

2019 Joint Satellite Conference

Shaping the Future Together – Providing Observations for the Coupled Earth System

28 September – 4 October 2019 Westin Waterfront Boston, MA

General Information

2019 Joint Satellite Conference

29 September-04 October 2019 | Westin Boston Waterfront | Boston, MA

Connect

Wifi Network: Westin_Conference Password: 2019JSC

Conference Twitter: #2019jointsatelliteconf

Sponsorship and Organizers

The event is co-organized by the AMS Committee on Satellite Meteorology, Oceanography, and Climatology, EUMETSAT, and NOAA and hosted by the American Meteorological Society.

Many thanks to our sponsors for their generous support of the conference:

Platinum: Lockheed Martin, Airbus

Gold: Maximus Federal, L3Harris,General Dynamics

Silver: Ball, KBR, SAIC, Servo Services, Scisys, Solers, Secure World Foundation, EEC

Bronze: Meteorology Technology World Expo 2020, Kongsberg

Accommodations

Attendees were responsible for making their own hotel arrangements. All meeting sessions for the conference will be held at the Westin Boston Waterfront.

Thank you for booking your sleeping room at the meeting host 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 Badges and Registration

All those in attendance of the AMS conference must register and wear the name badge associated with their registration package. Please wear your badge in a viewable spot at all times during the conference. Those wearing a Guest badge are not permitted within any technical session taking place. Anyone wishing to attend technical sessions, including presenters, must register for the conference.

The AMS Registration Desk is located in the Harbor Foyer, located in the Westin Boston Waterfront. The AMS Registration Desk will be open for registration at the following times:

Sunday Sep 29:	7:30am-6:00pm
Monday Sept 30:	7:30am-6:00pm
Tuesday Oct 1:	7:30am-6:00pm
Wednesday Oct 2:	7:30am-5:00pm
Thursday Oct 3:	7:30am-5:00pm
Friday Oct 4:	7:30am-12:30pm

Short Course Information

The AMS Short Course on the Significant Hazards Satellite will be held on Sunday, 29 September 2019 prior to the Joint Satellite Conference. The Short Course will take place from 8:00am-3:30pm. A seperate registration was needed to attend the Short Course.

General Information

EVENTS

Welcome Drink- Sponsored by General Dynamics

Sunday, 29 September 6:00-9:00 p.m. - *Harpoon Brewery*

Meet up with other attendees and kick off a great week at the 2019 JSC Welcome Drink. The reception will be held at The Harpoon Brewery & Beer Hall, located in Boston's Seaport District. Drinks and pretzels will be provided. The Brewery is a 15 minute walk from the hotel.

Harpoon Brewery & Beer Hall: 306 Northern Ave, Boston, MA 02210

Icebreaker Reception - Sponsored by L3Harris and Maximus Federal

Monday, 30 September 6:00-9:00 p.m. - *Pavilion at the Westin Boston Waterfront*

The icebreaker reception will be held at the conference hotel right after sessions break for the day in a heated tented area. Connect with colleagues and discuss the first day of the program while enjoying hors d'ouvres and a cash bar.

Conference Banquet - Sponsored by Airbus and Lockheed Martin *A ticketed event

Wednesday, 2 October 6:00-9:00 p.m. - *The State Room*

The 2019 Joint Satellite Conference Banquet will be held at the State Room, an urban event space offering unmatched views of Boston and the harbor. Perched atop Sixty State Street, the State Room will provide an event that attendees will rave about for years to come. Please note that tickets for this event are separate from the registration fee and are priced at $30 each. Please inquire at the regsitration desk for ticket availability. Transportation will be provided to and from the State Room. Buses will depart the Westin beginning at 5:45pm.

State Room: 60 State St., 33rd Floor, Boston, MA 02109

Meals

While coffee and tea will be available during AM and PM breaks, attendees will be on their own for breakfast, lunch and dinner throughout the week. Secure Word Foundation is providing a limited number of boxed lunches for those attending the Panel on Tuesday at 12:15pm. Please reference the local restaurant guide at the end of this booklet for nearby dining options.

Presentation Upload Information

Onsite, speakers may upload their presentation directly onto the computer in the room in which your presentation is scheduled. Presentations can only be uploaded when the room is not being utilized; i.e. coffee/lunch breaks. Rooms will also open 30 mins prior to the start of sessions. The use of personal laptops for presentations is discouraged as it can cause technical delays and cut into a presenter's time.

Formal Poster Viewings

Poster Session Set-Up, Viewing, and Tear-Down Schedule:

All posters will be located in the Galleria Hall of the Westin Boston Waterfront. Please reference the program for your poster viewing time.

Set Up and Tear Down Information:

Poster #	Set Up After	Formal Poster Viewing Time	Tear Down By*
Posters #1-121	MON : NOON	MON 3:20-4:20PM TUE 3:00-4:00PM	TUE 6:00PM
Posters #122-247	WED: NOON	WED 3:00-4:00PM THURS: 3:00-4:00PM	THURS 5:30PM
Student Posters	MON: NOON	MON-THURS TIMES LISTED ABOVE	THURS 5:30PM

*Note that AMS is not responsible for posters not removed by the tear down time.

Formal Poster Viewing Hours
Monday 3:20-4:20 P.M.
Tuesday: 3:00-4:00 P.M.
Wednesday: 3:00-4:00 P.M.
Thursday 3:00-4:00 P.M.

Student Posters

This year, everyone can participate in selecting the "Viewer's Choice" winning Student's Poster on Monday and Tuesday during the Poster Sessions. Please review our student posters (S1 – S8) and vote for your favorite. All student posters are grouped in a special "Student" area.

1. Using your cellphone, go to: https://sli.do/6ew4pjio
2. Select the student and enter

Winners will be announced on Wednesday and moved to the Winner's Circle!

Beyond The Meeting

For information about local attractions, events and restaurants in Boston, please visit the local area information table near the Registation Desk. You can also visit www.bostonusa.com for more information.

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). Special housing needs should have been requested when making hotel reservations. Should you need assistance onsite, please visit the AMS Registration Desk.

Professional and Respectful Conduct at AMS Meetings

Need to report unprofessional or disrespectful conduct? Email conduct@ametsoc.org or call 617-226-3965.

AMS is committed to safe and inclusive 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. Be inclusive and respectful.
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 comments and actions related to age, gender and gender identity, 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.

If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately:
Notify an AMS Staff Member who is wearing a blue ribbon.
Email conduct@ametsoc.org or call 617-226-3965. All members of the AMS response team, listed below, will be alerted to the report and to ensure a timely response.

Members of the AMS response team:
Keith Seitter, Executive Director
Stephanie Armstrong, Associate Executive Director
Brian Papa, Associate Executive Director
Jen Ives, Meetings Manager
Claudia Gorski, Director of Meetings
Wendy Abshire, Education Program Director

Thank You to the Sponsors of the 2019 Joint Satellite Conference

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Meteorological Technology World Expo 2020

KONGSBERG

FOREWORD

Shaping the Future Together – Providing Observations for the Coupled Earth System

30 September-04 October 2019 Boston, US (preceded by NOAA training event on 28-29 September)

Welcome to the first Joint EUMETSAT/AMS/NOAA Satellite Conference. It has been the practice of the AMS Satellite Meteorology, Oceanography, and Climatology (SatMetOC) Committee and the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) to hold a joint international conference approximately every six years, most recently in Vienna (2013), and previously in Amsterdam (2007) and Paris (1998). This year we are joined by the 2019 NOAA Satellite Conference—the first time our three conferences have been held together making this one of the most important satellite remote sensing conferences of the year.

After six years of planning, we are thrilled to come together in an historic moment—the 100th anniversary of the American Meteorological Society (AMS) and celebrating the 60-year anniversery of satellite meteorology. We are excited to host this conference that ties together important areas of interdisciplinary research, engineering, and operations in meteorological and Earth environmental fields. A primary conference goal is to hear from, and engage with, NOAA's and EUMETSAT's satellite data and product user community to continually improve user services across the enterprise. We trust you will find this to be an intellectually stimulating and professionally productive meeting.

Following the Sunday evening reception, the conference kicks off with Monday's joint plenary sessions whose invited talks address the full breadth of our international satellite enterprise. These are followed by a high-level interactive panel discussion on emerging needs for operational space-based observations. The conference continues with technical sessions with over 600 presenters throughout the week that expand on these connections. This year's conference includes no less than 66 oral sessions across eight technical tracks on Tuesday through Friday, each day beginning with a plenary panel on topics of general interest. Each day includes an afternoon interactive poster session that is intended to forge new connections and provide ample time for stimulating discussion.

We particularly wish to thank Gabriele Kerrmann of EUMETSAT, Eric Madsen of NOAA, and Jen Ives and the AMS staff for their invaluable assistance with the organization of this conference. We could not have held this meeting without the assistance of the 24 members of the Scientific Programme Committee (SPC) who stepped up to help plan and organize this meeting.

Ken Holmlund, Mitch Goldberg, and Philip Ardanuy, Conference Co-Chairs

Scientific Programme Committee Members

- New Satellite Systems and Instrumentation: Karen St. Germain, NOAA; Bill Blackwell, MIT/LL; and Bojan Bojkov, EUMETSAT.
- Status of Satellite Products and Data Access: Tom Renkevens. NOAA; Stephen Marley, Aerospace; and Piet Stammes, KNMI.
- Oceanography and Marine Meteorology: Tom Cuff, NOAA; Stephanie Uz, NASA; and Estelle Obligis, EUMETSAT.
- Significance of Satellite Data for monitoring the Polar Regions: Jeff Key, NOAA; Chris Velden, CIMSS/SSEC; and Hannakaisa Lindqvist, FMI.
- Impact of Satellite Data on Nowcasting and Short-Range Weather Forecasting: Steve Weygandt, NOAA; Wayne Feltz, CIMSS/SSEC; and Natasa Strelec Mahovic, Meteorological and Hydrological Service Croatia.
- Quantifying Impact of Weather Extremes in a Changing Climate: James Kinter, COLA; Alyssa Whitcraft, UMD; and Bill Bell, ECMWF.
- Training and User Preparation: Amy Stevermer , UCAR/COMET; Jordan Gerth, CIMSS/SSEC; and Stephan Bojinski, EUMETSAT.
- Air Quality and Atmospheric Composition: Shobha Kondragunta. NOAA; Leslie Ott, NASA; and Rosemary Munro, EUMETSAT).

AMS SATELLITE METEOROLOGY & OCEANOGRAPHY
CONFERENCE SERIES

DATE	LOCATION	CONFERENCE
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
24–28 September 2007	Amsterdam, Netherlands	15th Conference on Satellite Meteorology & Oceanography
9–17 January 2009	Phoenix, AZ	16th Conference on Satellite Meteorology & Oceanography
27–30 September 2010	Annapolis, MD	17th Conference on Satellite Meteorology & Oceanography
20-26 January 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
7–11 January 2018	Austin, TX	22nd Conference on Satellite Meteorology & Oceanography
28 Sept. –4 October 2019	Boston, MA	2019 Joint Satellite Conference

EUMETSAT METEOROLOGICAL SATELLITE CONFERENCE SERIES

DATE	LOCATION	
25-27 November 1986	Amsterdam, The Netherlands	6th Meteosat Scientific Users' Meeting
27-30 September 1988	Madrid, Spain	7th Meteosat Scientific Users' Meeting
28-31 August 1990	Norrköping, Sweden	8th Meteosat Scientific Users' Meeting
14-18 September 1992	Locarno, Italy	9th Meteosat Scientific Users' Meeting
6-9 September 1994	Cascais, Portugal	10th Meteosat Scientific Users' Meeting
4-8 September 1995	Winchester, UK	The Meteorological Satellite Data Users' Conference
16-20 September 1996	Vienna, Austria	1996 EUMETSAT Meteorological Satellite Data Users' Conference
29 September – 3 October 1997	Brussels, Belgium	1997 EUMETSAT Meteorological Satellite Data Users' Conference
25-29 May 1998	Paris, France	9th Conference on Satellite Meteorology and Oceanography
6-10 September 1999	Copenhagen, Denmark	The 1999 EUMETSAT Meteorological Satellite Data Users' Conference
29 May – 2 June 2000	Bologna, Italy	The 2000 EUMETSAT Meteorological Satellite Data Users' Conference
1-5 October 2001	Antalya, Turkey	The 2001 EUMETSAT Meteorological Satellite Data Users' Conference
2-6 September 2002	Dublin, Ireland	2002 EUMETSAT Meteorological Satellite Conference
29 September – 3 October	Weimar, Germany	2003 EUMETSAT Meteorological Satellite Conference
31 May–04 June 2004	Prague, Czech Republic	2004 EUMETSAT Meteorological Satellite Conference
19-23 September 2005	Dubrovnic, Croatia	2005 EUMETSAT Meteorological Satellite Conference
12-16 June 2006	Helsinki, Finland	2006 EUMETSAT Meteorological Satellite Conference
24-28 September 2007	Amsterdam, The Netherlands	Joint 2007 EUMETSAT and American Meteorological Society Conference
8-12 September 2008	Darmstadt, Germany	2008 EUMETSAT Meteorological Satellite Conference
21-25 September 2009	Bath, United Kingdom	2009 EUMETSAT Meteorological Satellite Conference
20-24 September 2010	Cordoba, Spain	2010 EUMETSAT Meteorological Satellite Conference
5–9 September 2011	Oslo, Norway	2011 EUMETSAT Meteorological Satellite Conference
2–7 September 2012	Sopot, Poland	2012 EUMETSAT Meteorological Satellite Conference
16-20 September 2013	Vienna, Austria	2013 EUMETSAT Meteorological Satellite Conference
22–26 September 2014	Geneva, Switzerland	2014 EUMETSAT Meteorological Satellite Conference
21–25 September 2015	Toulouse, France	2015 EUMETSAT Meteorological Satellite Conference
26–30 September 2016	Darmstadt, Germany	2016 EUMETSAT Meteorological Satellite Conference

NOAA SATELLITE CONFERENCE SERIES

DATE	LOCATION	CONFERENCE
December 2001	Miami, FL	NOAA Satellite Direct Readout Conference
9-13 December 2002	Miami, FL	NOAA Satellite Direct Readout Conference
6-4 December 2004	Miami, FL	NOAA Satellite Direct Readout Conference
8-12 December 2008	Miami, FL	NOAA Satellite Direct Readout Conference
4-8 April 2011	Miami, FL	NOAA Satellite Direct Readout Conference
8-12 April 2013	College Park, MD	NOAA Satellite Conference
27 April – 1 May 2015	Greenbelt, MD	NOAA Satellite Conference
17-20 July 2017	New York, NY	NOAA Satellite Conference

Monday, 30 September 2019	
Room	**Harbor Ballroom**
	1: Welcome Comments/Shaping the Future Together
9:00	1.1 Welcome, Logistics
9:05	1.2 Welcome Address, AMS, Jenni Evans
9:15	1.3 Welcome Address, Eumetsat, Alain Ratier
9:25	1.4 Welcome Address, NOAA, Stephen Volz
9:35	1.5 Evans, J. L.
9:55	1.6 Taalas, P.
10:15	1.7 Riishojgaard, L. P.
10:35	1.8 Ratier, A.
10:55	1.9 Jacobs, N.
11:15	**Coffee Break (Sponsored by EEC) (Harbor Foyer)**
	2: International Partners' Perspective
11:45	2.1 Yang, J.
12:00	2.2 Deshimaru, T.
12:15	2.3 Kim, Y. S.
12:30	2.4 ISRO
12:45	**Lunch Break**
	3: Users' Perspectives
2:00	3.1 Machado, L.
2:15	3.2 Martis, A.
2:30	3.3 Uccellini, L. W.
2:45	3.4 Rabier, F.
3:20	**Formal Poster Viewing and Coffee Break (Sponsored by Ball) (Galleria Hall)**
4:20	**PD4: Emerging Needs for Operational Space-based Observations**
6:00	**Ice Breaker Reception (Sponsored by L3Harris and MAXIMUS Federal) (Pavilion)**
8:00	**Sessions End for the Day**

Tuesday, 1 October 2019			
Room	**Harbor Ballroom**	**Marina Ballroom I**	**Marina Ballroom II**
8:30	**PS5: The Role of Carbon Emissions in Climate Change and the Need for Space-Based Observations**		
10:00	**Coffee Break (Sponsored by SAIC) (Galleria Hall)**		
	6A: New Satellite Systems and Instrumentation: Recent Capabilities	**6B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Data Assimilation I**	**6C: Air Quality and Atmospheric Composition: Green-House Gases and Air Quality I**
10:30	6A.1 Sullivan, P.	6B.1 Chinta, S.	6C.1 Eldering, A.
10:45	6A.2 Buechler, D. E.	6B.2 Okamoto, K.	6C.2 Kurosu, T. P.
11:00	6A.3 Walsh, T.	6B.3 Bedard, J.	6C.3 Zehner, C.
11:15	6A.4 Klaes, D.	6B.4 Wang, P.	6C.4 Stammes, P.
11:30	6A.5 Weiss, J.	6B.5 De Chiara, G.	6C.5 Munro, R.
11:45	6A.6 Talaat, E. R.	6B.6 Mile, M.	6C.6 Veihelmann, B.
12:00	**Lunch Break**		
	8A: New Satellite Systems and Instrumentation: New Capabilities I	**8B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Data Assimilation II**	**8C: Air Quality and Atmospheric Composition: Air Quality II**
1:30	8A.1 Lang, R.	8B.1 Liu, H.	8C.1 Chance, K.
1:45	8A.2A Bessho, K.	8B.2 Jung, J. A.	8C.2 Naeger, A.
2:00	8A.3 Blackwell, W. J.	8B.3A Portabella, M.	8C.3 Loyola, D.
2:15	8A.5 Tucker, S. C.	8B.4 Han, W.	8C.4 Smith, N.
2:30	8A.4A Stoffelen, A.	8B.5 Liang, P.	8C.5 Cohen, J.
2:45	8A.6 Talaat, E. R.	8B.6 Lu, Y.	8C.6 Clerbaux, C.
3:00	**Formal Poster Viewing and Coffee Break (Sponsored by Scisys) (Galleria Hall)**		
	9A: Status of Satellite Products and Data Access: Climate	**9B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Data Assimilation III**	**9C: Air Quality and Atmospheric Composition: Air Quality III**
4:00	9A.1 Wei, J.	9B.1 Lee, J. R.	9C.1 Pierce, B.
4:15	9A.2 Lattanzio, A.	9B.2 Pu, Z.	9C.2 Geigert, M.
4:30	9A.3 Lambrigtsen, B.	9B.3 Hristova-Veleva, S.	9C.3 Swartz, W. H.
4:45	9A.4 Barbosa, H. A.	9B.4 Shao, H.	9C.4 Kang, Y.
5:00	9A.5 Privette, J. L.	9B.6 Elmer, N. J.	9C.5 Wang, J.
5:15	9A.6 Arndt, D. S.	9B.5A St-James, J.	9C.6 Yang, K.
5:30	9A.7A Knapp, K. R.		
6:00	**Sessions End for the Day**		

Tuesday, 1 October 2019			
Room	**Marina Ballroom III & IV**	**Burroughs**	**Lewis**
10:00	**Coffee Break (Sponsored by SAIC) (Galleria Hall)**		
	6D: Status of Satellite Products and Data Access: Cloud I	**6E: Training and User Preparation: Forecasting Experiences**	**6F: Oceanography and Marine Meteorology: Support for Operational Services**
10:30	6D.1 Haynes, J. M.	6E.1 Line, W.	6F.1 Klaes, D.
10:45	6D.2 Walther, A.		6F.2 Obligis, E. A.
11:00	6D.3 Deneke, H.	6E.2 Scharfenberg, K.	6F.3 Soulat, F.
11:15	6D.4 Tornow, F.	6E.3 Schumacher, A. B.	Withdrawn
11:30	6D.5 Palikonda, R.	6E.4 LaDue, J. G.	6F.5 Cadwallader, M. L.
11:45	6D.6 d'Entremont, R. P.	Poster Overviews	6F.6 Zhao, X.
12:00	**Lunch Break**		
12:15	**PD7: Is Spectrum Shifting the Playing Field for the Weather Enterprise? Spectrum Considerations for Weather Satellite End Users**		
	8D: Status of Satellite Products and Data Access: Cloud II	**8E: Training and User Preparation: User Preparation I, Satellite Training Programmes and Plans**	**8F: Oceanography and Marine Meteorology: Measuring and Modeling Waves, Circulation, and Eddies**
1:30	8D.1 White, C. H.	8E.1 Goldberg, M. D.	8F.1 Liu, W. T.
1:45	8D.2 Carbajal Henken, C.	8E.2 Fierli, F.	
2:00	8D.3A Kahn, B. H.	8E.3 Arkett, M.	8F.2 Pujol, M. I.
2:15	8D.4 Platnick, S.	8E.4 Sjoberg, B.	8F.3 Pujol, M. I.
2:30	8D.5 Miller, S. D.	8E.5 Ward, B.	8F.4 Lefèvre, F.
2:45	8D.6 Lutz, R.		8F.5 Baker-Yeboah, S.
3:00	**Formal Poster Viewing and Coffee Break (Sponsored by Scisys) (Galleria Hall)**		
	9D: Status of Satellite Products and Data Access: Cloud III	**9E: Training and User Preparation: User Preparation II, Best Practices**	**9F: Oceanography and Marine Meteorology: Air-Sea Interaction**
4:00	9D.1 Pilewskie, J. A.	9E.1 Higgins, M.	9F.1 Roberts, J. B.
4:15	9D.2 Li, Z.		9F.2 Clayson, C. A.
4:30	9D.3 Baum, B. A.	9E.2 Bowlan, M. A.	9F.3 Edson, J. B.
4:45	9D.4 Shang, H.		9F.4 Anguelova, M. D.
5:00	9D.5 Baum, B.	9E.3 Szoke, E.	9F.5 Kaiser, J. W.
5:15	9D6.A Inamdar, A. K.	9E.4 Connell, B. H.	9F.6 Cahill, B.
5:30		Panel Discussion: User Preparation Best Practices and Lessons Learned	
6:00	**Sessions End for the Day**		

Wednesday, 2 October 2019			
Room	**Harbor Ballroom**	**Marina Ballroom I**	**Marina Ballroom II**
	10: Celebrating the 60th Anniversary of the First Weather Satellite, Its Evolution, and International Partnerships		
8:30	10.1 Purdom, J.		
8:45	10.2 Dittberner, G.		
9:00	10.3 Vonderhaar, T. H.		
9:15	10.4 Schmetz, J.		
10:00	**Coffee Break (Sponsered by Solers) (Galleria Hall)**		
	11A: New Satellite Systems and Instrumentation: Meteosat Third Generation (MTG)	**11B:Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Data Assimilation for Regional NWP**	**11C: Air Quality and Atmospheric Composition: Air Quality IV**
10:30	11A.1 Bank, C.	11B.1 Li, J.	11C.1 Coheur, P. F.
10:45	11A.2 Blythe, P.	11B.2 Lin, H.	11C.2 Cady-Pereira, K.
11:00	11A.3 Grandell, J.	11B.3 Back, A.	11C.3 Alvarado, M. J.
11:15	11A.4 Durand, Y.	11B.4 Jones, T. A.	11C.4 Chudnovsky, A.
11:30	11A.5 Willemsen, P.	11B.5 Hilburn, K.	11C.5 Jung, Y.
11:45	11A.6 Aminou, D. M. A.	11B.6 Otkin, J. A.	11C.6 Nowlan, C. R.
12:00	**Lunch Break**		
	12A: New Satellite Systems and Instrumentation: EUMETSAT Polar System Second Generation (EPS-SG)	**12B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Convection Nowcasting I**	**12C: Air Quality and Atmospheric Composition: Air Quality V**
1:30	12A.1 Bank, C.	12B.1 Park, H. I.	12C.1 Gonzalez Abad, G.
1:45	12A.2 Schlüssel, P.	12B.3 Han, D.	12C.2 Valks, P.
2:00	12A.3 Cao, C.	12B.4 Haliczer, D.	12C.3 Otkin, J. A.
2:15	12A.4 Accadia, C.	12B.5 Mecikalski, J.	12C.4 Payne, V. H.
2:30	12A.5 Colucci, P.	12B.6 Cintineo, J. L.	12C.5 Kondragunta, S.
2:45	12A.6 Riedi, J.		12C.6 Huff, A. K.
3:00	**Formal Poster Viewing and Coffee Break (Sponsered by KBR) (Galleria Hall)**		
	13A: New Satellite Systems and Instrumentation: Lightning	**13B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Satellite-based Wind Applications I**	**13C: Air Quality and Atmospheric Composition: Fire I**
4:00	13A.1 Rudlosky, S. D.	13B.1 Borde, R.	13C.1 Kablick, G. P. III
4:15	13A.2 Zullo, J. Jr.	13B.2 Wang, M.	13C.2 Torres, O.
4:30	13A.3 Goodman, S. J.	13B.3 Lean, K.	13C.3 Sundström, A. M.
4:45	13A.4 Edgington, S. F.	13B.4 Santek, D. A.	13C.4 Hilburn, K.
5:00	13A.5 Viticchie, B.	13B.5 Hautecoeur, O.	13C.5A Csiszar, I.
5:15	13A.6 LeRoy, A.	13B.6 Apke, J.	13C.6 Schmidt, C. C.
5:30	**Sessions End for the Day**		
6:00	**Conference Banquet at the State Room (Sponsered by Airbus and Lockheed Martin)**		

Wednesday, 2 October 2019			
Room	**Marina Ballroom III & IV**	**Burroughs**	**Lewis**
10:00	**Coffee Break (Sponsered by Solers) (Galleria Hall)**		
	11D: Status of Satellite Products and Data Access: Precipitation I	**11E: Training and User Preparation: Processing and Visualization Tools**	**11F: Oceanography and Marine Meteorology: Extreme Weather Events**
10:30	11D.1 Stocker, E. F.	11E.1 Gerth, J. J.	11F.1 Vanina-Dart, L.
10:45	11D.2 Huffman, G. J.	11E.2 Kaňák, J.	11F.2 Shay, L. K.
11:00	11D.3A Brown, P. J.	11E.4A Hoese, D.	11F.3 Soulat, F.
11:15	11D.4 Li, Y.	11E.5 Braun, J.	11F.4 Portabella, M.
11:30	11D.5 Foster, M. J.	11E.6 Huang, A.	11F.5 Leidner, S. M.
11:45	11D.6 Petković, V.	11E.7 Boukabara, S.	11F.6 Morris, M.
12:00	**Lunch Break**		
	12D: Status of Satellite Products and Data Access: Precipitation II	**12E: Quantifying Impact of Weather Extremes in a Changing Climate: Temperature Extremes and Assorted**	**12F: Oceanography and Marine Meteorology: Sea Surface Winds**
1:30	12D.1 Xue, Y.	12E.1 Gouveia, C. M.	12F.1 Lin, W.
1:45	12D.2 Adeyemi, B.	12E.2 George, M.	12F.2 Verspeek, J.
2:00	12D.3 Borger, C.	12E.3 Lee, Y.	12F.3 Fore, A.
2:15	12D.4 Maru, Z. A.	12E.4 DaCamara, C.	12F.4 Ebuchi, N.
2:30	12D.5 Forsythe, J. M.	12E.5 Adams, E. C.	12F.5 Manaster, A.
2:45	12D.6 Xie, P.	12E.6 Xie, A.	12F.6 Xu, X.
3:00	**Formal Poster Viewing and Coffee Break (Sponsered by KBR) (Galleria Hall)**		
	13D: Status of Satellite Products and Data Access: Systems	**13E: Training and User Preparation: Satellite Training Activities and Resources I**	**13F: Oceanography and Marine Meteorology: Temperature and Salinity**
4:00	13D.1 Lee, T.	13E.1 Esmaili, R.	13F.1 Pennybacker, M.
4:15	13D.2 Shontz, K.	13E.2 Motta, B. C.	13F.2 Obligis, E. A.
4:30	13D.3 Busch Li, X.	13E.3 Alsheimer, F.	13F.3 Gladkova, I.
4:45	13D.4 Kaye, J. A.	13E.4 Mooney, M.	13F.4 Orain, F. III
5:00	13D.5 Thépaut, J. N.	13E.5 Lindstrom, S. S.	13F.5A Gladkova, I.
5:15	13D.6 Meyer, K.		13F.6 Anderson, J. E.
5:30	**Sessions End for the Day**		
6:00	**Conference Banquet at the State Room (Sponsered by Airbus and Lockheed Martin)**		

Thursday, 3 October 2019			
Room	**Harbor Ballroom**	**Marina Ballroom I**	**Marina Ballroom II**
	14: Ocean Colour Remote Sensing: History, Scientific Advances with Modeling, and Coastal Issues		
8:30	14.1 Abbott, M.		
8:45	14.2 Dutkieciwz, S.		
9:00	14.3 Dierssen, H.		
10:00	**Coffee Break (Galleria Hall)**		
	15A: New Satellite Systems and Instrumentation: Architecture	**15B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Satellite-based Wind Applications II**	**15C: Air Quality and Atmospheric Composition: Fire II**
10:30	15A.1 Gallagher, F. W. III	15B.1 Daniels, J. M.	15C.1 Chai, T.
10:45	15A.2 Brown, S. T.		15C.2 Ahmadov, R.
11:00	15A.3 Li, J.	15B.2 Wu, D. L.	15C.3 Ciren, P.
11:15	15A.4 Mathieu, S.	15B.3 Bozzo, A.	15C.4 Kennelly, E. J.
11:30	15A.5 Cucurull, L.	15B.4 Parrinello, T.	15C.5 Camacho, C. P.
11:45	15A.6 St. Germain, K.	15B.5A Rennie, M. P.	15C.6 Hayashi, M.
12:00	**Lunch Break**		
12:15	**GOES Rebroadcast (GRB) User Group Meeting**		
	16A: New Satellite Systems and Instrumentation: New Capabilities II	**16B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Convection Nowcasting II**	**16:C Air Quality and Atmospheric Composition: Aerosol I**
1:30	16A.1 Kaye, J.	16B.1 Ryu, G. H.	16C.1 Vandenbussche, S. J. A.
1:45	16A.2 Veihelmann, B.	16B.2 Guo, J.	16C.2 Lee, S.
2:00	16A.3 Ruf, C. S.	16B.3 Wang, P. K.	16C.3 Fromm, M. D.
2:15	16A.4 Bank, C.	16B.4 Dostalek, J. F.	16C.4 Li, Z.
2:30	16A.5 L'Ecuyer, T. S.	16B.5 Slocum, C. J.	16C.5 Park, S.
2:45	16A.6 Pagano, T.	16B.6 Smith, W. L. Sr.	16C.6 Zhang, H.
3:00	**Formal Poster Viewing and Coffee Break (Sponsored by Serco Services GmbH) (Galleria Hall)**		
	17A: New Satellite Systems and Instrumentation: Cal/Val	**17B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Nowcasting Applications I**	**17C: Air Quality and Atmospheric Composition: Aerosol II**
4:00	17A.1 Wu, X.	17B.1 Rípodas, P.	17C.1 Levy, R.
4:15	17A.2 Doelling, D. R.	17B.2 García-Pereda, J.	17C.2 Buchard, V.
4:30	17A.3 Djellali, M. S.	17B.3 Autones, F.	17C.3 Pagowski, M.
4:45	17A.4 Guo, S.	17B.4 Dybbroe, A.	17C.4 Ciren, P.
5:00	17A.5 Maraldi, C.	17B.6 Wimmers, A.	17C.5 Sorek-Hamer, M.
5:15	17A.6 Revercomb, H. E.		17C.6 Natraj, V.
5:30	**Sessions End for the Day**		

Thursday, 3 October 2019			
Room	**Marina Ballroom III & IV**	**Burroughs**	**Lewis**
10:00	**Coffee Break (Galleria Hall)**		
	15D: Status of Satellite Products and Data Access: GOES-R / JPSS	**15E: Training and User Preparation: Satellite Training Activities and Resources II**	**15F: Significance of Satellite Data for Monitoring the Polar Regions: Recent Trends in the Polar Regions**
10:30	15D.1 Miller, S. D.	15E.1 Connell, B. H.	15F.1 Manninen, T.
10:45	15D.2 Miller, S. D.	15E.2 Thomas, J. R.	
11:00	15D.3 Seybold, M.	15E.3 Barroso, C. S. F.	15F.2 Riihelä, A.
11:15	15D.4 Reed, B.	15E.4 Torres, J.	15F.3 Wang, X.
11:30	15D.5 Lindsey, D. T.	15E.5 Schultz, L. A.	15F.4 Stengel, M.
11:45	15D.6 Fiore, J. V. Jr.		15F.5 L'Ecuyer, T. S.
12:00	**Lunch Break**		
	16D: Status of Satellite Products and Data Access: Soundings & Imagery	**16E: Quantifying Impact of Weather Extremes in a Changing Climate: Drought and Agriculture**	**16F: Significance of Satellite Data for monitoring the Polar Regions: Monitoring the Cryosphere**
1:30	16D.1 Chirokova, G.	16E.1 Whitcraft, A. K.	16F.1 Key, J. R.
1:45	16D.2 Hanschmann, T.	16E.2 Prat, O. P.	
2:00	16D.3 Teixeira, J.	16E.3 Farahmand, A.	16F.2 Sohn, B. J.
2:15	16D.4 Sharma, A.	Withdrawn	16F.3 Lavelle, J.
2:30	16D.5 Knuteson, R.	16E.6 Park, S.	16F.4 Letterly, A.
2:45	16D.6 Ding, F.		16F.5 Peng, J.
3:00	**Formal Poster Viewing and Coffee Break (Sponsored by Serco Services GmbH) (Galleria Hall)**		
	17D: Status of Satellite Products and Data Access: Direct Readout	**17E: Quantifying Impact of Weather Extremes in a Changing Climate: Drought, Heatwaves, and Agriculture**	**17F: Significance of Satellite Data for Monitoring the Polar Regions: High-latitude Applications**
4:00	17D.1 McNitt, J.	17E.1 Peters-Lidard, C. D.	17F.1 Reed, B.
4:15	17D.2 Strabala, K. I.	17E.2 Moutia, S.	17F.2 Lindqvist, H.
4:30	17D.3 Gumley, L.	17E.3 Souri, A. H.	17F.3 Wang, Z. Q.
4:45	17D.4 Clevenstine, S.	17E.4 Zambrano, F. Sr.	17F.4 Dierking, C.
5:00	17D.5 Donoho, N.	17E.5 Bartlett, N. D.	17F.5 Seaman, C. J.
5:15	17D.6 Rogerson, S. D.	17E.6 Muñoz-Sabater, J.	17F.6 Tjemkes, S. A.
5:30	**Sessions End for the Day**		

Friday, 4 October 2019			
Room	**Harbor Ballroom**	**Marina Ballroom I**	**Marina Ballroom II**
	18A: New Satellite Systems and Instrumentation: Passive Microwave	**18B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Nowcasting Applications II**	**18C: Air Quality and Atmospheric Composition: Aerosol III**
8:30	18A.1 Reising, S. C.	18B.1 Knuteson, R. O.	18C.1 Wang, Y.
8:45	18A.2A Kummerow, C.	18B.3 Carbajal Henken, C.	18C.2 Miller, S.
9:00	18A.3 Zou, C.	18B.4 Forsythe, J.	18C.3 Fougnie, B.
9:15	18A.4 Yan, B.	18B.5 Kuciauskas, A. P.	18C.4 Metzger, S.
9:30	18A.5 Kim, E. J.	18B.6 Jedlovec, G. J.	18C.5 Fougnie, B.
9:45	18A.6 Yang, H.	18B.7 Clementi, L.	18C.6 Zhou, M.
10:00	18A.7 Lyu, C. J.		18C.7 De Bock, V.
10:15	**Coffee Break (Harbor Foyer)**		
	19A: New Satellite Systems and Instrumentation: Hyperspectral Infrared	**19B: Impact of Satellite Data on Nowcasting and Numerical Weather Prediction: Atmospheric Hazard Nowcasting**	**19C: Status of Satellite Products and Data Access: Data Access**
10:45	19A.1 Grigsby, E.	19B.1A Bearson, N.	19C.1 Taylor, J.
11:00	19A.2 Theodore, B.	19B.2 Weinrich, J.	19C.2A Kaiser, J. W.
11:15	19A.3 Revercomb, H. E.	19B.3 Zhang, X.	19C.3 Evans, J. D.
11:30	19A.4 Glumb, R. J.	19B.5 Machado, L.	19C.4 Woo, J.
11:45	19A.5 Iturbide-Sanchez, F.	19B.4A Schmit, T. J.	19C.5 Acker, J.
12:00	19A.6 Crapeau, M.	19B.6 Berndt, E.	19C.6 Smith, R. C.
12:15	19A.7 Reale, A.	19B.7 Straka, W.	
12:40	**Closing Session (Harbor Ballroom)**		
1:15	**Conference Adjourns**		

Friday, 4 October 2019			
Room	**Marina Ballroom III & IV**	**Burroughs**	**Lewis**
	18D: Status of Satellite Products and Data Access: Snow & Wildfire	**PD18E: Monitoring the Changing Polar Environment: Impacts on Economic, Maritime, and National Security**	**18F: Quantifying Impact of Weather Extremes in a Changing Climate: Precipitation and Storms**
8:30	18D.1A Zubaničs, A.		Withdrawn
8:45	18D.2 Gonzalez, R.		18F.2 Savtchenko, A.
9:00	18D.3 Wu, Q.		18F.3 Wu, S.
9:15	18D.4 DaCamara, C.		18F.4 Yang, S.
9:30	18D.5 Libonati, R.		18F.5 Sun, D.
9:45	18D.6 Batzli, S.		18F.6 Kinter, J.
10:00	18D.7 White, K. D.		
10:15	**Coffee Break (Harbor Foyer)**		
	19D: Status of Satellite Products and Data Access: Land	**PD 19E: Quantifying Impact of Weather Extremes in a Changing Climate: Panel**	**19F: Air Quality and Atmospheric Composition: Ozone**
10:45	19D.1 Kalluri, S.	Welcoming Remarks	19F.1 Wespes, C.
11:00	19D.2 Fairbairn, D.	PD19E.2 Nakalembe, C.	19F.2 Cortesi, U.
11:15	19D.3 Pinault, F.		19F.3 Van Roozendael, M.
11:30	19D.4 Yu, Y.		19F.4 Bak, J.
11:45	19D.5 Safieddine, S.	Panel Discussion	19F.5 Flynn, L.
12:00	19D.6 Ermida, S. L.		19F.6 Xiong, X.
12:15	19D.7 Nemani, R.		19F.7 Loyola, D.
12:40	**Closing Session (Harbor Ballroom)**		
1:15	**Conference Adjourns**		

2019 JOINT SATELLITE CONFERENCE

Shaping the Future Together – Providing Observations

2019 EUMETSAT Meteorological Satellite Conference

23rd AMS Satellite Meteorology, Oceanography and Climatology Conference

2019 NOAA Satellite Users Conference

Boston, MA 28 September–4 October 2019

Program Committee

Ken Holmlund, Mitch Goldberg, and Philip Ardanuy, Conference Co-Chairs

Scientific Programme Committee Members

New Satellite Systems and Instrumentation

Karen St. Germain, NOAA; Bill Blackwell, MIT/LL; and Bojan Bojkov, EUMETSAT

Status of Satellite Products and Data Access

Tom Renkevens, NOAA; Stephen Marley, Aerospace; and Piet Stammes, KNMI

Oceanography and Marine Meteorology

Tom Cuff, NOAA; Stephanie Uz, NASA; and Estelle Obligis, EUMETSAT

Significance of Satellite Data for monitoring the Polar Regions

Jeff Key, NOAA; Chris Velden, CIMSS/SSEC; and Hannakaisa Lindqvist, FMI

Impact of Satellite Data on Nowcasting and Short-Range Weather Forecasting

Steve Weygandt, NOAA; Wayne Feltz, CIMSS/SSEC; and Natasa Strelec Mahovic, Meteorological and Hydrological Service Croatia.

Quantifying Impact of Weather Extremes in a Changing Climate

James Kinter, COLA; Alyssa Whitcraft, UMD; and Bill Bell, ECMWF

Training and User Preparation

Amy Stevermer, UCAR/COMET; Jordan Gerth, CIMSS/SSEC; and Stephan Bojinski, EUMETSAT

Sunday, September 29

7:30 A.M.–6:00 P.M.	Registration–Harbor Foyer
8:00 A.M.–3:30 P.M.	AMS Short Course: Significant Hazards Satellite Applications–Marina Ballroom I
6:00 P.M.–9:00 P.M.	Welcome Drink at Harpoon Brewery (Sponsored by General Dynamics)

4:00 P.M.–5:30 P.M.

