P.      | 21SATMET | 69      | Mon | 3:00 PM  |
| Roberts, J. B.        | 20ASI    | 9.2     | Wed | 2:15 PM  | Velden, C. S.   | 21SATMET | 63      | Mon | 3:00 PM  |
| Ross, A.              | 21SATMET | 73      | Mon | 3:00 PM  | Veron, F.       | 20ASI    | 6.5     | Tue | 2:30 PM  |
| Rutan, D. A.          | 21SATMET | 66      | Mon | 3:00 PM  | Veron, F.       | 20ASI    | 2.3     | Mon | 2:00 PM  |
| <b>S</b>              |          |         |     |          | <b>W</b>        |          |         |     |          |
| Salisbury, D. J.      | 20ASI    | 10.1    | Thu | 8:30 AM  | Walther, A.     | 21SATMET | 5.3     | Tue | 11:00 AM |
| Santek, D. A.         | 21SATMET | 7.1     | Wed | 8:30 AM  | Wang, L.        | 21SATMET | 13.3    | Thu | 5:00 PM  |
| Santek, D. A.         | 21SATMET | 14.5A   | Fri | 9:30 AM  | Wang, P. K.     | 21SATMET | 14.6    | Fri | 9:45 AM  |
| Sauter, K.            | 21SATMET | 2.5     | Mon | 2:30 PM  | Wang, P.        | 21SATMET | 62      | Mon | 3:00 PM  |
| Savelyev, I.          | 20ASI    | 20      | Mon | 3:00 PM  | Wang, Q.        | 20ASI    | 4.1     | Tue | 8:30 AM  |
| Sawaengphokhai, P.    | 21SATMET | 11.6    | Thu | 11:45 AM | Wang, X.        | 21SATMET | 12.2    | Thu | 1:45 PM  |
| Schmidt, C. C.        | 21SATMET | 125     | Wed | 3:00 PM  | Wang, Y.        | 20ASI    | 1       | Mon | 3:00 PM  |
| Schmit, T. J.         | 21SATMET | 8.2     | Wed | 10:45 AM | Wang, Y.        | 20ASI    | 3       | Mon | 3:00 PM  |
| Schneider, N.         | 20ASI    | 7.1     | Wed | 8:30 AM  | Wang, Z.        | 21SATMET | 78      | Wed | 3:00 PM  |
| Schreiber-Abshire, W. | 21SATMET | 14.3    | Fri | 9:00 AM  | Wanzong, S.     | 21SATMET | 50      | Mon | 3:00 PM  |
| Schultz, R. E.        | 21SATMET | 68      | Mon | 3:00 PM  | Ward, B.        | 21SATMET | 81      | Wed | 3:00 PM  |
| Seo, H.               | 20ASI    | 8.3     | Wed | 11:00 AM | Ward, B.        | 21SATMET | 1.5     | Mon | 11:30 AM |
| Sessions, W. R.       | 21SATMET | 44      | Mon | 3:00 PM  | Weisz, E.       | 21SATMET | 118     | Wed | 3:00 PM  |
| Shearman, R. K.       | 20ASI    | 5.5     | Tue | 11:30 AM | Wen, X.         | 20ASI    | 6.2     | Tue | 1:45 PM  |
| Shen, L.              | 20ASI    | 5.4     | Tue | 11:15 AM | Weng, F.        | 21SATMET | 15.1    | Fri | 10:30 AM |
| Sieglauff, J.         | 21SATMET | 9.2     | Wed | 1:45 PM  | Weng, F.        | 21SATMET | 4.2     | Tue | 8:45 AM  |
| Sienko, A. V.         | 21SATMET | 59      | Mon | 3:00 PM  | Wills, S. M.    | 20ASI    | 8.2     | Wed | 10:45 AM |
| Sjoberg, B.           | 21SATMET | 30      | Mon | 3:00 PM  | Wimmers, A.     | 21SATMET | 7.2     | Wed | 8:45 AM  |
| Sjoberg, B.           | 21SATMET | 34      | Mon | 3:00 PM  | Witek, M. L.    | 20ASI    | 1.4     | Mon | 11:30 AM |
| Skyllingstad, E. D.   | 20ASI    | 9.3     | Wed | 2:30 PM  | Wodzicki, K. R. | 21SATMET | 2.4     | Mon | 2:15 PM  |
| Small, R.             | 20ASI    | 8.1     | Wed | 10:30 AM | Wrenn, F. J. IV | 21SATMET | 42      | Mon | 3:00 PM  |
| Smith, N. M.          | 21SATMET | 106     | Wed | 3:00 PM  | Wrobel, I. H.   | 20ASI    | 10.6    | Thu | 9:45 AM  |
| Smith, W. L. Sr.      | 21SATMET | 4.1     | Tue | 8:30 AM  | Wu, L.          | 20ASI    | 6.3     | Tue | 2:00 PM  |
| Smith, W. L. Jr.      | 21SATMET | 11.3    | Thu | 11:00 AM | <b>X</b>        |          |         |     |          |
| Solbrig, J.           | 21SATMET | 13.1    | Thu | 4:30 PM  | Xu, J.          | 20ASI    | 11.2    | Thu | 10:45 AM |
| Solbrig, J. E.        | 21SATMET | 52      | Mon | 3:00 PM  | Xue, T.         | 21SATMET | 32      | Mon | 3:00 PM  |
| Souza, R. B.          | 20ASI    | 8.5     | Wed | 11:30 AM | <b>Y</b>        |          |         |     |          |
| Spayd, L. Jr.         | 21SATMET | 88      | Wed | 3:00 PM  | Yamaguchi, R.   | 20ASI    | 18      | Mon | 3:00 PM  |
| St. Germain, K.       | 21SATMET | 1.1     | Mon | 10:30 AM | Yang, H.        | 21SATMET | 82      | Wed | 3:00 PM  |
| Stano, G. T.          | 21SATMET | 8.5     | Wed | 11:30 AM | Yang, S.        | 21SATMET | J3.2    | Wed | 4:45 PM  |
| Stettner, D.          | 21SATMET | 99      | Wed | 3:00 PM  | Ye, X.          | 20ASI    | 13      | Mon | 3:00 PM  |
| Strabala, K. I.       | 21SATMET | 117     | Wed | 3:00 PM  | Yost, C. R.     | 21SATMET | 126     | Wed | 3:00 PM  |
| Straka, W. III        | 21SATMET | 123     | Wed | 3:00 PM  | Young, A. H.    | 21SATMET | 79      | Wed | 3:00 PM  |
| Sullivan, P. P.       | 20ASI    | 6.4     | Tue | 2:15 PM  | Yu, C. L.       | 21SATMET | 4.3     | Tue | 9:00 AM  |
| Sumargo, E.           | 21SATMET | 101     | Wed | 3:00 PM  | <b>Z</b>        |          |         |     |          |
| Sun, J.               | 20ASI    | 2.4     | Mon | 2:15 PM  | Zappa, C. J.    | 20ASI    | 6.6     | Tue | 2:45 PM  |
| Sun, N.               | 21SATMET | 96      | Wed | 3:00 PM  | Zhang, Q.       | 20ASI    | 5       | Mon | 3:00 PM  |
| Surratt, M.           | 21SATMET | 35      | Mon | 3:00 PM  | Zhang, S.       | 21SATMET | 33      | Mon | 3:00 PM  |
| Szoke, E.             | 21SATMET | 89      | Wed | 3:00 PM  | Zheng, F.       | 20ASI    | 11.5    | Thu | 11:30 AM |
| <b>T</b>              |          |         |     |          | Zheng, Y.       | 21SATMET | 29      | Mon | 3:00 PM  |
| Tian, M.              | 21SATMET | 112     | Wed | 3:00 PM  | Zhou, L.        | 21SATMET | 55      | Mon | 3:00 PM  |
| Tilinina, N.          | 20ASI    | 8.4     | Wed | 11:15 AM |                 |          |         |     |          |
| Torres, J.            | 21SATMET | 45      | Mon | 3:00 PM  |                 |          |         |     |          |
| Tsidulko, M.          | 21SATMET | 5.6A    | Tue | 11:45 AM |                 |          |         |     |          |
| Tsu, J.               | 21SATMET | 80      | Wed | 3:00 PM  |                 |          |         |     |          |
| Turk, F. J.           | 21SATMET | 13.2    | Thu | 4:45 PM  |                 |          |         |     |          |
| Tushaus, S. A.        | 21SATMET | 57      | Mon | 3:00 PM  |                 |          |         |     |          |