Panel Discussion: BROADENING YOUR CAREER – *MARINA BALLROOM II*

Moderator: Stephen Volz, NOAA Assistant Administrator for Satellite and Information Services, Silver Spring, MD

Panelists: Karen St. Germain, NOAA/NESDIS/OSAAP, Silver Spring, MD; Gail Skofronick-Jackson, NASA/GSFC, Greenbelt, MD; Adam DeMarco, Lt Col, PhD, USAF, Boston, MA; K. Holmlund, EUMETSAT, Darmstadt, Germany; Vance Hum, President CEO IMSG, Boston, MA

Monday, September 30

7:30 A.M.–6:00 P.M.	Registration–Harbor Foyer
11:15 A.M.–11:45 A.M.	Coffee Break (Sponsored by EEC)–Harbor Foyer
12:45 P.M.–2:00 P.M.	Lunch Break
3:20 P.M.–4:20 P.M.	Formal Poster Viewing and Coffee Break(Sponsored by Ball) –Galleria Hall
6:00 P.M.–8:00 P.M.	Icebreaker Reception (Sponsored by L3Harris and MAXIMUS Federal)–Pavilion

9:00 A.M.–11:15 A.M.
Session 1: WELCOME COMMENTS/SHAPING THE FUTURE TOGETHER –*Harbor Ballroom*

Chairs: K. Holmlund, EUMETSAT , Darmstadt, Germany; P. Ardanuy, INNOVIM, LLC, Greenbelt, MD

9:00 A.M.
1.1 *Welcome, Logistics.*

9:05 A.M.
1.2 *Welcome Address, AMS.* **Jenni L. Evans**, The Pennsylvania State Univ., University Park, PA

9:15 A.M.
1.3 *Welcome Address, EUMETSAT.* **Alain Ratier**, Director-General EUMETSAT, Darmstadt, Germany

9:25 A.M.
1.4 *Welcome Address, NOAA.* **Stephen Volz**, NOAA Assistant Administrator for Satellite and Information Services, Silver Spring, MD

9:35 A.M.
1.5 *AMS 100 Years Presentation.* **Jenni L. Evans**, The Pennsylvania State Univ., University Park , PA

9:55 A.M.
1.6 *WMO Overview.* **Petteri Taalas**, WMO, Geneva, Switzerland

10:15 A.M.
1.7 *WMO Wigos 2040.* **Lars-Peter Riishojgaard**, WMO, Geneva, Switzerland

10:35 A.M.
1.8 *EUMETSAT in a European Landscape.* **Alain Ratier**, Director-General EUMETSAT, Darmstadt, Germany

10:55 A.M.
1.9 *The Future of International Collaboration with the Continuing Evolution of a Global Integrated Observing System.* **Neil Jacobs**, US Department of Commerce NOAA, Washington DC; S. Volz

11:45 A.M.–12:45 P.M.
Session 2: INTERNATIONAL PARTNERS' PERSPECTIVE –*Harbor Ballroom*

Chairs: P. Ardanuy, INNOVIM, LLC, Greenbelt, MD; K. Holmlund, EUMETSAT, Darmstadt, Germany

11:45 A.M.
2.1 *Current Status and Future Plan of Chinese FengYun Satellites.* **Jun Yang**, National Satellite Meteorological Center/CMA, Beijing, China

12:00 P.M.
2.2 *The Japan Meteorological Agency's 10-Year Strategy Toward 2030, and Consideration of Himawari-8/9 Operation.* **Takuya Deshimaru**, JMA, Tokyo, Japan

12:15 P.M.
2.3 *Current Status and Future Plan on KMA Satellite Programme.* **Yong-Sang Kim**, Korea Meteorological Administration, Seoul, South Korea

12:30 P.M.
2.4 *ISRO Satellite Program Overview.* **Mr. Harikrishnan,** ISRO, Washington, DC.

2:00 P.M.–3:20 P.M.
Session 3: USERS' PERSPECTIVES –*Harbor Ballroom*

Chair: E. Madsen, NESDIS, Silver Spring, MD

2:00 P.M.
3.1 *RA III.* **L. Machado**, INPA, San Jose, Brazil

2:15 P.M.
3.2 *RA IV.* **Albert Martis**, Meteorological Department Curaçao, Seru Mahuma, Curacao

2:30 P.M.
3.3 *NWS.* **Louis W. Uccellini**, Director, NOAA/NWS, Silver Spring, MD

2:45 P.M.
3.4 *ECMWF's Perspective on the Use of Satellite Data.* **Florence Rabier**, ECMWF, Reading, Berkshire, U.K.

3:20 P.M.–4:20 P.M.
FIRST FORMAL VIEWING OF MONDAY/TUESDAY POSTERS–*Galleria*

Poster Session 1: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: POSTERS

1 *Assimilation of GPM-Retrieved Surface Meteorology for Winter Storms during 2018 Olympic and Paralympic Winter Games.* **X. Li**, Univ. of Alabama, Huntsville, AL; J. Srikishen, J. B. Roberts, W. A. Petersen, C. R. Hain

2 *The Impact of Amsua All-Sky Data Assimilation on Super Typhoon Hato Forecast.* **T. Zhang**, National Meteorological Information Center, Beijing, China; L. Jiang, Z. Liu, C. Shi

3 *The Impact of Satellite Data Latency on Local Sever Storm Forecast in Regional NWP.* **P. Wang**, CIMSS/Univ. of Wisconsin, Madison, WI; J. Li, T. J. Schmit, Z. Li, J. Li, A. Lim

4 *Public and Aeronautical Forecasting in West Africa: Contribution of Satellite Imageries and Numerical Weather Prediction Models.* **Abdoul Aziz Abebe Abdou Adam**, ASECNA, Niger

5 *Perusat1 - Use of Mesoscale Model Arome and Satellite Data to Improve Cloud Cover Forecasts over Peru.* **Christophe Périard**, Meteo-France, Toulouse, France; P. Venzac

6 *Comparison of Nwcsaf GEO and PPS Cloud Products.* **O. Nicola**, National Meteorological Administration, Bucharest, Romania; A. Diamandi, R. V. Chiritescu

7 *Quantitative Retrievals of Cirrus Physical Thickness Using ABI and AHI Data.* **R. P. d'Entremont**, AER, Inc., Lexington, MA; R. B. Aschbrenner, R. J. Lynch

8 *Regional Observations Simulation Experiments over the Arctic during the Yopp SOP.* **Z. Q. Wang**, Norwegian Meteorological Institute, OSLO, Norway; R. Randriamampianina

9 *Exploring GOES-16 Data to Improve Aircraft Icing Diagnoses.* **W. L. Smith**, NASA LaRC, Hampton, VA; C. Wang, D. A. Spangenberg, S. Bedka, P. Minnis

10 *Use of GOES Super Rapid Scan Imagery for Analysis and Automated Detection of Ice Crystal Icing and Severe Weather Hazards.* **K. M. Bedka**, NASA, Hampton, VA; K. V. Khlopenkov, C. R. Yost, B. Scarino, C. R. Homeyer, E. M. Murillo, T. Sandmael, J. W. Strapp, J. R. Mecikalski, J. Apke

11 *Rapidly Developing Cumulus Area Detection Using Himawari-8/AHI Data.* **Hiroshi Suzue**, JMA, Kiyose, Tokyo, Japan; M. J. Pavolonis

13 *Towards the Objective Identification and Tracking of Outflow Boundaries in New Generation Geostationary Satellite Imagery.* **J. Apke**, CIRA, Fort Collins, CO; K. Hilburn, S. D. Miller

14 *High Resolution Satellite Winds Estimated from GOES-16 and Its Use for Nowcasting and in Cloud Scale Numerical Weather Models at CPTEC/Inpe.* **Renato Galante Negri**, INPE, Cachoeira Paulista, Brazil; E. P. Vendrasco, D. M. Uba, I. C. Costa, J. H. H. Chinchay

15 *Improved Monitoring of the Evolving Upper-Tropospheric Wind Fields over the Core of Tropical Cyclones Aided By High Spatiotemporal Resolution GOES-16 Atmospheric Motion Vectors.* **C. S. Velden**, CIMSS/Univ. of Wisconsin, Madison, WI; D. Stettner, S. M. Griffin, R. Rabin, S. Wanzong, J. Daniels

16 *Evaluation of GOES-17 AMVs.* **K. Lean**, ECMWF, Reading, U.K.; N. Bormann

12 WITHDRAWN

17 *Use of Deep-Dive Analysis Tools to Validate GOES-16/17 Atmospheric Motion Vectors.* **A. Bailey**, NOAA/NESDIS, College Park, MD; J. Daniels, W. Bresky, A. Allegrino, S. Wanzong, C. S. Velden

18 *Improved GNSS Radio Occultation Instrument and NWP Assimilation in the Troposphere.* **Jacob B Christensen**, Ruag Space AB, Gothenburg, Sweden; S. B. Healy, A. Carlström

19 *Assessing the Characteristics of Convective Initiation Events Using High-Resolution Model Simulations and GOES-16 Satellite Observations.* **J. A. Otkin**, Univ. of Wisconsin, Madison, WI; D. Henderson, J. Mecikalski, D. Haliczer, X. Li

19A *Nwc SAF GEO V2018, a New Release to Prepare MTG Day-1.* **Gaëlle kerdraon**, Météo-France, Lannion, France; H. Le Gléau, S. Péré

Poster Session 2: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: POSTERS I

20 *Nwc SAF MTG-LI Prototype Products.* **A. Diamandi**, National Meteorological Administration, Bucharest, Romania

21 *Adding a Mission to the Joint Polar Satellite System (JPSS) Common Ground System (CGS).* **Jeremy Bargen**, Raytheon Intelligence, Information and Services, Aurora, CO; S. Neddermeyer, P. Smit, S. W. Miller

22 *The Joint Polar System: A EUMETSAT-NOAA Collaboration.* **Barbara B Grofic**, JPSS, Greenbelt, MD; J. Gros

23 *FCI Instrument on-Board Meteosat Third Generation Satellite - Critical Design Review Outcome and Development Status.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; P. Martin

24 *Meteosat Third Generation Infrared Sounder (MTG-IRS), New Technologies and Testing Outcomes.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; C. Degrelle, D. Scheidel, P. Astruc, L. Soulat, C. Ardisson, A. Accettura, D. Lamarre, D. M. A. Aminou, B. Theodore, D. Coppens, S. Gigli, B. Verez

25 *Meteosat Third Generation Flight Operations Preparation.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; L. Despoisse, J. Nakache, F. Perez-Zabalza, J. Anderson, F. Becherini, E. Cerone, A. Birtwhistle, M. Legendre, F. Murolo, E. Bouchez

26 *Combining GOES-16 and Surface Ceilometer Data to Improve Cloud Ceiling Estimates over the U.S.* **D. A. Spangenberg**, SSAI, Hampton, VA; W. L. Smith Jr., K. Khlopenkov

27 *Radiometric Characterization and Calibration of GOES-R ABI IR Bands.* **Zhipeng Wang**, STAR, College Park, MD; X. Wu, F. Yu, H. Yoo, H. Qian

28 *Uncertainties of 3MI's Polarimetric Measurements over Inhomogeneous Cloud Scenes.* **S. Hioki**, Univ. Lille, Lille, France; J. Riedi, M. S. Djellali, H. Shang

29 *VIIRS-Aurora Citizen Science Project.* **W. Straka**, CIMSS, Madison, WI; M. Mooney, L. Gumley

30 *Tropical Cyclone Lightning Observed from the GOES-16/17 GLM.* **Stephanie N. Stevenson**, CIRA/NHC, Miami, FL; C. J. Slocum

S1 *A Passive Microwave Retrieval Algorithm with Minimal Scan Position Bias: Application to the Tempest-D Cubesat.* **R. Schulte**, Colorado State Univ., Fort Collins, CO; C. Kummerow, W. Berg, S. C. Reising, V. Chandrasekar, S. T. Brown, B. Lim, S. Padmanabhan, T. Gaier

31 *On the Use of Spectro-Polarimetry for Cloud Detection and Characterization – Operational Implementation for EPS-SG/3MI.* **B. Fougnie**, EUMETSAT, Darmstadt, Germany; J. Riedi, F. Thieuleux, N. Henriot, M. Compiègne, L. Labonnote, N. Ferlay, R. Lang, R. Munro, P. Dubuisson, F. Parol, T. Marbach

32 *Towards EPS-SG Metimage/3MI Synergy Products: Co-Location and Cloud Parallax Correction.* **A. Bozzo**, ECMWF, Reading, U.K.; G. Poli, R. Lang, L. Spezzi, P. Watts, B. Fougnie, R. Munro

33 *Advanced Visible-Infrared Imaging Spectroradiometer (AVIIS) for Global, High Spatial Resolution Atmospheric Sounding and Operational Imaging.* **Jeffery J. Puschell**, Raytheon Space and Airborne Systems, El Segundo, CA; L. Cook, S. Cochran

34 *Decision-Making Beyond Technology: Quantifying the Return on Investment of NOAA/Nesdis's Technology Maturation Portfolio.* **Elsayed Talaat**, NOAA, Silver Spring, MD; P. Weir, P. E. Ardanuy, S. E. Sussan

35 *Orbital Analysis for the Metnet Small Weather Satellite Constellation.* **J. Fisher**, Brandywine Photonics, Exton, PA; D. Guerin, J. Kujawski, J. Julian, Z. Burns, L. L. Gordley

37 *The Development and Use of VIIRS Cloud Information in the CrIS Sdrs for NWP.* **J. A. Jung**, CIMSS, Madison, WI; A. Heidinger, H. Sun, M. D. Goldberg

38 *Study on the Nominal Fixed Grid Definition for the GEO Weather Satellite.* **Lei Yang**, National Satellite Meteorological Center, China Meteorological Administration, beijing, China; J. Wang, C. Liu, J. S.

39 *Lessons Learned Delivering GOES-16 & 17 Imagery to the Public.* **Lori K. Brown**, Caelum Research, College Park, MD

40 *The Future of the Weather Value Chain.* **S. W. Miller**, Raytheon Intelligence, Information and Services, Aurora, CO

41 *Striping and Mitigation Strategies for GOES-R ABI L1b Data.* **J. Fulbright**, Arctic Slope Technical Services, Greenbelt, MD; D. Pogorzala, E. Kline

42 *The NASA MODIS/VIIRS IR Cloud Properties (CLDPROP-IR).* **A. Heidinger**, NOAA/NESDIS/STAR, Madison, WI

43 *Metop-C AMSU-a and AVHRR Calibration and Validation in STAR/NOAA: Status and Prospective.* **Banghua Yan**, STAR, College Park, MD; X. Wu, J. Chen, K. A. Ahmad, S. Kireev, C. Zou, H. Qian

44 *GLM Product Evaluation Using Ground-Based Lightning Detection Networks.* **Ryo Yoshida**, CICS, College Park, MD; S. D. Rudlosky, R. R. Ferraro

S2 *Comparison of Interferometer Versus Diffraction Grating Based Designs for LEO High Resolution Infrared Sounder Constellations.* **Cordelia David**, Brandywine Photonics, LLC, Exton, PA; D. Guerin, J. Kujawski, J. Fisher, J. Julian, Z. Burns

45 *Metop Second Generation – Payload Overview.* **M. Porciani**, European Space Agency/ESTEC, Noordwijk, Netherlands; M. loiselet, V. Kangas, L. salghetti Drioli, U. Klein, A. Østergaard, A. Garcia-Rodriguez, G. Mason

45A *Metop Second Generation – Satellites System Overview.* **Hubert Barré**, ESA / ESTEC, Noordwijk, Netherlands; M. Betto, G. Mason, M. Pendaries, H. Mercille, M. Huchler, R. Fayard

46 *GEO-Class Weather Payloads for Persistent Arctic Coverage.* **P. C. Griffith**, Harris, Fort Wayne, IN; J. Van Naarden, D. Gall

47 *Adopting Nesdis Enterprise Algorithms to Create Environmental Products from EPS-SG Sensors.* **S. Kalluri**, NOAA/NESDIS/STAR, College Park, MD; C. Cao

48 *Algorithm Scientific Software Integration and System Transition Team (ASSISTT) in Transition from Research to Operations.* **Priya R. Pillai**, IMSG, College Park, MD; H. Xie, E. McWilliams, K. Allen, T. Yu, B. Morris, C. Selman, A. Russakoff, S. Sampson, W. Wolf

49 *The Compact Hyperspectral Infrared Sounding Interferometer Instrument Design.* **J. Fisher**, Brandywine Photonics, Exton, PA; J. Julian, J. Kujawski, D. Guerin, Z. Burns, D. A. Santek, F. Grandmont, L. M. Moreau

50 *Early Aeolus Results.* **L. Isaksen**, ECMWF, Reading, U.K.

51 *Design and Development of the Microwave Instrument for Metop Second Generation.* **P. Colucci**, EUMETSAT, Darmstadt, Germany; T. Lupi, W. Di Nicolantonio, M. Grilli, F. Tominetti, F. Bayle, C. Bredin, C. Malassingne, C. Tabart, E. De Viti, E. Vetrano, S. D'addio, L. Salghetti Drioli

52 *Mistic Winds, a Micro-Satellite Constellation Approach to High Resolution Observations of the Atmosphere Using Infrared Sounding and 3D Winds Measurements-Airborne Demonstration Observations.* **Kevin Maschhoff**, BAE Systems, Arlington, VA; J. J. Polizotti, J. Susskind, H. H. Aumann

S3 *Climatology of Lightning in Tropical Cyclones As Observed By TRMM Lightning Imaging Sensor.* **Adrian Lopez**, Florida International Univ., Miami, FL; H. Jiang

Poster Session 3: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: POSTERS

53 *Comparison between Derived Cloud Height and Observed Rainfall over African Tropical Region Using MSG Satellite Data.* **Peter Masika**, Knya Meteorological Department, Nairobi, Kenya

54 *Large Hail and Tornadoes in Lithuania: Quantitative Analysis and Impact.* **Izolda Marcinoniene**, Lithuanian Hydrometeorological Service, Vilnius, Lithuania

55 *Assessing Droughts in SE Europe By Combined Vegetation and Evapotranspiration Signal Using Land Surface Analysis Satellite Application Facility.* **Bostjan Muri**, Slovenian Environment Agency, Ljubljana, Slovenia; M. Irsic Zibert, A. Susnik, G. Gregoric, J. Campa

56 *Modelling of Winter Wheat Yields in Ukraine Using Satellite-Derived Vegetation Indices.* **Inna G. Semenova**, Odessa State Environmental Univ., Odessa, Ukraine

57 *Recent Trends and Variability in the Extreme Precipitation Events over Different Climatic Zones in Nigeria(1983-2017) Using NASA Data.* **E. O. Ogolo**, The Federal Univ. of Technology, Akure, Nigeria; B. Adeyemi, O. J. Matthew, M. A. Ayoola

58 *Thermodynamic VIEW of Water-Energy-Carbon Nexus in the Context of Satellite DATA Application for FOOD Security.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; J. S. Stoyanova, P. N. Neytchev

59 *Agricultural Drought Monitoring Method Integrating MODIS and Crowdsourced Data.* **Ana Paula Martins do Amaral Cunha**, National Centre for Monitoring and Early Warnings of Natural Disasters-Cemaden, São José dos Campos, Brazil; M. Zeri, L. Costa, G. Ribeiro Neto

60 *Application of Remote Sensing Technology Using Climatic Variables to Monitor Wildfire Outbreak in Tanzania.* **Kekilia Alfred Kabalimu**, Ministry of Natural Resources and Tourism, Dar Es Salaam, Tanzania, United Republic of

61 *Link between Several Land Surface Variables Disseminated By the Lsa SAF.* **S. L. Ermida**, IPMA Instituto Portugues do Mar e da Atmosfera, Lisboa, Portugal; A. Hurduc, C. DaCamara, I. Trigo

62 *Modelling of Wine Production Using Land Surface Temperature and Fapar – the Case of the Douro Wine Region.* **C. M. Gouveia**, IDL Instituto Dom Luiz, Faculdade de Ciencias, Universidade de Lisboa, Lisba, Portugal; C. Magarreiro, I. Trigo

63 *Tornados in the Biobío Region of Chile.* **Marta Caneo**, Dirección Meteorológica de Chile (Meteochile), Chile; C. Barahona, R. Abarca

64 *A National Disaster 2018: The Greenvile Floods, Trinidad and Tobago.* **Carol Subrath-Ali**, Trinidad and Tobago Meteorological Service

65 WITHDRAWN

Poster Session 4: SIGNIFICANCE OF SATELLITE DATA FOR MONITORING THE POLAR REGIONS: POSTERS

66 *Atmospheric Composition Measurements over Northern Finland.* **Rigel Kivi**, Finnish Meteorological Institute, Sodankylä, Finland; J. Kujanpää, P. Heikkinen, X. Calbet, H. Lindqvist

67 *Adaptation of MODIS Sea Ice Leads Detection Algorithm to VIIRS.* **Jay P. Hoffman**, CIMSS/Univ. of Wisconsin, Madison, WI; S. A. Ackerman, Y. Liu, J. R. Key

68 *Blended VIIRS and AMSR2 Sea Ice Concentration.* **Richard Dworak**, CIMSS/Univ. of Wisconsin, Madison, WI; Y. Liu, J. R. Key

69 *Ice Products from NOAA Operational LEO and GEO Satellites.* **Xuanji Wang**, CIMSS, Madison, WI; J. R. Key, Y. Liu, R. Dworak, M. A. Tschudi, A. Letterly, S. R. Helfrich

Poster Session 5: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: POSTERS I

70 *Near Real Time LEO Level-2 Products Via Direct Broadcast Using the Community Satellite Processing Package.* **G. Cureton**, Univ. of Wisconsin, Madison, WI

71 *NOAA's Microwave Integrated Retrieval System (MiRS): Operational Update, Applications, and Recent Scientific Progress.* **Christopher Grassotti**, CICS, College Park, MD; S. Liu, R. Honeyager, Y. Lee, Q. Liu, J. M. Forsythe, G. Chirokova

72 *Naval Research Laboratory Tropical Cyclone Satellite Products: An Update.* **R. Bankert**, NRL Monterey, CA; S. Yang, J. Cossuth, C. Johnson, M. Surratt, J. Kent, C. Sampson

73 *Advanced Satellite Ground System for the New Generation of Meteorological Satellites.* **Hae-Yong Shin**, Enterprise Electronics Corporation, Enterprise, AL; E. Baptiste, W. Yuan, T. Schulz, C. Skelsey

74 *Total Column Water Vapor Product Derived from OMI.* **H. Wang**, Smithsonian Astrophysical Observatory, Cambridge, MA; A. H. Souri, G. Gonzalez Abad, X. Liu, K. Chance

75 *Development of a Cloud Detection and Cloud Type Discrimination Method Based on Support Vector Machine for Multi-Channel Imagers.* **Haruma ishida**, JMA, Kiyose, Japan

76 *Spatial Rainfall Uncertainty Observed Using Spaceborne Radars.* **Masafumi Hirose**, Meijo Univ., Nagoya, Japan

S4 *Comparison of Nearly Co-Incident Cloud Top Heights (CTH) from MISR, Terra MODIS and ISS-Cats to Verify Long-Term Cth Records.* **Arka Mitra**, Univ. of Illinois, Urbana Champaign, Urbana, IL; L. Di Girolamo, Y. Hong, K. Mueller

77 *Shortwave Radiation Budget Products from GOES and Meteosat.* **Hye-Yun Kim**, IMSG at NOAA/NESDIS/STAR, College Park, MD; I. Laszlo, H. Liu

78 *Investigation of the Relationship between Observed Cloud Condensation Nuclei and Retrieved Cloud Droplet Number Concentration over the Yellow Sea Using in-Situ Aircraft and Satellite Measurements.* **Yiseok Isaac Yang**, Yonsei Univ., Seoul, Korea, Republic of (South)

79 *An Evaluation of Cloud Vertical Structure in Three Reanalyses Against Cloudsat/Calipso.* **Xiaocong Wang**, LASG, Beijing, China; H. Miao

80 *CSPP SDR and CSPP VIIRS ASCI, Level 1 and 2 Cloud Products at Your Fingertips.* **Scott Mindock**, Verona, WI; G. Martin, N. A. Bearson, L. Gumley, A. Huang, K. I. Strabala, R. Garcia

81 *Gridsat B1, ISCCP and View Zenith Angle Corrections for Infrared Window Channels.* **Kenneth R. Knapp**, NOAA, Asheville, NC; A. H. Young, A. K. Inamdar, W. Hankins

82 *Evolution of the Sentinel-3 Olci Total Column Water Vapour Product.* **R. Preusker**, Freie Universität Berlin, Berlin, Germany; J. Fischer

83 *Satellite Observations of Water Vapor and Its Impact on Climate Change.* **Venkata Subba Reddy Imma Reddy**, GITAM, Hyderabad, SangaReddy, Telangana, India

84 *CIRA Specialized Satellite Data Products and Visualization Tools for GOES, JPSS and Himawari.* **Natalie Tourville**, CIRA, Fort Collins, CO; D. A. Molenar, K. Micke

85 *An Update on the CIMSS Satellite Consensus (SATCON) Tropical Cyclone Intensity Algorithm.* **C. S. Velden**, CIMSS/Univ. of Wisconsin, Madison, WI; D. Herndon

86 *Evaluation of CERES Edition 4 Cloud Properties.* **Christopher Rogers Yost**, SSAI, Hampton, VA; W. L. Smith Jr., Q. Z. Trepte, S. Sun-Mack

87 *Tropical Mean Study: A Validation Tool for Clouds and Earth's Radiant Energy System (CERES) Instruments Aboard Terra, Aqua, S-NPP and NOAA-20 Spacecraft Using Tropical Ocean Measurements.* **Susan Thomas**, Science Systems and Applications, Inc, Hampton, VA; K. J. Priestley, D. Walikainen

88 *Assistt's Use of Sapf and Att for L2 Algorithm Transition from Research to Operations.* **E. Claire McCaskill**, IMSG, College Park, MD; K. Neely, H. Xie, S. Sampson, W. Wolf

S5 *Enhancement of Global Satellite Precipitation Estimates Using Deep Learning Techniques in Cloud Classification from New Generation of Geostationary Satellites.* **Vesta Afzali Gorooh**, Univ. of California, Irvine, Irvine, CA; P. Nguyen, K. Hsu, S. Sorooshian

89 *Evaluation of NOAA-20/S-NPP VIIRS Rsb Calibration Performance during Post-Launch Test, Long-Term Operational Monitoring, and Reprocessing over Daily Deep Convective Clouds.* **W. Wang**, Global Science & Technology, Inc, College Park, MD; C. Cao, S. Blonski, T. choi, S. Uprety, X. Shao

90 *Cross-Calibration of Water Vapor Absorption Bands from International Geostationary Satellites for Consistent Climate Data Record.* **J. Li**, CIMSS/Univ. of Wisconsin, Madison, WI; Z. Li, M. Gunshor, S. Moeller, T. J. Schmit, W. McCarty

91 *Interpolation and Footprint Matching of Windsat Antenna Temperatures.* **M. H. Bettenhausen**, NRL, Washington, DC; W. F. Johnston, P. W. Gaiser

92 *Super Fast Radiative Transfer Model for Analyzing Hyperspectral Satellite Remote Sensing Data.* **Xu Liu**, NASA Langley Research Center, Hampton, VA

93 *Overview and Future Plan of Water-Related Products from the Advanced Microwave Scanning Radiometer (AMSR) Series.* **N. Ebuchi**, JAXA, Tsukuba-shi, Japan; M. Kachi, T. Maeda, N. Ono, H. Fujii, M. Kasahara

94 *Straightening up Cross-Track Scanning Microwave Radiometer Brightness Temperatures to Improve the Temporal Coverage in the Tropics.* **Bruno Picard**, Fluctus SAS, Rabastens, France; L. Eymard, M. Leduc-Leballeur

95 *GOME-2 Cloud Products from Metop-A/B/C Derived from the Oxygen Absorption Bands.* **P. Stammes**, KNMI, De Bilt, Netherlands; P. Wang, O. Tuinder, M. Desmons

96 *IASI-C Results from Cal/Val Activities.* **Bertrand Theodore**, EUMETSAT, Darmstadt, Germany; M. Vasquez, S. Guedj, D. Coppens

97 *Software Requirements for Supporting Research-to-Operations at NOAA and Their Implementation in the New Sapf 2.0 Framework.* **Alexander Ken**, I.M. Systems Group, College Park, MD; T. S. King, W. Wolf

98 *The National Oceanic and Atmospheric Administration (NOAA)'s Satellite and Information Service's (NESDIS) Satellite Products and Services Review Board (SPSRB) Process.* **Ashley Nechole Griffin**, NOAA/NASA/STC, Lanham, MD

99 *Extensive Validation of Fengyun-4A Agri Layer Water Vapor Products.* **Yong Zhang**, National Satellite Meteorological Center/ China Meteorological Adiministration, Beijing, China; D. Wu, H. Zhao, Z. Li, J. Li

100 *The Complete Data Fusion for Synergistic Exploitation of Geostationary and Low Earth Orbit Level 2 Atmospheric Products.* **N. Zoppetti**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, B. Carli, S. Del Bianco, M. Gai, C. Tirelli, F. Barbara, R. Dragani, A. Arola, J. Kujanpää, J. Van Peet, R. Van Der A, U. Cortesi

101 *Web-Based Open Access Real-Time Satellite VIS/IR Calibration Coefficients and Spectral Band Adjustment Factors (SBAF) Designed for Blending Satellite Data for the CERES Project.* **A. Gopalan**, Science Systems and Applications Inc., Hampton, VA; B. Scarino, D. R. Doelling, T. Chee, C. O. Haney, R. Bhatt

102 *CIRA Ground Station Storage System Architecture Using Ceph.* **Natalie Tourville**, CIRA, Fort Collins, CO; M. Hiatt, R. Brummer

103 *Using Satellite Observations to Detect the Tropical Cyclone Diurnal Cycle and the Landfall before the Landfall.* **J. P. Dunion**, Cooperative Institute for Marine and Atmospheric Studies/Univ. of Miami and NOAA/AOML/HRD, Miami, FL; C. D. Thorncroft, C. S. Velden, B. McNoldy

104 *Atypical Atmospheric Dynamical Events Observed from Sage III ISS.* **K. R. Leavor**, SSAI, Hampton, VA; D. E. Flittner, M. M. Roell

105 WITHDRAWN

106 *Moving a Refreshed Data Processing System into the Cloud.* **Scott M. Kern**, JPSS, Aurora, CO; J. M. Olson, E. A. Greene, S. W. Miller, M. A. Whatley

107 *The Power of the Cloud for Enterprise Ground Operations and Development.* **Allan Weiner**, Harris Corporation, Melbourne, FL

108 *GOES-17 ABI L1b and CMI Products Performance.* **X. Wu**, NOAA, College Park, MD; F. Yu, M. Black, C. Cao, M. Coakley, M. J. Cook, J. Fulbright, M. Gunshor, S. Guo, D. Igli, E. Kline, V. Kondratovich, D. T. Lindsey, J. McCorkel, F. Padula, D. Pogorzala, H. Qian, A. Reth, T. Schmit, M. Seybold, J. Van Naarden, Z. wang, H. Yoo

109 *Bias Correction of Daily Satellite-Based Rainfall Estimates over Egypt.* **Tamer A. Gado**, Tanta Univ., Egypt; B. A. Shalaby, I. M. H. Rashwan

110 *Effects of GPS Rollover on the Automatic Weather Stations of the National Meteorological and Hydroilogical Service of Peru (SENAMHI).* **Jorge Chira La Rosa**, National Meteorological and Hydrological Service of Peru, Peru; F. Rivera

111 *The Role of Satellite Data in Belize.* **Dwayne Scott**, National Meteorological Service of Belize, Belize

112 *The Use of GOES-East Infrared Channels for the Identification of Regions of Deep Confection in Tropical Storm Nate in Costa Rica.* **Eladio H. Soano León**, Instituto Meteorolólogo Nacional (IMN), Costa Rica

113 *Scientific Quality Improvement of Level-2 Products When Using Paddedsegment Processing in the STAR Algorithm Processing Framework (SAPF) Version 2.0.* **A. Russakoff**, IMSG, College Park, MD; C. Selman, G. Villamil-Otero, B. Helgans, A. Ken, T. King, W. Wolf

113A *Search and Rescue Satellite Aided Tracking.* **Aaron Colohan**, NOAA/NESDIS/Office of Satellite and Product Operations, College Park, MD; M. Turner

Poster Session 6: TRAINING AND USER PREPARATION: POSTERS

114 *A New View of Our Skies: The GOES-R Satellite Series in Action.* **Eleanor Vallier-Talbot**, NOAA/NWS, Norton, MA

115 *Recent CIRA VISIT and Shymet Training Activities on GOES-R Series Applications.* **D. Bikos**, CIRA, Ft. Collins, CO; E. Szoke, B. H. Connell, E. L. Dagg

116 *Work of the Convection Working Group in Supporting Nowcasting Research to Operations for the New Satellite Programmes.* **Vesa Nietosvaara**, EUMETSAT, Darmstadt, Germany

117 *Comet's MetEd Learning Resources: Enhancing Application of New Generation Geostationary and Polar-Orbiting Satellites for the International User Community.* **Patrick Dills**, UCAR/COMET, Boulder, CO; A. Stevermer

118 *JPSS Products in Numerical Weather Prediction: Achievements, Future Plans, and Lessons Learned from the JPSS Proving Ground.* **Laura J. Dunlap**, JPSS/Science & Technology Corp., Lanham, MD; N. Chowdhury

119 *The Rise of Micro-Training Related to User Applications of New Satellite Products.* **A. LeRoy**, Univ. of Alabama in Huntsville, Huntsville, AL; K. K. Fuell, E. Berndt

120 *Real-Time 3D Image Generation from the GOES-16/17 Satellites.* **K. D. White**, NWS, Huntsville, AL; K. M. McGrath

121 *Using the Guidelines on Satellite Skills and Knowledge for Operational Meteorologists to support competency development.* **L. Veeck**, LLC, North Baddesley Southampton, U.K.

4:20 P.M.–6:00 P.M.
Panel Discussion 4: EMERGING NEEDS FOR OPERATIONAL SPACE-BASED OBSERVATIONS –*Harbor Ballroom*

Chair: Thomas J. Cuff, Director of the Office of Observations, National Weather Service (NWS), Silver Spring, MD

Panelists: Alain Ratier, Director-General EUMETSAT, Darmstadt, Germany; Stephen Volz, NOAA Assistant Administrator for Satellite and Information Services, Silver Spring, MD; Florence Rabier, Director General - European Centre for Medium-Range Weather Forecasts (ECMWF), Reading, Berkshire, U.K.; Louis W. Uccellini, NOAA Assistant Administrator for Weather Services and NWS Director, Silver Spring, MD; Kathy-Ann Caesar, Chief Meteorologist at Caribbean Institute for Meteorology and Hydrology, St James, Barbados; Andre Kamga Foamouhoue, Director-General at African Centre for Meteorological Applications for Development, Niamey, Niger

Tuesday, October 01

7:30 A.M.–6:00 P.M.	Registration–Harbor Foyer
10:00 A.M.–10:30 A.M.	Coffee Break (Sponsored by SAIC)–Galleria Hall
12:00 P.M.–1:30 P.M.	Lunch Break
3:00 P.M.–4:00 P.M.	Formal Poster Viewing and Coffee Break (Sponsored by Scisys)–Galleria Hall
6:00 P.M.–9:00 P.M.	Student Speed Networking–Stone

8:30 A.M.–10:00 A.M.
Plenary Session 5: THE ROLE OF CARBON EMISSIONS IN CLIMATE CHANGE AND THE NEED FOR SPACE-BASED OBSERVATIONS – *Harbor Ballroom*

Panelists: Annmarie Eldering, JPL, Pasadena, CA; J.N. Thépaut, ECMWF, Shinfield Park, UK

10:30 A.M.–12:00 P.M.
Session 6A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: RECENT CAPABILITIES – *Harbor Ballroom*

Chairs: S. Goodman, GOES-R Program Senior Advisor; C. Bank, EUMETSAT, Darmstadt, Germany

10:30 A.M.
6A.1 *GOES-R Series: Earth in High Definition.* **P. Sullivan**, NOAA, Greenbelt, MD

10:45 A.M.
6A.2 *On-Orbit Validation of the Lightning Location Accuracy of the Two Geostationary Lightning Mappers (GLM) on GOES-16 and 17 Using Ground-Based Laser Beacons.* **Dennis E. Buechler**, Univ. of Alabama in Huntsville, Huntsville, AL; T. Varghese, P. Armstrong, J. Bremer, R. Lamb, J. Fulbright, S. J. Goodman

11:00 A.M.
6A.3 *Joint Polar Satellite System (JPSS): The Suomi NPP and NOAA-20 Successes Assure a Bright Future for NOAA's Support to Its Key Stakeholders.* **Tim Walsh**, NOAA/NESDIS, Lanham, MD

11:15 A.M.
6A.4 *Metop Science Update and the Metop-C Mission of the EUMETSAT Polar System (EPS).* **Dieter Klaes**, EUMETSAT, Darmstadt, Germany; M. Lugert, B. Bojkov, J. Ackermann, R. Borde, D. Coppens, S. Guedj, S. Linow, T. August, C. Marquardt, C. Anderson, R. Lang, R. Munro, A. Cacciari, G. Williams, A. Gatti, R. Broughton, G. Bruni, M. Tschimmel, J. Wilson

11:30 A.M.
6A.5 *Cosmic-2 Program Status and Initial Neutral Atmosphere Results.* **JP Weiss**, UCAR, Boulder, CO; W. Xia-Serafino

11:45 A.M.
6A.6 *The NOAA Space Weather Follow on Program to Ensure Continuity of CME Imagery and Solar Wind Space-Based Observations.* **Elsayed R. Talaat**, NOAA, Silver Spring, MD; M. Vargas

10:30 A.M.–12:00 P.M.
Session 6B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: DATA ASSIMILATION I – *Marina Ballroom I*

Chairs: Zhaoxia Pu, Univ. of Utah, Salt Lake City, UT; J. A. Otkin, Univ. of Wisconsin, Madison, WI

10:30 A.M.
6B.1 *Impact of Assimilation of AMSU-A Radiances using GSI Based Hybrid EnVar System on Short Range Forecast of Indian Monsoon.* **Sandeep Chinta**, Indian Institute of Technology Madras, Chennai, India; C. Balaji, V. S. Prasad

10:45 A.M.
6B.2 *Experimental Assimilation of All-Sky Infrared Radiances of Himawari-8.* **Kozo Okamoto**, MRI, Tsukuba, Japan; Y. Sawada, M. Kunii, T. hashino, M. Hayashi, T. Iriguchi, M. Nakagawa

11:00 A.M.
6B.3 *Increased Density of Assimilated Satellite Radiances in Global 4D-EnVar: The Link between Observation Thinning and Error Variance Inflation.* **J. Bedard**, Environment and Climate Change Canada, Dorval, Canada; A. Beaulne, M. Buehner, P. Beaudoin

11:15 A.M.
6B.4 *Impact of Observation Errors on the Assimilation of Hyperspectral Infrared Sounder Radiances in NWP Under Cloudy Skies Regions.* **Pei Wang**, CIMSS/Univ. of Wisconsin, Madison, WI; J. Li, A. Lim, Z. Li, J. Li, M. D. Goldberg, H. Liu, A. Collard

11:30 A.M.
6B.5 *Evaluation of Ascat Superobbing Products for NWP Data Assimilation.* **Giovanna De Chiara**, ECMWF, Reading, U.K.; W. Lin, M. Portabella, J. Vogelzang, L. Isaksen, A. Stoffelen

11:45 A.M.
6B.6 *Advanced Use of Satellite-Derived Wind Observations in Mesoscale Data Assimilation: The Supermodding Method.* **Mate Mile**, Norwegian Meteorological Institute, Oslo, Norway; G. J. Marseille, R. Randriamampianina

10:30 A.M.–12:00 P.M.
Session 6C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: GREEN-HOUSE GASES AND AIR QUALITY I – *Marina Ballroom II*

Chairs: Lesley Ott, NASA GSFC, Greenbelt, MD; Vivienne Payne

10:30 A.M.
6C.1 *The Oco-3 Mission: Measuring Carbon Dioxide from the International Space Station – Preliminary Results from Early Operations and Global Science Observations.* **Annmarie Eldering**, JPL, Pasadena, CA; T. P. Kurosu, R. P. Pavlick, B. M. Fisher, G. B. Osterman

10:45 A.M.
6C.2 *The Oco-3 Mission: Global Observations of CO_2 and Solar-Induced Fluorescence from the International Space Station – Preliminary Performance of the Snapshot Area Map and Target Mode Observations.* **T. P Kurosu**, JPL, Pasadena, CA; A. Eldering, R. P. Pavlick, B. M. Fisher, G. B. Osterman

11:00 A.M.
6C.3 *Status and First Results of the Sentinel-5 Precursor Mission.* **Claus Zehner**, ESA, Frascati, Italy

11:15 A.M.
6C.4 *Tropomi on Sentinel-5P: Monitoring Global Tropospheric Composition at High Spatial Resolution.* **P. Stammes**, KNMI, De Bilt, Netherlands; J. P. Veefkind

11:30 A.M.
6C.5 *The EUMETSAT Contribution to Atmospheric Composition Monitoring from Its Future Missions.* **R. Munro**, EUMETSAT, Darmstadt, Germany; B. Bojkov, L. Bydekerke, J. Grandell, P. Schluessel, H. Wilson

11:45 A.M.
6C.6 *The Copernicus Missions Sentinel-4 and Sentinel-5.* **B. Veihelmann**, ESA, Noordwijk, Netherlands; N. Wright, G. Bazalgette Courrèges-Lacoste, M. Erdmann, G. Bagnasco, D. Martin

10:30 A.M.–12:00 P.M.

Session 6D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: CLOUD I –*MARINA BALLROOM III & IV*

Chairs: Juliet A. Pilewskie, Univ. of Wisconsin, Madison, WI; J. Riedi, Univ. of Lille, Villeneuve d'Ascq, France

10:30 A.M.
6D.1 *Cloud Boundary Detection in Multilayer Scenes with the GOES ABI.* **J. M. Haynes**, CIRA, Fort Collins, CO; Y. Noh, S. D. Miller, A. Heidinger, J. M. Forsythe

10:45 A.M.
6D.2 *The Consistency of Cloud and Solar Insulation Products from Overlapping Geostationary Satellites.* **A. Walther**, CIMSS, Madison, WI; M. J. Foster, A. Heidinger, H. Deneke

11:00 A.M.
6D.3 *Synergistic Combination of GOES-R Satellite Images and Ground-Based Radar Observations for a 3D Reconstruction of Cloud Structure.* **H. Deneke**, Leibniz Institute for Tropospheric Research, Leipzig, Germany; A. Hünerbein, A. Heidinger

11:15 A.M.
6D.4 *Estimation of Top-of-Atmosphere Solar Fluxes from Satellite-Based Broadband Radiometry: Towards Angular Distribution Models Aware of Cloud Micro-Physics and Cloud-Topped Water Vapor.* **Florian Tornow**, Freie Universität Berlin, Berlin, Germany; R. Preusker, C. Domenech

11:30 A.M.
6D.5 *Evaluation of the Satcorps Global Geosat Cloud Property Dataset for the Edition 4 CERES Climate Data Record.* **Rabindra Palikonda**, SSAI/NASA Langley, Hampton, VA; W. L. Smith Jr., D. R. Doelling, P. Minnis, C. R. Yost, D. Painemal, B. Shan

11:45 A.M.
6D.6 *Development and Implementation of a Global, Operational Cloud Analysis Model Using OSS and Optimal Estimation.* **R. P. d'Entremont**, AER, Inc., Lexington, MA; R. B. Aschbrenner, C. Oliveira, M. D. Conner

10:30 A.M.–12:00 P.M.

Session 6E: TRAINING AND USER PREPARATION: FORECASTING EXPERIENCES –*BURROUGHS*

Chairs: K.A. Caesar, Caribbean Institute of Meteorology and Hydrology (CIMH), Bridgetown, Barbados; L. Machado, INPE, Cachoeira Paulista, Brazil

10:30 A.M.
6E.1 *Operational Use of GOES-R ABI and GLM Data during Short-Fused Forecast and Warning Situations.* **W. Line**, NOAA/NWS, Pueblo, CO

11:00 A.M.
6E.2 *GOES-16 Satellite Data As a Primary Tool for Convective Warnings: Puerto Rico Post-Maria.* **K. Scharfenberg**, NWS, Boulder, CO; J. G. LaDue, R. Garcia

11:15 A.M.
6E.3 *Identifying Best Practices for Integrating GOES Imagery and Products into Short Term Forecasting and Warning Decision Making.* **Andrea B. Schumacher**, Colorado State Univ., Fort Collins, CO; K. Scharfenberg, J. G. LaDue

11:30 A.M.
6E.4 *Fusing Satellite Data into Warning Situations: A Training Approach.* **J. G. LaDue**, NOAA/NWS/Office of Chief Learning Officer/Warning Decision Training Division, Norman, OK; A. B. Schumacher, K. Scharfenberg

11:45 A.M.
Poster Overviews

10:30 A.M.–12:00 P.M.

Session 6F: OCEANOGRAPHY AND MARINE METEOROLOGY: SUPPORT FOR OPERATIONAL SERVICES –*LEWIS*

Chairs: Thomas J. Cuff, Director of the Office of Observations, National Weather Service (NWS), Silver Spring, MD; E. A. Obligis, EUMETSAT, Darmstadt, Germany

10:30 A.M.
6F.1 *Status and Evolution of the EUMETSAT Scatterometer Programmes.* **Dieter Klaes**, EUMETSAT, Darmstadt, Germany; S. Linow, C. Anderson, F. Ticconi

10:45 A.M.
6F.2 *Operational Marine Products from Copernicus Sentinel-3 Missions.* **E. A. Obligis**, EUMETSAT, DARMSTADT, Germany; E. Kwiatkowska, F. Montagner, A. O'Carroll, R. Scharroo, H. Wilson

11:00 A.M.
6F.3 *AI Framework for Oceanography Using Sentinel-1 Images.* **F. Soulat**, CLS, Ramonville Saint-Agne, France; N. Longépé, C. Wang, R. Husson, A. Mouche, P. Tandeo, J. Stopa

6F.4 *WITHDRAWN*

11:30 A.M.
6F.5 *The Role of Satellites in Supporting Safe and Efficient Operations in the Offshore Industry.* **Matt L. Cadwallader**, Woods Hole Group, Inc., Bourne, MA

11:45 A.M.
6F.6 *The Signatures and Active Regions of Aerosol Effect on Ice Clouds over the Global Oceans Identified from the Long-Term Operational Satellite Observations.* **X. Zhao**, NOAA/NESDIS/NCEI, Silver Spring, MD

12:15 P.M.–1:15 P.M.
Panel Discussion 7: IS SPECTRUM SHIFTING THE PLAYING FIELD FOR THE WEATHER ENTERPRISE? SPECTRUM CONSIDERATIONS FOR WEATHER SATELLITE END USERS –*Marina Ballroom III & IV*

Chairs: Krystal Wilson, Secure World Foundation, Washington, MA; Renee A. Leduc Clarke, Narayan Strategy, Arlington, VA

1:30 P.M.–3:00 P.M.
Session 8A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: NEW CAPABILITIES I – *Harbor Ballroom*

Chairs: J. A. Kaye, NASA, Science Mission Directorate, Washington, DC; C. Bank, EUMETSAT, Darmstadt, Germany

1:30 P.M.
8A.1 *EUMETSATs Contribution to the Copernicus CO 2m Mission.* **R. Lang**, EUMETSAT, Darmstadt, Germany; B. Bojkov

1:45 P.M.
8A.2A *Status of Himawari-8/9 and their Follow-on Satellites Program.* **Kotaro Bessho**, JMA, Tokyo, Japan

2:00 P.M.
8A.3 *Mission Readiness for the NASA Tropics Hurricane Constellation Observatory.* **W. J. Blackwell**, MIT Lincoln Laboratory, Lexington, MA; R.V. Leslie, S. Braun, R. Bennartz, C. S. Velden, T. Greenwald, D. Herndon, M. DeMaria, R. Atlas, J. Dunion, F. D. Marks, R. F. Rogers, H. Christophersen, B. Annane, B. A. Dahl

2:15 P.M.
8A.5 *Next Generation Wind and Aerosol Profiling from Space: Advantages of the Multi-Function Oawl Doppler Wind Lidar Approach to Observing Earth's Atmospheric Processes.* **Sara C. Tucker**, Ball Aerospace, Boulder, CO

2:30 P.M.
8A.4A *Aeolus First Results.* **Ad Stoffelen**, KNMI, DeBilt, Netherlands; O. Reitebuch, L. Isaksen, J.V. Bismarck, U. Marksteiner, F. Weiler, D. Huber, M. P. Rennie, A. Dabas, T. Flament, A. G. Straume, T. Kanitz, J. Kloe, G. J. Marseille

2:45 P.M.
8A.6 *Towards an Operational NOAA GEO Hyperspectral Infrared Sounder.* **Elsayed R. Talaat**, NOAA, Silver Spring, MD; L.W. Uccellini, S. M. Volz

1:30 P.M.–3:00 P.M.
Session 8B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: DATA ASSIMILATION II –*Marina Ballroom I*

Chairs: Thomas A. Jones, Cooperative Institute for Mesoscale Meteorological Studies/Univ. of Oklahoma, and NOAA/OAR/NSSL, Norman, OK; Jinlong Li, CIMSS, Madison, WI

1:30 P.M.
8B.1 *Evaluation of GOES-16 Clear-Sky Radiance (CSR) Data and Preliminary Assimilation Results at NCEP.* **H. Liu**, EMC/I.M. Systems Group, College Park, MD; A. Collard, J. C. Derber, J. A. Jung

1:45 P.M.
8B.2 *Generating New Data from Global Navigation Satellites Polar Orbiting Sounders and Himawari 8 to Improve Analysis and Forecasting in the Australian Region.* **J. A. Jung**, CIMSS, Madison, WI; J. F. Le Marshall, D. S. Howard, R. Norman, W. L. Smith Sr., S. J. Rennie, D. Ren, M. Moore, O. Giersch, P. Lehmann

8B.3 *WITHDRAWN*

2:00 P.M.
8B.3A *On the 4-D Consistency of Satellite Wind Products for Regional NWP Data Assimilation.* **M. Portabella**, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain; F. Cossu, I. Monteiro, J. Garcia Pereda, J. Calvo, X. Calbet, A. Stoffelen, G. J. Marseille, S. De Haan, K. Lean, S. Albertema

2:15 P.M.
8B.4 *Assimilation of High Temporal Resolution Giirs in Global 4D-Var.* **Wei Han**, Chinese Meteorological Administration, Beijing, China; R. Yin, D. Di, J. Li, J. Wang, X. Shen, Z. Zhang

2:30 P.M.
8B.5 *A Preliminary Test of OSS Node-Based Assimilation of IASI Radiances.* **P. Liang**, AER, Lexington, MA; A. Lipton, J. Moncet, R. N. Hoffman, S. Boukabara

2:45 P.M.
8B.6 *A Novel Channel-Synthesizing Method for Reducing Uncertainties in Satellite Radiative Transfer Modeling.* **Yinghui Lu**, Pennsylvania State Univ., University Park , PA; F. Zhang

1:30 P.M.–3:00 P.M.
Session 8C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AIR QUALITY II –*Marina Ballroom II*

Chairs: Virginie Buchard, GESTAR/USRA and NASA-GSFC, Greenbelt, MD; Claus Zehner, ESA, Frascati, Italy

1:30 P.M.
8C.1 *North American Pollution Measurements from Geostationary Orbit with Tropospheric Emissions: Monitoring of Pollution (TEMPO).* **K. Chance**, Smithsonian Astrophysical Observatory, Cambridge, MA; X. Liu, G. González Abad, J. Bak, C. Chan Miller, Y. Jung, C. R. Nowlan, A. H. Souri, R. M. Suleiman, H. Wang

1:45 P.M.
8C.2 *Current and Future Geostationary Satellite Missions for Monitoring Air Quality and Atmospheric Composition.* **Aaron Naeger**, Univ. of Alabama in Huntsville, Huntsville, AL; E. Berndt, C. R. Hain, C. P. Jewett, M. Newchurch, S. Alexander

2:00 P.M.
8C.3 *Breaking the Temporal Barrier in Air Quality and Climate Monitoring with Sentinel-4.* **D. Loyola**, DLR German Aerospace Center, Wessling, Germany; M. Aspetsberger, O. Dubovik, D. Fantin, Y. Govaerts, A. Richter, M. Van Roozendael, R. Siddans, J. P. Veefkind, B. Veihelmann, T. Wagner, N. Wright

2:15 P.M.
8C.4 *Monitoring Atmospheric Composition and Long-Range Pollutant Transport with Nucaps Satellite Soundings.* **N. Smith**, Science and Technology Corporation, Columbia, MD; W. Straka III, E. Berndt, A. K. Huff, R. Esmaili, C. D. Barnet, M. D. Goldberg

2:30 P.M.
8C.5 *Improving the Global-Scale Quantification of Extreme Pollution Events By Combining Remotely Sensed Measurements of Short-Lived Gasses, Long-Lived Gasses, Aerosols, and Measured Plume Heights with Models at Different Scales.* **Jason Cohen**, Yat-Sen Univ., Guangdong Sheng, China

2:45 P.M.
8C.6 *Pollution Transported By Hurricane Ophelia: Observations By IASI Compared with CAMS Atmospheric Composition Analyses and Other Remote Sensing Data.* **C. Clerbaux**, LATMOS/IPSL, Sorbonne Université, UVSQ, CNRS, Paris, France; M. George, S. Safieddine, L. Clarisse, Q. Laffineur, M. Fromm, M. Parrington

1:30 P.M.–3:00 P.M.
Session 8D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: CLOUD II –*Marina Ballroom III & IV*

Chairs: J. M. Haynes, CIRA, Fort Collins, CO; Hartwig Deneke, Leibniz Institute for Tropospheric Research, Leipzig, Germany

1:30 P.M.
8D.1 *Improvements in Remotely-Sensed Cloud Properties Using Simple Machine Learning Models.* **Charles H. White**, Univ. of Wisconsin–Madison, Madison, WI; A. Heidinger, S. Ackerman

1:45 P.M.
8D.2 *Quantification of ENSO Linked Changes in the Tropical Atlantic Cloud Vertical Distribution Using 14 Years of MODIS Observations.* **C. Carbajal Henken**, Freie Universität Berlin, Berlin, Germany; N. Madenach, J. Fischer, R. Preusker

8D.3 *WITHDRAWN*

2:00 P.M.
8D.3A *Extratropical to Polar Latitude Trends in Cloud Amount, Temperature, and Thermodynamic Phase from the Atmospheric Infrared Sounder.* **B. H. Kahn**, JPL, Pasadena, CA

2:15 P.M.
8D.4 *The NASA MODIS/VIIRS Cloud Optical Property Continuity Product (CLDPROP) – Version 1 Results and Ongoing Challenges.* **Steven Platnick**, GSFC, Greenbelt, MD; K. Meyer, R. E. Holz, S. A. Ackerman, A. K. Heidinger, N. Amarasinghe, G. Wind, C. Wang, B. Marchant, R. A. Frey

2:30 P.M.
8D.5 *Improvement of Nighttime Cloud Geometric Thickness Retrieval Integrating Multi-Sensor Observations and Numerical Model Simulations.* **S. D. Miller**, CIRA, Fort Collins, CO; Y. J. NOH, J. M. Haynes, J. M. Forsythe, C. J. Seaman, A. Heidinger, A. Walther, Y. Li

2:45 P.M.
8D.6 *Cloud Products for the Atmospheric Copernicus Missions Sentinel-5 Precursor and Sentinel-4.* **Ronny Lutz**, DLR German Aerospace Center, Wessling, Germany; A. Argyrouli, F. Romahn, D. Loyola

1:30 P.M.–3:00 P.M.
Session 8E: TRAINING AND USER PREPARATION: USER PREPARATION I, SATELLITE TRAINING PROGRAMMES AND PLANS –*Burroughs*

Chairs: B. H. Connell, CIRA/Colorado State Univ., Fort Collins, CO; M. Higgins, EUMETSAT, Darmstadt, Germany

1:30 P.M.
8E.1 *Overview of the JPSS Proving Ground Program.* **M. D. Goldberg**, NOAA/NESDIS/JPSS, Lanham, MD; B. Sjoberg, A. Layns, S. S. Nandi, B. Reed

1:45 P.M.
8E.2 *Earth Observations of Atmospheric Composition: Perspectives and Priorities for Training and User Uptake.* **Federico Fierli**, EUMETSAT, Darmstadt, Germany; S. Bojinski, R. Munro, M. Higgins

2:00 P.M.
8E.3 *GOES-R for the Meteorological Service of Canada.* **Matt Arkett**, Meterological Service of Canada, Gatineau, Canada; D. Bradley

2:15 P.M.
8E.4 *NOAA's Joint Polar Satellite System's Proving Ground and Risk Reduction Program: Maintaining a Collaborative Environment to Identify and Solve Future Environmental Challenges.* **B. Sjoberg**, NOAA/NESDIS/JPSS, Lanham, MD; M. Goldberg

2:30 P.M.
8E.5 *Introducing the JPSS Training Initiative.* **B. Ward**, NWS, Honolulu, HI; J. Gerth, M. D. Goldberg

1:30 P.M.–3:00 P.M.
Session 8F: OCEANOGRAPHY AND MARINE METEOROLOGY: MEASURING AND MODELING WAVES, CIRCULATION, AND EDDIES –*Lewis*

Chair: Stephanie Schollaert Uz, Univ. of Maryland, College Park, MD

1:30 P.M.
8F.1 *Ocean-Atmosphere Coupling at Mesoscale.* **W. Timothy Liu**, JPL, Pasadena, CA; X. Xie

2:00 P.M.
8F.2 *Overview of Global Altimetry Based L2P/L3 Sea Level and Significant Wave Height Products.* **M. I. Pujol**, CLS, Ramonville Saint-Agne, France; S. Philipps, I. Denis, M. Lievin, N. Taburet, C. Nogueira Loddo

2:15 P.M.
8F.3 *High Resolution Altimetry Products for Regional Model.* **M. I. Pujol**, CLS, Ramonville Saint-Agne, France; Y. Faugere, S. Dupuy, M. Benkiram, G. Dibarboure, N. Picot

2:30 P.M.

8F.4 *Global Ocean Surface Circulation Monitored through Synergy between Multi-Satellite Measurements.* **F. Lefèvre**, CLS, Ramonville Saint-Agne, France; H. Etienne, M. H. Rio, D. Ciani, R. Santoleri

2:45 P.M.

8F.5 *Cross-Sensor Analysis of Physical and Biological Implications of Eddy Signatures in the Benguela and California Current Regions.* **Sheekela Baker-Yeboah**, STAR, College Park, MD; D. Byrne, E. Leuliette, P. DiGiacomo

3:00 P.M.–4:00 P.M.

SECOND FORMAL VIEWING OF MONDAY/ TUESDAY POSTERS–*GALLERIA*

Poster Session 1: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: POSTERS

1 *Assimilation of GPM-Retrieved Surface Meteorology for Winter Storms during 2018 Olympic and Paralympic Winter Games.* **X. Li**, Univ. of Alabama, Huntsville, AL; J. Srikishen, J. B. Roberts, W. A. Petersen, C. R. Hain

2 *The Impact of Amsua All-Sky Data Assimilation on Super Typhoon Hato Forecast.* **T. Zhang**, National Meteorological Information Center, Beijing, China; L. Jiang, Z. Liu, C. Shi

3 *The Impact of Satellite Data Latency on Local Sever Storm Forecast in Regional NWP.* **P. Wang**, CIMSS/Univ. of Wisconsin, Madison, WI; J. Li, T. J. Schmit, Z. Li, J. Li, A. Lim

4 *Public and Aeronautical Forecasting in West Africa: Contribution of Satellite Imageries and Numerical Weather Prediction Models.* **Abdoul Aziz Abebe Abdou Adam**, ASECNA, Niger

5 *Perusat1 - Use of Mesoscale Model Arome and Satellite Data to Improve Cloud Cover Forecasts over Peru.* **Christophe Périard**, Meteo-France, Toulouse, France; P. Venzac

6 *Comparison of Nwcsaf GEO and PPS Cloud Products.* **O. Nicola**, National Meteorological Administration, Bucharest, Romania; A. Diamandi, R.V. Chiritescu

7 *Quantitative Retrievals of Cirrus Physical Thickness Using ABI and AHI Data.* **R. P. d'Entremont**, AER, Inc., Lexington, MA; R. B. Aschbrenner, R. J. Lynch

8 *Regional Observations Simulation Experiments over the Arctic during the Yopp SOP.* **Z. Q. Wang**, Norwegian Meteorological Institute, OSLO, Norway; R. Randriamampianina

9 *Exploring GOES-16 Data to Improve Aircraft Icing Diagnoses.* **W. L. Smith**, NASA LaRC, Hampton, VA; C. Wang, D. A. Spangenberg, S. Bedka, P. Minnis

10 *Use of GOES Super Rapid Scan Imagery for Analysis and Automated Detection of Ice Crystal Icing and Severe Weather Hazards.* **K. M. Bedka**, NASA, Hampton, VA; K.V. Khlopenkov, C. R. Yost, B. Scarino, C. R. Homeyer, E. M. Murillo, T. Sandmael, J. W. Strapp, J. R. Mecikalski, J. Apke

11 *Rapidly Developing Cumulus Area Detection Using Himawari-8/ AHI Data.* **Hiroshi Suzue**, JMA, Kiyose, Tokyo, Japan; M. J. Pavolonis

12 WITHDRAWN

13 *Towards the Objective Identification and Tracking of Outflow Boundaries in New Generation Geostationary Satellite Imagery.* **J. Apke**, CIRA, Fort Collins, CO; K. Hilburn, S. D. Miller

14 *High Resolution Satellite Winds Estimated from GOES-16 and Its Use for Nowcasting and in Cloud Scale Numerical Weather Models at CPTEC/Inpe.* **Renato Galante Negri**, INPE, Cachoeira Paulista, Brazil; E. P. Vendrasco, D. M. Uba, I. C. Costa, J. H. H. Chinchay

15 *Improved Monitoring of the Evolving Upper-Tropospheric Wind Fields over the Core of Tropical Cyclones Aided By High Spatiotemporal Resolution GOES-16 Atmospheric Motion Vectors.* **C. S. Velden**, CIMSS/Univ. of Wisconsin, Madison, WI; D. Stettner, S. M. Griffin, R. Rabin, S. Wanzong, J. Daniels

16 *Evaluation of GOES-17 AMVs.* **K. Lean**, ECMWF, Reading, U.K.; N. Bormann

17 *Use of Deep-Dive Analysis Tools to Validate GOES-16/17 Atmospheric Motion Vectors.* **A. Bailey**, NOAA/NESDIS, College Park, MD; J. Daniels, W. Bresky, A. Allegrino, S. Wanzong, C. S. Velden

18 *Improved GNSS Radio Occultation Instrument and NWP Assimilation in the Troposphere.* **Jacob B Christensen**, Ruag Space AB, Gothenburg, Sweden; S. B. Healy, A. Carlström

19 *Assessing the Characteristics of Convective Initiation Events Using High-Resolution Model Simulations and GOES-16 Satellite Observations.* **J. A. Otkin**, Univ. of Wisconsin, Madison, WI; D. Henderson, J. Mecikalski, D. Haliczer, X. Li

19A *Nwc SAF GEOV2018, a New Release to Prepare MTG Day-1.* **Gaëlle kerdraon**, Météo-France, Lannion, France; H. Le Gléau, S. Péré

Poster Session 2: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: POSTERS I

20 *Nwc SAF MTG-LI Prototype Products.* **A. Diamandi**, National Meteorological Administration, Bucharest, Romania

21 *Adding a Mission to the Joint Polar Satellite System (JPSS) Common Ground System (CGS).* **Jeremy Bargen**, Raytheon Intelligence, Information and Services, Aurora, CO; S. Neddermeyer, P. Smit, S. W. Miller

22 *The Joint Polar System: A EUMETSAT-NOAA Collaboration.* **Barbara B Grofic**, JPSS, Greenbelt, MD; J. Gros

23 *FCI Instrument on-Board Meteosat Third Generation Satellite - Critical Design Review Outcome and Development Status.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; P. Martin

24 *Meteosat Third Generation Infrared Sounder (MTG-IRS), New Technologies and Testing Outcomes.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; C. Degrelle, D. Scheidel, P. Astruc, L. Soulat, C. Ardisson, A. Accettura, D. Lamarre, D. M. A. Aminou, B. Theodore, D. Coppens, S. Gigli, B. Verez

25 *Meteosat Third Generation Flight Operations Preparation.* **S. Abdon**, Thales Alenia Space, Cannes La Bocca, France; L. Despoisse, J. Nakache, F. Perez-Zabalza, J. Anderson, F. Becherini, E. Cerone, A. Birtwhistle, M. Legendre, F. Murolo, E. Bouchez

26 *Combining GOES-16 and Surface Ceilometer Data to Improve Cloud Ceiling Estimates over the U.S.* **D. A. Spangenberg**, SSAI, Hampton, VA; W. L. Smith Jr., K. Khlopenkov

27 *Radiometric Characterization and Calibration of GOES-R ABI IR Bands.* **Zhipeng Wang**, STAR, College Park, MD; X. Wu, F. Yu, H. Yoo, H. Qian

28 *Uncertainties of 3MI's Polarimetric Measurements over Inhomogeneous Cloud Scenes.* **S. Hioki**, Univ. Lille, Lille, France; J. Riedi, M. S. Djellali, H. Shang

29 *VIIRS-Aurora Citizen Science Project.* **W. Straka**, CIMSS, Madison, WI; M. Mooney, L. Gumley

30 *Tropical Cyclone Lightning Observed from the GOES-16/17 GLM.* **Stephanie N. Stevenson**, CIRA/NHC, Miami, FL; C. J. Slocum

S1 *A Passive Microwave Retrieval Algorithm with Minimal Scan Position Bias: Application to the Tempest-D Cubesat.* **R. Schulte**, Colorado State Univ., Fort Collins, CO; C. Kummerow, W. Berg, S. C. Reising, V. Chandrasekar, S. T. Brown, B. Lim, S. Padmanabhan, T. Gaier

31 *On the Use of Spectro-Polarimetry for Cloud Detection and Characterization – Operational Implementation for EPS-SG/3MI.* **B. Fougnie**, EUMETSAT, Darmstadt, Germany; J. Riedi, F. Thieuleux, N. Henriot, M. Compiègne, L. Labonnote, N. Ferlay, R. Lang, R. Munro, P. Dubuisson, F. Parol, T. marbach

32 *Towards EPS-SG Metimage/3MI Synergy Products: Co-Location and Cloud Parallax Correction.* **A. Bozzo**, ECMWF, Reading, U.K.; G. Poli, R. Lang, L. Spezzi, P. Watts, B. Fougnie, R. Munro

33 *Advanced Visible-Infrared Imaging Spectroradiometer (AVIIS) for Global, High Spatial Resolution Atmospheric Sounding and Operational Imaging.* **Jeffery J. Puschell**, Raytheon Space and Airborne Systems, El Segundo, CA; L. Cook, S. Cochran

34 *Decision-Making Beyond Technology: Quantifying the Return on Investment of NOAA/Nesdis's Technology Maturation Portfolio.* **Elsayed Talaat**, NOAA, Silver Spring, MD; P. Weir, P. E. Ardanuy, S. E. Sussan

35 *Orbital Analysis for the Metnet Small Weather Satellite Constellation.* **J. Fisher**, Brandywine Photonics, Exton, PA; D. Guerin, J. Kujawski, J. Julian, Z. Burns, L. L. Gordley

37 *The Development and Use of VIIRS Cloud Information in the CrIS Sdrs for NWP.* **J. A. Jung**, CIMSS, Madison, WI; A. Heidinger, H. Sun, M. D. Goldberg

38 *Study on the Nominal Fixed Grid Definition for the GEO Weather Satellite.* **Lei Yang**, National Satellite Meteorological Center, China Meteorological Administration, beijing, China; J. Wang, C. Liu, J. S.

39 *Lessons Learned Delivering GOES-16 & 17 Imagery to the Public.* **Lori K. Brown**, Caelum Research, College Park, MD

40 *The Future of the Weather Value Chain.* **S. W. Miller**, Raytheon Intelligence, Information and Services, Aurora, CO

41 *Striping and Mitigation Strategies for GOES-R ABI L1b Data.* **J. Fulbright**, Arctic Slope Technical Services, Greenbelt, MD; D. Pogorzala, E. Kline

42 *The NASA MODIS/VIIRS IR Cloud Properties (CLDPROP-IR).* **A. Heidinger**, NOAA/NESDIS/STAR, Madison, WI

43 *Metop-C AMSU-a and AVHRR Calibration and Validation in STAR/NOAA: Status and Prospective.* **Banghua Yan**, STAR, College Park, MD; X. Wu, J. Chen, K. A. Ahmad, S. Kireev, C. Zou, H. Qian

44 *GLM Product Evaluation Using Ground-Based Lightning Detection Networks.* **Ryo Yoshida**, CICS, College Park, MD; S. D. Rudlosky, R. R. Ferraro

S2 *Comparison of Interferometer Versus Diffraction Grating Based Designs for LEO High Resolution Infrared Sounder Constellations.* **Cordelia David**, Brandywine Photonics, LLC, Exton, PA; D. Guerin, J. Kujawski, J. Fisher, J. Julian, Z. Burns

45 *Metop Second Generation – Payload Overview.* **M. Porciani**, European Space Agency/ESTEC, Noordwijk, Netherlands; M. loiselet, V. Kangas, L. salghetti Drioli, U. Klein, A. Østergaard, A. Garcia-Rodriguez, G. Mason

45A *Metop Second Generation – Satellites System Overview.* **Hubert Barré**, ESA / ESTEC, Noordwijk, Netherlands; M. Betto, G. Mason, M. Pendaries, H. Mercille, M. Huchler, R. Fayard

46 *GEO-Class Weather Payloads for Persistent Arctic Coverage.* **P. C. Griffith**, Harris, Fort Wayne, IN; J. Van Naarden, D. Gall

47 *Adopting Nesdis Enterprise Algorithms to Create Environmental Products from EPS-SG Sensors.* **S. Kalluri**, NOAA/NESDIS/STAR, College Park, MD; C. Cao

48 *Algorithm Scientific Software Integration and System Transition Team (ASSISTT) in Transition from Research to Operations.* **Priya R. Pillai**, IMSG, College Park, MD; H. Xie, E. McWilliams, K. Allen, T. Yu, B. Morris, C. Selman, A. Russakoff, S. Sampson, W. Wolf

49 *The Compact Hyperspectral Infrared Sounding Interferometer Instrument Design.* **J. Fisher**, Brandywine Photonics, Exton, PA; J. Julian, J. Kujawski, D. Guerin, Z. Burns, D. A. Santek, F. Grandmont, L. M. Moreau

50 *Early Aeolus Results.* **L. Isaksen**, ECMWF, Reading, U.K.

51 *Design and Development of the Microwave Instrument for Metop Second Generation.* **P. Colucci**, EUMETSAT, Darmstadt, Germany; T. Lupi, W. Di Nicolantonio, M. Grilli, F. Tominetti, F. Bayle, C. Bredin, C. Malassingne, C. Tabart, E. De Viti, E. Vetrano, S. D'addio, L. Salghetti Drioli

52 *Mistic Winds, a Micro-Satellite Constellation Approach to High Resolution Observations of the Atmosphere Using Infrared Sounding and 3D Winds Measurements-Airborne Demonstration Observations.* **Kevin Maschhoff**, BAE Systems, Arlington, VA; J. J. Polizotti, J. Susskind, H. H. Aumann

S3 *Climatology of Lightning in Tropical Cyclones As Observed By TRMM Lightning Imaging Sensor.* **Adrian Lopez**, Florida International Univ., Miami, FL; H. Jiang

Poster Session 3: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: POSTERS

53 *Comparison between Derived Cloud Height and Observed Rainfall over African Tropical Region Using MSG Satellite Data.* **Peter Masika**, Kenya Meteorological Departmen, Nairobi, Kenya

54 *Large Hail and Tornadoes in Lithuania: Quantitative Analysis and Impact.* **Izolda Marcinoniene**, Lithuanian Hydrometeorological Service, Vilnius, Lithuania

55 *Assessing Droughts in SE Europe By Combined Vegetation and Evapotranspiration Signal Using Land Surface Analysis Satellite Application Facility.* **Bostjan Muri**, Slovenian Environment Agency, Ljubljana, Slovenia; M. Irsic Zibert, A. Susnik, G. Gregoric, J. Campa

56 *Modelling of Winter Wheat Yields in Ukraine Using Satellite-Derived Vegetation Indices.* **Inna G. Semenova**, Odessa State Environmental Univ., Odessa, Ukraine

57 *Recent Trends and Variability in the Extreme Precipitation Events over Different Climatic Zones in Nigeria(1983-2017) Using NASA Data.* **E. O. Ogolo**, The Federal Univ. of Technology, Akure, Nigeria; B. Adeyemi, O. J. Matthew, M. A. Ayoola

58 *Thermodynamic VIEW of Water-Energy-Carbon Nexus in the Context of Satellite DATA Application for FOOD Security.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; J. S. Stoyanova, P. N. Neytchev

59 *Agricultural Drought Monitoring Method Integrating MODIS and Crowdsourced Data.* **Ana Paula Martins do Amaral Cunha**, National Centre for Monitoring and Early Warnings of Natural Disasters-Cemaden, São José dos Campos, Brazil; M. Zeri, L. Costa, G. Ribeiro Neto

60 *Application of Remote Sensing Technology Using Climatic Variables to Monitor Wildfire Outbreak in Tanzania.* **Kekilia Alfred Kabalimu**, Ministry of Natural Resources and Tourism, Dar Es Salaam, Tanzania, United Republic of

61 *Link between Several Land Surface Variables Disseminated By the Lsa SAF.* **S. L. Ermida**, IPMA Instituto Portugues do Mar e da Atmosfera, Lisboa, Portugal; A. Hurduc, C. DaCamara, I. Trigo

62 *Modelling of Wine Production Using Land Surface Temperature and Fapar – the Case of the Douro Wine Region.* **C. M. Gouveia**, IDL Instituto Dom Luiz, Faculdade de Ciencias, Universidade de Lisboa, Lisba, Portugal; C. Magarreiro, I. Trigo

63 *Tornados in the Biobío Region of Chile.* **Marta Caneo**, Dirección Meteorológica de Chile (Meteochile), Chile; C. Barahona, R. Abarca

64 *A National Disaster 2018: The Greenvile Floods, Trinidad and Tobago.* **Carol Subrath-Ali**, Trinidad and Tobago Meteorological Service

65 WITHDRAWN

Poster Session 4: SIGNIFICANCE OF SATELLITE DATA FOR MONITORING THE POLAR REGIONS: POSTERS

66 *Atmospheric Composition Measurements over Northern Finland.* **Rigel Kivi**, Finnish Meteorological Institute, Sodankylä, Finland; J. Kujanpää, P. Heikkinen, X. Calbet, H. Lindqvist

67 *Adaptation of MODIS Sea Ice Leads Detection Algorithm to VIIRS.* **Jay P. Hoffman**, CIMSS/Univ. of Wisconsin, Madison, WI; S. A. Ackerman, Y. Liu, J. R. Key

68 *Blended VIIRS and AMSR2 Sea Ice Concentration.* **Richard Dworak**, CIMSS/Univ. of Wisconsin, Madison, WI; Y. Liu, J. R. Key

69 *Ice Products from NOAA Operational LEO and GEO Satellites.* **Xuanji Wang**, CIMSS, Madison, WI; J. R. Key, Y. Liu, R. Dworak, M. A. Tschudi, A. Letterly, S. R. Helfrich

Poster Session 5: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: POSTERS I

70 *Near Real Time LEO Level-2 Products Via Direct Broadcast Using the Community Satellite Processing Package.* **G. Cureton**, Univ. of Wisconsin, Madison, WI

71 *NOAA's Microwave Integrated Retrieval System (MiRS): Operational Update, Applications, and Recent Scientific Progress.* **Christopher Grassotti**, CICS, College Park, MD; S. Liu, R. Honeyager, Y. Lee, Q. Liu, J. M. Forsythe, G. Chirokova

72 *Naval Research Laboratory Tropical Cyclone Satellite Products: An Update.* **R. Bankert**, Naval Research Laboratory, Monterey, CA; S. Yang, J. Cossuth, C. Johnson, M. Surratt, J. Kent, C. Sampson

73 *Advanced Satellite Ground System for the New Generation of Meteorological Satellites.* **Hae-Yong Shin**, Enterprise Electronics Corporation, Enterprise, AL; E. Baptiste, W. Yuan, T. Schulz, C. Skelsey

74 *Total Column Water Vapor Product Derived from OMI.* **H. wang**, Smithsonian Astrophysical Observatory, Cambridge, MA; A. H. Souri, G. Gonzalez Abad, X. Liu, K. Chance

75 *Development of a Cloud Detection and Cloud Type Discrimination Method Based on Support Vector Machine for Multi-Channel Imagers.* **Haruma Ishida**, JMA, Kiyose, Japan

76 *Spatial Rainfall Uncertainty Observed Using Spaceborne Radars.* **Masafumi Hirose**, Meijo Univ., Nagoya, Japan

S4 *Comparison of Nearly Co-Incident Cloud Top Heights (CTH) from MISR, Terra MODIS and ISS-Cats to Verify Long-Term Cth Records.* **Arka Mitra**, Univ. of Illinois, Urbana Champaign, Urbana, IL; L. Di Girolamo, Y. Hong, K. Mueller

77 *Shortwave Radiation Budget Products from GOES and Meteosat.* **Hye-Yun Kim**, IMSG at NOAA/NESDIS/STAR, College Park, MD; I. Laszlo, H. Liu

78 *Investigation of the Relationship between Observed Cloud Condensation Nuclei and Retrieved Cloud Droplet Number Concentration over the Yellow Sea Using in-Situ Aircraft and Satellite Measurements.* **Yiseok Isaac Yang**, Yonsei Univ., Seoul, Korea, Republic of (South)

79 *An Evaluation of Cloud Vertical Structure in Three Reanalyses Against Cloudsat/Calipso.* **Xiaocong Wang**, LASG, Beijing, China; H. Miao

80 *CSPP SDR and CSPP VIIRS ASCI, Level 1 and 2 Cloud Products at Your Fingertips.* **Scott Mindock**, Verona, WI; G. Martin, N. A. Bearson, L. Gumley, A. Huang, K. I. Strabala, R. Garcia

81 *Gridsat B1, ISCCP and View Zenith Angle Corrections for Infrared Window Channels.* **Kenneth R. Knapp**, NOAA, Asheville, NC; A. H. Young, A. K. Inamdar, W. Hankins

82 *Evolution of the Sentinel-3 Olci Total Column Water Vapour Product.* **R. Preusker**, Freie Universität Berlin, Berlin, Germany; J. Fischer

83 *Satellite Observations of Water Vapor and Its Impact on Climate Change.* **Venkata Subba Reddy Imma Reddy**, GITAM, Hyderabad, SangaReddy, Telangana, India

84 *CIRA Specialized Satellite Data Products and Visualization Tools for GOES, JPSS and Himawari.* **Natalie Tourville**, CIRA, Fort Collins, CO; D. A. Molenar, K. Micke

85 *An Update on the CIMSS Satellite Consensus (SATCON) Tropical Cyclone Intensity Algorithm.* **C. S. Velden**, CIMSS/Univ. of Wisconsin, Madison, WI; D. Herndon

86 *Evaluation of CERES Edition 4 Cloud Properties.* **Christopher Rogers Yost**, SSAI, Hampton, VA; W. L. Smith Jr., Q. Z. Trepte, S. Sun-Mack

87 *Tropical Mean Study: A Validation Tool for Clouds and Earth's Radiant Energy System (CERES) Instruments Aboard Terra, Aqua, S-NPP and NOAA-20 Spacecraft Using Tropical Ocean Measurements.* **Susan Thomas**, Science Systems and Applications, Inc, Hampton, VA; K. J. Priestley, D. Walikainen

88 *Assistt's Use of Sapf and Att for L2 Algorithm Transition from Research to Operations.* **E. Claire McCaskill**, IMSG, College Park, MD; K. Neely, H. Xie, S. Sampson, W. Wolf

S5 *Enhancement of Global Satellite Precipitation Estimates Using Deep Learning Techniques in Cloud Classification from New Generation of Geostationary Satellites.* **Vesta Afzali Gorooh**, Univ. of California, Irvine, Irvine, CA; P. Nguyen, K. Hsu, S. Sorooshian

89 *Evaluation of NOAA-20/S-NPP VIIRS Rsb Calibration Performance during Post-Launch Test, Long-Term Operational Monitoring, and Reprocessing over Daily Deep Convective Clouds.* **W. Wang**, Global Science & Technology, Inc, College Park, MD; C. Cao, S. Blonski, T. choi, S. Uprety, X. Shao

90 *Cross-Calibration of Water Vapor Absorption Bands from International Geostationary Satellites for Consistent Climate Data Record.* **J. Li**, CIMSS/Univ. of Wisconsin, Madison, WI; Z. Li, M. Gunshor, S. Moeller, T. J. Schmit, W. McCarty

91 *Interpolation and Footprint Matching of Windsat Antenna Temperatures.* **M. H. Bettenhausen**, NRL, Washington, DC; W. F. Johnston, P. W. Gaiser

92 *Super Fast Radiative Transfer Model for Analyzing Hyperspectral Satellite Remote Sensing Data.* **Xu Liu**, NASA LaRC, Hampton, VA

93 *Overview and Future Plan of Water-Related Products from the Advanced Microwave Scanning Radiometer (AMSR) Series.* **N. Ebuchi**, JAXA, Tsukuba-shi, Japan; M. Kachi, T. Maeda, N. Ono, H. Fujii, M. Kasahara

94 *Straightening up Cross-Track Scanning Microwave Radiometer Brightness Temperatures to Improve the Temporal Coverage in the Tropics.* **Bruno Picard**, Fluctus SAS, Rabastens, France; L. Eymard, M. Leduc-Leballeur

95 *GOME-2 Coud Products from Metop-A/B/C Derived from the Oxygen Absorption Bands.* **P. Stammes**, KNMI, De Bilt, Netherlands; P. Wang, O. Tuinder, M. Desmons

96 *IASI-C Results from Cal/Val Activities.* **Bertrand Theodore**, EUMETSAT, Darmstadt, Germany; M. Vasquez, S. Guedj, D. Coppens

97 *Software Requirements for Supporting Research-to-Operations at NOAA and Their Implementation in the New Sapf 2.0 Framework.* **Alexander Ken**, I.M. Systems Group, College Park, MD; T. S. King, W. Wolf

98 *The National Oceanic and Atmospheric Administration (NOAA)'s Satellite and Information Service's (NESDIS) Satellite Products and Services Review Board (SPSRB) Process.* **Ashley Nechole Griffin**, NOAA/NASA/STC, Lanham, MD

99 *Extensive Validation of Fengyun-4A Agri Layer Water Vapor Products.* **Yong Zhang**, National Satellite Meteorological Center/ China Meteorological Adiministration, Beijing, China; D. Wu, H. Zhao, Z. Li, J. Li

100 *The Complete Data Fusion for Synergistic Exploitation of Geostationary and Low Earth Orbit Level 2 Atmospheric Products.* **N. Zoppetti**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, B. Carli, S. Del Bianco, M. Gai, C. Tirelli, F. Barbara, R. Dragani, A. Arola, J. Kujanpää, J. Van Peet, R. Van Der A, U. Cortesi

101 *Web-Based Open Access Real-Time Satellite VIS/IR Calibration Coefficients and Spectral Band Adjustment Factors (SBAF) Designed for Blending Satellite Data for the CERES Project.* **A. Gopalan**, Science Systems and Applications Inc., Hampton, VA; B. Scarino, D. R. Doelling, T. Chee, C. O. Haney, R. Bhatt

102 *CIRA Ground Station Storage System Architecture Using Ceph.* **Natalie Tourville**, CIRA, Fort Collins, CO; M. Hiatt, R. Brummer

103 *Using Satellite Observations to Detect the Tropical Cyclone Diurnal Cycle and the Landfall before the Landfall.* **J. P. Dunion**, Cooperative Institute for Marine and Atmospheric Studies/Univ. of Miami and NOAA/AOML/HRD, Miami, FL; C. D. Thorncroft, C. S. Velden, B. McNoldy

104 *Atypical Atmospheric Dynamical Events Observed from Sage III ISS.* **K. R. Leavor**, SSAI, Hampton, VA; D. E. Flittner, M. M. Roell

105 WITHDRAWN

106 *Moving a Refreshed Data Processing System into the Cloud.* **Scott M. Kern**, JPSS, Aurora, CO; J. M. Olson, E. A. Greene, S. W. Miller, M. A. Whatley

107 *The Power of the Cloud for Enterprise Ground Operations and Development.* **Allan Weiner**, Harris Corporation, Melbourne, FL

108 *GOES-17 ABI L1b and CMI Products Performance.* **X. Wu**, NOAA, College Park, MD; F. Yu, M. Black, C. Cao, M. Coakley, M. J. Cook, J. Fulbright, M. Gunshor, S. Guo, D. Igli, E. Kline, V. Kondratovich, D. T. Lindsey, J. McCorkel, F. Padula, D. Pogorzala, H. Qian, A. Reth, T. Schmit, M. Seybold, J. Van Naarden, Z. wang, H. Yoo

109 *Bias Correction of Daily Satellite-Based Rainfall Estimates over Egypt.* **Tamer A. Gado**, Tanta Univ., Egypt; B. A. Shalaby, I. M. H. Rashwan

110 *Effects of GPS Rollover on the Automatic Weather Stations of the National Meteorological and Hydroilogical Service of Peru (SENAMHI).* **Jorge Chira La Rosa**, National Meteorological and Hydrological Service of Peru, Peru; F. Rivera

111 *The Role of Satellite Data in Belize.* **Dwayne Scott**, National Meteorological Service of Belize, Belize

112 *The Use of GOES-East Infrared Channels for the Identification of Regions of Deep Confection in Tropical Storm Nate in Costa Rica.* **Eladio H. Soano León**, Instituto Meteorolólogo Naciona, Costa Rica

113 *Scientific Quality Improvement of Level-2 Products When Using Paddedsegment Processing in the STAR Algorithm Processing Framework (SAPF) Version 2.0.* **A. Russakoff**, IMSG, College Park, MD; C. Selman, G. Villamil-Otero, B. Helgans, A. Ken, T. King, W. Wolf

113A *Search and Rescue Satellite Aided Tracking.* **Aaron Colohan**, NOAA/NESDIS/Office of Satellite and Product Operations, College Park, MD; M. Turner

Poster Session 6: TRAINING AND USER PREPARATION: POSTERS

114 *A New View of Our Skies: The GOES-R Satellite Series in Action.* **Eleanor Vallier-Talbot**, NOAA/NWS, Norton, MA

115 *Recent CIRA VISIT and Shymet Training Activities on GOES-R Series Applications.* **D. Bikos**, CIRA, Ft. Collins, CO; E. Szoke, B. H. Connell, E. L. Dagg

116 *Work of the Convection Working Group in Supporting Nowcasting Research to Operations for the New Satellite Programmes.* **Vesa Nietosvaara**, EUMETSAT, Darmstadt, Germany

117 *Comet's MetEd Learning Resources: Enhancing Application of New Generation Geostationary and Polar-Orbiting Satellites for the International User Community.* **Patrick Dills**, UCAR/COMET, Boulder, CO; A. Stevermer

118 *JPSS Products in Numerical Weather Prediction: Achievements, Future Plans, and Lessons Learned from the JPSS Proving Ground.* **Laura J. Dunlap**, JPSS/Science & Technology Corp., Lanham, MD; N. Chowdhury

119 *The Rise of Micro-Training Related to User Applications of New Satellite Products.* **A. LeRoy**, Univ. of Alabama in Huntsville, Huntsville, AL; K. K. Fuell, E. Berndt

120 *Real-Time 3D Image Generation from the GOES-16/17 Satellites.* **K. D. White**, NWS, Huntsville, AL; K. M. McGrath

121 *Using the Guidelines on Satellite Skills and Knowledge for Operational Meteorologists to Support Competency Development.* **L. Veeck**, LLC, North Baddesley Southampton, U.K.