## Map of Monona Terrace Community and Convention Center

### LEVEL 4 - MEETING ROOMS / GRAND TERRACE



## Map of Madison Area Restaurants, Attractions, and Hotels



- |                                          |                                        |                            |                              |
|------------------------------------------|----------------------------------------|----------------------------|------------------------------|
| ● Monona Terrace Community and Conven... | ● CIRC                                 | ● HopCat                   | ● Porta Bella Restaurant     |
| ● Best Western Plus Inn on the Park      | ● The Coopers Tavern                   | ● Ian's Pizza on State     | ● Rare Steakhouse            |
| ● Hyatt Place Madison/Downtown           | ● DLUX                                 | ● Ian's Pizza by the Slice | ● Red Rock Saloon            |
| ● The Madison Concourse Hotel            | ● Dotty Dumpling's Dowry               | ● Johnny Delmonico's       | ● Restaurant Muramoto        |
| ● Ancora Coffee Roasters                 | ● Essen Haus Restaurant and Bar        | ● L'Etoile                 | ● Sardine                    |
| ● Avenue Club and The Bubble Up Bar      | ● Estrellon                            | ● Marigold Kitchen         | ● Short Stack Eatery         |
| ● Bassett Street Brunch Club             | ● Fresco                               | ● Merchant Madison         | ● The Statehouse             |
| ● The Bayou                              | ● Graft                                | ● Milio's Sandwiches       | ● Sujeo                      |
| ● The Boathouse                          | ● Graze                                | ● Nitty Gritty-Madison     | ● Tavernakaya                |
| ● Buck and Badger Northwoods Lodge       | ● The Great Dane Pub & Brewing Company | ● The Old Fashioned        | ● The Madison Blind          |
| ● Capitol Chophouse                      | ● Harvest                              | ● Paisani's Restaurant     | ● Topsy Cow                  |
| ● Cento                                  | ● Heritage Tavern                      | ● Porta Bella Restaurant   | ● Tornado Steak House        |
| ● Chocolate Shoppe Ice Cream Co.         |                                        |                            | ● Wisconsin Brewing Tap Haus |