4:00 P.M.–5:45 P.M.
Session 9A: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: CLIMATE – *Harbor Ballroom*

Chairs: S. Kalluri, NOAA/NESDIS/STAR, College Park, MD; J.N. Thépaut, ECMWF, Shinfield Park, UK

4:00 P.M.
9A.1 *Advancing Earth Observing Data in Weather and Climate.* **J. Wei**, GSFC, Greenbelt, MD

4:15 P.M.
9A.2 *Representation of Regular Climate Variations in the EUMETSAT Atmospheric Motion Vector Climate Data Record.* **Alessio Lattanzio**, EUMETSAT, Darmstadt, Germany; M. Doutriaux Boucher, R. Huckle, O. Sus, L. Medici, M. Grant, J. Schulz

4:30 P.M.
9A.3 *Microwave Soundings for Climate Research.* **B. Lambrigtsen**, JPL, Pasadena, CA; E. Fishbein, M. Schreier

4:45 P.M.
9A.4 *Validation of Satellite (TMPA and IMERG) Rainfall Products with the IMD Gridded Datasets over Monsoon Core Region of India.* **H.A. Barbosa**, Federal Univ. of Alagoas, Maceió, Brazil; T.V. Lakshmi Kumar, M. K. Thakur, F. Paredes

5:00 P.M.
9A.5 *Coordinated Sustainment of Climate Data Records through SCOPE-CM.* **Jeffrey L. Privette**, NOAA/NESDIS/National Centers for Environmental Information, Asheville, NC; L. Schüller, J. Schulz, W. Balogh, S. Bojinski

5:15 P.M.
9A.6 *Some Recommended Practices for Incorporating Satellite Data into Operational Climate Monitoring.* **Derek S. Arndt**, NOAA NCEI, Asheville, NC

9A.7 *WITHDRAWN*

5:30 P.M.
9A.7A *ISCCP and VIIRS: Adapting New Instruments to Extend Historical Climate Data Records.* **Kenneth R. Knapp**, NOAA, Asheville, NC; A. H. Young, A. K. Inamdar, W. Hankins

4:00 P.M.–5:30 P.M.
Session 9B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER

PREDICTION: DATA ASSIMILATION III –*Marina Ballroom I*

Chairs: Pei Wang, CIMSS/Univ. of Wisconsin, Madison, WI; J. Bedard, EC Canada, Dorval, Canada

4:00 p.m.
9B.1 *Improving ABI Radiance Assimilation over Land for Tropical Cyclone Forecast in a Regional NWP Model By Considering the Surface Effects.* **J.R. Lee**, Cooperative Institute for Meteorological Satellite Studies, Madison, WI; J. Li, Z. Li, P. Wang, J. Li

4:15 p.m.
9B.2 *Assimilation of Cygnss Ocean Surface Winds for Improved Prediction of Tropical Cyclones and Tropical Convection.* **Zhaoxia Pu**, Univ. of Utah, Salt Lake City, UT; Z. Cui

4:30 p.m.
9B.3 *Observations-Based Metrics for the Selection of the Most Realistic Members from an Ensemble Hurricane Forecasts to Decrease Forecast Uncertainty and to Study Multi-Scale Interactions: Focus on Rapid Intensification.* **Svetla Hristova-Veleva**, JPL/California Institute of Technology, Pasadena, CA; H. Leighton, S. Gopalakrishnan, Z. S. Haddad

4:45 p.m.
9B.4 *GNSS-RO Data Assimilation and Impact Studies at JCSDA/NCEP.* **Hui Shao**, JCSDA, College Park, MD; F. vandenberghe, S. Dutta, H. Zhang

5:00 p.m.
9B.6 *Impact of SMAP Soil Moisture Data Assimilation on Short-Range Numerical Weather Prediction.* **N. J. Elmer**, Univ. of Alabama in Huntsville, Huntsville, AL; C. B. Blankenship, J. L. Case

9B.5 *WITHDRAWN*

5:15 p.m.
9B.5A *Recent Updates to the Eccc Global and Regional Prediction Systems.* **Judy St-James**, EC, Dorval, Canada; A. Beaulne, S. Laroche, S. Heilliette, S. R. Macpherson, I. Mati, M. Reszka, T. Milewski, L. Garand

4:00 p.m.–5:30 p.m.

Session 9C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AIR QUALITY III –*Marina Ballroom II*

Chairs: Claus Zehner, ESA, Frascati, Italy; Virginie Buchard, GESTAR/USRA and NASA-GSFC, Greenbelt, MD

4:00 p.m.
9C.1 *Off-Line Constraints on Urban NOx Emissions within NAM-CMAQ Using Tropomi Tropospheric NO2 Retrievals.* **B. Pierce**, Space Science and Engineering Center/Univ. of Wisconsin-Madison, Madison, WI; A. Lenzen, T. Jasmin, P. C. Lee, Y. Tang, P. F. Levelt

4:15 p.m.
9C.2 *Comparing Tropomi Satellite NO2 Column Retrievals with Monitored NO2 over the NYC Area during July-August 2018 and January-February 2019.* **Michael Geigert**, CT DEEP, Hartford, CT

4:30 p.m.
9C.3 *Exploring Factors Affecting the Inference of Surface-Level NO_2 from Orbital and Suborbital Tropospheric Column Observations.* **W. H. Swartz**, APL, Laurel, MD; L. N. Lamsal, M. B. Follette-Cook, K. E. Pickering, S. Choi, D. J. Allen, C. P. Loughner, K. W. Appel

4:45 p.m.
9C.4 *Estimation of Ground SO Concentrations through the Synergistic Use of Satellite Data and Numerical Models.* **Yoojin Kang**, UNIST, Ulsan, Korea, Republic of (South); M. shin, J. Im, S. Park

5:00 p.m.
9C.5 *Tropospheric SO2 and NO2 in 2012 - 2018: Contrasting Views of Two Sensors (OMI and OMPS) from Space.* **J. Wang**, Univ. of Iowa, Iowa City, IA; Y. Wang, K. Yang

5:15 p.m.
9C.6 *Satellite Detection of a Large Decline of SO2 Pollution over the Eastern US (2012 - 2018).* **Kai Yang**, Univ. of Maryland, College Park, MD; B. Wang, D. Tong

4:00 p.m.–5:30 p.m.

Session 9D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: CLOUD III –*Marina Ballroom III & IV*

Chairs: Stephen Platnick, NASA/GSFC, Greenbelt, MD; Piet Stammes, KNMI, De Bilt, Netherlands

4:00 p.m.
9D.1 *Investigating Convective Organization Impacts and Implications in Merged LEO-GEO Satellite Observations.* **Juliet A. Pilewskie**, Univ. of Wisconsin, Madison, WI

4:15 p.m.
9D.2 *Novel Methods of Remote Sensing Updraft Speed at Cloud Base, Radiative Cooling at Cloud Top, and Degree of Coupling between Clouds and Boundary-Layer.* **Zhanqing Li**, Univ. of Maryland, College Park, MD

4:30 p.m.
9D.3 *Towards Continuity in Cloud Top Heights from MODIS to VIIRS with Fusion-Based VIIRS-CrIS Infrared Absorption Radiances.* **Bryan A. Baum**, Science and Technology Corporation, Madison, WI; Y. Li, A. Heidinger, E. Weisz, P. Menzel

4:45 p.m.
9D.4 *The Impact of Liquid Cloud Vertical Profile and Cloud Top Entrainement on Droplet Size Retrieval from 3MI.* **H. Shang**, Univ. Lille, France; J. Riedi, S. Hioki, M. S. Djellali, G. Pénide, C. Cornet, H. Letu

5:00 p.m.
9D.5 *Ice Cloud Optical Property Models for Passive Satellite Remote Sensing: From Unrealistic Spherical Model to Spectrally Consistent Models.* **B. Baum**, Space Science and Engineering Center, Madison, WI; P. Yang, K. N. Liou

5:15 p.m.
9D6.A *Status of ISCCP H-Series Data; 35 Years and Counting.* **A. K. Inamdar**, CICS, Asheville, NC; A. H. Young, K. R. Knapp, W. Hankins

9D.6 *WITHDRAWN*

4:00 P.M.–6:00 P.M.

Session 9E: TRAINING AND USER PREPARATION: USER PREPARATION II, BEST PRACTICES – *BURROUGHS*

Chairs: Jochen Grandell, EUMETSAT, Darmstadt, Germany; Amy Stevermer, UCAR/COMET, Boulder, CO

4:00 P.M.
9E.1 *Training and New Programme User Preparation at EUMETSAT.* **M. Higgins**, EUMETSAT, Darmstadt, Germany; S. Bojinski

4:30 P.M.
9E.2 *Satellite Product Evaluations in the Hazardous Weather Testbed (HWT).* **Michael A. Bowlan**, CIMMS/Univ. of Oklahoma, Norman, OK

5:00 P.M.
9E.3 *Some Lessons Learned from the CIRA GOES-R Proving Ground Effort.* **E. Szoke**, NOAA/ESRL/GSD and CIRA, Boulder, CO; D. Bikos, B. H. Connell, R. Brummer, H. Gosden, J. Torres, S. Miller, D. Lindsey, D. W. Hillger, D. A. Molenar, C. J. Seaman

5:15 P.M.
9E.4 *Building Short Examples to Highlight Successful Learning and Meet WMO Competency Guidelines for Satellite Skills for Operational Meteorologists.* **B. H. Connell**, CIRA/Colorado State Univ., Fort Collins, CO; E. L. Dagg, L. Veeck

5:30 P.M.
Panel Discussion: User Preparation Best Practices and Lessons Learned.

4:00 P.M.–5:30 P.M.

Session 9F: OCEANOGRAPHY AND MARINE METEOROLOGY: AIR-SEA INTERACTION –*LEWIS*

Chairs: Stephanie Schollaert Uz, Univ. of Maryland, College Park, MD; Estelle Obligis, EUMETSAT

4:00 P.M.
9F.1 *Surface Turbulent Fluxes in Convection: Using Cygnss Observations to Improve Sampling of Satellite-Based Flux Estimates in the Tropics.* **J. B. Roberts**, NASA MSFC, Huntsville, AL; T. J. Lang

4:15 P.M.
9F.2 *Global Trends in Ocean Evaporation from Satellite Products.* **C. A. Clayson**, WHOI, Woods Hole, MA; J. B. Roberts, F. R. Robertson, S. Wijffels

4:30 P.M.
9F.3 *Diurnal Air-Sea Coupling, Air-Sea Fluxes, and the Upper Ocean State during the Suppressed Phase of the Madden Julian Oscillation.* **James B Edson**, WHOI, Woods Hole, MA; C. A. Clayson, J. B. Roberts

4:45 P.M.
9F.4 *Progress on Satellite Microwave Observations of Whitecaps and Air-Sea Fluxes.* **Magdalena D. Anguelova**, NRL, Washington, DC; M. H. Bettenhausen

5:00 P.M.
9F.5 *A Global Comparison of Hoaps-4 and Other Global Latent Heat Flux Products with Associated Uncertainties.* **J. W. Kaiser**, Deutscher Wetterdienst, Offenbach, Germany; M. Gutenstein-Penning de Vries, M. Schröder, K. Fennig, R. Hollmann, E. C. Kent

5:15 P.M.
9F.6 *Modeling Inherent Optical Properties (IOPs) in Different Water Types: Heating Rates, Air-Sea Fluxes and Phytoplankton Community Structure.* **Bronwyn Cahill**, Free Univ. Berlin, Berlin, Germany; B. Juhls, L. Kritten, R. Preusker, J. Fischer, J. Wilkin, J. C. Warner, N. Ganju

Wednesday, October 02

7:30 A.M.–5:30 P.M.	Registration–Harbor Foyer
10:00 A.M.–10:30 A.M.	Coffee Break (Sponsored by Solers)–Galleria Hall
12:00 P.M.–1:30 P.M.	Lunch Break
3:00 P.M.–4:00 P.M.	Formal Poster Viewing and Coffee Break (KBR)–Galleria Hall

8:30 A.M.–10:00 A.M.

Session 10: CELEBRATING THE 60TH ANNIVERSARY OF THE FIRST WEATHER SATELLITE, ITS EVOLUTION, AND INTERNATIONAL PARTNERSHIPS. –*Harbor Ballroom*

Chairs: Mitch Goldberg, NESDIS, Lanham, MD; K. Holmlund, EUMETSAT, Darmstadt, Germany

8:30 A.M.
10.1 *Realization of a Dream: The New Generation of Meteorological Satellites.* **James Purdom**, CIRA, Colorado State Univ., Fort Collins, CO

8:45 A.M.
10.2 *From TIROS-1 to JPSS and GOES-R: An Historical Review of Early Operational Satellites and Instruments As a Basis for Shaping the Future Together.* **G. Dittberner**, CIRA, Sringfied, VA; T. H. Vonderhaar

9:00 A.M.
10.3 *History of Science Discoveries and Weather Forecasting Advances from Early Weather Satellites.* **T. H. Vonderhaar**, Colorado State Univ., Fort Collins, CO; G. Dittberner

9:15 A.M.
10.4 *On the Evolution of Meteorological Satellites and Their Applications.* **Johannes Schmetz**, EUMETSAT, Darmstadt, Germany

9:30 A.M.

Panel Discussion

Session 11A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: METEOSAT THIRD GENERATION (MTG) –*Harbor Ballroom*

Chairs: C. Bank, EUMETSAT, Darmstadt, Germany; P. Sullivan, NOAA, Greenbelt, MD

10:30 A.M.
11A.1 *Meteosat Third Generation (MTG) Programme Status.* **C. Bank**, EUMETSAT, Darmstadt, Germany; A. Schmid

10:45 A.M.
11A.2 *Meteosat Third Generation (MTG) - Space Segment Progress and Overall Satellites Performance Status.* **P. Blythe**, ESA, Noordwijk, Netherlands; D. M. A. Aminou, C. Galeazzi, J. Champion, Y. Durand, D. Lamarre, P. Willemsen, P. Van Den Braembussche

11:00 A.M.
11A.3 *Meteosat Third Generation (MTG): Improvements over 2nd. Generation and a Comparison to GOES-R.* **Jochen Grandell**, EUMETSAT, Darmstadt, Germany; T. August, D. Coppens, G. Fowler, C. Ledez, M. Lekouara, R. Munro, B. Viticchie

11:15 A.M.
11A.4 *Meteosat Third Generation (MTG): Flexible Combined Imager (FCI) Design and End-to-End Performance.* **Y. Durand**, ESA, Noordwijk, Netherlands; M. Wilson, P. Hallibert, P. Van Den Braembussche, D. M. A. Aminou, P. Blythe

11:30 A.M.
11A.5 *Meteosat Third Generation (MTG) Lightning Imager (LI) Progress and End-to-End Performance.* **P. Willemsen**, European Space Agency, Noordwijk, Netherlands; P. Kokou, G. Gentile, M. Wilson, P. Van Den Braembussche, D. M. A. Aminou, P. Blythe

11:45 A.M.
11A.6 *Meteosat Third Generation (MTG) - IRS Instrument Overall Design and Performance Status.* **D. M. A. Aminou**, Eropean Space Agency, Noordwijk, Netherlands; D. Lamarre, P. Hallibert, P. Van Den Braembussche, T. Guggenmoser, J. Champion, P. Blythe

10:30 A.M.–12:00 P.M.

Session 11B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: DATA ASSIMILATION FOR REGIONAL NWP –*Marina Ballroom I*

Chairs: S. S. Weygandt, NOAA/ESRL, Boulder, CO; Hui Shao, UCAR, Boulder, CO

10:30 A.M.
11B.1 *Impact of Rapid-Scan-Based Dynamical Information over the Inner-Core Region of Hurricanes from GOES-16 ABI on HWRF Hurricane Track Forecasts.* **J. Li**, CIMSS/Univ. of Wisconsin, Madison, WI; J. Li, C. S. Velden, T. J. Schmit, P. Wang, J. R. Lee, W. E. Lewis, D. Stettner, J. A. Sippel, Z. Zhang

10:45 A.M.
11B.2 *Quantification of Short-Range Regional Forecast Impacts from Satellite Radiance Data Assimilation for the Upcoming Rap Version 5.* **H. Lin**, CIRA/Colorado State Univ. and NOAA/ESRL/GSD, Boulder, CO; S. Weygandt, M. Hu, H. Wang, J. M. Brown, A. Back, C. Alexander, S. G. Benjamin

11:00 A.M.
11B.3 *Impact of GLM Lightning and GOES Cloud-Top Cooling Rate Data Assimilation on HRRR Short-Range Forecast Guidance.* **A. Back**, NOAA/ESRL/GSD and CIRA/Colorado State Univ., Boulder, CO; G. Ge, D. M. Kingfield, T. L. Smith, C. R. Alexander, S. S. Weygandt, M. Hu, J. R. Mecikalski, S. Benjamin, H. Lin

11:15 A.M.
11B.4 *Current Status and Ongoing Challenges of Satellite Data Assimilation into the Warn-on-Forecast System.* **Thomas A. Jones**, Cooperative Institute for Mesoscale Meteorological Studies/Univ. of Oklahoma, and NOAA/OAR/NSSL, Norman, OK; S. Mallick, K. H. Knopfmeier, D. C. Dowell, X. Wang, P. Minnis, R. Palikonda, W. L. Smith Jr.

11:30 A.M.
11B.5 *Using High-Resolution Observations from GOES-16 ABI to Improve Operational Short-Range Forecasting.* **K. Hilburn**, CIRA, Fort Collins, CO; S. D. Miller, M. Marchand

11:45 A.M.
11B.6 *Assessing the Impact of Stochastic Cloud Microphysics in High-Resolution Models Using GOES-16 Infrared Brightness Temperatures.* **J. A. Otkin**, Univ. of Wisconsin, Madison, WI; S. M. Griffin, G. Thompson, M. E. Frediani, J. Berner, F. Kong

10:30 A.M.–12:00 P.M.

Session 11C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AIR QUALITY IV –*Marina Ballroom II*

Chairs: B. Pierce, Space Science and Engineering Center/Univ. of Wisconsin-Madison, Madison, WI; Robert Chatfield, NASA

10:30 A.M.
11C.1 *Mapping NH3 with IASI.* **P.F. Coheur**, Université Libre de Bruxelles (ULB), Brussels, Belgium; L. Clarisse, M. Van Damme, J. Pinto Seixas, M. Velghe, C. Clerbaux

10:45 A.M.
11C.2 *Ammonia from the Snpp Cross-Track Infrared Sounder (CrIS): Validation, Seasonal Cycles and Fire Signals.* **Karen Cady-Pereira**, AER, Lexington, MA; X. Guo, R. Wang, M. A. Zondlo, K. Sun, D. Henze, M. W. Shephard

11:00 A.M.
11C.3 *Using CrIS Satellite Retrievals to Improve Ammonia Emissions in the CMAQ Regional Air Quality Model.* **Matthew J. Alvarado**, AER, Lexington, MA; C. R. Lonsdale, K. E. Cady-Pereira, J. Mascio, A. Dayalu, D. Henze, S. Capps

11:15 A.M.
11C.4 *Monitoring Air Pollution Using Passive and Active Means in the Eastern Mediterranean.* **A. Chudnovsky**, Tel-Aviv Univ., Tel-Aviv, Israel; I. Rogozovski, A. Ansmann, H. Baars, A. Lyapustin, Y. Wang

11:30 A.M.
11C.5 *A Measurement-Based Explicit Aerosol Correction for OMI Hcho Retrievals.* **Y. Jung**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; G. González Abad, C. R. Nowlan, A. H. Souri, K. Chance, X. Liu, O. torres, C. Ahn

11:45 A.M.
11C.6 *Formaldehyde Products from the OMPS Nadir Mappers on Suomi-NPP and NOAA-20.* **C. R. Nowlan**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; G. González Abad, L. Zhu, Y. Jung, K. Chance, A. H. Souri, L. Flynn, G. Jaross, C. Seftor

10:30 A.M.–12:00 P.M.

Session 11D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: PRECIPITATION I –*Marina Ballroom III & IV*

Chairs: J. M. Forsythe, CIRA/Colorado State Univ., Fort Collins, CO; Thomas Renkevens, NOAA/NESDIS, College Park, MD

10:30 A.M.
11D.1 *GPM V06 IMERG Reprocessing Status.* **Erich Franz Stocker**, GSFC, Greenbelt, MD

10:45 A.M.
11D.2 *Reaching for 20 Years with the IMERG Multi-Satellite Products.* **G. J. Huffman**, NASA GSFC, Greenbelt, MD; D. T. Bolvin, D. Braithwaite, K. Hsu, R. J. Joyce, C. Kidd, E. J. Nelkin, S. Sorooshian, J. Tan, P. Xie

11D.3 *WITHDRAWN*

11:00 A.M.
11D.3A *Balancing Regional Water and Energy Budgets Using the GEWEX Integrated Product.* **Paula J. Brown**, Colorado State Univ., Fort Collins, CO; C. Kummerow

11:15 A.M.
11D.4 *Recent Improvements to the GOES-R Rainfall Rate Algorithm.* **Yaping Li**, I. M. Systems Group, Rockville, MD; R. J. Kuligowski

11:30 A.M.
11D.5 *Himawari-8/AHI Cloud Property-Based Precipitation over Taiwan.* **M. J. Foster**, CIMSS, Madison, WI; A. Heidinger, Y. C. Liu, T. J. Wagner, A. Walther

11:45 A.M.
11D.6 *Quantifying Uncertainties of PMW Satellite Precipitation Climate Data Record.* **Veljko Petković**, Univ. of Maryland, College Park, MD; C. Kummerow, W. Berg, P. J. Brown, D. Randel, P. C. Meyers

10:30 A.M.–12:00 P.M.

Session 11E: TRAINING AND USER PREPARATION: PROCESSING AND VISUALIZATION TOOLS –*Burroughs*

Chairs: S. Bojinski, EUMETSAT, Darmstadt, Germany; Frank Alsheimer, NWSFO, West Columbia, SC

10:30 A.M.
11E.1 *Open Source Software for Visualizing Meteorological Satellite Imagery.* **J. J. Gerth**, Univ. of Wisconsin, Madison, WI; R. K. Garcia, D. Hoese, S. S. Lindstrom, T. J. Schmit

10:45 A.M.
11E.2 *Way from MSG to MTG Satellite User's Training and Operational Supporting Tools.* **J. Kaňák**, Slovak Hydrometeorological Institute, Bratislava, Slovakia; M. Jurašek, Ľ. Okon, L. Méri

11E.4 *WITHDRAWN*

11:00 A.M.
11E.4A *Processing High Resolution Satellite Data with Satpy.* **D. Hoese**, Cooperative Institute for Meteorological Satellite Studies, Madison, WI

11:15 A.M.
11E.5 *CIMSS Global Direct Broadcast Application Workshops - Fostering the Next Generation of Scientists.* **J. Braun**, Univ. of Wisconsin, Madison, WI; K. I. Strabala, L. E. Gumley

11:30 A.M.
11E.6 *Community Satellite Processing Package (CSPP) User Training and Support.* **A. Huang**, CIMSS, Madison, WI

11:45 A.M.
11E.7 *Leveraging AI in the Exploitation of Satellite Earth Observations & NWP Summarizing the Outcomes of the First Workshop (2019).* **Sid Boukabara**, NOAA/NESDIS, College Park, MD; V. Krasnopolsky, J. Q. Stewart, E. Maddy, N. Shahroudi, R. N. Hoffman

10:30 A.M.–12:00 P.M.

Session 11F: OCEANOGRAPHY AND MARINE METEOROLOGY: EXTREME WEATHER EVENTS –*Lewis*

Chairs: Thomas J. Cuff, Director of the Office of Observations, National Weather Service (NWS), Silver Spring, MD; F. Soulat, CLS, Ramonville Saint-Agne, France

10:30 A.M.
11F.1 *Salinity - the Valve of Ocean-Air Interaction in Tropical Cyclogenesis.* **Liudmila Vanina-Dart**, Seeing Ear Ltd, Hastings, U.K.; T. Dart

10:45 A.M.
11F.2 *Satellite Altimeter Derived Ocean Heat Content Variability: Implications for Hurricane Intensity Change.* **Lynn K. Shay**, Univ. of Miami/RSMAS, Miami, FL; J. K. Brewster, B. Jaimes, E. M. Maturi, D. R. Donahue, E. Leuliette

11:00 A.M.
11F.3 *Hurricane Monitoring Using Sentinel-1 High-Resolution Ocean Surface Wind Field Measurements.* **F. Soulat**, CLS, Ramonville Saint-Agne, France; A. Mouche, B. Chapron, N. Reul, P. Caroff, R. Husson, N. Longépé, T. Habib, P. Potin, L. Martino, Y. Zhao, S. Sauxpicart, J. A. Knaff, J. Sapp, B. Zhang, J. Tenerelli

11:15 A.M.
11F.4 *Reconciling Hurricane Hunter, Ascat and Buoy Ocean Wind Observations Under High and Extreme Wind Conditions.* **M. Portabella**, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain; F. Polverari, W. Lin, J. Sapp, Z. Jelenak, P. S. Chang, A. Stoffelen, A. Mouche, G. J. van Zadelhoff

11:30 A.M.
11F.5 *Derivation and Use of Cygnss Wind Vectors for Tropical Cyclone Analysis and Forecasting.* **S. Mark Leidner**, Atmospheric and Environmental Research, Norman, OK; B. Annane, R. Atlas, R. N. Hoffman

11:45 A.M.
11F.6 *Cygnss-Based Analysis of Tropical Cyclone Size, Structure & Strength.* **Mary Morris**, JPL, Pasadena, CA; C. Sampson

1:30 P.M.–3:00 P.M.

Session 12A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: EUMETSAT POLAR SYSTEM SECOND GENERATION (EPS-SG) –*Harbor Ballroom*

Chairs: Tim Walsh, NOAA/NESDIS GOES-R Program Office, Greenbelt, MD; C. Bank, EUMETSAT, Darmstadt, Germany

1:30 P.M.
12A.1 *EUMETSAT Polar System – Second Generation (EPS-SG) Programme Status.* **C. Bank**, EUMETSAT, Darmstadt, Germany; G. Kayal

1:45 P.M.
12A.2 *Science Developments for EPS-Sg.* **Peter Schlüssel**, EUMETSAT, Darmstadt, Germany

2:00 P.M.
12A.3 *Continuity of Operational Earth Observation with VIIRS and Metimage for the Next Decades.* **C. Cao**, NOAA/NESDIS/STAR, College Park, MD; S. Kalluri, S. Uprety

2:15 P.M.
12A.4 *The EUMETSAT Polar System - Second Generation (EPS-SG) Microwave and Sub-Mm Wave Imaging and Sounding Missions.* **Christophe Accadia**, EUMETSAT, Darmstadt, Germany; V. Mattioli, J. Ackermann, S. Di Michele, P. Schluessel, I. Hans, P. Colucci, A. Canestri

2:30 P.M.
12A.5 *Status and Performances of the Ice Could Imager (ICI) on-Board Metop-SG Satellite Series.* **P. Colucci**, EUMETSAT, Darmstadt, Germany; M. Labriola, M. Bergada, D. Gandullo Holgeras, D. Sanchez Pascuala Valencia, J. Ros, D. Queimadelos, R. Gonzalez, U. Klein

2:45 P.M.
12A.6 *Advanced Use of Spectro-Polarimetric Observations from the 3MI/EPS-SG for Retrieval of Vertically Resolved Cloud Properties.* **Jérôme Riedi**, Univ. Lille, France; L. Labonnote, N. Ferlay, M. Compiègne, F. Thieuleux, N. Henriot, H. Shang, S. Hioki, G. Pénide, C. Cornet, P. Dubuisson, F. Parol

1:30 P.M.–3:00 P.M.

Session 12B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: CONVECTION NOWCASTING I – *Marina Ballroom I*

Chairs: G.H. Ryu, KMA, Jincheon, Korea, Republic of (South); J. F. Dostalek, CIRA/Colorado State Univ., Ft. Collins, CO

1:30 P.M.
12B.1 *GK-2A Convective Initiation Product.* **Hye-In Park**, KMA, Chungcheongbuk-do, Korea, Republic of (South); S. Chung, S. Cheong

Paper 12B.2 Is Now a Poster.

1:45 P.M.
12B.3 *A Framework of Detecting Convective Invitation Using Automated Sampling and Machine Learning Approaches over the Korean Peninsula.* **Daehyeon Han**, Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea, Korea, Republic of (South); J. Im, E. Jang, S. Lee

2:00 P.M.
12B.4 *Using 1-Minute GOES-16 Data in Conjunction with Radar to Analyze Microphysical Properties of Clouds during the Convective Initiation (CI) Phase of Thunderstorms.* **D. Haliczer**, Univ. of Alabama in Huntsville, Huntsville, AL; J. Mecikalski

2:15 P.M.
12B.5 *A Statistical Model to Nowcast Severe Storms Using High-Resolution Radar-GOES Satellite-Lightning-NWP-Based Observations.* **J. Mecikalski**, Univ. of Alabama in Huntsville, Huntsville, AL; T. Sandmael, E. M. Murillo, C. R. Homeyer, K. M. Bedka, J. Apke, C. P. Jewett

2:30 P.M.
12B.6 *A Deep Learning Approach to Severe Convective Weather Prediction Using Geostationary Satellite Data.* **John L. Cintineo**, CIMSS, Madison, WI; M. J. Pavolonis, J. Sieglaff, A. Wimmers, J. C. Brunner

1:30 P.M.–3:00 P.M.
Session 12C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AIR QUALITY V –*MARINA BALLROOM II*

Chairs: B. Pierce, Space Science and Engineering Center/Univ. of Wisconsin-Madison, Madison, WI; Robert Chatfield, NASA

1:30 P.M.
12C.1 *The Measures Project for H_2co, C2H2O2 and H2o: Plans for Long-Term Consistent Records from Gome to OMI and Beyond.* **G. Gonzalez Abad**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; C. Chan Miller, C. R. Nowlan, H. wang, K. Sun, L. Zhu, N. Dabel, E. O'Sullivan, X. Liu, K. Chance

1:45 P.M.
12C.2 *Operational Trace Gas Column Observations from Gome-2 on Metop.* **P. Valks**, DLR, Wessling, Germany; K. L. Chan, S. Liu, K. Heue, P. Hedelt, G. Pinardi, M. Van Roozendael, I. De Smedt, N. Theys, M. Koukouli, D. Balis

2:00 P.M.
12C.3 *Development of a Satellite-Constrained Modeling Platform for Air Quality Assessment Modeling of Ozone Concentrations Along the Lake Michigan Shoreline.* **J. A. Otkin**, Univ. of Wisconsin, Madison, WI; B. Pierce, M. K. Harkey, L. Cronce, D. Henderson, J. L. Case, Z. Adelman, D. Bizot, G. Good, C. R. Hain

2:15 P.M.
12C.4 *Observations of Atmospheric Composition in Fire Plumes over the Western United States in Summertime from the Cross-Track Infrared Sounder.* **Vivienne H. Payne**, Jet Propulsion Laboratory/California Institute of Technology, Pasadena, CA; S. S. Kulawik, E. V. Fischer, K. W. Bowman, H. M. Worden, G. Francis, K. E. Cady-Pereira, F. Flocke, J. Lindaas, I. B. Pollack

2:30 P.M.
12C.5 *Analysis of Tropomi Carbon Monoxide from Extreme Fires in 2018.* **S. Kondragunta**, STAR, College Park, MD; C. Xu

2:45 P.M.
12C.6 *Predicting the Impacts of Fire Emissions Plumes on Ambient Air Quality Using S5P Tropomi Satellite Trace Gas and Aerosol Measurements.* **A. K. Huff**, Pennsylvania State Univ., University Park, PA; S. Kondragunta, W. F. Ryan

1:30 P.M.–3:00 P.M.
Session 12D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: PRECIPITATION II –*MARINA BALLROOM III & IV*

Chairs: Erich Franz Stocker, GSFC, Greenbelt, MD; Banghua Yan, NOAA/Joint Center for Satellite Data Assimilation, Camp Springs, MD

1:30 P.M.
12D.1 *Characteristics of Satellite Sampling Errors in Total Precipitable Water from SSMIS, Hirs and Cosmic Observations.* **Yunheng Xue**, CIMSS, Madison, WI; J. Li

1:45 P.M.
12D.2 *Precipitable Water Vapor over Nigeria Using Radiosonde and Satellite Derived Data.* **B. Adeyemi**, The Federal Univ. of Technology, Akure, Nigeria; E. O. Ogolo, I. Emmanuel, M. Schröder, J. Schulz

2:00 P.M.
12D.3 *Total Column Water Vapour Retrieval from S-5P/Tropomi in the Blue Spectral Range.* **Christian Borger**, Max Planck Institute for Chemistry, Mainz, Germany; S. Beirle, S. Dörner, H. Sihler, T. Wagner

2:15 P.M.
12D.4 *Enhancing National Climate Service By Blending Satellite Data with Station Data.* **Zekarias Abera Maru**, EUMETSAT, Addis Abeba, Ethiopia

2:30 P.M.
12D.5 *Improving Blended Total Precipitable Water Products for Forecasters Via Advection and Inclusion of GOES-R Satellite Data.* **J. M. Forsythe**, CIRA/Colorado State Univ., Fort Collins, CO; S. Q. Kidder, S. Kusselson, D. Bikos, A. S. Jones, E. Szoke

2:45 P.M.
12D.6 *Second Generation Pole-to-Pole Cmorph: An Integrated Satellite Precipitation Product.* **P. Xie**, NOAA/NWS/NCEP/CPC, College Park, MD; R. J. Joyce, S. Wu, B. Katz

1:30 P.M.–3:00 P.M.
Session 12E: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: TEMPERATURE EXTREMES AND ASSORTED –*BURROUGHS*

Chairs: S. Yang, Naval Research Laboratory, Monterey, CA; J.N. Thépaut, ECMWF, Shinfield Park, UK

1:30 P.M.
12E.1 *Monitoring Heat Extremes over Europe in 2018 Using Data from Seviri-MSG.* **C. M. Gouveia**, Instituto Português do Mar e Atmosfera, Lisboa, Portugal; I. Trigo, N. Simões

1:45 P.M.
12E.2 *Iasi's Skin Temperature during Extreme Events.* **M. George**, LATMOS/IPSL, Sorbonne Université, UVSQ, CNRS, Paris, France; S. Safieddine, A. C. Parracho, L. Clarisse, S. Whitburn, C. Clerbaux

2:00 P.M.
12E.3 *Heat Wave Forecasting over South Korea through Investigating Teleconnection with Eurasia Based on Machine Learning.* **Yeonsu Lee**, UNIST, Ulsan, Korea, Republic of (South); C. Yoo, D. Cho, J. Im, E. Jang

2:15 P.M.
12E.4 *Fire Activity in Portugal Under Present and Future Climate Scenarios: A Study Based on Circulation Weather Types and the Lsa SAF Fire Radiative Power Product.* **C. DaCamara**, IDL Instituto Dom Luiz, Faculdade de Ciencias, Universidade de Lisboa, Lisboa, Portugal; R. Trigo

2:30 P.M.
12E.5 *Forecasting Frost: Using High Resolution WRF Runs to Predict Frost Occurrence in the Tea Growing Regions of Kenya.* **Emily C Adams**, NASA, Huntsville, AL; J. W. Nyaga, W. L. Ellenburg, A. S. Limaye, R. M. Mugo, A. I. Flores Cordova, D. Irwin, J. L. Case, S. M. Kotikot, A. Sedah

2:45 P.M.
12E.6 *Dustwatch App: A Public Safety Project Developed By Youth Citizen Scientists to Combat the Effects of Dust Storms Using Satellite-Aided Forecasting.* **Alex Xie**, Gilman High School, Baltimore, MD; B. W. Tong, J. W. Tong, K. Liu, E. Nzokwe, D. Zhang

1:30 P.M.–3:00 P.M.

Session 12F: OCEANOGRAPHY AND MARINE METEOROLOGY: SEA SURFACE WINDS –*LEWIS*

Chairs: E. A. Obligis, EUMETSAT, Darmstadt, Germany; Andrew Manaster, Remote Sensing Systems, Santa Rosa, CA

1:30 P.M.
12F.1 *First Assessment of the Cfosat Scatterometer Wind Quality.* **W. Lin**, Nanjing Univ. of Information Science and Technology, Nanjing, China; M. Portabella, S. Lang, Z. Wang, Y. He

1:45 P.M.
12F.2 *Ascat-C Ocean Calibration and Cone Metrics.* **Jeroen Verspeek**, KNMI, De Bilt, Netherlands; A. Stoffelen, A. Verhoef

2:00 P.M.
12F.3 *The JPL Scatsat Near Real Time Ocean Vector Winds Product: Calibration, Validation, and Latency.* **A. Fore**, NASA Jet Propulsion Laboratory, Pasadena, CA; B. W. Stiles, S. Jaruwatanadilok, E. Rodriguez

2:15 P.M.
12F.4 *Evaluation of All-Weather Sea Surface Wind Speed Product from GCOM-W/AMSR2 Spaceborne Microwave Radiometer.* **N. Ebuchi**, Hokkaido Univ., Sapporo, Japan

2:30 P.M.
12F.5 *Validation of Scatterometer and Radiometer High Winds Using Oil Platform Anemometers.* **Andrew Manaster**, Remote Sensing Systems, Santa Rosa, CA; L. Ricciardulli, T. Meissner

2:45 P.M.
12F.6 *Rain Effects on Ku Band Scatterometer Ocean Winds with Reference to C Band Observations and Machine Learning.* **X. Xu**, National Space Science Center, Chinese Academy of Sciences, Beijing, China; A. Stoffelen

3:00 P.M.–4:00 P.M.

FIRST FORMAL VIEWING OF WEDNESDAY/ THURSDAY POSTERS–*GALLERIA*

Poster Session 7: AIR QUALITY AND ATMOSPHERIC COMPOSITION: POSTERS

122 *Satellite Air Quality Observations By Copernicus Sentinel-5P Tropomi, Aura OMI, and S-NPP OMPS.* **Jian Zeng**, NASA GSFC/ GES DISC and ADNET Systems, Greenbelt, MD; D. Ostrenga, J. E. Johnson, B. Vollmer, J. Wei, I. V. Gerasimov

123 *Satellite-Based Photolysis Rates of NO2 and O3: Applications to Air Quality and Secondary Pollution Formation.* **Anu-Maija Sundström**, Finnish Meteorological Institute, Helsinki, Finland; J. Kujanpää, N. Kalakoski, J. Tamminen

124 *Inter Comparison of Volcanic SO2 Products Estimated By Linear Fit SO2 and By Principle Component Algorithms.* **J. Niu**, IMSG/NOAA/ NESDIS/STAR, College Park, MD; L. Flynn, T. Beck, Z. Zhang, E. Beach

125 *Stratospheric Aerosol and Gas Experiment III on the International Space Station (SAGE III/ISS) Science Data: Preliminary Observations of Regional Dynamics of Utls Trace Gases.* **Susan Kizer**, NASA Langley Research Center, Hampton, VA; M. M. Roell, D. E. Flittner, R. Damadeo, L. Thomason, T. Knepp, J. R. Moore, K. R. Leavor, D. Hurst, E. Hall, A. Jordan, P. Cullis, B. Johnson, R. Querel

126 *Splat - a Flexible Interface to the Vlidort Radiative Transfer Model for Atmospheric Retrieval Applications.* **C. Chan Miller**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; R. Spurr, K. Sun, H. Wang, G. González Abad, X. Liu, P. Zoogman, J. Bak, K. Chance

127 *Characterization of Diurnal Cycles of Fire Activity, Fire Radiative Power, and Fire Size across the CONUS Using GOES-16 and GOES-17 ABI Observations.* **Fangjun Li**, South Dakota State Univ., Brookings, SD; X. Zhang, S. Kondragunta, C. C. Schmidt

128 *Integrating NOAA Polar and Geostationary Fire Detection Algorithms to Develop a New Enterprise Active Fire Product.* **Y. Gu**, I.M. Systems Group, Inc. at NOAA NESDIS Center for Satellite Applications and Research, College Park, MD; I. A. Csiszar, C. C. Schmidt, M. Tsidulko

129 *Advanced FIRE Risk Forecast over Mediterranean: Assessment of Terrestrial Drought in Addition to Lsa SAF FIRE Weather Indexes.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; J. S. Stoyanova, P. N. Neytchev, A. T. Kulishev

130 *Detection of Dry Intrusions and Increased Ozone Concentrations in the Environment of Wild Fires over Mediterranean.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; S. A. Tjemkes

131 *VIIRS Fire Radiative Power Estimates in NOAA JPSS Active Fire Products..* **M. Tsidulko**, IMSG at NOAA/NESDIS/STAR, College Park, MD; I. A. Csiszar, W. Schroeder

132 *Monitoring and Forecasting Dust Haze over West Africa By Combining Satellites Imageries and Numerical Weather Prediction Models.* **Abdoul Aziz Abebe Abdou Adam**, ASECNA, Niger

133 *Interferene of Satellite Dust Detection By Water Vapor.* **L. D. Grasso**, Cooperative Institute for Research in the Atmosphere/ Colorado State Univ., Fort Collins, CO

134 *Satellite-Based Estimation of Regional Particulate Matter (PM) Using Multiple Regression Model and Vertical/Humidity Correction Method.* **Yun Gon Lee**, Chungnam National Univ., Korea, Republic of (South)

135 *Global OMI Aerosol Products: Algorithm Update and Validation Results.* **C. Ahn**, SSAI, Lanham, MD; O. Torres, H. Jethva

136 *Aerosol and Cloud Type Identification from Spatial and Spectral Information Using Machine Learning Methods.* **Willem J. Marais**, CIMSS, Univ. of Wisconsin–Madison, Madison, WI; R. E. Holz, J. S. Reid, R. M. Willett

137 *Development of Fast Radiative Transfer Model Mbcrm for Analysis of Volcanic Ash Clouds Measured By Hyperspectral Infrared Sounder.* **Hiroshi Ishimoto**, MRI, Japan; M. Hayashi

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139 *Detecting and Assessing Trends of CFCs and Substitutes from IASI Measurements.* **P.F. Coheur**, Université Libre de Bruxelles (ULB), Brussels, Belgium; H. De Longueville, L. Clarisse, B. Franco, S. Whitburn, C. Clerbaux, C. Camy-Peyret

140 *The Aurora Project: Main Achievements from Science through Technology to Applications.* **U. Cortesi**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, S. Del Bianco, M. Gai, C. Tirelli, N. Zoppetti, M. Bonazountas, A. Argyridis, E. Loenen, A. Arola, J. Kujanpää, A. Lipponen, W. Wandji, R. Van Der A, J. Van Peet, O. Tuinder, A. Masini, E. Simeone, R. Dragani, A. Keppens, M. Van Roozendael, J. Lambert, K. Verberne

141 *Improvements of Tropospheric Ozone Profile Retrievals with Joint UV/Visible Measurements: Gome-2 and TEMPO.* **X. Liu**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; J. Bak, C. Chan Miller, K. Chance

142 *Retrieval and Validation of OMI-MLS Tropospheric Ozone over China.* **Xingying Zhang**, National Satellite Meteorological Center, Beijing, China

143 *An Assessment on Ozone Mapping and Profiler Suite (OMPS) Instrument Performance and SDR Radiance Data Quality with Integrated Calibration/Validation System.* **Ding Liang**, Global Science and Technology, College Park, MD

144 *Reprocessing of the V8TOz and V8PRO Ozone Products from S-NPP OMPS Measurements.* **Z. Zhang**, IMSG/NOAA/NESDIS/STAR, College Park, MD; L. E. Flynn, E. Beach, J. Niu, C. T. Beck

145 *Validation and Quality Assurance of Gome-2A/2B/2C Ozone Profiles and Tropospheric Ozone Column Products in an Operational Context, Using Balloon Sounding Data.* **D. Loyola**, DLR German Aerospace Center, Wessling, Germany; A. Delcloo, K. Heue, P. Valks, O. Tuinder

146 *An Assessment of the Contribution of Mid-Morning Polar Fire Observations to an Integrated Fire Monitoring System over the Conterminous United States.* **I. Csiszar**, NESDIS, College Park, MD; Y. Gu, M. Tsidulko

147 *Assay of a Satellite Methodology for Volcanic Ash Classification. Calbuco Volcano Case.* **Diana Marina RODRIGUEZ**, Servicio Meteorológico Nacional (SMN), Argentina; S. C. Bolzi, M. S. R. Lpardo, S. Oores S. Maciel

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148 *NASA Tropics Earth Venture Mission: Payload Characteristics and Data Products.* **R.V. Leslie**, MIT Lincoln Laboratory, Lexington, MA; W. J. Blackwell, S. A. Braun, R. Bennartz, G. Chirokova, M. DeMaria, T. Greenwald, L. E. Gumley, D. C. Herndon, C. Kidd, T. Matsui, C. S. Velden

149 *Results of Comparison between Precipitation Estimates By the MW Cross-Track Scanner (H18) and the Dual-Frequency Precipitation Radar (DPR) Product According to the H-SAF Validation Methodology over the MSG Full Disk Area.* **Marco Petracca**, Presidency of the Council of Ministers, Rome, Italy; J. Kaňák, F. Porcù, R. Iwanski, B. Lapeta, M. Diószeghy, I. Szenyán, P. Baguis, E. Roulin, A. Oztopal, P. Krahe, A. Kunkel, E. Artinyan, H. Chervenkov, C. Cacciamani, A. Toniazzo, G. Vulpiani, S. Puca

150 *Does Atms Need a Companion Microwave Calibration Satellite?* **Philip W. Rosenkranz**, MIT, Chestnut Hill, MA; W. J. Blackwell, R. V. Leslie

151 *Calibrating WRF-Hydro By Assimilating Surface Water Ocean Topography (SWOT) Water Surface Elevations.* **N. J. Elmer**, Univ. of Alabama in Huntsville, Huntsville, AL; J. McCreight, C. R. Hain

152 *Inter-Calibration of Small Satellite-Based Microwave, Infrared and Radio Occultation Sensors and Demonstration with Proxy Data.* **X. Shao**, CISESS and Astronomy/Univ. of Maryland, College Park, MD; B. Zhang, A. S. Sharma, X. Jing, E. H. Berbery, C. Cao, S. Ho

153 *Planetary Boundary Layer (PBL) Thermodynamic Structure from Space.* **Joao Teixeira**, JPL, Pasadena, CA; J. A. Santanello, M. Lebsock

154 *Generalization of the Complete Data Fusion to Multi-Target Retrievals.* **C. Tirelli**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, B. Carli, N. Zoppetti, S. Del Bianco, U. Cortesi

155 *The Tropics Mission's Sounding Capabilities.* **Ralf Bennartz**, Vanderbilt Univ., Nashville, TN; W. J. Blackwell, S. Braun, R. V. Leslie, T. Greenwald

156 *Application of Satellite and Aircraft-Based Radar Retrievals of Mass and Projected-Area Dimensional Relations to MODIS Thermal Infrared Cirrus Retrievals.* **J. Mascio**, AER, Lexington, MA; R. P. d'Entremont

157 *Radiometric Calibration of Himawari-8 and 9/AHI Reflective Solar Bands.* **Yusuke Yogo**, JMA, Tokyo, Japan

158 *How New on Board Calibrations Will Allow High Level of Performance during IASI-NG Mission..* **Elisa Baldit**, CNES, TOULOUSE, France; A. Penquer, F. Bernard, A. Deschamps, C. Luitot, J. Pasquier, A. Dumas, B. Calvel, F. Faure, F. Bermudo, L. Buffet

159 *Near Real-Time Snowfall Rate Applications from S-NPP and NOAA-20.* **Huan Meng**, NOAA/NESDIS/Center for Satellite Applications and Research, College Park, MD; J. Dong, C. Kongoli, R. R. Ferraro, B. Yan, L. Zhao, K. D. White, E. Berndt, W. Adkins, A. Jacobs

160 *Tolerance Analysis of Reflector Antenna of Sub-Millimeter Wave Radiometer.* **Weidong Hu**, Beijing Institute of Technology, Beijing, China; L. Wang, S. Chen, X. Zhang

161 *The Cost Function of the Data Fusion Process and Its Application.* **S. Ceccherini**, CNR, Sesto Fiorentino, Italy; N. Zoppetti, B. Carli, U. Cortesi, S. Del Bianco, C. Tirelli

162 *Potential Role of Tundra Orbit in Future Weather Satellite Constellations.* **F. W. Gallagher**, NESDIS, Silver Spring, MD; K. St. Germain, M. W. Maier

163 *Microwave Soundings in the Presence of Precipitation: Observations Under Tropical Conditions.* **M. Schreier**, JPL/California Institute of Technology, Pasadena, CA; B. H. Lambrigtsen

164 *Doppler Scanning with Gas Filters (DSGF): A Window to Upper Atmosphere Dynamics.* **Larry Gordley**, GATS, Yorktown, VA; D. C. Fritts

165 *Impact of Simulated Tropics Data on Tropical Cyclone Prediction in a Regional OSSE.* **Hui Christophersen**, Univ. of Miami/Cooperative Institute for Marine and Atmospheric Studies and NOAA/AOML/HRD, Miami, FL; B. A. Dahl, R. Atlas, A. Askoy, W. Blackwell, S. Braun, R. Bennartz, T. Greenwald, R. F. Rogers, J. P. Dunion, F. D. Marks

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167 *Special Sensor Ultraviolet Limb Spectrometer (SSULS) for Ionosphere Electron Density Measurements.* **J. Kujawski**, Brandywine Photonics, Exton, PA; J. Fisher, D. Guerin, J. Julian, Z. Burns

168 *Additional Performance Evaluation for NOAA Satellite Observing System Architecture (NSOSA) Study.* **M. M. Coakley**, MIT Lincoln Laboratory, Lexington, MA; D. P. ryan-Howard, F. J. Rich, M. K. Griffin, G. P. Ginet, H. Iskenderian, K. St. Germain, F.W. Gallagher III, M.W. Maier, P. Jasper

169 *Satellite Inter-Comparison of Geostationary and Polar-Orbiting Hyperspectral IR Sounders: Radiances, Thermodynamic Retrievals, and Stability Indices.* **J. Maier**, CIMSS/Univ. of Wisconsin, Madison, WI; R. Knuteson, P. Menzel, H. Revercomb, W. L. Smith Sr., E. Weisz, D. C. Tobin

170 *Sensing Heavy Precipitation with Polarimetric Radio Occultations Aboard the PAZ Satellite: A New View of Precipitation and Water Vapor.* **Ramon Padulles**, JPL, Pasadena, CA; J. Turk, C. O. Ao, M. de la Torre Juárez, K. Wang, B. A. Iijima, E. Cardellach, S. Oliveras, S. Tomás, A. Rius

171 *The Evolution of Gridded Nucaps: Transition of Research to Operations.* **E. Berndt**, NASA Marshall Space Flight Center, Huntsville, AL; N. Smith, J. E. Burks, K. D. White, R. E. Allen

172 *The Copernicus Global Land Surface Temperature Product: Recent Improvements, Validation and Applications.* **Joao Martins**, Univ. of Lisbon, Instituto Dom Luiz, Lisbon, Portugal; I. Trigo, S. C. Freitas, R. Lacaze, J. P. Macedo

173 *Recent Developments on Rainfull Estimation in H SAF (EUMETSAT Satellite Application Facility in Support to Operational Hydrology and Water Management).* **Davide Melfi**, Italian Air Force Met Service - COMet, Pomezia (Rome), Italy; D. Biron, F. Zauli, G. Panegrossi, P. Sanò, A. C. Marra, S. Dietrich, L. Brocca, L. Ciabatta, C. Massari, S. Sebastianelli, G. Salvucci

174 *Risk Reduction Strategies in NOAA's New Space Architecture.* **M. W. Maier**, Aerospace Corporation, Chantilly, VA; F.W. Gallagher III, K. St. Germain

175 *Science Quality Observations from the Tempest-D Cubesat Microwave Radiometer.* **W. Berg**, Colorado State Univ., Fort Collins, CO; S. T. Brown, S. C. Reising, B. H. Lim, C. D. Kummerow, T. C. Gaier, S. Padmanabhan, Y. Goncharenko, V. Chandrasekar, R. Schulte, B. Kilmer

176 *Rttov for Hyperspectral Far Infrared (FIR) Instruments : The Forum Example.* **Jerome Vidot,** Meteo-France / CNRS, Lannion, France; P. Brunel, J. Hocking, M. Matricardi, R. Saunders

177 *Monitoring the Performance of the Dscovr Epic Instrument's Visible Bands Using MODIS and VIIRS As a Reference.* **C. O. Haney**, SSAI, Hampton, VA; D. R. Doelling, W. Su, R. Bhatt, B. Scarino, A. Gopalan

178 *On-Orbit Relative Calibration for Image Striping Mitigation Using Advanced Baseline Imager Special Scans.* **F. P. Padula**, GeoThinkTank LLC, Washington, DC; M. J. Cook, D. Pogorzala, J. McCorkel, A. Krimchansky, D. T. Lindsey

179 *Advancements in GOES-R UAS Post-Launch Satellite Sensor Product Validation.* **F. P. Padula**, GeoThinkTank LLC, Washington, DC; A. J. Pearlman, M. J. Cook, J. McCorkel, C. Cao, D. T. Lindsey

180 *The NASA Decadal Survey Observing-System Study for Aerosols and Clouds, Convection, and Precipitation (A-CCP).* **Scott A. Braun**, NASA GSFC, Greenbelt, MD; E. Berndt, A. da Silva, R. A. Ferrare, M. Kacenelenbogen, D. B. Kirschbaum, A. Omar, W. A. Petersen, G. L. Stephens, D. E. Waliser, D. M. Winker

181 *GOES-17 Advanced Baseline Imager (ABI) on-Orbit Performance.* **D. Gall**, Harris, Fort Wayne, IN; J. Van Naarden, P. C. Griffith

182 *NOAA-20 Data Products Cal/Val Maturity and Performance Updates.* **L. Zhou**, NOAA, College Park, MD; M. Divakarla, X. Liu, C. Cao, I. A. Csiszar, T. Atkins, S. Kalluri, A. Layns, M. D. Goldberg

183 *Post Launch Evaluation of GK-2A AMI Science Data to Operations.* **SR. Chung**, KMA, Chungcheongbuk-do, Korea, Republic of (South); S. Cheong, M. Ahn, K. Han, G. Lee, D. Shin, W. Jung

184 *Microwave Radiometer Sensors and Antennas for Economical Satellite Constellations.* **Marian Klein**, Boulder Environmental Sciences and Technology, Boulder, CO; T. Hohman, C. Dunlap, Z. Wang

185 *A Strategic Approach to Developing a Radio Frequency Interference Monitoring System (RFIMS).* **Pouyan Amirshahi**, NESDIS, Silver Spring, MD; S. Grippando

186 *Emergency Radiocommunicatn System for Hydrologic and Meteorologic Services.* **Edison Cruz**, Instituto Nacional de Meteorología e Hidrología (INAMHI), Ecuador

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187 *Observing Tropical Cyclone with High Resolution SAR Winds and Geostationary Data..* **Stéphane Saux Picart**, CNRM, Lannion, France; A. Mouche

188 *Assessment of Cygnss Data Impacts on Global Ocean Surface Wind Analyses.* **J. Hegarty**, Atmospheric and Environmental Research, Lexington, MA; S. M. Leidner, S. J. Majumdar, B. Annane, R. Atlas, B. McNoldy

189 *Improvement of Ku-Band Pencil-Beam Scatterometer Wind Quality Control Under Moist Convection Conditions.* **M. Portabella**, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain; W. Lin, A. Stoffelen, A. Verhoef, Z. Wang, X. Xu

190 *Reanalysis Surface Wind Biases Using Ascat.* **A. Stoffelen**, KNMI, DeBilt, Netherlands; M. Belmonte Rivas

191 *The New Near Coastal Quikscat Wind Data Set.* **B. W. Stiles**, JPL, Pasadena, CA; A. Fore

192 *Influence of Assimilating Cygnss Ocean Surface Wind Data on Tropical Cyclone Analyses and Predictions.* **S. J. Majumdar**, Univ. of Miami, Miami, FL; B. Annane, S. M. Leidner, R. Atlas, B. McNoldy, J. Hegarty

193 *Update to the NOAA Ncei Blended Global Sea Surface Winds Product and Services.* **H. Zhang**, NOAA, Asheville, NC; K. Saha, X. Zhao

194 *Using Fastem to Monitor SMOS Brightness Temperature over the Ocean.* **Giovanna De Chiara**, ECMWF, Reading, United Kingdom; L. Isaksen, S. J. English

196 *Lake Water Tempertures for NCEP Regional Modelling.* **Eileen Maturi**, NOAA/NESDIS, College Park, MD; A. Harris

197 *Error Estimation of Pathfinder Version 5.3 SST Level 3C Using Extended Triple Collocation Approach.* **K. Saha**, Cooperative Institute for Climate Studies, College Park, MD; P. Dash, X. Zhao, H. Zhang

198 *Monitoring Global Sea-Surface Salinity through Combined Use of Satellite Observations and in-Situ Measurements.* **L. Ren**, Innovim and NOAA/NWS/NCEP/CPC, College Park, MD; P. Xie, Y. Xue, A. Kumar, T. Boyer, E. Bayler, G. Fang

199 *Sentinel-3 Slstr L1 and L2 Marine Product Updates.* **E. A. Obligis**, EUMETSAT, Darmstadt, Germany; I. Tomazic, A. O'Carroll, G. Corlett, S. Dransfeld, D. Smith, C. Donlon, J. Piolle

200 *Cmems Level-3 and Level-4 Near-Real-Time Wave Products Derived from Altimetry and SAR.* **Elodie Charles**, CLS, Ramonville Saint-Agne, France; R. Husson, N. Taburet, A. Mouche

201 *Using CRTM to Bias Correct Satellite-Derived Ocean Surface State Parameter Estimates.* **Jackie C. May**, NRL, Stennis Space Center, MS; C. D. Rowley

202 *Sea Level Variations in the East China Sea from Merged Altimetry Data.* **Jilong Chen**, IAP, Beijing, China

S6 *Validation of Ocean Color Satellite Sensors Using Aeronet-OC and Cruise Data.* **Eder I. Herrera**, The City College of New York, New York, NY; A. Gilerson, P. Groetsch, C. Carrizo

S7 *Developing Evaluation Tools for Chlorophyll Algorithms in the US East Coast Using Autonomous Underwater Vehicles.* **Harrison Daniel Smith**, Univ. of Delaware, Lewes, DE; M. J. Oliver, M. W. Breece, D. E. Haulsee, J. Gradone, C. Goodrich, K. Hudson

S8 *Analyzing Arctic Seasonal Phytoplankton Dynamics with MERIS Satellite Fluorescence.* **Jan Riad El Kassar**, Free Univ. Berlin, Berlin, Germany; R. Preusker, L. Kritten, J. Fischer, B. Juhls

203 *Retrieval of the Fluorescence Signal from Sentinel-3/Olci Data.* **R. Preusker**, Freie Universitaet Berlin, Berlin, Germany; L. Kritten, J. Fischer

204 *Application of Remote Sensing in Predicting Suitable Fishing Areas for Pelagic Fish in the Continental Shelf of Tanzania.* **Baraka Kuguru**, Tanzania Fisheries Research Institute, Dar es Salaam, Tanzania, United Republic of; S. B. Mahongo, I. Sailale, M. Chande, M. Semba, C. Muhando

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206 *Validation of GOES-R Fractional Snow Cover Product.* **A. Letterly**, Univ. of Wisconsin/CIMSS, Madison, WI; Y. Liu, J. R. Key

207 *Snow Cover Products from VIIRS: Algorithms and Performance.* **Peter Romanov**, City Univ. of New York, New York, NY

208 *IASI on Metop: Feedback on Three Full Operational Instruments and Lessons Learned.* **Antoine Penquer**, CNES, Toulouse, France; L. Buffet, J. Cinaud, B. Delatte, E. Jacquette, L. Lebarbier, C. Maraldi, O. Vandermarcq, C. Villaret, P. Astruc

209 *GOES-R Series Radio Frequency Interference Mitigation and Very Low Latency Data Distribution Using Networked Antennas.* **D. Santek**, CIMSS, Madison, WI; J. O. Robaidek, D. Forrest

210 *High Spectral Resolution Infrared and Advanced Microwave Sounders (CrIS/ATMS) Data Products Generated at NOAA/Nesdis.* **Awdhesh Sharma**, NOAA, College Park, MD

211 *Daily Sea-Ice Cover Based on Dww Method Using Himawari-8/AHI Data.* **D. Jin**, Pukyong National Univ., Busan, Korea, Republic of (South); K. Lee, S. Choi, D. Jung, M. Seo, N. Seong, H. Han, K. Han

212 *Snow Cover Detection Using Himawari-8/AHI Data.* **D. Jung**, Pukyong National Univ., Busan, Korea, Republic of (South); S. Choi, D. Jin, K. Lee, M. Seo, N. Seong, H. Han, K. Han

213 *Retrieval of NDVI Using Goci Data throughout Brdf Modeling in North-East ASIA.* **S. Choi**, Pukyong National Univ., Busan, Korea, Republic of (South); K. Lee, M. Seo, D. Jin, N. Seong, D. Jung, K. Han

214 *The Latest Research Progress on Satellite Data Assimilation Based on the China Meteorological Administration Land Surface Data Assimilation System.* **Shuai Sun**, National Meteorological Information Center, Beijing, China; C. Shi

215 *Comparing Snpp/NOAA20 VIIRS Dnb Reflected Lunar Radiance over DCC.* **Yan Bai**, Univ. of Maryland/CICS, College Park, MD; C. Cao, W. Wang, T. Choi

216 *The GOES-R Land Surface Temperature Product Assessment.* **P. Yu**, NOAA, College Park, MD; Y. Yu, Y. Rao, Y. Liu, H. Wang

217 *Long-Term Hirs-Based Temperature and Humidity Profiles.* **J. L. Matthews**, CICS, Asheville, NC; L. Shi

218 *Post-Launch Noise Assessment of Crosstrack Infrared Sounder (CrIS) Onboard the NOAA-20 Satellite.* **D. Tremblay**, Global Science & Technology, Inc., College Park, MD; Y. Chen, F. Iturbide-Sanchez, X. Jin

219 *Earth's Climate Variability over 7 Years from CrIS Brightness Temperature, OMPS Ozone, Carbontracker CO2, and MERRA-2.* **Ester Nikolla**, CIMSS, Madison, WI; R. Knuteson, H. E. Revercomb

220 *Assessment of Visible Infrared Imaging Radiometer Suite (VIIRS) Instrument Performance and SDR Data Quality with ICVS.* **J. Huang**, ERT Inc., NOAA/NESDIS/STAR, College Park, MD; X. Liang, B. Yan, N. Sun, C. Cao

221 *Hydrometeor Analysis Using the Fengyun-3C Micro-Wave Humidity Sounder-2 118, 150 and 183 GHz Radiances.* **Ruiyao Chen**, Vanderbilt Univ., Nashville, TN; R. Bennartz

222 *Evaluation of NOAA's Reprocessed AMSR2 Environmental Data Records.* **Patrick C. Meyers**, Univ. of Maryland, College Park, MD; R. R. Ferraro, P. S. Chang, Z. Jelenak, J. Beauchamp, L. Soulliard

223 *Continuity in Regional Cloud Trends between MODIS and VIIRS.* **R. A. Frey**, Univ. of Wisconsin, Madison, WI; S. Ackerman

224 *Re-Assessing Lifetime Geolocation Performance of CrIS Aboard Suomi-NPP with ICVS.* **Warren Porter**, SSAI, College Park, MD; B. Yan, F. Iturbide-Sanchez, L. Wang, D. Tremblay, Y. Chen, X. Liang, X. Jin, N. Sun

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226 *JPSS Life-Cycle SDR in NOAA/STAR: Data Reprocessing and Science Impacts.* **L. Lin**, CICS–Univ. Maryland Earth System Science Interdisciplinary Center, College Park, MD; L. Zhou, C. Cao, B. Yan, N. Sun, B. Zhang, Y. Chen, L. Brown, S. Kalluri

227 *Recent Improvements for CrIS SDR Data Quality.* **Y. Chen**, Global Science & Technology, Inc., College Park, MD; D. Tremblay, F. Iturbide-Sanchez, J. K. Taylor, X. Jin, M. Esplin, D. Tobin

228 *Suomi NPP Mission-Long Sensor and Environmental Data Record Reprocessing: Ongoing Efforts and Data Product Availability.* **Murty G. Divakarla**, IMSG, Rockville, MD; L. Zhou, C. Cao, N. Sun, L. Lin, I. Csiszar, W. Wolf, X. Liu, T. Atkins

229 *The Cross-Track Infrared Sounder (CrIS) NASA L1b Product: Overview and Planned Version 3 Updates.* **J. K. Taylor**, Univ. of Wisconsin–Madison, Madison, WI; L. L. Strow, H. E. Revercomb, D. C. Tobin, G. Martin, J. Braun, D. DeSlover, M. Feltz, R. K. Garcia, R. O. Knuteson, H. Motteler, G. Quinn

230 *Ensuring Continuity of Meteorological Data in Response to the GOES-17 Advanced Baseline Imager (ABI) Thermal Anomaly.* **Christopher Wheeler**, NOAA/NESDIS/Office of Satellite and Product Operations, Suitland, MD; S. Leonard

231 *Use of ABI As a Transfer to Evaluate the S-NPP and NOAA-20 VIIRS SDR Consistency with the STAR Integrated Calibration and Validation System (ICVS).* **J. Huang**, SSAI, Lanham, MD; B. Yan, N. Sun, X. Liang, C. Cao

232 *The Methodology for a GOES-R Socioeconomic Benefits Study.* **David G. Lubar**, Aerospace Corporation, Arlington, VA; M. L. Jamilkowski

233 *Improvements to a Satellite-Based Sea Surface Temperature Record.* **H. Zhang**, NOAA, Asheville, NC; P. V. F. Banzon, B. Huang, T. Smith

234 *Detection of High-Energy Particles-Induced Spikes in CrIS Fourier Transfer Data from Jstar ICVS System.* **X. Jin**, NOAA, College Park, MD; B. Yan, N. Sun

235 *Implementing Terrain-Correction for VIIRS Imagery.* **D. W. Hillger**, NOAA/NESDIS, Fort Collins, CO; T. J. Kopp, G. Lin, R. Marley, J. Dellomo, D. Stuhmer, W. Chen, S. Finley, C. J. Seaman

236 *Validation and Long-term Stability Assessment of NOAA JPSS Vegetation Index Products at a RadCalNet Site.* **Tomoaki Miura**, Univ. of Hawaii at Manoa, Honolulu, HI; C. Smith, Y. Yu

237 *GOES-17 ABI Reflective Channel Radiometric Calibration and Performance.* **H. Qian**, Science Systems and Applications, Inc. (SSAI), Lanham, MD; X. Wu, F. Yu, H. Yoo

238 *GOES-17 Advanced Baseline Imager Signal-to-Noise Performance and Impact on Downstream Products using Optimized Sensor Configuration.* **J. McCorkel**, NASA GSFC, Greenbelt, MD; M. M. Coakley, J. M. Daniels, D. T. Lindsey, A. Krimchansky

239 *Mitigation of Secondary Radiometric Calibration Artifacts in GOES-17 Advanced Baseline Imager Data.* **M. R. Black**, MIT Lincoln Laboratory, Lexington, MA; M. M. Coakley, A. Krimchansky, J. McCorkel, J. Van Naarden

240 *Optimization of GOES-17 Advanced Baseline Imager to Recover and Maximize Performance with Degraded Thermal System.* **J. Van Naarden**, Harris, Fort Wayne, IN; A. Krimchansky, J. McCorkel, D. T. Lindsey

241 *Using a Temporal/Spectral Fusion Approach to Mitigate GOES-17 ABI Infrared Data Issues and Enable Qualitative Uses.* **M. Gunshor**, SSEC/UW-Madison, Madison, WI; E. Weisz, W. P. Menzel, T. Schmit, D. Forrest, J. Gerth

242 *Assessing the Variability of VIIRS Day/Night Band Observed Nocturnal Light Sources for Use in Atmospheric Retrievals Via K-Means Clustering.* **Jeremy E. Solbrig**, CIRA, Fort Collins, CO; S. D. Miller, J. Zhang, L. D. Grasso, A. Kliewer

243 *Nighttime Sea-Fog Detection from Geostationary Satellite Using Machine Learning.* **Jae H. Kim**, Pusan National Univ., Pusan, Korea, Republic of (South)

244 *NOAA Land Surface Emissivity Product Evaluation and Application in Lst Retrieval.* **H. Wang**, NOAA, College Park, MD; Y. Yu, P. Yu, Y. Liu

245 *35-Years of Land Surface Albedo and 15-Years of Down-Welling Short-Wave Radiation Retrievals from Satellites through the EUMETSAT/Lsa-SAF and ECMWF/C3S Projects.* **D. Carrer**, CNRM, Toulouse, France; F. Pinault, I. Benhadj, X. Ceamanos, S. Coelho, G. Lellouch, C. Meurey, S. Moparthy, E. Swinnen, C. Vincent, I. Trigo

246 *GOES-R Series ABI Mesoscale Domain Sector Research Request Process: Application Highlights.* **J. Taylor**, NOAA/NESDIS/OSPO, College Park, MD; K. W. Mozer, M. Seybold, M. J. Bettwy, E. M. Guillot, B. Gockel

247 *GOES-17 Overall Instrument Calibration Status.* **E. Kline**, NOAA/NESDIS/GOES-R, Greenbelt, MD; J. Fulbright, D. Pogorzala, M. Seybold

4:00 P.M.–5:30 P.M.

Session 13A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: LIGHTNING –*Harbor Ballroom*

Chairs: Jochen Grandell, EUMETSAT, Darmstadt, Germany; Tim Walsh, NOAA/NESDIS GOES-R Program Office, Greenbelt, MD

4:00 P.M.
13A.1 *Geostationary Lightning Mapper Products.* **S. D. Rudlosky**, NOAA/NESDIS/STAR, College Park, MD; E. Bruning, K. M. Calhoun, C. J. Schultz

4:15 P.M.
13A.2 *Brazil's Lightning Hotspots, from December 2018 to February 2019, According to Space-Based GOES-16 GLM Observations.* **Jurandir Zullo**, UNICAMP, Campinas, Brazil; R. R. D. V. Gonçalves, R. I. Albrecht, B. F. Veloso, W. R. D. S. Satelis

4:30 P.M.
13A.3 *Long Horizontal Lightning Discharges Seen from Space.* **S. J. Goodman**, TGA, Owens Cross Roads, AL; K. S. Virts

4:45 P.M.
13A.4 *A Year on Orbit with Two Lightning Mappers: Lessons Learned.* **Samantha F. Edgington**, Lockheed Martin, Palo Alto, CA; C. E. Tillier, S. Larsen, T. Kpulun

5:00 P.M.
13A.5 *Meteosat Third Generation Lightning Imager Simulated Performances.* **B. Viticchie**, EUMETSAT, Darmstadt, Germany; M. Lekouara, H. Pohjola, J. Grandell, S. Joro, M. Dobber, C. Ledez, G. Fowler

5:15 P.M.
13A.6 *The GOES Geostationary Lightning (and Meteor!) Mapper: The Potential Use of GLM for Bolide Detection and Response.* **A. LeRoy**, Univ. of Alabama in Huntsville, Huntsville, AL; D. E. Moser, C. J. Schultz

4:00 P.M.–5:30 P.M.

Session 13B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: SATELLITE-BASED WIND APPLICATIONS I –*Marina Ballroom I*

Chairs: Jaime M. Daniels, NOAA/NESDIS/ORA, Camp Springs, MD; A. Bozzo, EUMETSAT, Darmstadt, Germany

4:00 P.M.
13B.1 *Current and Future Operational Atmospheric Motion Vector Products at EUMETSAT.* **R. Borde**, EUMETSAT, Darmstadt, Germany; M. Carranza, O. Hautecoeur, K. Barbieux

4:15 P.M.
13B.2 *Pre-Evaluation of Reprocessed Atmosphere Motion Vectors for CRA-40.* **Minyan Wang**, China Meteorological Administration, National Meteorological Information Centre, Beijing, China; S. Yao, L. Jiang, T. Zhang, J. Liu, Z. Liu, C. Shi

4:30 P.M.
13B.3 *Investigation of Low Level AMV Height Assignment.* **K. Lean**, ECMWF, Reading, United Kingdom; N. Bormann

4:45 P.M.
13B.4 *Satellite-Derived Winds from Mixed Multi-Platforms: Status of a Single and Tandem Satellite Polar Winds Product from VIIRS.* **D. A. Santek**, CIMSS, Madison, WI; J. R. Key, R. Dworak, S. Wanzong

5:00 P.M.
13B.5 *Extraction of 3D Wind Profiles from Hyperspectral IASI Level 2 Products.* **O. Hautecoeur**, EXOstaff, Bickenbach, Germany; R. Borde, P. Heas

5:15 P.M.
13B.6 *Optical Flow Computation and Applications in Fine-Temporal Resolution Geostationary Satellite Imagery.* **J. Apke**, CIRA, Fort Collins, CO; S. D. Miller, D. T. Lindsey, K. Hilburn

4:00 P.M.–5:30 P.M.

Session 13C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: FIRE I –*Marina Ballroom II*

Chairs: S. Kondragunta, STAR, College Park, MD; Robert Chatfield, NASA

4:00 P.M.
13C.1 *The Long-Lived Plume of the Pacific Northwest PyroCb Event: Diabatic Lofting and Radiative Effects of Aerosol and Water Vapor.* **G. P. Kablick**, NRL, Washington, DC; M. D. Fromm, G. Nedoluha, M. J. Schwartz, H. C. Pumphrey, Z. Li

4:15 P.M.
13C.2 *Stratospheric Injection of Massive Smoke Plume from Canadian Boreal Fires in 2017 As Seen By Dscovr-Epic, OMPS_LP and Caliop Observations.* **O. Torres**, NASA GSFC, Greenbelt, MD; P. K. Bhartia, G. Taha, H. Jethva, N. A. Krotkov, C. Ahn

4:30 P.M.
13C.3 *Satellite-Based Analysis of Smoke Transport to the Arctic from Boreal Forest Fires.* **Anu-Maija Sundström**, Finnish Meteorological Institute, Helsinki, Finland; S. Hassinen, L. Sogacheva, A. Arola, T. Karppinen, H. Lindqvist, I. Ialongo, G. de Leeuw, J. Tamminen

4:45 P.M.
13C.4 *Integrating Satellite Fire Detections with Coupled Fire-Weather-Smoke Forecasting System Wrfx for Improved Wildland Fire Decision Making.* **K. Hilburn**, CIRA, Fort Collins, CO; A. K. Kochanski, J. Mandel, N. Nikolov

5:00 P.M.
13C.5A *Leveraging Active Fire Information from NOAA's New Generation Polar Orbiter and Geostationary Satellites.* **I. Csiszar**, NESDIS, College Park, MD; S. Kalluri, S. Kondragunta, C. C. Schmidt, W. Schroeder, M. Tsidulko

5:15 P.M.
13C.6 *Current Status of Fire Detection with GOES-16/-17.* **C. C. Schmidt**, CIMSS, Madison, WI

4:00 P.M.–5:30 P.M.

Session 13D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: SYSTEMS –*Marina Ballroom III & IV*

Chairs: S. Marley, The Aerospace Corporation, Silver Spring, MD; Matt Seybold, NOAA/NESDIS/OSPO, Greenbelt

4:00 P.M.
13D.1 *NASA's Earth Science Research from Operational Geostationary Satellite Systems.* **Tsengdar Lee**, NASA, Washington, DC; R. Nemani, J. A. Kaye, G. Skofronick-Jackson

4:15 P.M.
13D.2 *Cloud Computing: The Next Generation IT Architecture for NOAA Satellite Data Processing.* **Kathryn Shontz**, NESDIS, Silver Spring, MD; K. St. Germain, I. Parker

4:30 P.M.
13D.3 *2met!® Massive Satellite Data Processing: A Scalable and Distributed Processing System for Earth Observation High Data Volumes.* **Xinxin Busch Li**, SCISYS Deutschland GmbH, Bochum, Germany; C. Mannel, H. Müller, P. Scheidgen, S. Recher

4:45 P.M.
13D.4 *New International Collaborations in Airborne Campaigns, Satellite Cal/Val and Science Enabled By the ESA/NASA Joint Program Planning Group (JPPG).* **J. A. Kaye**, NASA, Science Mission Directorate, Washington, DC; M. Davidson

5:00 P.M.
13D.5 *The Copernicus Climate Change Service: From a Proof-of-Concept to a Fully Operational Service.* **Jean-Noel Thépaut**, Shinfield Park, Reading, United Kingdom; W. Bell, D. DEE, H. Hersbach

5:15 P.M.
13D.6 *Relative Radiometric Calibration – Addressing a Key Challenge for Achieving Continuity of NASA Cloud Climate Data Records from MODIS to VIIRS.* **K. Meyer**, NASA GSFC, Greenbelt, MD; S. Platnick, R. E. Holz, S. Dutcher, N. Amarasinghe

4:00 P.M.–5:30 P.M.

Session 13E: TRAINING AND USER PREPARATION: SATELLITE TRAINING ACTIVITIES AND RESOURCES I – *BURROUGHS*

Chairs: Vesa Nietosvaara, EUMETSAT, Darmstadt, Germany; Andrea B. Schumacher, Colorado State Univ., Fort Collins, CO

4:00 P.M.
13E.1 *Life Cycle of Satellite Sounding Product Development: Refining Requirements and Product Design within the Hazardous Weather Testbed.* **R. Esmaili**, Science and Technology Corporation, Columbia, MD; N. Smith, C. D. Barnet, E. Berndt, J. F. Dostalek, B. H. Kahn, K. D. White, B. Sjoberg, M. Goldberg

4:15 P.M.
13E.2 *An Overview of Recent Satellite Training for GOES and JPSS.* **B. C. Motta**, NWS, Boulder, CO

4:30 P.M.
13E.3 *The Satellite Training and Operations Resource (STOR) Site: An Effort to Provide Continuing Satellite Education to National Weather Service Forecasters.* **Frank Alsheimer**, NWSFO, West Columbia, SC; S. W. Bieda III, D. A. Barber, B. C. Carcione, B. C. Motta, W. Line, B. Ward

4:45 P.M
13E.4 *Accomplishments out of the GOES-R Education Proving Ground.* **Margaret Mooney**, CIMSS, Madison, WI; T. J. Schmit, S. S. Lindstrom

5:00 P.M.
13E.5 *Updates to the Satellite Hydrology and Meteorology (SHyMet) Course That Incorporate GOES-16 Data.* **S. S. Lindstrom**, Univ. of Wisconsin, Madison, WI; K. Bah, M. M. Gunshor, A. S. Bachmeier, T. J. Schmit, D. Bikos, J. R. Thomas, M. Seybold

4:00 P.M.–5:30 P.M.

Session 13F: OCEANOGRAPHY AND MARINE METEOROLOGY: TEMPERATURE AND SALINITY – *LEWIS*

Chairs: E. A. Obligis, EUMETSAT, Darmstadt, Germany; A. Ignatov, NOAA, College Park, MD

4:00 P.M.
13F.1 *Current Status of the NOAA ACSPO SST Products from GOES-17 ABI.* **M. Pennybacker**, NOAA, College Park, MD; A. Ignatov, O. Jonasson, I. Gladkova, B. Petrenko

4:15 P.M.
13F.2 *Sentinel-3 Slstr Ongoing Cal/Val Activities for Sea Surface Temperature Measurements.* **E. A. Obligis**, EUMETSAT, Darmstadt, Germany; I. Tomazic, A. O'Carroll, G. Corlett, J. Piolle, P. Dash, T. Hewison, A. Burini, D. Smith, E. Polehampton

4:30 P.M.
13F.3 *NOAA GOES-R and Himawari-8 Hourly Collated-in-Time SST Products.* **I. Gladkova**, City College of New York, NOAA/CREST, New York, NY; A. Ignatov, M. Pennybacker, O. Jonasson, Y. Kihai

4:45 P.M.
13F.4 *Improvement of Daily and Trihourly Analysis of Cmems(Copernicus) Satellite SST over European Seas with Dineof Method.* **Françoise Orain**, Meteo-France, Lannion, France

13F.5 *WITHDRAWN*

5:00 P.M.
13F.5A *Towards High-Resolution Multi-Sensor Gridded Acspo SST Product from Polar Orbiting Satellites.* **I. Gladkova**, City College of New York, NOAA/CREST, New York, NY; A. Ignatov, M. Pennybacker, Y. Kihai

5:15 P.M.
13F.6 *Upper Ocean Responses to Rainfall: Observations from Profiling Floats.* **J.E. Anderson**, WHOI, Woods Hole, MA; S. C. Riser

6:00 P.M.–9:00 P.M.

CONFERENCE BANQUET AT THE STATE ROOM - TICKETED EVENT (SPONSORED BY AIRBUS AND LOCKHEED MARTIN)

Thursday, October 03

7:30 A.M.–5:30 P.M.	Registration–Harbor Foyer
10:00 A.M.–10:30 A.M.	Coffee Break–Galleria Hall
12:00 P.M.–1:30 P.M.	Lunch Break
12:45 P.M.–1:15 P.M.	GOES Rebroadcast (GRB) User Group Meeting–Harbor Ballroom
3:00 P.M.–4:00 P.M.	Formal Poster Viewing and Coffee Break (Sponsored by Serco Services GmbH)–Galleria Hall

8:30 A.M.–10:00 A.M.

Session 14: OCEAN COLOUR REMOTE SENSING: HISTORY, SCIENTIFIC ADVANCES WITH MODELING, AND COASTAL ISSUES –*Harbor Ballroom*

Chair: Stephanie Schollaert Uz, NASA Goddard Space Flight Center, Greenbelt, MD

8:30 A.M.
14.1 *History of Ocean Colour.* **Mark Abbott**, WHOI, Woods Hole, MA

8:45 A.M.
14.2 *Advances in Models and Assimilation of Ocean Colour.* **Stephanie Dutkieciwz**, MIT, Cambridge, MA

9:00 A.M.
14.3 *Coastal Issues and Habitats Monitored By Ocean Colour.* **Heidi Dierssen**, The Univ. of Connecticut, New Haven, CT

10:30 A.M.–12:00 P.M.

Session 15A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: ARCHITECTURE –*Harbor Ballroom*

Chairs: K. St. Germain, Director of the Office of Systems Architecture and Advanced Planning/NOAA/NESDIS/OSAAP, Silver Spring, MD; K. Holmlund, Chief Scientist EUMETSAT, Darmstadt, Germany

10:30 A.M.
15A.1 *New Capabilities Being Considered in NOAA's New Space Architecture.* **F. W. Gallagher**, NESDIS, Silver Spring, MD; K. St. Germain, M. W. Maier, P. Jasper

10:45 A.M.
15A.2 *New Observing Capabilities Enabled By Small Satellite Passive Microwave Radiometers.* **S. T. Brown**, JPL, California Institute of Technology, Pasadena, CA; W. Berg, T. C. Gaier, P. Kangaslahti, A. Kitiyakara, B. H. Lim, S. Padmanabhan, S. C. Reising, C. Venkatachalam

11:00 A.M.
15A.3 *Introduction of a High-Eccentricity Geosynchronous Polar Orbit: Tundra.* **J. Li**, CIMSS/Univ. of Wisconsin, Madison, WI; Z. Li, T. J. Schmit, M. Gunshor, F. W. Nagle

11:15 A.M.
15A.4 *Arctic Mission System Study Outcome.* **S. Mathieu**, Tales Aenia Space, Cannes, France; D. Dmestier, C. Bogaarts, F. Sjöberg, S. Lundi, A. Emrich, I. Roma

11:30 A.M.
15A.5 *Optimization of Current and Future Observing System Architectures Under the NOAA's Quantitative Observing System Assessment Program (QOSAP).* **Lidia Cucurull**, NOAA/AOML, Miami, FL; R. Atlas

11:45 A.M.
15A.6 *Flight and Ground Architecture Studies at NOAA/Nesdis.* **K. St. Germain**, Director of the Office of Systems Architecture and Advanced Planning/NOAA/NESDIS/OSAAP, Silver Spring, MD; F. W. Gallagher III, X. Li, K. S. Becker, S. Marley, M. W. Maier, P. Jasper

10:30 A.M.–12:00 P.M.

Session 15B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: SATELLITE-BASED WIND APPLICATIONS II –*Marina Ballroom I*

Chairs: R. Borde, EUMETSAT, Darmstadt, Germany; D. A. Santek, CIMSS, Madison, WI

10:30 A.M.
15B.1 *A Closer Look at GOES-16/17 Atmospheric Motion Vectors Derived from the Advanced Baseline Imager (ABI).* **J. M. Daniels**, NOAA/NESDIS, College Park, MD; W. Bresky, A. Bailey, A. Allegrino, S. Wanzong, C. S. Velden

11:00 A.M.
15B.2 *Future AMV Observations with LEO-GEO and GEO-GEO Stereo Imaging.* **Dong L. Wu**, NASA GSFC, Greenbelt, MD; J. L. Carr, M. A. Kelly

11:15 A.M.
15B.3 *Improving the Retrieval of Vertically in-Homogeneous Cloud Properties from Passive Instruments and How This Impacts the Accuracy of Atmospheric Motion Vectors Estimates from Cloud Tracking.* **A. Bozzo**, EUMETSAT, Darmstadt, Germany; P. Watts, L. Spezzi, G. Abdelaziz, R. Borde, M. Carranza, O. Hautecoeur, J. Jackson

11:30 A.M.
15B.4 *Aeolus - Status of Esa's Doppler Wind Lidar Mission.* **T. Parrinello**, ESA-ESRIN, Frascati, Italy; J. von Bismarck, S. Bley, F. de Bruin, F. Buscaglione, A. Elfving, T. Fehr, P. Fischer, R. Floberghagen, T. Kanitz, J. Piñeiro, C. Retscher, A. G. Straume-Lindner, P. Vogel, D. Wernham

11:45 A.M.
15B.5A *An Assessment of Aeolus Doppler Wind Lidar Observations for Use in Numerical Weather Prediction.* **M. P. Rennie**, European Center for Medium-Range Weather Forecasts, Reading, UK

10:30 A.M.–12:00 P.M.

Session 15C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: FIRE II –*Marina Ballroom II*

Chairs: S. Kondragunta, STAR, College Park, MD; Lesley Ott, NASA GSFC, Greenbelt, MD

10:30 A.M.
15C.1 *Smoke Foecasts using HYSPLIT-based Emission Inverse Modeling System and NOAA GOES Smoke Products.* **Tianfeng Chai**, CICS, College Park, MD; H. C. Kim, A. F. Stein, S. Kondragunta

10:45 A.M.
15C.2 *HRRR-Smoke Sensitivity Simulations for a Case Study Using Different VIIRS Satellite Fire Radiative Power Datasets.* **Ravan Ahmadov**, NOAA/ESRL, Boulder, CO; E. P. James, G. Grell, C. Alexander, J. Olson, G. Pereira, S. R. Freitas, I. A. Csiszar, M. Tsidulko, R. Yokelson, V. Selimovic

11:00 A.M.
15C.3 *Synergistic Retrieval of Smoke, Dust, and Smog Using Snpp VIIRS and S5P Tropomi.* **Pubu Ciren**, IMSG/NOAA/NESDIS/STAR, College Park, MD; S. Kondragunta

11:15 A.M.
15C.4 *Detection and Characterization of Gas Flaring from the ABI and AHI Instruments.* **Edward J. Kennelly**, Atmospheric and Environmental Research, Inc., Lexington, MA; D. Hogan

11:30 A.M.
15C.5 *Improved Fire Radiative Power Time Series By Accounting for Variation in Viewing Geometry.* **C. P. Camacho**, General Dynamics Information Technology, Monterey, CA; E. J. Hyer, D. A. Peterson

11:45 A.M.
15C.6 *Volcanic Ash Retrieval By Himawari-8 Using Refractive Index Model Estimated from Hyper Spectral Infrared Sounder Data.* **M. Hayashi**, MRI/JMA, Tsukuba, Japan; H. Ishimoto

10:30 A.M.–12:00 P.M.

Session 15D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: GOES-R / JPSS –*Marina Ballroom III & IV*

Chairs: James McNitt, NESDIS, Suitland, MD; Timo Hanschmann, EUMETSAT, Darmstadt, Germany

10:30 A.M.
15D.1 *Geocolor—Taking Value-Added Satellite Imagery to the Next Level in the GOES-R Era.* **S. D. Miller**, CIRA, Fort Collins, CO; D. T. Lindsey, C. J. Seaman

10:45 A.M.
15D.2 *The Power of the Dark Side: Visible Applications in Dark Environments, Revisited (VADER).* **S. D. Miller**, CIRA, Fort Collins, CO; W. C. Straka III, C. J. Seaman, Y. J. NOH, L. Grasso

11:00 A.M.
15D.3 *Continuity of GOES Science Product Operations: Recent Updates and Plans for Earth, Solar, and Space Observation Products.* **M. Seybold**, GOES-R, Greenbelt, MD; E. Kline, T. Feroli

11:15 A.M.
15D.4 *Status of JPSS Data Products in Operations.* **B. Reed**, JPSS/Science and Technology Corporation, Suitland, MD; A. Layns, L. Zhou, M. Goldberg, J. Weinrich

11:30 A.M.
15D.5 *The GOES-17 Advanced Baseline Imager Anomaly Mission Recovery.* **D. T. Lindsey**, NOAA/NESDIS, Fort Collins, CO; V. Griffin, K. Schrab, P. Sullivan

11:45 A.M.
15D.6 *NWS GOES-17 Loop Heat Pipe Test and Forecaster User Survey Results with Operational Test and Evaluation (OT&E) Sites.* **Joseph V. Fiore**, NWS, Silver Spring, MD

10:30 A.M.–12:00 P.M.

Session 15E: TRAINING AND USER PREPARATION: SATELLITE TRAINING ACTIVITIES AND RESOURCES II –*Burroughs*

Chairs: Federico Fierli, EUMETSAT, Darmstadt, Germany; J. Gerth, SSEC/UW-Madison, Madison, WI

10:30 A.M.
15E.1 *Insights from 15 Years of Conducting the WMO VLab Regional Focus Group Monthly Sessions for the Americas and the Caribbean.* **B. H. Connell**, CIRA/Colorado State Univ., Fort Collins, CO; E. L. Dagg, M. Davison, J. M. Galvez, K. A. Caesar, L. Veeck, M. Garbanzo, M. Campos, N. Rudorff

10:45 A.M.
15E.2 *Satellite International Training Working Group Summary of 2019 Events, Lessons Learned and Continuing Education Plans.* **Janel R. Thomas**, Science and Technology Corporation, Greenbelt, MD; D. T. Lindsey, S. J. Goodman, N. Donoho, B. H. Connell, E. Madsen, M. Medina, J. Peronto, A. Stevermer, K. W. Mozer, M. Seybold

11:00 A.M.
15E.3 *EUMETSAT Lsa SAF Outreach and Training Strategy.* **Carla Sofia Fino Barroso**, Instituto Português do Mar e da Atmosfera, Lisboa, Portugal; C. M. Gouveia, I. Trigo

11:15 A.M.
15E.4 *An Overview of the Satellite Foundational Course for JPSS (SatFC-J).* **J. Torres**, CIRA/Colorado State Univ., Fort Collins, CO; B. H. Connell, D. Bikos, E. L. Dagg, S. Miller

11:30 A.M.
15E.5 *Applications of Satellite Remote Sensing, Data Integration, and Training to Support Domestic U.S. Disaster Preparedness and Response.* **Lori A. Schultz**, Univ. of Alabama - Huntsville, Huntsville, MD; J. R. Bell, A. L. Molthan, H. M. Goodman, E. Berndt, C. R. Hain, D. S. Green

10:30 A.M.–12:00 P.M.

Session 15F: SIGNIFICANCE OF SATELLITE DATA FOR MONITORING THE POLAR REGIONS: RECENT TRENDS IN THE POLAR REGIONS –*LEWIS*

Chairs: Jeffrey Key, NOAA, Madison, WI; Hannakaisa Lindqvist, Finnish Meteorological Institute, Helsinki, Finland

10:30 A.M.
15F.1 *Monitoring Changes in Forestry and Seasonal Snow using the CLARA-A2 Surface Albedo Time Series of 1982-2016 as an Indicator.* **Terhikki Manninen**, Finnish Meteorological Institute, Helsinki, Finland; T. Aalto, T. Markkanen, M. Peltoniemi, K. Böttcher, S. Metsämäki, K. Anttila, P. Pirinen, A. Leppänen, A. N. Arslan

11:00 A.M.
15F.2 *The Surface Albedo of the Greenland Ice Sheet between 1982 and 2015 from the CM SAF Clara-A2 Climate Data Record.* **Aku Riihelä**, Finnish Meteorological Institute, Helsinki, Finland; M. D. King, K. Anttila

11:15 A.M.
15F.3 *Arctic Sea Ice Changes from Satellite Data, 1982-2018.* **Xuanji Wang**, CIMSS, Madison, WI; Y. Liu, J. R. Key

11:30 A.M.
15F.4 *Analyzing the Interrelation between Sea Ice Retreat and Low-Level Clouds in the Arctic Based on 35 Years of Satellite Observations.* **Martin Stengel**, DWD, Offenbach, Germany; D. Philipp

11:45 A.M.
15F.5 *The New Role of Satellite Observations in Monitoring Snowfall in the Polar Regions.* **Tristan S. L'Ecuyer**, Cooperative Institute for Meteorological Satellite Studies and Department of Atmospheric and Oceanic Sciences, Madison, WI

1:30 P.M.–3:00 P.M.

Session 16A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: NEW CAPABILITIES II – *HARBOR BALLROOM*

Chairs: Mike Rennie, ECMWF, Reading, United Kingdom; Elsayed R. Talaat, NOAA, Silver Spring, MD

1:30 P.M.
16A.1 *NASA Earth Science Division Satellite Program – Status and Update.* **Jack Kaye**, NASA, Washington, DC; E. Ianson, L. Friedl, P. Millar, S. Cauffman

1:45 P.M.
16A.2 *Future Atmospheric Satellite Missions Prepared By ESA – from Science to Operations.* **B. Veihelmann**, European Space Agency, Noordwijk, Netherlands; T. Fehr, R. Haagmans, A. Hoffmann, Y. Meijer, H. Oetjen, A. G. Straume, T. Wehr

2:00 P.M.
16A.3 *Cyclone Global Navigation Satellite System (CYGNSS): Mission Status and Science Applications.* **Christopher S. Ruf**, Univ. of Michigan, Ann Arbor, MI; S. Gleason, D. McKague, D. J. Posselt, M. Moghaddam

2:15 P.M.
16A.4 *Sentinel 6/ Jason-CS Altimetry Programme, Applications and Status.* **C. Bank**, EUMETSAT, Darmstadt, Germany; F. Parisot

2:30 P.M.
16A.5 *The Polar Radiant Energy in the Far Infrared Experiment (PREFIRE):a Cubesat Mission to Improve Polar Climate Prediction.* **Tristan S. L'Ecuyer**, Cooperative Institute for Meteorological Satellite Studies and Department of Atmospheric and Oceanic Sciences, Madison, WI

2:45 P.M.
16A.6 *Status of the Cubesat Infrared Atmospheric Sounder (CIRAS).* **Thomas Pagano**, JPL and California Institute of Technology, Pasadena, CA

1:30 P.M.–3:00 P.M.

Session 16B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: CONVECTION NOWCASTING II – *MARINA BALLROOM I*

Chairs: J. Mecikalski, Univ. of Alabama in Huntsville, Huntsville, AL; John L. Cintineo, CIMSS, Madison, WI

1:30 P.M.
16B.1 *Severe weather detection for nowcasting from geostationary satellite observation.* **G.H. Ryu**, KMA, Jincheon, Korea, Republic of (South); H. Y. Lee, K. H. Park, J. D. Jang

1:45 P.M.
16B.2 *A Novel Algorithm to Track Mesoscale Convective System from Himawari-8: Implications for the Climatology of Cloud and the Nowcasting of Severe Weather in China.* **Jianping Guo**, Chinese Academy of Meteorological Sciences, Beijing, China; D. Chen

2:00 P.M.
16B.3 *Feature at the Top of Severe Thunderstorms Observed By Satellites and Their Physics.* **Pao K. Wang**, Univ. of Wisconsin–Madison, Madison, WI

2:15 P.M.
16B.4 *A Three Channel, Split Window Retrieval of Low-Level Water Vapor for Convective Nowcasting.* **J. F. Dostalek**, CIRA/Colorado State Univ., Ft. Collins, CO; L. D. Grasso, Y. Noh, D. T. Lindsey

2:30 P.M.
16B.5 *What Are the Cloud-Top Microphysical Properties of Tropical Cyclones Telling Us about Intensification?* **C. J. Slocum**, CIRA, Fort Collins, CO; J. Knaff

2:45 P.M.
16B.6 *Real-Time Application of Combined Polar Satellite Hyper-Spectral Sounding and Geostationary Multi-Spectral Radiance Data to Regional Weather Prediction.* **W. L. Smith**, Univ. of Wisconsin, Madison, WI; E. Weisz, A. DiNorscia, J. J. Gerth, J. W. C. McNabb, M. Shao, Q. Zhang, M. Dutter, J. P. Gagan

1:30 P.M.–3:00 P.M.

Session 16C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AEROSOL I –*Marina Ballroom II*

Chairs: D. Loyola, DLR German Aerospace Center, Wessling, Germany; Amy Huff

1:30 P.M.

16C.1 *The New Version 4.1 of MAPIR 3D Mineral Dust and Volcanic Ash Retrievals from IASI – Description, Validation, Applications.* **Sophie J A Vandenbussche**, Royal Belgian Institute for Space Aeronomy, Brussels, Belgium; S. Callewaert, N. Kumps, M. De Mazière

1:45 P.M.

16C.2 *An Enhancement and Evaluation of Dust Detection Algorithm Based on Geo-Satellite: A Case Study of Northeast Asia.* **Soobong Lee**, NMSC(National Meteorological Satellite Center), Jincheon-gun, Chungcheongbuk-do, Korea, Republic of (South); J. Lee, E. Sohn, J. Jang

2:00 P.M.

16C.3 *Dust-Infused Baroclinic Cyclone Storm Clouds: The Evidence, Meteorology, and Implications.* **M. D. Fromm**, NRL, Washington, DC; G. P. Kablick III, P. F. Caffrey

2:15 P.M.

16C.4 *Optimized Estimation of PM2.5 By Improving the Retrievals of AOD, PBL, Fine-Mode Fraction in Comparison with a Machine Learning Method.* **Zhanqing Li**, Univ. of Maryland, College Park, MD

2:30 P.M.

16C.5 *Estimation of Spatially Continuous Particulate Matter Concentrations Under All Sky through the Synergistic Use of Satellite-Based AOD and Numerical Models.* **Seohui Park**, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea, Republic of (South); J. Lee, J. Im, S. Park

2:45 P.M.

16C.6 *Surface PM2.5 Estimation from Satellite AOD over CONUS Using Dynamically Modified Regression Models.* **Hai Zhang**, College Park, MD; S. Kondragunta, I. Laszlo

1:30 P.M.–3:00 P.M.

Session 16D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: SOUNDINGS & IMAGERY – *Marina Ballroom III & IV*

Chairs: S. D. Miller, CIRA, Fort Collins, CO; Piet Stammes, KNMI, De Bilt, Netherlands

1:30 P.M.

16D.1 *Proxy Visible Imagery and Beyond.* **G. Chirokova**, CIRA/Colorado State Univ., Fort Collins, CO; J. Knaff, M. J. Brennan, D. T. Lindsey, S. D. Miller, R. T. DeMaria, D. W. Hillger, D. A. Molenar

1:45 P.M.

16D.2 *A Microwave Humidity Sounder Fundamental Climate Data Record for C3S.* **Timo Hanschmann**, EUMETSAT, Darmstadt, Germany; V. John, R. Roebeling, J. Schulz

2:00 P.M.

16D.3 *The Climate of the 21st Century from an Infrared Perspective: Sixteen Years of the Atmospheric Infrared Sounder AIRS.* **Joao Teixeira**, JPL, Pasadena, CA

2:15 P.M.

16D.4 *NOAA Unique Combined Atmospheric Processing System (NUCAPS) Data Products Generated at NOAA/Nesdis Using NOAA-20 and Snpp Satellites.* **Awdhesh Sharma**, NOAA, College Park, MD

2:30 P.M.

16D.5 *Assessment of NOAA Nucaps Boundary Layer and Surface Retrievals over CONUS and Alaska.* **R. Knuteson**, Univ. of Wisconsin/SSEC, Madison, WI; C. Bloch, J. Maier, E. Borbas, M. Feltz, A. Gambacorta, N. R. Nalli, L. Zhou

2:45 P.M.

16D.6 *Satellite Sounder Products in NASA GES DISC & Services Supporting Their Applications.* **Feng Ding**, NASA GSFC/GES DISC and ADNET Systems Inc., Greenbelt, MD; M. Theobald, T. Hearty, L. Iredell, B. Vollmer, D. Ostrenga, J. Wei, D. Meyer

1:30 P.M.–3:00 P.M.

Session 16E: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: DROUGHT AND AGRICULTURE –*Burroughs*

Chairs: C. Nakalembe, Univ. of Maryland, College Park, MD; Francisco Zambrano, Hémera Centro de Observación de la Tierra, Santiago, Chile

1:30 P.M.

16E.1 *Enhancing the Integration of Earth Observations and Agrometeorological Data for Agriculture and Food Security Assessments.* **A. K. Whitcraft**, Univ. of Maryland, College Park, MD; G. Husak, C. Nakalembe, S. Shukla, C. Justice, I. Becker-Reshef, C. O. Justice

1:45 P.M.

16E.2 *Using Remotely Sensed Precipitation Information and Vegetation Observation from the NOAA/Climate Data Record (CDR) Program for Early Drought Detection and Near-Real Time Monitoring on a Global Scale.* **Olivier P. Prat**, North Carolina Institute for Climate Studies, Asheville, NC; B. R. Nelson, A. M. Courtright, R. D. Leeper, J. L. Matthews, S. Ansari

2:00 P.M.

16E.3 *Improving Drought Early Detection Using Atmospheric Infrared Sounder (AIRS) Observations.* **Alireza Farahmand**, JPL/California Institute of Technology, Pasadena, CA; S. Granger

16E.5 *WITHDRAWN*

2:30 P.M.

16E.6 *Short-Term Drought Forecasts Using Numerical Model Data and Temporal Patterns of Satellite-Derived Drought Indicators.* **S. Park**, Ulsan National Institute of Science and Technology, UNIST, Ulsan, Korea, Republic of (South); J. Im, J. Rhee

1:30 P.M.–3:00 P.M.

Session 16F: SIGNIFICANCE OF SATELLITE DATA FOR MONITORING THE POLAR REGIONS: MONITORING THE CRYOSPHERE –*Lewis*

Chairs: Jeffrey Key, NOAA, Madison, WI; Hannakaisa Lindqvist, Finnish Meteorological Institute, Helsinki, Finland

1:30 P.M.
16F.1 *Changes in Sea Ice Outweigh Changes in Snow Cover, and Other Applications of Satellite Data to Studies of Polar Climate Change.* **J. R. Key**, NESDIS, Madison, WI; A. Letterly, Y. Liu

2:00 P.M.
16F.2 *Retrieval of Physical Parameters of Arctic Sea Ice from Microwave Measurements and Applications for Climate Change Studies and NWP.* **B. J. Sohn**, Seoul National Univ., Seoul, Korea, Republic of (South)

2:15 P.M.
16F.3 *A Comparison of EUMETSAT OSI SAF Sea Ice Concentration Products and Ice Charts.* **John Lavelle**, Danish Meteorological Institute, Copenhagen, Denmark; R. Tonboe, M. Kreiner, L. Pedersen

2:30 P.M.
16F.4 *A Blended Ice Motion Product from VIIRS, AMSR2, and SAR.* **A. Letterly**, Univ. of Wisconsin/CIMSS, Madison, WI; J. R. Key, Y. Liu, S. R. Helfrich, F. M. Monaldo

2:45 P.M.
16F.5 *Evaluation of JPSS VIIRS Albedo Estimates Against MODIS, APP-x, and Clara-A2 Albedo Products.* **Jingjing Peng**, Univ. of Maryland, College Park, MD; Y. Yu, Y. Zhou

3:00 P.M.–4:00 P.M.

SECOND FORMAL VIEWING OF WEDNESDAY/ THURSDAY POSTERS–*Galleria*

Poster Session 7: AIR QUALITY AND ATMOSPHERIC COMPOSITION: POSTERS

122 *Satellite Air Quality Observations By Copernicus Sentinel-5P Tropomi, Aura OMI, and S-NPP OMPS.* **Jian Zeng**, NASA GSFC/ GES DISC and ADNET Systems, Greenbelt, MD; D. Ostrenga, J. E. Johnson, B. Vollmer, J. Wei, I. V. Gerasimov

123 *Satellite-Based Photolysis Rates of NO2 and O3: Applications to Air Quality and Secondary Pollution Formation.* **Anu-Maija Sundström**, Finnish Meteorological Institute, Helsinki, Finland; J. Kujanpää, N. Kalakoski, J. Tamminen

124 *Inter Comparison of Volcanic SO2 Products Estimated By Linear Fit so2 and By Principle Component Algorithms.* **J. Niu**, IMSG/NOAA/ NESDIS/STAR, College Park, MD; L. Flynn, T. Beck, Z. Zhang, E. Beach

125 *Stratospheric Aerosol and Gas Experiment III on the International Space Station (SAGE III/ISS) Science Data: Preliminary Observations of Regional Dynamics of Utls Trace Gases.* **Susan Kizer**, NASA LaRC, Hampton, VA; M. M. Roell, D. E. Flittner, R. Damadeo, L. Thomason, T. Knepp, J. R. Moore, K. R. Leavor, D. Hurst, E. Hall, A. Jordan, P. Cullis, B. Johnson, R. Querel

126 *Splat - a Flexible Interface to the Vlidort Radiative Transfer Model for Atmospheric Retrieval Applications.* **C. Chan Miller**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; R. Spurr, K. Sun, H. Wang, G. González Abad, X. Liu, P. Zoogman, J. Bak, K. Chance

127 *Characterization of Diurnal Cycles of Fire Activity, Fire Radiative Power, and Fire Size across the CONUS Using GOES-16 and GOES-17 ABI Observations.* **Fangjun Li**, South Dakota State Univ., Brookings, SD; X. Zhang, S. Kondragunta, C. C. Schmidt

128 *Integrating NOAA Polar and Geostationary Fire Detection Algorithms to Develop a New Enterprise Active Fire Product.* **Y. Gu**, I.M. Systems Group, Inc. at NOAA NESDIS Center for Satellite Applications and Research, College Park, MD; I. A. Csiszar, C. C. Schmidt, M. Tsidulko

129 *Advanced FIRE Risk Forecast over Mediterranean: Assessment of Terrestrial Drought in Addition to Lsa SAF FIRE Weather Indexes.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; J. S. Stoyanova, P. N. Neytchev, A. T. Kulishev

130 *Detection of Dry Intrusions and Increased Ozone Concentrations in the Environment of Wild Fires over Mediterranean.* **C. G. Georgiev**, National Institute of Meteorology and Hydrology, Sofia, Bulgaria; S. A. Tjemkes

131 *VIIRS Fire Radiative Power Estimates in NOAA JPSS Active Fire Products..* **M. Tsidulko**, IMSG at NOAA/NESDIS/STAR, College Park, MD; I. A. Csiszar, W. Schroeder

132 *Monitoring and Forecasting Dust Haze over West Africa By Combining Satellites Imageries and Numerical Weather Prediction Models.* **Abdoul Aziz Abebe Abdou Adam**, ASECNA, Niger

133 *Interferene of Satellite Dust Detection By Water Vapor.* **L. D. Grasso**, Cooperative Institute for Research in the Atmosphere/ Colorado State Univ., Fort Collins, CO

134 *Satellite-Based Estimation of Regional Particulate Matter (PM) Using Multiple Regression Model and Vertical/Humidity Correction Method.* **Yun Gon Lee**, Chungnam National Univ., Korea, Republic of (South)

135 *Global OMI Aerosol Products: Algorithm Update and Validation Results.* **C. Ahn**, SSAI, Lanham, MD; O. Torres, H. Jethva

136 *Aerosol and Cloud Type Identification from Spatial and Spectral Information Using Machine Learning Methods.* **Willem J. Marais**, CIMSS, Univ. of Wisconsin–Madison, Madison, WI; R. E. Holz, J. S. Reid, R. M. Willett

137 *Development of Fast Radiative Transfer Model Mbcrm for Analysis of Volcanic Ash Clouds Measured By Hyperspectral Infrared Sounder.* **Hiroshi Ishimoto**, MRI, Japan; M. Hayashi

138 WITHDRAWN

139 *Detecting and Assessing Trends of CFCs and Substitutes from IASI Measurements.* **P.F. Coheur**, Université Libre de Bruxelles (ULB), Brussels, Belgium; H. De Longueville, L. Clarisse, B. Franco, S. Whitburn, C. Clerbaux, C. Camy-Peyret

140 *The Aurora Project: Main Achievements from Science through Technology to Applications.* **U. Cortesi**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, S. Del Bianco, M. Gai, C. Tirelli, N. Zoppetti, M. Bonazountas, A. Argyridis, E. Loenen, A. Arola, J. Kujanpää, A. Lipponen, W. Wandji, R. Van Der A, J. Van Peet, O. Tuinder, A. Masini, E. Simeone, R. Dragani, A. Keppens, M. Van Roozendael, J. Lambert, K. Verberne

141 *Improvements of Tropospheric Ozone Profile Retrievals with Joint UV/Visible Measurements: Gome-2 and TEMPO.* **X. Liu**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; J. Bak, C. Chan Miller, K. Chance

142 *Retrieval and Validation of OMI-MLS Tropospheric Ozone over China.* **Xingying Zhang**, National Satellite Meteorological Center, Beijing, China

143 *An Assessment on Ozone Mapping and Profiler Suite (OMPS) Instrument Performance and SDR Radiance Data Quality with Integrated Calibration/Validation System.* **Ding Liang**, Global Science and Technology, College Park, MD

144 *Reprocessing of the V8TOz and V8PRO Ozone Products from S-NPP OMPS Measurements.* **Z. Zhang**, IMSG/NOAA/NESDIS/STAR, College Park, MD; L. E. Flynn, E. Beach, J. Niu, C. T. Beck

145 *Validation and Quality Assurance of Gome-2A/2B/2C Ozone Profiles and Tropospheric Ozone Column Products in an Operational Context, Using Balloon Sounding Data.* **D. Loyola**, DLR German Aerospace Center, Wessling, Germany; A. Delcloo, K. Heue, P. Valks, O. Tuinder

146 *An Assessment of the Contribution of Mid-Morning Polar Fire Observations to an Integrated Fire Monitoring System over the Conterminous United States.* **I. Csiszar**, NESDIS, College Park, MD; Y. Gu, M. Tsidulko

147 *Assay of a Satellite Methodology for Volcanic Ash Classification. Calbuco Volcano Case.* **Diana Marina RODRIGUEZ**, Servicio Meteorológico Nacional (SMN), Argentina; S. C. Bolzi, M. S. R. Lpardo, S. Oores S. Maciel

Poster Session 8: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: POSTERS II

148 *NASA Tropics Earth Venture Mission: Payload Characteristics and Data Products.* **R.V. Leslie**, MIT Lincoln Laboratory, Lexington, MA; W. J. Blackwell, S. A. Braun, R. Bennartz, G. Chirokova, M. DeMaria, T. Greenwald, L. E. Gumley, D. C. Herndon, C. Kidd, T. Matsui, C. S. Velden

149 *Results of Comparison between Precipitation Estimates By the MW Cross-Track Scanner (H18) and the Dual-Frequency Precipitation Radar (DPR) Product According to the H-SAF Validation Methodology over the MSG Full Disk Area.* **Marco Petracca**, Presidency of the Council of Ministers, Rome, Italy; J. Kaňák, F. Porcù, R. Iwanski, B. Lapeta, M. Diószeghy, I. Szenyán, P. Baguis, E. Roulin, A. Oztopal, P. Krahe, A. Kunkel, E. Artinyan, H. Chervenkov, C. Cacciamani, A. Toniazzo, G. Vulpiani, S. Puca

150 *Does Atms Need a Companion Microwave Calibration Satellite?* **Philip W. Rosenkranz**, MIT, Chestnut Hill, MA; W. J. Blackwell, R. V. Leslie

151 *Calibrating WRF-Hydro By Assimilating Surface Water Ocean Topography (SWOT) Water Surface Elevations.* **N. J. Elmer**, Univ. of Alabama in Huntsville, Huntsville, AL; J. McCreight, C. R. Hain

152 *Inter-Calibration of Small Satellite-Based Microwave, Infrared and Radio Occultation Sensors and Demonstration with Proxy Data.* **X. Shao**, CISESS and Astronomy/Univ. of Maryland, College Park, MD; B. Zhang, A. S. Sharma, X. Jing, E. H. Berbery, C. Cao, S. Ho

153 *Planetary Boundary Layer (PBL) Thermodynamic Structure from Space.* **Joao Teixeira**, JPL, Pasadena, CA; J. A. Santanello, M. Lebsock

154 *Generalization of the Complete Data Fusion to Multi-Target Retrievals.* **C. Tirelli**, CNR, Sesto Fiorentino, Italy; S. Ceccherini, B. Carli, N. Zoppetti, S. Del Bianco, U. Cortesi

155 *The Tropics Mission's Sounding Capabilities.* **Ralf Bennartz**, Vanderbilt Univ., Nashville, TN; W. J. Blackwell, S. Braun, R. V. Leslie, T. Greenwald

156 *Application of Satellite and Aircraft-Based Radar Retrievals of Mass and Projected-Area Dimensional Relations to MODIS Thermal Infrared Cirrus Retrievals.* **J. Mascio**, AER, Lexington, MA; R. P. d'Entremont

157 *Radiometric Calibration of Himawari-8 and 9/AHI Reflective Solar Bands.* **Yusuke Yogo**, JMA, Tokyo, Japan

158 *How New on Board Calibrations Will Allow High Level of Performance during IASI-NG Mission..* **Elisa Baldit**, CNES, TOULOUSE, France; A. Penquer, F. Bernard, A. Deschamps, C. Luitot, J. Pasquier, A. Dumas, B. Calvel, F. Faure, F. Bermudo, L. Buffet

159 *Near Real-Time Snowfall Rate Applications from S-NPP and NOAA-20.* **Huan Meng**, NOAA/NESDIS/Center for Satellite Applications and Research, College Park, MD; J. Dong, C. Kongoli, R. R. Ferraro, B. Yan, L. Zhao, K. D. White, E. Berndt, W. Adkins, A. Jacobs

160 *Tolerance Analysis of Reflector Antenna of Sub-Millimeter Wave Radiometer.* **Weidong Hu**, Beijing Institute of Technology, Beijing, China; L. Wang, S. Chen, X. Zhang

161 *The Cost Function of the Data Fusion Process and Its Application.* **S. Ceccherini**, CNR, Sesto Fiorentino, Italy; N. Zoppetti, B. Carli, U. Cortesi, S. Del Bianco, C. Tirelli

162 *Potential Role of Tundra Orbit in Future Weather Satellite Constellations.* **F. W. Gallagher**, NESDIS, Silver Spring, MD; K. St. Germain, M. W. Maier

163 *Microwave Soundings in the Presence of Precipitation: Observations Under Tropical Conditions.* **M. Schreier**, JPL/California Institute of Technology, Pasadena, CA; B. H. Lambrigtsen

164 *Doppler Scanning with Gas Filters (DSGF): A Window to Upper Atmosphere Dynamics.* **Larry Gordley**, GATS, Yorktown, VA; D. C. Fritts

165 *Impact of Simulated Tropics Data on Tropical Cyclone Prediction in a Regional OSSE.* **Hui Christophersen**, Univ. of Miami/Cooperative Institute for Marine and Atmospheric Studies and NOAA/AOML/HRD, Miami, FL; B. A. Dahl, R. Atlas, A. Askoy, W. Blackwell, S. Braun, R. Bennartz, T. Greenwald, R. F. Rogers, J. P. Dunion, F. D. Marks

166 WITHDRAWN

167 *Special Sensor Ultraviolet Limb Spectrometer (SSULS) for Ionosphere Electron Density Measurements.* **J. Kujawski**, Brandywine Photonics, Exton, PA; J. Fisher, D. Guerin, J. Julian, Z. Burns

168 *Additional Performance Evaluation for NOAA Satellite Observing System Architecture (NSOSA) Study.* **M. M. Coakley**, MIT Lincoln Laboratory, Lexington, MA; D. P. ryan-Howard, F. J. Rich, M. K. Griffin, G. P. Ginet, H. Iskenderian, K. St. Germain, F.W. Gallagher III, M.W. Maier, P. Jasper

169 *Satellite Inter-Comparison of Geostationary and Polar-Orbiting Hyperspectral IR Sounders: Radiances, Thermodynamic Retrievals, and Stability Indices.* **J. Maier**, CIMSS/Univ. of Wisconsin, Madison, WI; R. Knuteson, P. Menzel, H. Revercomb, W. L. Smith Sr., E. Weisz, D. C. Tobin

170 *Sensing Heavy Precipitation with Polarimetric Radio Occultations Aboard the PAZ Satellite: A New View of Precipitation and Water Vapor.* **Ramon Padulles**, JPL, Pasadena, CA; J. Turk, C. O. Ao, M. de la Torre Juárez, K. Wang, B. A. Iijima, E. Cardellach, S. Oliveras, S. Tomás, A. Rius

171 *The Evolution of Gridded Nucaps: Transition of Research to Operations.* **E. Berndt**, NASA Marshall Space Flight Center, Huntsville, AL; N. Smith, J. E. Burks, K. D. White, R. E. Allen

172 *The Copernicus Global Land Surface Temperature Product: Recent Improvements, Validation and Applications.* **Joao Martins**, Univ. of Lisbon, Instituto Dom Luiz, Lisbon, Portugal; I. Trigo, S. C. Freitas, R. Lacaze, J. P. Macedo

173 *Recent Developments on Rainfull Estimation in H SAF (EUMETSAT Satellite Application Facility in Support to Operational Hydrology and Water Management).* **Davide Melfi**, Italian Air Force Met Service - COMet, Pomezia (Rome), Italy; D. Biron, F. Zauli, G. Panegrossi, P. Sanò, A. C. Marra, S. Dietrich, L. Brocca, L. Ciabatta, C. Massari, S. Sebastianelli, G. Salvucci

174 *Risk Reduction Strategies in NOAA's New Space Architecture.* **M.W. Maier**, Aerospace Corporation, Chantilly, VA; F.W. Gallagher III, K. St. Germain

175 *Science Quality Observations from the Tempest-D Cubesat Microwave Radiometer.* **W. Berg**, Colorado State Univ., Fort Collins, CO; S. T. Brown, S. C. Reising, B. H. Lim, C. D. Kummerow, T. C. Gaier, S. Padmanabhan, Y. Goncharenko, V. Chandrasekar, R. Schulte, B. Kilmer

176 *Rttov for Hyperspectral Far Infrared (FIR) Instruments : The Forum Example.* **Jerome Vidot**, Meteo-France / CNRS, Lannion, France; P. Brunel, J. Hocking, M. Matricardi, R. Saunders

177 *Monitoring the Performance of the Dscovr Epic Instrument's Visible Bands Using MODIS and VIIRS As a Reference.* **C. O. Haney**, SSAI, Hampton, VA; D. R. Doelling, W. Su, R. Bhatt, B. Scarino, A. Gopalan

178 *On-Orbit Relative Calibration for Image Striping Mitigation Using Advanced Baseline Imager Special Scans.* **F. P. Padula**, GeoThinkTank LLC, Washington, DC; M. J. Cook, D. Pogorzala, J. McCorkel, A. Krimchansky, D. T. Lindsey

179 *Advancements in GOES-R UAS Post-Launch Satellite Sensor Product Validation.* **F. P. Padula**, GeoThinkTank LLC, Washington, DC; A. J. Pearlman, M. J. Cook, J. McCorkel, C. Cao, D. T. Lindsey

180 *The NASA Decadal Survey Observing-System Study for Aerosols and Clouds, Convection, and Precipitation (A-CCP).* **Scott A. Braun**, NASA GSFC, Greenbelt, MD; E. Berndt, A. da Silva, R. A. Ferrare, M. Kacenelenbogen, D. B. Kirschbaum, A. Omar, W. A. Petersen, G. L. Stephens, D. E. Waliser, D. M. Winker

181 *GOES-17 Advanced Baseline Imager (ABI) on-Orbit Performance.* **D. Gall**, Harris, Fort Wayne, IN; J. Van Naarden, P. C. Griffith

182 *NOAA-20 Data Products Cal/Val Maturity and Performance Updates.* **L. Zhou**, NOAA, College Park, MD; M. Divakarla, X. Liu, C. Cao, I. A. Csiszar, T. Atkins, S. Kalluri, A. Layns, M. D. Goldberg

183 *Post Launch Evaluation of GK-2A AMI Science Data to Operations.* **SR. Chung**, KMA, Chungcheongbuk-do, Korea, Republic of (South); S. Cheong, M. Ahn, K. Han, G. Lee, D. Shin, W. Jung

184 *Microwave Radiometer Sensors and Antennas for Economical Satellite Constellations.* **Marian Klein**, Boulder Environmental Sciences and Technology, Boulder, CO; T. Hohman, C. Dunlap, Z. Wang

185 *A Strategic Approach to Developing a Radio Frequency Interference Monitoring System (RFIMS).* **Pouyan Amirshahi**, NESDIS, Silver Spring, MD; S. Grippando

186 *Emergency Radiocommunicatn System for Hydrologic and Meteorologic Services.* **Edison Cruz**, Instituto Nacional de Meteorología e Hidrología (INAMHI), Ecuador

Poster Session 9: OCEANOGRAPHY AND MARINE METEOROLOGY: POSTERS

187 *Observing Tropical Cyclone with High Resolution SAR Winds and Geostationary Data..* **Stéphane Saux Picart**, CNRM, Lannion, France; A. Mouche

188 *Assessment of Cygnss Data Impacts on Global Ocean Surface Wind Analyses.* **J. Hegarty**, Atmospheric and Environmental Research, Lexington, MA; S. M. Leidner, S. J. Majumdar, B. Annane, R. Atlas, B. McNoldy

189 *Improvement of Ku-Band Pencil-Beam Scatterometer Wind Quality Control Under Moist Convection Conditions.* **M. Portabella**, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain; W. Lin, A. Stoffelen, A. Verhoef, Z. Wang, X. Xu

190 *Reanalysis Surface Wind Biases Using Ascat.* **A. Stoffelen**, KNMI, DeBilt, Netherlands; M. Belmonte Rivas

191 *The New Near Coastal Quikscat Wind Data Set.* **B.W. Stiles**, JPL, Pasadena, CA; A. Fore

192 *Influence of Assimilating Cygnss Ocean Surface Wind Data on Tropical Cyclone Analyses and Predictions.* **S. J. Majumdar**, Univ. of Miami, Miami, FL; B. Annane, S. M. Leidner, R. Atlas, B. McNoldy, J. Hegarty

193 *Update to the NOAA Ncei Blended Global Sea Surface Winds Product and Services.* **H. Zhang**, NOAA, Asheville, NC; K. Saha, X. Zhao

194 *Using Fastem to Monitor SMOS Brightness Temperature over the Ocean.* **Giovanna De Chiara**, ECMWF, Reading, United Kingdom; L. Isaksen, S. J. English

196 *Lake Water Tempertures for NCEP Regional Modelling.* **Eileen Maturi**, NOAA/NESDIS, College Park, MD; A. Harris

197 *Error Estimation of Pathfinder Version 5.3 SST Level 3C Using Extended Triple Collocation Approach.* **K. Saha**, Cooperative Institute for Climate Studies, College Park, MD; P. Dash, X. Zhao, H. Zhang

198 *Monitoring Global Sea-Surface Salinity through Combined Use of Satellite Observations and in-Situ Measurements.* **L. Ren**, Innovim and NOAA/NWS/NCEP/CPC, College Park, MD; P. Xie, Y. Xue, A. Kumar, T. Boyer, E. Bayler, G. Fang

199 *Sentinel-3 Slstr L1 and L2 Marine Product Updates.* **E. A. Obligis**, EUMETSAT, Darmstadt, Germany; I. Tomazic, A. O'Carroll, G. Corlett, S. Dransfeld, D. Smith, C. Donlon, J. Piolle

200 *Cmems Level-3 and Level-4 Near-Real-Time Wave Products Derived from Altimetry and SAR.* **Elodie Charles**, CLS, Ramonville Saint-Agne, France; R. Husson, N. Taburet, A. Mouche

201 *Using CRTM to Bias Correct Satellite-Derived Ocean Surface State Parameter Estimates.* **Jackie C. May**, NRL, Stennis Space Center, MS; C. D. Rowley

202 *Sea Level Variations in the East China Sea from Merged Altimetry Data.* **Jilong Chen**, IAP, Beijing, China

S6 *Validation of Ocean Color Satellite Sensors Using Aeronet-OC and Cruise Data.* **Eder I. Herrera**, The City College of New York, New York, NY; A. Gilerson, P. Groetsch, C. Carrizo

S7 *Developing Evaluation Tools for Chlorophyll Algorithms in the US East Coast Using Autonomous Underwater Vehicles.* **Harrison Daniel Smith**, Univ. of Delaware, Lewes, DE; M. J. Oliver, M. W. Breece, D. E. Haulsee, J. Gradone, C. Goodrich, K. Hudson

S8 *Analyzing Arctic Seasonal Phytoplankton Dynamics with MERIS Satellite Fluorescence.* **Jan Riad El Kassar**, Free Univ. Berlin, Berlin, Germany; R. Preusker, L. Kritten, J. Fischer, B. Juhls

203 *Retrieval of the Fluorescence Signal from Sentinel-3/Olci Data.* **R. Preusker**, Freie Universitaet Berlin, Berlin, Germany; L. Kritten, J. Fischer

204 *Application of Remote Sensing in Predicting Suitable Fishing Areas for Pelagic Fish in the Continental Shelf of Tanzania.* **Baraka Kuguru**, Tanzania Fisheries Research Institute, Dar es Salaam, Tanzania, United Republic of; S. B. Mahongo, I. Sailale, M. Chande, M. Semba, C. Muhando

Poster Session 10: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: POSTERS II (WR)

205 *GOES-R AWG and Cwg Work to Improve ABI Imagery and Data Quality.* **M. M. Gunshor**, CIMSS, Madison, WI; T. J. Schmit, J. P. Nelson III

206 *Validation of GOES-R Fractional Snow Cover Product.* **A. Letterly**, Univ. of Wisconsin/CIMSS, Madison, WI; Y. Liu, J. R. Key

207 *Snow Cover Products from VIIRS: Algorithms and Performance.* **Peter Romanov**, City Univ. of New York, New York, NY

208 *IASI on Metop: Feedback on Three Full Operational Instruments and Lessons Learned.* **Antoine Penquer**, CNES, Toulouse, France; L. Buffet, J. Cinaud, B. Delatte, E. Jacquette, L. Lebarbier, C. Maraldi, O. Vandermarcq, C. Villaret, P. Astruc

209 *GOES-R Series Radio Frequency Interference Mitigation and Very Low Latency Data Distribution Using Networked Antennas.* **D. Santek**, CIMSS, Madison, WI; J. O. Robaidek, D. Forrest

210 *High Spectral Resolution Infrared and Advanced Microwave Sounders (CrIS/ATMS) Data Products Generated at NOAA/Nesdis.* **Awdhesh Sharma**, NOAA, College Park, MD

211 *Daily Sea-Ice Cover Based on Dww Method Using Himawari-8/AHI Data.* **D. Jin**, Pukyong National Univ., Busan, Korea, Republic of (South); K. Lee, S. Choi, D. Jung, M. Seo, N. Seong, H. Han, K. Han

212 *Snow Cover Detection Using Himawari-8/AHI Data.* **D. Jung**, Pukyong National Univ., Busan, Korea, Republic of (South); S. Choi, D. Jin, K. Lee, M. Seo, N. Seong, H. Han, K. Han

213 *Retrieval of NDVI Using Goci Data throughout Brdf Modeling in North-East ASIA.* **S. Choi**, Pukyong National Univ., Busan, Korea, Republic of (South); K. Lee, M. Seo, D. Jin, N. Seong, D. Jung, K. Han

214 *The Latest Research Progress on Satellite Data Assimilation Based on the China Meteorological Administration Land Surface Data Assimilation System.* **Shuai Sun**, National Meteorological Information Center, Beijing, China; C. Shi

215 *Comparing Snpp/NOAA20 VIIRS Dnb Reflected Lunar Radiance over DCC.* **Yan Bai**, Univ. of Maryland/CICS, College Park, MD; C. Cao, W. Wang, T. Choi

216 *The GOES-R Land Surface Temperature Product Assessment.* **P. Yu**, NOAA, College Park, MD; Y. Yu, Y. Rao, Y. Liu, H. Wang

217 *Long-Term Hirs-Based Temperature and Humidity Profiles.* **J. L. Matthews**, CICS, Asheville, NC; L. Shi

218 *Post-Launch Noise Assessment of Crosstrack Infrared Sounder (CrIS) Onboard the NOAA-20 Satellite.* **D. Tremblay**, Global Science & Technology, Inc., College Park, MD; Y. Chen, F. Iturbide-Sanchez, X. Jin

219 *Earth's Climate Variability over 7 Years from CrIS Brightness Temperature, OMPS Ozone, Carbontracker CO2, and MERRA-2.* **Ester Nikolla**, CIMSS, Madison, WI; R. Knuteson, H. E. Revercomb

220 *Assessment of Visible Infrared Imaging Radiometer Suite (VIIRS) Instrument Performance and SDR Data Quality with ICVS.* **J. Huang**, ERT Inc., NOAA/NESDIS/STAR, College Park, MD; X. Liang, B. Yan, N. Sun, C. Cao

221 *Hydrometeor Analysis Using the Fengyun-3C Micro-Wave Humidity Sounder-2 118, 150 and 183 GHz Radiances.* **Ruiyao Chen**, Vanderbilt Univ., Nashville, TN; R. Bennartz

222 *Evaluation of NOAA's Reprocessed AMSR2 Environmental Data Records.* **Patrick C. Meyers**, Univ. of Maryland, College Park, MD; R. R. Ferraro, P. S. Chang, Z. Jelenak, J. Beauchamp, L. Soulliard

223 *Continuity in Regional Cloud Trends between MODIS and VIIRS.* **R. A. Frey**, Univ. of Wisconsin, Madison, WI; S. Ackerman

224 *Re-Assessing Lifetime Geolocation Performance of CrIS Aboard Suomi-NPP with ICVS.* **Warren Porter**, SSAI, College Park, MD; B. Yan, F. Iturbide-Sanchez, L. Wang, D. Tremblay, Y. Chen, X. Liang, X. Jin, N. Sun

225 WITHDRAWN

226 *JPSS Life-Cycle SDR in NOAA/STAR: Data Reprocessing and Science Impacts.* **L. Lin**, CICS–Univ. Maryland Earth System Science Interdisciplinary Center, College Park, MD; L. Zhou, C. Cao, B. Yan, N. Sun, B. Zhang, Y. Chen, L. Brown, S. Kalluri

227 *Recent Improvements for CrIS SDR Data Quality.* **Y. Chen**, Global Science & Technology, Inc., College Park, MD; D. Tremblay, F. Iturbide-Sanchez, J. K. Taylor, X. Jin, M. Esplin, D. Tobin

228 *Suomi NPP Mission-Long Sensor and Environmental Data Record Reprocessing: Ongoing Efforts and Data Product Availability.* **Murty G. Divakarla**, IMSG, Rockville, MD; L. Zhou, C. Cao, N. Sun, L. Lin, I. Csiszar, W. Wolf, X. Liu, T. Atkins

229 *The Cross-Track Infrared Sounder (CrIS) NASA L1b Product: Overview and Planned Version 3 Updates.* **J. K. Taylor**, Univ. of Wisconsin–Madison, Madison, WI; L. L. Strow, H. E. Revercomb, D. C. Tobin, G. Martin, J. Braun, D. DeSlover, M. Feltz, R. K. Garcia, R. O. Knuteson, H. Motteler, G. Quinn

230 *Ensuring Continuity of Meteorological Data in Response to the GOES-17 Advanced Baseline Imager (ABI) Thermal Anomaly.* **Christopher Wheeler**, NOAA/NESDIS/Office of Satellite and Product Operations, Suitland, MD; S. Leonard

231 *Use of ABI As a Transfer to Evaluate the S-NPP and NOAA-20 VIIRS SDR Consistency with the STAR Integrated Calibration and Validation System (ICVS).* **J. Huang**, SSAI, Lanham, MD; B. Yan, N. Sun, X. Liang, C. Cao

232 *The Methodology for a GOES-R Socioeconomic Benefits Study.* **David G. Lubar**, Aerospace Corporation, Arlington, VA; M. L. Jamilkowski

233 *Improvements to a Satellite-Based Sea Surface Temperature Record.* **H. Zhang**, NOAA, Asheville, NC; P. V. F. Banzon, B. Huang, T. Smith

234 *Detection of High-Energy Particles-Induced Spikes in CrIS Fourier Transfer Data from Jstar ICVS System.* **X. Jin**, NOAA, College Park, MD; B. Yan, N. Sun

235 *Implementing Terrain-Correction for VIIRS Imagery.* **D. W. Hillger**, NOAA/NESDIS, Fort Collins, CO; T. J. Kopp, G. Lin, R. Marley, J. Dellomo, D. Stuhmer, W. Chen, S. Finley, C. J. Seaman

236 *Validation and Long-term Stability Assessment of NOAA JPSS Vegetation Index Products at a RadCalNet Site.* **Tomoaki Miura**, Univ. of Hawaii at Manoa, Honolulu, HI; C. Smith, Y. Yu

237 *GOES-17 ABI Reflective Channel Radiometric Calibration and Performance.* **H. Qian**, Science Systems and Applications, Inc. (SSAI), Lanham, MD; X. Wu, F. Yu, H. Yoo

238 *GOES-17 Advanced Baseline Imager Signal-to-Noise Performance and Impact on Downstream Products using Optimized Sensor Configuration.* **J. McCorkel**, NASA GSFC, Greenbelt, MD; M. M. Coakley, J. M. Daniels, D. T. Lindsey, A. Krimchansky

239 *Mitigation of Secondary Radiometric Calibration Artifacts in GOES-17 Advanced Baseline Imager Data.* **M. R. Black**, MIT Lincoln Laboratory, Lexington, MA; M. M. Coakley, A. Krimchansky, J. McCorkel, J. Van Naarden

240 *Optimization of GOES-17 Advanced Baseline Imager to Recover and Maximize Performance with Degraded Thermal System.* **J. Van Naarden**, Harris, Fort Wayne, IN; A. Krimchansky, J. McCorkel, D. T. Lindsey

241 *Using a Temporal/Spectral Fusion Approach to Mitigate GOES-17 ABI Infrared Data Issues and Enable Qualitative Uses.* **M. Gunshor**, SSEC/UW-Madison, Madison, WI; E. Weisz, W. P. Menzel, T. Schmit, D. Forrest, J. Gerth

242 *Assessing the Variability of VIIRS Day/Night Band Observed Nocturnal Light Sources for Use in Atmospheric Retrievals Via K-Means Clustering.* **Jeremy E. Solbrig**, CIRA, Fort Collins, CO; S. D. Miller, J. Zhang, L. D. Grasso, A. Kliewer

243 *Nighttime Sea-Fog Detection from Geostationary Satellite Using Machine Learning.* **Jae H. Kim**, Pusan National Univ., Pusan, Korea, Republic of (South)

244 *NOAA Land Surface Emissivity Product Evaluation and Application in Lst Retrieval.* **H. Wang**, NOAA, College Park, MD; Y. Yu, P. Yu, Y. Liu

245 *35-Years of Land Surface Albedo and 15-Years of Down-Welling Short-Wave Radiation Retrievals from Satellites through the EUMETSAT/Lsa-SAF and ECMWF/C3S Projects.* **D. Carrer**, CNRM, Toulouse, France; F. Pinault, I. Benhadj, X. Ceamanos, S. Coelho, G. Lellouch, C. Meurey, S. Moparthy, E. Swinnen, C. Vincent, I. Trigo

246 *GOES-R Series ABI Mesoscale Domain Sector Research Request Process: Application Highlights.* **J. Taylor**, NOAA/NESDIS/OSPO, College Park, MD; K. W. Mozer, M. Seybold, M. J. Bettwy, E. M. Guillot, B. Gockel

247 *GOES-17 Overall Instrument Calibration Status.* **E. Kline**, NOAA/NESDIS/GOES-R, Greenbelt, MD; J. Fulbright, D. Pogorzala, M. Seybold

4:00 P.M.–5:30 P.M.
Session 17A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: CAL/VAL –*Harbor Ballroom*

Chairs: C. Cao, NOAA, College Park, MD; K. Dieter Klaes, European Organisation for the Exploitation of Meteorological Satellites, Darmstadt, Germany

4:00 P.M.
17A.1 *Calibration Considerations of GEO Ring.* **X. Wu**, NOAA, College Park, MD; F. Yu, H. Yoo, S. Kalluri, C. Cao

4:15 P.M.
17A.2 *An Automated Algorithm to Detect MODIS, VIIRS and GEO Sensor Calibration Discontinuities.* **D. R. Doelling**, NASA, Hampton, VA; C. O. Haney, R. Bhatt, B. Scarino, A. Gopalan

4:30 P.M.
17A.3 *Development of Calibration Methods Using Specular Reflection over the Ocean for the Multi-Viewing, Multi-Channel, Multi-Polarization Imager (3MI) of the EUMETSAT Polar System – Second Generation (EPS-SG).* **M. S. Djellali**, Univ. Lille, CNRS, Lille, France; J. Riedi, S. Marcq, B. Fougnie, S. Hioki, J. M. Nicolas

4:45 P.M.
17A.4 *Geometric Calibration of Eclipse Season on the Advanced Baseline Imager (ABI) Sensor on the GOES-EAST and GOES-WEST Geostationary Satellites.* **S. Guo**, contractor to NOAA, College Park, MD; V. Kondratovic, X. Wu

5:00 P.M.
17A.5 *IASI on-Board Metop-C: Instrument Status and Performance Assessment during Calibration/Validation Phase.* **Claire Maraldi**, CNES, Toulouse, France; E. Jacquette, L. Le Barbier, J. Chinaud, L. Buffet, A. Penquer, B. Delatte, J. C. Calvel, C. Baque, B. Tournier, Y. Kangah, O. Lasserre, R. Braun, A. Vincenisi, S. Sylvander, C. Pierangelo, O. Vandermarcq

5:15 P.M.
17A.6 *A High Quality Climate Benchmark of the Earth Utilizing a New on-Orbit IR Transfer Standard.* **H. E. Revercomb**, Univ. of Wisconsin Space Science and Engineering Center, Madison, WI; F. A. Best, R. O. Knuteson, D. C. Tobin, J. K. Taylor, P. J. Gero, D. Adler, M. Mulligan

4:00 P.M.–5:30 P.M.

Session 17B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: NOWCASTING APPLICATIONS I – *Marina Ballroom I*

Chairs: Natasa Strelec Mahovic, DHMZ-Croatian Meteorological and Hydrological Service, Zagreb, Croatia; C. Carbajal Henken, Freie Universität Berlin, Berlin, Germany

4:00 P.M.
17B.1 *The Nowcasting SAF Products and Services: Current status and Future Plans.* **Pilar Rípodas**, AEMET, Madrid, Spain; X. Calbet, J. L. Lliso, N. Peinado-Galán, J. A. Lahuerta, M. A. Martínez, J. García-Pereda, O. Alonso, J. M. Gallardo, H. Legleau, G. Kerdraon, S. Péré, J. M. Moisselin, F. Autones, M. Claudon, A. Thoss, A. Dybbroe, R. Scheirer, N. Håkansson, S. Hörnquist, A. Jann, A. Wirth, A. Diamandi, O. Nicola

4:15 P.M.
17B.2 *Use of NWC SAF Software Package (NWC/GEO) with GOES-16 Satellite.* **Javier García-Pereda**, AEMET/Agencia Estatal de Meteorología, Madrid, Spain; P. Rípodas, J. L. Lliso, X. Calbet, J. M. Gallardo, M. A. Martínez, J. A. Lahuerta, H. Le Gléau, G. Kerdraon, S. Péré, J. M. Moisselin, F. Autones, M. Claudon, A. Jann, A. Wirth, Ó. Alonso, L. Fernández

4:30 P.M.
17B.3 *Nwcsaf v2018 Convection Products: Improvements, Validation and Adaptability to End-Users.* **F. Autones**, Météo-France, Toulouse, France; M. Claudon, J. M. Moisselin

4:45 P.M.
17B.4 *Nwcsaf/PPS - the EUMETSAT Processing Package to Derive Cloud Parameters for Nowcasting from Polar Orbiting Satellites.* **A. Dybbroe**, SMHI, Norrköping, Sweden; N. Håkansson, S. Hörnquist, R. Scheirer, A. Thoss, J. F. Meirink

Paper 17B.5 is now Poster 19A.

5:00 P.M.
17B.6 *Treasure Hunting: Applications of Artificial Intelligence to Meteorological Satellite Data with a Vision to the Near Future.* **Anthony Wimmers**, CIMSS, Madison, WI; M. J. Pavolonis, T. Rink, J. L. Cintineo, C. S. Velden, A. Heidinger, S. Wanzong

4:00 P.M.–5:30 P.M.

Session 17C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AEROSOL II – *Marina Ballroom II*

Chairs: Amy Huff; D. Loyola, DLR German Aerospace Center, Wessling, Germany

4:00 P.M.
17C.1 *Synergy of LEO and GEO Observations for Observing Global Aerosol Optical Depth.* **R. Levy**, NASA GSFC, Greenbelt, MD; S. Mattoo, J. Wei, P. Gupta

4:15 P.M.
17C.2 *Assimilation of Aerosol Observations in the NASA GEOS Model.* **Virginie Buchard**, GESTAR/USRA and NASA-GSFC, Greenbelt, MD; A. da Silva, R. Todling, D. Holdaway

4:30 P.M.
17C.3 *Development of the Joint NOAA-NASA Aerosol Reanalysis. Progress and Plans.* **Mariusz Pagowski**, NOAA, Boulder, CO; A. M. Dasilva, S. Lu, W. Shih-Wei, S. Kondragunta

4:45 P.M.
17C.4 *Air Quality Monitoring Using NOAA JPSS Enterprise Aerosol Detection Product.* **Pubu Ciren**, IMSG/NOAA/NESDIS/STAR, College Park, MD; S. Kondragunta

5:00 P.M.
17C.5 *Dscovr-Epic Maiac AOD - a Proxy for Understanding Aerosol Diurnal Patterns from Space.* **Meytar Sorek-Hamer**, USRA, Mountain View, CA; Y. Liu, A. Lyapustin, D. Huang, I. Kloog, A. C. Just

5:15 P.M.
17C.6 *Aerosol Composition and Vertical Distribution Retrievals Using Multi-Angle, Hyperspectral Measurements of Oxygen Absorption.* **Vijay Natraj**, JPL, Pasadena, CA; T. Le, Z. C. Zeng, A. Doicu, D. Loyola, S. P. Sander, Y. L. Yung

4:00 P.M.–5:30 P.M.

Session 17D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: DIRECT READOUT –*MARINA BALLROOM III & IV*

Chairs: Thomas Renkevens, NOAA/NESDIS, College Park, MD; Frank Gallagher, NOAA/NESDIS/OSAAP, Silver Spring, MD

4:00 P.M.
17D.1 *NOAA Improves its Support of Satellite Direct Broadcast Users.* **James McNitt**, NESDIS, Suitland, MD

4:15 P.M.
17D.2 *Real-Time Support of Environmental Decision Makers Using the Community Satellite Processing Package (CSPP) for Low Earth Orbiter (LEO) Meteorological Satellites.* **K. I. Strabala**, Univ. of Wisconsin/CIMSS, Madison, WI; L. Gumley, A. Huang, S. Mindock, J. Davies, G. D. Martin, G. Cureton, N. Bearson, R. Garcia, J. Braun

4:30 P.M.
17D.3 *NOAA Direct Broadcast Real-Time Network for Providing Low Latency Infrared and Microwave Sounder Data to NWP Centers: Status and Recent Enhancements.* **L. Gumley**, CIMSS, Madison, WI; B. Flynn, J. Davies, M. D. Goldberg

4:45 P.M.
17D.4 *NOAA High Rate Information Transmission (HRIT) Broadcast Transition.* **Seth Clevenstine**, NESDIS, Silver Spring, MD

5:00 P.M.
17D.5 *Geonetcast Americas: Overview, Products and User Case Examples.* **N. Donoho**, NOAA/NESDIS, Suitland, MD; L. Machado, D. Souza

5:15 P.M.
17D.6 *Transformation of the Argos Data Collection System in the 2020s.* **Scott D Rogerson**, NESDIS, Suitland, MD

4:00 P.M.–5:30 P.M.

Session 17E: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: DROUGHT, HEATWAVES, AND AGRICULTURE –*BURROUGHS*

Chairs: Nathan Torbick, Applied Geosolutions, Durham, NH; Olivier P. Prat, North Carolina Institute for Climate Studies, Asheville, NC

4:00 P.M.
17E.1 *Monitoring and Forecasting Water Availability with the FEWS NET Land Data Assimilation System.* **C. D. Peters-Lidard**, NASA Goddard Space Flight Center, Greenbelt, MD; A. McNally, A. Hazra, D. P. Sarmiento, J. P. Jacob, S. Pervez, K. R. Arsenault, J. P. Verdin, K. Verdin

4:15 P.M.
17E.2 *Agricultural Drought Monitoring Based on Satellite Derived Indicators: Standardised Precipitation-Evapotranspiration Index (SPEI) and Vegetation Health Index (VHI) over Morocco..* **Sara Moutia**, DMN, Casablanca, Morocco

4:30 P.M.
17E.3 *Quantifying the Impact of Evapotranspiration from Crops on an Extreme Heat Wave Event in the Midwestern U.S.: A Top-Down Constraint from Satellites Using the Local Ensemble Transform Kalman Filter (LETKF).* **A. H. Souri**, Smithsonian Astrophysical Observatory, Cambridge, MA; H. Wang, G. Gonzalez Abad, X. Liu, K. Chance

4:45 P.M.
17E.4 *Prediction of Seasonal Agricultural Productivity Anomalies Derived from MODIS Data for the Cultivated Land of Chile.* **Francisco Zambrano**, Hémera Centro de Observación de la Tierra, Santiago, Chile

5:00 P.M.
17E.5 *Understanding the Impact of Extreme Events Using Remote Sensing: A Pathfinder in Partnerships, Data Integration and Outcome-Based Informatics.* **Nicole D. Bartlett**, NOAA, Woods Hole, MA

5:15 P.M.
17E.6 *Reanalysis and Climate Data Records As a Supporting Tool for Global Extremes Monitoring.* **Joaquin Muñoz-Sabater**, ECMWF, Reading, United Kingdom; W. Bell, P. Berrisford, D. Dee, A. Horanyi, H. Hersbach, J. Nicolas, R. Radu, C. Soci, D. Schepers, A. Simmons, J. N. Thépaut, F. Vamborg

4:00 P.M.–5:30 P.M.

Session 17F: SIGNIFICANCE OF SATELLITE DATA FOR MONITORING THE POLAR REGIONS: HIGH-LATITUDE APPLICATIONS –*LEWIS*

Chairs: Jeffrey Key, NOAA, Madison, WI; Hannakaisa Lindqvist, Finnish Meteorological Institute, Helsinki, Finland

4:00 P.M.
17F.1 *JPSS Arctic Initiative - Supporting Sea Ice Monitoring and Analysis.* **Bonnie Reed**, JPSS, Suitland, MD; A. Layns

4:15 P.M.
17F.2 *Solving Methane Fluxes at Northern Latitudes Using Atmospheric and Soil Earth Observations Data.* **H. Lindqvist**, Finnish Meteorological Institute, Helsinki, Finland; T. Aalto, A. Tsuruta, E. Kivimäki, V. Kangasaho, M. Tenkanen, K. Rautiainen

4:30 P.M.
17F.3 *The Impact of Satellite Data Assimilation in the High Resolution Copernicus Arctic Regional Analysis.* **Z. Q. Wang**, Norwegian Meteorological Institute, OSLO, Norway; R. Randriamampianina, M. Dahlbom, M. Lindskog, P. Dahlgren, T. Sigurdur, S. Hagelin, T. M. Valkonen, X. Yang

4:45 P.M.
17F.4 *Polar Satellite Data from Direct Broadcast in Action in Alaska.* **Carl Dierking**, Univ. of Alaska, Juneau, AK

5:00 P.M.
17F.5 *Polar Slider: A Website for the Display of Global Polar-Orbiting Satellite Data in Near Realtime.* **C. J. Seaman**, CIRA, Fort Collins, CO; K. Micke, Y. J. NOH, J. F. Dostalek, S. Finley, S. D. Miller, D. W. Hillger

5:15 P.M.
17F.6 *On the Potential of a Sounder in Heo Constellation: An OSSE Proposal.* **Stephen A. Tjemkes**, AER, Lexington, MA; R. Hoffman, D. Arthurs, L. Garand, A. M. Harri, L. Toudal, I. Sandholt, J. Steinwagner, A. Thoss

Friday, October 04

7:30 A.M.–12:30 P.M. Registration–Harbor Foyer

10:15 A.M.–10:45 A.M. Coffee Break–Harbor Foyer

8:30 A.M.–10:15 A.M.

Session 18A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: PASSIVE MICROWAVE – *HARBOR BALLROOM*

Chairs: Christophe Accadia, EUMETSAT, Darmstadt, Germany; W. J. Blackwell, MIT Lincoln Laboratory, Lexington, MA

8:30 A.M.

18A.1 *Temporal Experiment for Storms and Tropical Systems (TEMPEST) Mission Design and Technology Demonstration: Global Observations from a Well-Calibrated Passive Microwave Atmospheric Sounder on a 6U CubeSat.* **S. C. Reising**, Colorado State Univ., Fort Collins, CO; T. C. Gaier, S. T. Brown, S. Padmanabhan, C. D. Kummerow, V. Chandrasekar, W. Berg, B. H. Lim, C. Heneghan, R. Schulte, Y. Goncharenko, M. Pallas, D. Laczkowski, A. Bullard

Paper 18A.2 Is Now a Poster

8:45 A.M.

18A.2A *A Proposed Microcal Mission.* **C. Kummerow**, Colorado State Univ., Fort Collins, CO

9:00 A.M.

18A.3 *Toward Improved Climate Data Record Using Stable Snpp/Atms Observations As References.* **CZ. Zou**, NESDIS, College Park, MD

9:15 A.M.

18A.4 *Re-Characterize Noise Performance for on-Orbit Advanced Technology Microwave Sounder on Snpp-NOAA-20 and Advanced Microwave Sounding Unit –a on Metop-a/B/C Satellites.* **Banghua Yan**, NOAA, College Park, MD; W. Porter, J. Chen, N. Sun, S. Kireev, C. Zou, L. Zhou

9:30 A.M.

18A.5 *SI-Traceable Microwave Brightness Temperature Calibration/Inter-Calibration: Benefits, Technology, and Needs.* **E. J. Kim**, NASA, Greenbelt, MD; W. Bell, K. Fennig, D. Houtz, D. Gu, V. Kangas, T. Ishikawa, W. J. Emery

9:45 A.M.

18A.6 *Lunar Calibration for Spaceborne Microwave Radiometers.* **Hu Yang**, Univ. of Maryland, College Park, College Park, MD

10:00 A.M.

18A.7 *JPSS Atms Post-Launch Active Geolocation Analysis.* **CH. J. Lyu**, GSFC, Greenbelt, MD; E. J. Kim, L. McCormick, R. V. Leslie, I. A. Osaretin

8:30 A.M.–10:00 A.M.

Session 18B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: NOWCASTING APPLICATIONS II – *MARINA BALLROOM I*

Chairs: L. Machado, INPE, Cachoeira Paulista, Brazil; T. J. Schmit, NOAA/NESDIS, Madison, WI

8:30 A.M.

18B.1 *Near-Real Time Surface-Based CAPE from Merged Hyperspectral IR Satellite Sounder and Surface Meteorological Station Data.* **R. O. Knuteson**, CIMSS, Madison, WI; C. Bloch, A. Gambacorta, N. R. Nalli, J. M. Gartzke, L. Zhou

18B.2 *WITHDRAWN*

8:45 A.M.

18B.3 *Relating Satellite-Observed Total Column Water Vapor Variability to Convective Initiation to Potentially Improve Precipitation Now-Casting..* **C. Carbajal Henken**, Freie Universität Berlin, Berlin, Germany; R. Preusker, J. Fischer

9:00 A.M.

18B.4 *Applications of Layer Precipitable Water Products from Microwave Satellite Retrievals and Forecast Model Integration.* **John Forsythe**, CIRA/Colorado State Univ., Fort Collins, CO; S. Kusselson, S. Q. Kidder, A. S. Jones, E. Szoke, C. M. Gitro, M. L. Jurewicz Sr., D. Leins

9:15 A.M.

18B.5 *Using Nucaps to Observe the Thermodynamic Structure of Strong Saharan Air Layer Outbreaks about Its Source within the Deserts of Northeast Africa.* **Arunas P. Kuciauskas**, NRL, Monterey, CA; R. Esmaili, N. Smith

9:30 A.M.

18B.6 *Applications of Water Vapor-Derived Multispectral Composites for Geostationary Satellites.* **Gary J. Jedlovec**, NASA/MSFC, Huntsville, AL; E. Berndt, K. K. Fuell, F. J. LaFontaine, N. J. Elmer

9:45 A.M.

18B.7 *Pytroll in the Alps: The New, Operational Satellite Data Processing at Meteoswiss.* **Lorenzo Clementi**, MeteoSwiss, Locarno-Monti, Switzerland; U. Hamann, M. Sassi

8:30 A.M.–10:15 A.M.

Session 18C: AIR QUALITY AND ATMOSPHERIC COMPOSITION: AEROSOL III – *MARINA BALLROOM II*

Chairs: B. Veihelmann, European Space Agency, Noordwijk, Netherlands; R. Levy, NASA GSFC, Greenbelt, MD

8:30 A.M.

18C.1 *MODIS Retrieval of Aerosol Optical Depth over Turbid Coastal Water.* **Y. Wang**, Univ. of Iowa, Iowa City, IA; J. Wang, R. Levy, E. Hyer, Y. Shi, S. Mattoo

8:45 A.M.

18C.2 *Developing an Aerosol Retrieval for Land, Ocean, and Littoral Zones Using the Next Generation Geostationary Observations As a Part of Colorado State Univ. Onr Muri.* **S. Miller**, CIRA/Colorado State Univ., Fort Collins, CO; M. Oo, B. Holz, A. Heidinger, A. Walther

9:00 A.M.
18C.3 *The Polar Multi-Sensor Aerosol Product : Improvement and New Capabilities Offered By the Three Metop Satellites.* **B. Fougnie**, EUMETSAT, Darmstadt, Germany; M. Vazquez-Navarro, A. Cacciari, R. Lang, A. Holdak

9:15 A.M.
18C.4 *Evaluation of the Metop Pmap Version 2 AOD Products Using Emac Model Data, Aeronet Ground Station and Reference Satellite Observations (MISR and MODIS-AQUA/TERRA).* **Swen Metzger**, ResearchConcepts io GmbH, Freiburg i.Br., Germany; M. Abdelkader, K. Klingmüller, B. Steil, A. Cacciari, M. Grzegorski, R. Lang, R. Munro, M. V. Navarro, B. Fougnie

9:30 A.M.
18C.5 *EUMETSAT Atmospheric Products from Sentinel-3 for Numerical Weather Prediction and Global Climate Monitoring - Current and Future Near-Real Time Products: Aerosols, Clouds,* H2o, Winds **B. Fougnie**, EUMETSAT, Darmstadt, Germany; J. Chimot, R. Borde, K. Barbieux, B. Bojkov

9:45 A.M.
18C.6 *Validating and Improving GOES-16 Operational Aerosol Optical Depth Product.* **Mi Zhou**, IMSG, College Park, MD; I. Laszlo, H. Liu

10:00 A.M.
18C.7 *Validation of Absorbing Aerosol Height Product from Gome-2 Using Caliop Data.* **Veerle De Bock**, Royal Meteorological Institute of Belgium, Ukkel, Belgium; I. Pardo Cantos, Q. Laffineur, A. Mangold, G. Tilstra, O. Tuinder, A. Delcloo

8:30 A.M.–10:15 A.M.
Session 18D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: SNOW & WILDFIRE –*MARINA BALLROOM III & IV*

Chairs: S. Kondragunta, STAR, College Park, MD; S. Marley, The Aerospace Corporation, Silver Spring, MD

18D.1 *WITHDRAWN*

18D.1A *River Ice Detection on The Daugava River Using Sentinel-1 SAR Data.* **Andrejs Zubaničs**, Latvian Environment Geology and Meteorology Centre, Riga, Latvia

8:45 A.M.
18D.2 *Consistency in the AMSR-E Snow Products.* **Ryan Gonzalez**, Colorado State Univ., Fort Collins, CO; C. D. Kummerow

9:00 A.M.
18D.3 *Modeled Atmospheric Responses to Satellite-Derived Snow Anomalies.* **Qigang Wu**, Fudan Univ., Shanghai, China

9:15 A.M.
18D.4 *Ceasefire: An Operational Tool for Wildfire Management in Portugal, Mediterranean Europe and Mozambique Using Products from the Lsa SAF.* **C. DaCamara**, IDL Instituto Dom Luiz, Faculdade de Ciencias, Universidade de Lisboa, Lisboa, Portugal; R. Trigo, S. A. Nunes, M. M. Pinto, R. Libonati, I. Trigo

9:30 A.M.
18D.5 *After 18 Years of Satellite Burned Area Products, Have We Achieved a Comprehensive Knowledge of Fire Patterns in the Brazilian Savannah?* **R. Libonati**, UFRJ, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil; D. Oom, C. DaCamara, J. A. Rodrigues, F. M. Lemos, P. Silva, A. Pereira, J. Nogueira, L. F. Peres, J. M. N. Silva, G. Martins, A. W. Setzer, J. M. C. Pereira

9:45 A.M.
18D.6 *Measuring Burn Scars with JPSS Satellites to Provide Preliminary Burn Intensity Estimates to NWS for Debris Flow Hazard Assessment.* **Sam Batzli**, Univ. of Wisconsin-Madison, Madison, WI; K. Rowden, B. Sjoberg, D. Parker, N. Bearson, R. Dengel

10:00 A.M.
18D.7 *Towards the Development of Real-Time Normalized Burn Ratio (NBR) and delta NBR Imagery from GOES-16/17.* **K. D. White**, NWS, Huntsville, AL; E. Berndt, R. L. Fontenot

8:30 A.M.–10:15 A.M.
Session 18F: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: PRECIPITATION AND STORMS –*LEWIS*

Chairs: C. D. Peters-Lidard, NASA Goddard Space Flight Center, Greenbelt, MD; Joaquin Muñoz Sabater, ECMWF, Reading, United Kingdom

18F.1 *WITHDRAWN*

8:45 A.M.
18F.2 *Extreme Precipitation - ENSO Teleconnections Revealed in Principal Components of TMPA Data.* **Andrey Savtchenko**, NASA/GSFC, Greenbelt, MD; G. J. Huffman, B. Vollmer, D. Meyer

9:00 A.M.
18F.3 *Extreme Precipitation Events Detected By the First Generation Cmorph.* **Shaorong Wu**, Innovim, LLC, NOAA/NCEP/CPC, College Park, MD; P. Xie, R. J. Joyce, L. Ren

9:15 A.M.
18F.4 *Improved Tropical Cyclone Precipitation Climatology from Satellite Observations.* **S. Yang**, Naval Research Laboratory, Monterey, CA; V. Lao, R. Bankert, T. Modi, J. Cossuth, T. R. Whitcomb

9:30 A.M.
18F.5 *Integrate Operational Polar-Orbiting and Geostationary Satellites for Monitoring the Catastrophic Floodwaters Due to Hurricanes.* **Donglian Sun**, George Mason Univ., Fairfax, VA; S. Li, M. Goldberg, B. Sjoberg, S. Goodman, D. T. Lindsey

9:45 A.M.
18F.6 *Prospects and Challenges for Sub-Seasonal to Seasonal Prediction.* **J. Kinter**, COLA, Fairfax, VA

8:30 A.M.–10:15 A.M.
Panel Discussion 18E: MONITORING THE CHANGING POLAR ENVIRONMENT: IMPACTS ON ECONOMIC, MARITIME, AND NATIONAL SECURITY –*BURROUGHS*

10:45 A.M.–12:30 P.M.

Session 19A: NEW SATELLITE SYSTEMS AND INSTRUMENTATION: HYPERSPECTRAL INFRARED –*Harbor Ballroom*

Chairs: Thomas Pagano, JPL/California Institute of Technology, Pasadena, CA; D. M. A. Aminou, ESA, Noordwijk, Netherlands

10:45 A.M.
19A.1 *Assessing the Potential Inclusion of an InfraRed Hyperspectral Sounding Capability in the Next Generation GEO Weather Satellite Constellation.* **Edward Grigsby**, GSFC, Greenbelt, MD; P. Sullivan, D. T. Lindsey, J. McCorkel, A. Krimchansky

11:00 A.M.
19A.2 *MTG-IRS: Scientific Improvements Toward a User-Friendly Mission.* **Bertrand Theodore**, EUMETSAT, Darmstadt, Germany; D. Coppens, T. August, T. Hultberg, C. Goukenleuque

11:15 A.M.
19A.3 *Expeditious Implementation of a Hyperspectral Imaging IR Sounder (HIIS) in Geostationary Orbit.* **Henry E. Revercomb**, Univ. of Wisconsin, Madison, WI; W. L. Smith Sr., R. O. Knuteson, D. C. Tobin, J. K. Taylor, F. A. Best, P. J. Gero

11:30 A.M.
19A.4 *Agile GEO IR Hyperspectral Sounder.* **Ronald J. Glumb**, Harris Corporation, Fort Wayne, IN; P. C. Griffith

11:45 A.M.
19A.5 *Capabilities of Present and Next Generation of Space-Based Infrared Hyperspestral Sounders.* **F. Iturbide-Sanchez**, NOAA, College Park, MD; D. Tremblay, Y. Chen, D. Tobin, H. Revercomb, L. Strow, D. G. Johnson, J. Predina, C. Cao, S. Kalluri

12:00 P.M.
19A.6 *A First View on the Metop-C IASI Level 2 Performances.* **Marc Crapeau**, EUMETSAT, Darmstadt, Germany; T. August, T. Hultberg, S. Stapelberg, A. Burini, A. O'Carroll, C. Clerbaux, P. F. Coheur, D. Hurtmans, L. Clarisse, D. Coppens

12:15 P.M.
19A.7 *Enterprise Assessment and Uncertainty Estimates for Satellite Retrievals Using Collocations with Conventional and GRUAN Radiosondes.* **Anthony Reale**, College Park, MD

10:45 A.M.–12:30 P.M.

Session 19B: IMPACT OF SATELLITE DATA ON NOWCASTING AND NUMERICAL WEATHER PREDICTION: ATMOSPHERIC HAZARD NOWCASTING –*Marina Ballroom I*

Chairs: K. Lean, ECMWF, Reading, United Kingdom; Wayne F. Feltz, CIMSS/Univ. of Wisconsin, Madison, WI

19B.1 *WITHDRAWN*

10:45 A.M.
19B.1A *VIIRS Flood Detection via Direct Broadcast.* **N. Bearson**, Univ. of Wisconsin–Madison, Madison, WI; S. Li, K. Strabala, L. E. Gumley, M. D. Goldberg

11:00 A.M.
19B.2 *Joint Polar Satellite System (JPSS) Aviation Initiative: Supporting Aviation Forecasters and Pilots.* **J. Weinrich**, JPSS/STC, Glenn Dale, MD

11:15 A.M.
19B.3 *Assimilation of VIIRS Land Surface Temperature into NCEP RTMA Alaska Domain.* **Xiaoyan Zhang**, IMSG, College Park, MD; J. C. Derber, A. Collard, J. R. Carley, M. Pondeca

11:30 A.M.
19B.5 *Nowcasting of Tropical Hailstorm Using GOES-16 ABI and GLM.* **L. Machado**, INPE, cachoeira paulista, Brazil; E. D. Freitas, B. Z. Ribeiro, C. Araujo, J. F. Ribaud, R. Albrecht, E. P. Vendrasco, J. H. H. Chinchay, K. W. Mozer, S. J. Goodman

19B.4 *WITHDRAWN*

11:45 A.M.
19B.4A *Geostationary Satellite Improvements to Better View the Pacific and Surrounding Areas.* **T. J. Schmit**, NOAA/NESDIS/Center for Satellite Applications and Research, Madison, WI; M. M. Gunshor, J. J. Gerth, D. T. Lindsey, X. Wu, E. Weisz, W. P. Menzel

12:00 P.M.
19B.6 *Machine-Learning Image Classifications and Hazard Identification.* **E. Berndt**, NASA/MSFC, Huntsville, NM; C. P. Jewett, A. L. Molthan, C. R. Hain

12:15 P.M.
19B.7 *Usage of the VIIRS and Other Instruments Other Channels in Disaster Response and Monitoring.* **W. Straka**, CIMSS, Madison, WI; B. Sjoberg, S. Li, S. Miller, M. Goldberg

10:45 A.M.–12:30 P.M.

Session 19C: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: DATA ACCESS –*Marina Ballroom II*

Chairs: M. Seybold, GOES-R, Greenbelt, MD; Joachim Saalmueller, EUMETSAT, Darmstadt, Germany

10:45 A.M.
19C.1 *NOAA Updates on Latest Status of National and International Low-Earth Orbiting (LEO) Satellites – Data Processing, Distribution, and Product Generation to Users.* **J. Taylor**, NOAA/NESDIS/OSPO, College Park, MD; C. Gliniak, C. Sisko

19C.2 *WITHDRAWN*

11:00 A.M.
19C.2A *User Services of the EUMETSAT Satellite Application Facility on Climate Monitoring (CM SAF).* **J. W. Kaiser**, Deutscher Wetterdienst, Offenbach, Germany; N. Selbach, K. Fennig, B. Thies, N. Gromotka, S. Kothe, R. Hollmann, M. Werscheck

11:15 A.M.
19C.3 *Operational Weather Forecaster Access to Near-Real-Time Data Products from the Joint Polar Satellite System.* **John D. Evans**, Global Science & Technology, Inc., Greenbelt, MD; F. M. Al-Mtwali, D. Khadjenouri

11:30 A.M.
19C.4 *Data Access of GEO-Komsat-2A.* **Jin Woo**, KMA, Chungbuk, Jincheon, Korea, Republic of (South); K. Yongsang, O. Hyunjong, S. Ah-young, L. Jungseop, S. Dongkee

11:45 A.M.
19C.5 *Using the NASA GES Disc's Unique Capabilities to Find, Use, and Comprehend NASA Earth Science Data from Satellites and Models.* **James Acker**, NASA GES DISC / Adnet Systems, Inc., Greenbelt, MD; D. Meyer, J. Wei, B. Vollmer, D. Ostrenga, P. Huwe, M. Hegde

12:00 P.M.
19C.6 *Adding Blended Products to the STAR JPSS EDR LTM and Jstar Mapper Website.* **Ryan C. Smith**, IMSG at NOAA/NESDIS/STAR, College Park, MD; T. Atkins, L. K. Brown, C. Brown, L. Zhou

10:45 A.M.–12:30 P.M.
Session 19D: STATUS OF SATELLITE PRODUCTS AND DATA ACCESS: LAND –*Marina Ballroom III & IV*

Chairs: R. Libonati, UFRJ, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil; Chris O'Connors, NOAA/NWS

10:45 A.M.
19D.1 *Enhancements to the Evapotranspiration Products from NOAA GOES-16 and 17.* **S. Kalluri**, NOAA/NESDIS/STAR, College Park, MD; L. Fang, M. A. Schull, X. Zhan, C. R. Hain, M. C. Anderson

11:00 A.M.
19D.2 *H-SAF Root-Zone Soil Wetness Products Based on Assimilating Scatterometer Soil Moisture Retrievals into a Land Surface Model.* **David Fairbairn**, ECMWF, Reading, UK; P. de Rosnay, C. Albergel, L. Isaksen, S. English

11:15 A.M.
19D.3 *Dynamic Mapping of Snow and Vegetation and Bare Soil Albedos on a Daily Time Basis using MSG Geostationary Satellite: Method for Retrieval, Validation, and Applications.* **F. Pinault**, CNRM, Toulouse, France; J. Pisek, C. Vincent, X. Ceamanos-Garcia, S. Coelho, I. Trigo, D. Carrer

11:30 A.M.
19D.4 *Land Surface Temperature Products from JPSS and GOES-R and Its Readiness to Users.* **Y. Yu**, NOAA/NESDIS, College Park, MD; I. Csiszar, L. Zhou, S. Kalluri, J. Daniels, P. Yu, Y. Liu, H. Wang

11:45 A.M.
19D.5 *Skin Temperature from the Thermal Infrared Sounder IASI.* **S. Safieddine**, LATMOS/IPSL, Sorbonne Université, UVSQ, CNRS, Paris, France; A. C. Parracho, M. George, F. Aires, V. Pellet, L. Clarisse, S. Whitburn, O. Lezeaux, J. N. Thépaut, H. Hersbach, G. Radnoti, F. Goettsche, M. Martin, C. Clerbaux

12:00 P.M.
19D.6 *Retrieving Emissivity Angular Dependence over Deserts from Multi-Sensor Observations.* **S. L. Ermida**, IPMA Instituto Portugues do Mar e da Atmosfera, Lisboa, Portugal; I. Trigo, G. Hulley, C. DaCamara, D. Ghent

12:15 P.M.
19D.7 *Geonex: Land Monitoring from a New Generation of Geostationary Sensors.* **R. Nemani**, ARC, Moffett Field, CA; A. Lyapustin, S. Kalluri, T. Lee

10:45 A.M.–12:30 P.M.
Panel Discussion 19E: QUANTIFYING IMPACT OF WEATHER EXTREMES IN A CHANGING CLIMATE: PANEL –*Burroughs*

Chairs: Alyssa K Whitcraft, Univ. of Maryland, College Park, College Park, MD; J. Kinter, COLA, Fairfax, VA

10:45 A.M.
Welcoming Remarks. **J. Kinter**, COLA, Fairfax, VA and A. K. Whitcraft, Univ. of Maryland, College Park, MD

10:55 A.M.
PD19E.1 *Advancing Multi-Scale Crop Water Management Metrics in the Lower Mississippi to Support Decision Making.* **Nathan Torbick**, Applied Geosolutions, Durham, NH

11:10 A.M.
PD19E.2 *Integrated Satellite-Based Early Warning for Crop Failure Enhances Livelihood and Food Security in Uganda.* **C. Nakalembe**, Univ. of Maryland, College Park, MD

11:25 A.M.
Panel Discussion.

10:45 A.M.–12:30 P.M.
Session 19F: AIR QUALITY AND ATMOSPHERIC COMPOSITION: OZONE –*Lewis*

Chairs: Lesley Ott, NASA GSFC, Greenbelt, MD; R. Munro, EUMETSAT, Darmstadt, Germany

10:45 A.M.
19F.1 *First Signs of a Speeding up in Stratospheric O 3 Recovery in the Southern Hemisphere, Contrasting with the Decline in the Northern Hemisphere, As Seen from IASI.* **C. Wespes**, Université Libre de Bruxelles (ULB), Brussels, Belgium; D. Hurtmans, S. Chabrillat, G. Ronsmans, C. Clerbaux, P. F. coheur

11:00 A.M.
19F.2 *The Aurora Project: Scientific Developments and Results.* **U. Cortesi**, CNR, Sesto Fiorentino, Italy; R. Dragani, S. Quesada Ruiz, S. Ceccherini, S. Del Bianco, N. Zoppetti, M. Gai, C. Tirelli, A. Arola, J. Kujanpää, W. Wandji, A. Lipponen, R. Van Der A, J. Van Peet, O. Tuinder, A. Keppens, M. Van Roozendael, J. Lambert, K. Chance, J. Kim

11:15 A.M.
19F.3 *Status of Satellite Ozone Data Records Generated within CCI and C3S.* **M. Van Roozendael**, Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Uccle, Belgium; C. Lerot, J. Lambert, D. Hubert, A. Keppens, J. Vlietinck, D. Balis, A. Garane, P. F. coheur, C. Wespes, C. Clerbaux, A. Boynard, D. Loyola, M. Coldewey-Egbers, M. Dameris, R. Siddans, V. Sofieva, R. Van Der A, M. van Weele, A. Rozanov, M. Weber

11:30 A.M.
19F.4 *Creation of Long-Term Consistent and Accurate OMI Ozone Profile Product (PROFOZ).* **J. Bak**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; X. Liu, R. Spurr, K. Yang, G. Huang, C. Miller, G. G. Abad, K. Chance

11:45 A.M.
19F.5 *Validation of S-NPP & NOAA-20 OMPS Operational and Reprocessed Ozone Products.* **Lawrence Flynn**, NOAA/NESDIS, College Park, MD; Z. Zhang, E. Beach, J. Niu, I. Petropavlovskikh, C. Long, C. T. Beck, C. Pan

12:00 P.M.
19F.6 *Evaluation of NOAA-20 Ozone Monitoring Profiler Suite (OMPS) SDR Products.* **Xiaozhen Xiong**, SSAI, Lanham, MD

12:15 P.M.
19F.7 *Tropomi/S5P Total Ozone Products and Synergetic Tropomi/S5P MLS/Bascoe Tropospheric Ozone Product.* **D. Loyola**, DLR German Aerospace Center, Wessling, Germany; K. Heue, C. Lerot, M. van Roozendael, S. Chabrillat, Q. Errera, J. Ziemke, N. Kramarova

12:40 P.M.–1:15 P.M.
Session 20: CLOSING SESSION –*HARBOR BALLROOM*

	Paper #	Day	Time
A			
ABBOTT, M.	14.1	THU	8:30 AM
ABDON, S.	23	MON	3:20 PM
ABDON, S.	24	MON	3:20 PM
ABDON, S.	25	MON	3:20 PM
ABDOU ADAM, A. A. A.	4	MON	3:20 PM
ABDOU ADAM, A. A. A.	132	WED	3:00 PM
ACCADIA, C.	12A.4	WED	2:15 PM
ACKER, J.	19C.5	FRI	11:45 AM
ADAMS, E. C.	12E.5	WED	2:30 PM
ADEYEMI, B.	12D.2	WED	1:45 PM
AFZALI GOROOH, V.	S5	MON	3:20 PM
AHMADOV, R.	15C.2	THU	10:45 AM
AHN, C.	135	WED	3:00 PM
ALSHEIMER, F.	13E.3	WED	4:30 PM
ALVARADO, M. J.	11C.3	WED	11:00 AM
AMINOU, D. M. A.	11A.6	WED	11:45 AM
AMIRSHAHI, P.	185	WED	3:00 PM
ANDERSON, J. E.	13F.6	WED	5:15 PM
ANGUELOVA, M. D.	9F.4	TUE	4:45 PM
APKE, J.	13	MON	3:20 PM
APKE, J.	13B.6	WED	5:15 PM
ARKETT, M.	8E.3	TUE	2:00 PM
ARNDT, D. S.	9A.6	TUE	5:15 PM
AUTONES, F.	17B.3	THU	4:30 PM
B			
BACK, A.	11B.3	WED	11:00 AM
BAI, Y.	215	WED	3:00 PM
BAILEY, A.	17	MON	3:20 PM
BAK, J.	19F.4	FRI	11:30 AM
BAKER-YEBOAH, S.	8F.5	TUE	2:45 PM
BALDIT, E.	158	WED	3:00 PM
BANK, C.	11A.1	WED	10:30 AM
BANK, C.	12A.1	WED	1:30 PM
BANK, C.	16A.4	THU	2:15 PM
BANKERT, R.	72	MON	3:20 PM
BARBOSA, H. A.	9A.4	TUE	4:45 PM
BARGEN, J.	21	MON	3:20 PM
BARRÉ, H.	45A	MON	3:20 PM
BARRÉ, H.	45A	TUE	3:00 PM
BARROSO, C. S. F.	15E.3	THU	11:00 AM
BARTLETT, N. D.	17E.5	THU	5:00 PM
BATZLI, S.	18D.6	FRI	9:45 AM
BAUM, B.	9D.5	TUE	5:00 PM
BAUM, B. A.	9D.3	TUE	4:30 PM
BEARSON, N.	19B.1A	FRI	10:45 AM
BEDARD, J.	6B.3	TUE	11:00 AM
BEDKA, K. M.	10	MON	3:20 PM
BENNARTZ, R.	155	WED	3:00 PM
BERG, W.	175	WED	3:00 PM
BERNDT, E.	171	WED	3:00 PM
BERNDT, E.	19B.6	FRI	12:00 PM
BESSHO, K.	8A.2A	TUE	1:45 PM
BETTENHAUSEN, M. H.	91	MON	3:20 PM
B (CONTINUED)			
BIKOS, D.	115	MON	3:20 PM
BLACK, M. R.	239	WED	3:00 PM
BLACKWELL, W. J.	8A.3	TUE	2:00 PM
BLYTHE, P.	11A.2	WED	10:45 AM
BORDE, R.	13B.1	WED	4:00 PM
BORGER, C.	12D.3	WED	2:00 PM
BOUKABARA, S.	11E.7	WED	11:45 AM
BOWLAN, M. A.	9E.2	TUE	4:30 PM
BOZZO, A.	32	MON	3:20 PM
BOZZO, A.	15B.3	THU	11:15 AM
BRAUN, J.	11E.5	WED	11:15 AM
BRAUN, S. A.	180	WED	3:00 PM
BROWN, L. K.	39	MON	3:20 PM
BROWN, P. J.	11D.3A	WED	11:00 AM
BROWN, S. T.	15A.2	THU	10:45 AM
BUCHARD, V.	17C.2	THU	4:15 PM
BUECHLER, D. E.	6A.2	TUE	10:45 AM
BUSCH LI, X.	13D.3	WED	4:30 PM
C			
CADWALLADER, M. L.	6F.5	TUE	11:30 AM
CADY-PEREIRA, K.	11C.2	WED	10:45 AM
CAHILL, B.	9F.6	TUE	5:15 PM
CAMACHO, C. P.	15C.5	THU	11:30 AM
CANEO, M.	63	MON	3:20 PM
CAO, C.	12A.3	WED	2:00 PM
CARBAJAL HENKEN, C.	8D.2	TUE	1:45 PM
CARBAJAL HENKEN, C.	18B.3	FRI	8:45 AM
CARRER, D.	245	WED	3:00 PM
CECCHERINI, S.	161	WED	3:00 PM
CHAI, T.	15C.1	THU	10:30 AM
CHAN MILLER, C.	126	WED	3:00 PM
CHANCE, K.	8C.1	TUE	1:30 PM
CHARLES, E.	200	WED	3:00 PM
CHEN, J.	202	WED	3:00 PM
CHEN, R.	221	WED	3:00 PM
CHEN, Y.	227	WED	3:00 PM
CHINTA, S.	6B.1	TUE	10:30 AM
CHIRA LA ROSA, J.	110	MON	3:20 PM
CHIROKOVA, G.	16D.1	THU	1:30 PM
CHOI, S.	213	WED	3:00 PM
CHRISTOPHERSEN, H.	165	WED	3:00 PM
CHUDNOVSKY, A.	11C.4	WED	11:15 AM
CHUNG, S.	183	WED	3:00 PM
CINTINEO, J. L.	12B.6	WED	2:30 PM
CIREN, P.	15C.3	THU	11:00 AM
CIREN, P.	17C.4	THU	4:45 PM
CLAYSON, C. A.	9F.2	TUE	4:15 PM
CLEMENTI, L.	18B.7	FRI	9:45 AM
CLERBAUX, C.	8C.6	TUE	2:45 PM
CLEVENSTINE, S.	17D.4	THU	4:45 PM
COAKLEY, M. M.	168	WED	3:00 PM
COHEN, J.	8C.5	TUE	2:30 PM
COHEUR, P. F.	139	WED	3:00 PM

	Paper #	Day	Time
C (CONTINUED)			
COHEUR, P. F.	11C.1	WED	10:30 AM
COLOHAN, A.	113A	MON	3:20 PM
COLOHAN, A.	113A	TUE	3:00 PM
COLUCCI, P.	51	MON	3:20 PM
COLUCCI, P.	12A.5	WED	2:30 PM
CONNELL, B. H.	9E.4	TUE	5:15 PM
CONNELL, B. H.	15E.1	THU	10:30 AM
CORTESI, U.	140	WED	3:00 PM
CORTESI, U.	19F.2	FRI	11:00 AM
CRAPEAU, M.	19A.6	FRI	12:00 PM
CRUZ, E.	186	WED	3:00 PM
CSISZAR, I.	146	WED	3:00 PM
CSISZAR, I.	13C.5A	WED	5:00 PM
CUCURULL, L.	15A.5	THU	11:30 AM
CUNHA, A. P. M. D. A.	59	MON	3:20 PM
CURETON, G.	70	MON	3:20 PM
D			
D'ENTREMONT, R. P.	7	MON	3:20 PM
D'ENTREMONT, R. P.	6D.6	TUE	11:45 AM
DACAMARA, C.	12E.4	WED	2:15 PM
DACAMARA, C.	18D.4	FRI	9:15 AM
DANIELS, J. M.	15B.1	THU	10:30 AM
DAVID, C.	S2	MON	3:20 PM
DE BOCK, V.	18C.7	FRI	10:00 AM
DENEKE, H.	6D.3	TUE	11:00 AM
DESHIMARU, T.	2.2	MON	12:00 PM
DIAMANDI, A.	20	MON	3:20 PM
DIERKING, C.	17F.4	THU	4:45 PM
DIERSSEN, H.	14.3	THU	9:00 AM
DILLS, P.	117	MON	3:20 PM
DING, F.	16D.6	THU	2:45 PM
DITTBERNER, G.	10.2	WED	8:45 AM
DIVAKARLA, M. G.	228	WED	3:00 PM
DJELLALI, M. S.	17A.3	THU	4:30 PM
DOELLING, D. R.	17A.2	THU	4:15 PM
DONOHO, N.	17D.5	THU	5:00 PM
DOSTALEK, J. F.	16B.4	THU	2:15 PM
DUNION, J. P.	103	MON	3:20 PM
DUNLAP, L. J.	118	MON	3:20 PM
DURAND, Y.	11A.4	WED	11:15 AM
DUTKIECIWZ, S.	14.2	THU	8:45 AM
DWORAK, R.	68	MON	3:20 PM
DYBBROE, A.	17B.4	THU	4:45 PM
E			
EBUCHI, N.	93	MON	3:20 PM
EBUCHI, N.	12F.4	WED	2:15 PM
EDGINGTON, S. F.	13A.4	WED	4:45 PM
EDSON, J. B.	9F.3	TUE	4:30 PM
EL KASSAR, J. R.	S8	WED	3:00 PM
ELDERING, A.	6C.1	TUE	10:30 AM
ELMER, N. J.	151	WED	3:00 PM
ELMER, N. J.	9B.6	TUE	5:00 PM
ERMIDA, S. L.	61	MON	3:20 PM
E (CONTNUED)			
ERMIDA, S. L.	19D.6	FRI	12:00 PM
ESMAILI, R.	13E.1	WED	4:00 PM
EVANS, J. L.	1.2	MON	9:05 AM
EVANS, J. L.	1.5	MON	9:35 AM
EVANS, J. D.	19C.3	FRI	11:15 AM
F			
FAIRBAIRN, D.	19D.2	FRI	11:00 AM
FARAHMAND, A.	16E.3	THU	2:00 PM
FERNANDEZ RODRIGUEZ, M. A.	249	WED	3:00 PM
FIERLI, F.	8E.2	TUE	1:45 PM
FIORE, J. V. JR.	15D.6	THU	11:45 AM
FISHER, J.	35	MON	3:20 PM
FISHER, J.	49	MON	3:20 PM
FLYNN, L.	19F.5	FRI	11:45 AM
FORE, A.	12F.3	WED	2:00 PM
FORSYTHE, J. M.	12D.5	WED	2:30 PM
FORSYTHE, J.	18B.4	FRI	9:00 AM
FOSTER, M. J.	11D.5	WED	11:30 AM
FOUGNIE, B.	31	MON	3:20 PM
FOUGNIE, B.	18C.3	FRI	9:00 AM
FOUGNIE, B.	18C.5	FRI	9:30 AM
FREY, R. A.	223	WED	3:00 PM
FROMM, M. D.	16C.3	THU	2:00 PM
FULBRIGHT, J.	41	MON	3:20 PM
G			
GADO, T. A.	109	MON	3:20 PM
GALL, D.	181	WED	3:00 PM
GALLAGHER, F. W. III	162	WED	3:00 PM
GALLAGHER, F. W. III	15A.1	THU	10:30 AM
GARBANZO, M.	121A	MON	3:20 PM
GARCÍA-PEREDA, J.	17B.2	THU	4:15 PM
GEIGERT, M.	9C.2	TUE	4:15 PM
GEORGE, M.	12E.2	WED	1:45 PM
GEORGIEV, C. G.	58	MON	3:20 PM
GEORGIEV, C. G.	129	WED	3:00 PM
GEORGIEV, C. G.	130	WED	3:00 PM
GERTH, J. J.	11E.1	WED	10:30 AM
GLADKOVA, I.	13F.3	WED	4:30 PM
GLADKOVA, I.	13F.5A	WED	5:00 PM
GLUMB, R. J.	19A.4	FRI	11:30 AM
GOLDBERG, M. D.	8E.1	TUE	1:30 PM
GONZALEZ, R.	18D.2	FRI	8:45 AM
GONZALEZ ABAD, G.	12C.1	WED	1:30 PM
GOODMAN, S. J.	13A.3	WED	4:30 PM
GOPALAN, A.	101	MON	3:20 PM
GORDLEY, L.	164	WED	3:00 PM
GOUVEIA, C. M.	62	MON	3:20 PM
GOUVEIA, C. M.	12E.1	WED	1:30 PM
GRANDELL, J.	11A.3	WED	11:00 AM
GRASSO, L. D.	133	WED	3:00 PM
GRASSOTTI, C.	71	MON	3:20 PM
GRIFFIN, A. N.	98	MON	3:20 PM
GRIFFITH, P. C.	46	MON	3:20 PM

	Paper #	Day	Time
G (CONTINUED)			
GRIGSBY, E.	19A.1	FRI	10:45 AM
GROFIC, B. B.	22	MON	3:20 PM
GU, Y.	128	WED	3:00 PM
GUMLEY, L.	17D.3	THU	4:30 PM
GUNSHOR, M.	241	WED	3:00 PM
GUNSHOR, M. M.	205	WED	3:00 PM
GUO, J.	16B.2	THU	1:45 PM
GUO, S.	17A.4	THU	4:45 PM
H			
HALICZER, D.	12B.4	WED	2:00 PM
HAN, D.	12B.3	WED	1:45 PM
HAN, W.	8B.4	TUE	2:15 PM
HANEY, C. O.	177	WED	3:00 PM
HANSCHMANN, T.	16D.2	THU	1:45 PM
HAUTECOEUR, O.	13B.5	WED	5:00 PM
HAYASHI, M.	15C.6	THU	11:45 AM
HAYNES, J. M.	6D.1	TUE	10:30 AM
HEGARTY, J.	188	WED	3:00 PM
HEIDINGER, A.	42	MON	3:20 PM
HERRERA, E. I.	S6	WED	3:00 PM
HIGGINS, M.	9E.1	TUE	4:00 PM
HILBURN, K.	11B.5	WED	11:30 AM
HILBURN, K.	13C.4	WED	4:45 PM
HILLGER, D. W.	235	WED	3:00 PM
HIOKI, S.	28	MON	3:20 PM
HIROSE, M.	76	MON	3:20 PM
HOESE, D.	11E.4A	WED	11:00 AM
HOFFMAN, J. P.	67	MON	3:20 PM
HRISTOVA-VELEVA, S.	9B.3	TUE	4:30 PM
HU, W.	160	WED	3:00 PM
HUANG, A.	11E.6	WED	11:30 AM
HUANG, J.	220	WED	3:00 PM
HUANG, J.	231	WED	3:00 PM
HUFF, A. K.	12C.6	WED	2:45 PM
HUFFMAN, G. J.	11D.2	WED	10:45 AM
I			
IMMA REDDY, V. S. R.	83	MON	3:20 PM
INAMDAR, A. K.	9D6.A	TUE	5:15 PM
ISAKSEN, L.	50	MON	3:20 PM
ISHIDA, H.	75	MON	3:20 PM
ISHIMOTO, H.	137	WED	3:00 PM
ITURBIDE-SANCHEZ, F.	19A.5	FRI	11:45 AM
J			
JACOBS, N.	1.9	MON	10:55 AM
JEDLOVEC, G. J.	18B.6	FRI	9:30 AM
JIN, D.	211	WED	3:00 PM
JIN, X.	234	WED	3:00 PM
JONES, T. A.	11B.4	WED	11:15 AM
JUNG, D.	212	WED	3:00 PM
JUNG, J. A.	37	MON	3:20 PM
JUNG, J. A.	8B.2	TUE	1:45 PM
JUNG, Y.	11C.5	WED	11:30 AM
K			
KABALIMU, K. A.	60	MON	3:20 PM
KABLICK, G. P. III	13C.1	WED	4:00 PM
KAHN, B. H.	8D.3A	TUE	2:00 PM
KAISER, J. W.	9F.5	TUE	5:00 PM
KAISER, J. W.	19C.2A	FRI	11:00 AM
KALLURI, S.	47	MON	3:20 PM
KALLURI, S.	19D.1	FRI	10:45 AM
KAŇÁK, J.	11E.2	WED	10:45 AM
KANG, Y.	9C.4	TUE	4:45 PM
KAYE, J. A.	13D.4	WED	4:45 PM
KAYE, J.	16A.1	THU	1:30 PM
KEN, A.	97	MON	3:20 PM
KENNELLY, E. J.	15C.4	THU	11:15 AM
KERDRAON, G.	19A	MON	3:20 PM
KERN, S. M.	106	MON	3:20 PM
KEY, J. R.	16F.1	THU	1:30 PM
KIM, E. J.	18A.5	FRI	9:30 AM
KIM, H. Y.	77	MON	3:20 PM
KIM, J. H.	243	WED	3:00 PM
KIM, Y. S.	2.3	MON	12:15 PM
KINTER, J.	18F.6	FRI	9:45 AM
KINTER, J.		FRI	10:45 AM
KIVI, R.	66	MON	3:20 PM
KIZER, S.	125	WED	3:00 PM
KLAES, D.	6F.1	TUE	10:30 AM
KLAES, D.	6A.4	TUE	11:15 AM
KLEIN, M.	184	WED	3:00 PM
KLINE, E.	247	WED	3:00 PM
KNAPP, K. R.	81	MON	3:20 PM
KNAPP, K. R.	9A.7A	TUE	5:30 PM
KNUTESON, R.	16D.5	THU	2:30 PM
KNUTESON, R. O.	18B.1	FRI	8:30 AM
KONDRAGUNTA, S.	12C.5	WED	2:30 PM
KUCIAUSKAS, A. P.	18B.5	FRI	9:15 AM
KUGURU, B.	204	WED	3:00 PM
KUJAWSKI, J.	167	WED	3:00 PM
KUMMEROW, C.	18A.2A	FRI	8:45 AM
KUROSU, T. P.	6C.2	TUE	10:45 AM
L			
L'ECUYER, T. S.	15F.5	THU	11:45 AM
L'ECUYER, T. S.	16A.5	THU	2:30 PM
LADUE, J. G.	6E.4	TUE	11:30 AM
LAMBRIGTSEN, B.	9A.3	TUE	4:30 PM
LANG, R.	8A.1	TUE	1:30 PM
LATTANZIO, A.	9A.2	TUE	4:15 PM
LAVELLE, J.	16F.3	THU	2:15 PM
LEAN, K.	16	MON	3:20 PM
LEAN, K.	13B.3	WED	4:30 PM
LEAVOR, K. R.	104	MON	3:20 PM
LEE, J. R.	9B.1	TUE	4:00 PM
LEE, S.	16C.2	THU	1:45 PM
LEE, T.	13D.1	WED	4:00 PM
LEE, Y.	12E.3	WED	2:00 PM
LEE, Y. G.	134	WED	3:00 PM

	Paper #	Day	Time
L (CONTINUED)			
LEFÈVRE, F.	8F.4	TUE	2:30 PM
LEIDNER, S. M.	11F.5	WED	11:30 AM
LEROY, A.	119	MON	3:20 PM
LEROY, A.	13A.6	WED	5:15 PM
LESLIE, R. V.	148	WED	3:00 PM
LETTERLY, A.	206	WED	3:00 PM
LETTERLY, A.	16F.4	THU	2:30 PM
LEVY, R.	17C.1	THU	4:00 PM
LI, F.	127	WED	3:00 PM
LI, J.	90	MON	3:20 PM
LI, J.	11B.1	WED	10:30 AM
LI, J.	15A.3	THU	11:00 AM
LI, X.	1	MON	3:20 PM
LI, Y.	11D.4	WED	11:15 AM
LI, Z.	9D.2	TUE	4:15 PM
LI, Z.	16C.4	THU	2:15 PM
LIANG, D.	143	WED	3:00 PM
LIANG, P.	8B.5	TUE	2:30 PM
LIBONATI, R.	18D.5	FRI	9:30 AM
LIN, H.	11B.2	WED	10:45 AM
LIN, L.	226	WED	3:00 PM
LIN, W.	12F.1	WED	1:30 PM
LINDQVIST, H.	17F.2	THU	4:15 PM
LINDSEY, D. T.	15D.5	THU	11:30 AM
LINDSTROM, S. S.	13E.5	WED	5:00 PM
LINE, W.	6E.1	TUE	10:30 AM
LIU, H.	8B.1	TUE	1:30 PM
LIU, W. T.	8F.1	TUE	1:30 PM
LIU, X.	141	WED	3:00 PM
LIU, X.	92	MON	3:20 PM
LOPEZ, A.	S3	MON	3:20 PM
LOYOLA, D.	145	WED	3:00 PM
LOYOLA, D.	8C.3	TUE	2:00 PM
LOYOLA, D.	19F.7	FRI	12:15 PM
LU, Y.	8B.6	TUE	2:45 PM
LUBAR, D. G.	232	WED	3:00 PM
LUTZ, R.	8D.6	TUE	2:45 PM
LYU, C. J.	18A.7	FRI	10:00 AM
M			
MACHADO, L.	3.1	MON	2:00 PM
MACHADO, L.	19B.5	FRI	11:30 AM
MAIER, J.	169	WED	3:00 PM
MAIER, M. W.	174	WED	3:00 PM
MAJUMDAR, S. J.	192	WED	3:00 PM
MANASTER, A.	12F.5	WED	2:30 PM
MANNINEN, T.	15F.1	THU	10:30 AM
MARAIS, W. J.	136	WED	3:00 PM
MARALDI, C.	17A.5	THU	5:00 PM
MARCINONIENE, I.	54	MON	3:20 PM
MARTINS, J.	172	WED	3:00 PM
MARTIS, A.	3.2	MON	2:15 PM
MARU, Z. A.	12D.4	WED	2:15 PM
MASCHHOFF, K.	52	MON	3:20 PM
MASCIO, J.	156	WED	3:00 PM
M (CONTINUED)			
MASIKA, P.	53	MON	3:20 PM
MATHIEU, S.	15A.4	THU	11:15 AM
MATTHEWS, J. L.	217	WED	3:00 PM
MATURI, E.	196	WED	3:00 PM
MAY, J. C.	201	WED	3:00 PM
MCCASKILL, E. C.	88	MON	3:20 PM
MCCORKEL, J.	238	WED	3:00 PM
MCNITT, J.	17D.1	THU	4:00 PM
MECIKALSKI, J.	12B.5	WED	2:15 PM
MELFI, D.	173	WED	3:00 PM
MENG, H.	159	WED	3:00 PM
METZGER, S.	18C.4	FRI	9:15 AM
MEYER, K.	13D.6	WED	5:15 PM
MEYERS, P. C.	222	WED	3:00 PM
MILE, M.	6B.6	TUE	11:45 AM
MILLER, S.	18C.2	FRI	8:45 AM
MILLER, S. D.	8D.5	TUE	2:30 PM
MILLER, S. D.	15D.1	THU	10:30 AM
MILLER, S. D.	15D.2	THU	10:45 AM
MILLER, S. W.	40	MON	3:20 PM
MINDOCK, S.	80	MON	3:20 PM
MITRA, A.	S4	MON	3:20 PM
MIURA, T.	236	WED	3:00 PM
MOONEY, M.	13E.4	WED	4:45 PM
MORRIS, M.	11F.6	WED	11:45 AM
MOTTA, B. C.	13E.2	WED	4:15 PM
MOUTIA, S.	17E.2	THU	4:15 PM
MUÑOZ-SABATER, J.	17E.6	THU	5:15 PM
MUNRO, R.	6C.5	TUE	11:30 AM
MURI, B.	16E.4A	THU	2:15 PM
N			
NAEGER, A.	8C.2	TUE	1:45 PM
NAKALEMBE, C.	PD19E.2	FRI	10:45 AM
NATRAJ, V.	17C.6	THU	5:15 PM
NEGRI, R. G.	14	MON	3:20 PM
NEMANI, R.	19D.7	FRI	12:15 PM
NICOLA, O.	6	MON	3:20 PM
NIETOSVAARA, V.	116	MON	3:20 PM
NIKOLLA, E.	219	WED	3:00 PM
NIU, J.	124	WED	3:00 PM
NOWLAN, C. R.	11C.6	WED	11:45 AM
O			
OBLIGIS, E. A.	199	WED	3:00 PM
OBLIGIS, E. A.	6F.2	TUE	10:45 AM
OBLIGIS, E. A.	13F.2	WED	4:15 PM
OGOLO, E. O.	57	MON	3:20 PM
OKAMOTO, K.	6B.2	TUE	10:45 AM
ORAIN, F. III	13F.4	WED	4:45 PM
OTKIN, J. A.	19	MON	3:20 PM
OTKIN, J. A.	11B.6	WED	11:45 AM
OTKIN, J. A.	12C.3	WED	2:00 PM

	Paper #	Day	Time
P			
PADULA, F. P.	178	WED	3:00 PM
PADULA, F. P.	179	WED	3:00 PM
PADULLES, R.	170	WED	3:00 PM
PAGANO, T.	16A.6	THU	2:45 PM
PAGOWSKI, M.	17C.3	THU	4:30 PM
PALIKONDA, R.	6D.5	TUE	11:30 AM
PARK, H. I.	12B.1	WED	1:30 PM
PARK, S.	16E.6	THU	2:45 PM
PARK, S.	16C.5	THU	2:30 PM
PARRINELLO, T.	15B.4	THU	11:30 AM
PAYNE, V. H.	12C.4	WED	2:15 PM
PENG, J.	16F.5	THU	2:45 PM
PENNYBACKER, M.	13F.1	WED	4:00 PM
PENQUER, A.	208	WED	3:00 PM
PÉRIARD, C.	5	MON	3:20 PM
PETERS-LIDARD, C. D.	17E.1	THU	4:00 PM
PETKOVIĆ, V.	11D.6	WED	11:45 AM
PETRACCA, M.	149	WED	3:00 PM
PICARD, B.	94	MON	3:20 PM
PIERCE, B.	9C.1	TUE	4:00 PM
PILEWSKIE, J. A.	9D.1	TUE	4:00 PM
PILLAI, P. R.	48	MON	3:20 PM
PINAULT, F.	19D.3	FRI	11:15 AM
PLATNICK, S.	8D.4	TUE	2:15 PM
PORCIANI, M.	45	MON	3:20 PM
PORTABELLA, M.	189	WED	3:00 PM
PORTABELLA, M.	8B.3A	TUE	2:00 PM
PORTABELLA, M.	11F.4	WED	11:15 AM
PORTER, W.	224	WED	3:00 PM
PRAT, O. P.	16E.2	THU	1:45 PM
PREUSKER, R.	82	MON	3:20 PM
PREUSKER, R.	203	WED	3:00 PM
PRIVETTE, J. L.	9A.5	TUE	5:00 PM
PU, Z.	9B.2	TUE	4:15 PM
PUJOL, M. I.	8F.2	TUE	2:00 PM
PUJOL, M. I.	8F.3	TUE	2:15 PM
PURDOM, J.	10.1	WED	8:30 AM
PUSCHELL, J. J.	33	MON	3:20 PM
Q			
QIAN, H.	237	WED	3:00 PM
R			
RABIER, F.	3.4	MON	2:45 PM
RAMIREZ BENJUMEA, O.	65A	MON	3:20 PM
RATIER, A.	1.3	MON	9:15 AM
RATIER, A.	1.8	MON	10:35 AM
REALE, A.	19A.7	FRI	12:15 PM
REED, B.	15D.4	THU	11:15 AM
REED, B.	17F.1	THU	4:00 PM
REISING, S. C.	18A.1	FRI	8:30 AM
REN, L.	198	WED	3:00 PM
RENNIE, M. P.	15B.5A	THU	11:45 AM
REVERCOMB, H. E.	17A.6	THU	5:15 PM
REVERCOMB, H. E.	19A.3	FRI	11:15 AM
RIEDI, J.	12A.6	WED	2:45 PM
R (CONTINUED)			
RIIHELÄ, A.	15F.2	THU	11:00 AM
RIISHOJGAARD, L. P.	1.7	MON	10:15 AM
RÍPODAS, P.	17B.1	THU	4:00 PM
ROBERTS, J. B.	9F.1	TUE	4:00 PM
RODRIGUEZ, D. M.	147	WED	3:00 PM
ROGERSON, S. D.	17D.6	THU	5:15 PM
ROMANOV, P.	207	WED	3:00 PM
ROSENKRANZ, P. W.	150	WED	3:00 PM
RUDLOSKY, S. D.	13A.1	WED	4:00 PM
RUF, C. S.	16A.3	THU	2:00 PM
RUSSAKOFF, A.	113	MON	3:20 PM
RYU, G. H.	16B.1	THU	1:30 PM
S			
SAFIEDDINE, S.	19D.5	FRI	11:45 AM
SAHA, K.	197	WED	3:00 PM
SANTEK, D.	209	WED	3:00 PM
SANTEK, D. A.	13B.4	WED	4:45 PM
SAUX PICART, S.	187	WED	3:00 PM
SAVTCHENKO, A.	18F.2	FRI	8:45 AM
SCHARFENBERG, K.	6E.2	TUE	11:00 AM
SCHLÜSSEL, P.	12A.2	WED	1:45 PM
SCHMETZ, J.	10.4	WED	9:15 AM
SCHMIDT, C. C.	13C.6	WED	5:15 PM
SCHMIT, T. J.	19B.4A	FRI	11:45 AM
SCHREIER, M.	163	WED	3:00 PM
SCHULTE, R.	S1	MON	3:20 PM
SCHULTZ, L. A.	15E.5	THU	11:30 AM
SCHUMACHER, A. B.	6E.3	TUE	11:15 AM
SCOTT, D.	111	MON	3:20 PM
SEAMAN, C. J.	17F.5	THU	5:00 PM
SEMENOVA, I. G.	56	MON	3:20 PM
SEYBOLD, M.	15D.3	THU	11:00 AM
SHANG, H.	9D.4	TUE	4:45 PM
SHAO, H.	9B.4	TUE	4:45 PM
SHAO, X.	152	WED	3:00 PM
SHARMA, A.	210	WED	3:00 PM
SHARMA, A.	16D.4	THU	2:15 PM
SHAY, L. K.	11F.2	WED	10:45 AM
SHIN, H. Y.	73	MON	3:20 PM
SHONTZ, K.	13D.2	WED	4:15 PM
SJOBERG, B.	8E.4	TUE	2:15 PM
SLOCUM, C. J.	16B.5	THU	2:30 PM
SMITH, H. D.	S7	WED	3:00 PM
SMITH, N.	8C.4	TUE	2:15 PM
SMITH, R. C.	19C.6	FRI	12:00 PM
SMITH, W. L. JR.	9	MON	3:20 PM
SMITH, W. L. JR.	9	TUE	3:00 PM
SMITH, W. L. SR.	16B.6	THU	2:45 PM
SOANO LEÓN, E. H.	105A	MON	3:20 PM
SOANO LEÓN, E. H.	112	MON	3:20 PM
SOHN, B. J.	16F.2	THU	2:00 PM
SOLBRIG, J. E.	242	WED	3:00 PM
SOREK-HAMER, M.	17C.5	THU	5:00 PM
SOULAT, F.	6F.3	TUE	11:00 AM
SOULAT, F.	11F.3	WED	11:00 AM

	Paper #	Day	Time
S (CONTINUED)			
SOURI, A. H.	17E.3	THU	4:30 PM
SPANGENBERG, D. A.	26	MON	3:20 PM
ST-JAMES, J.	9B.5A	TUE	5:15 PM
ST. GERMAIN, K.	15A.6	THU	11:45 AM
STAMMES, P.	95	MON	3:20 PM
STAMMES, P.	6C.4	TUE	11:15 AM
STENGEL, M.	15F.4	THU	11:30 AM
STEVENSON, S. N.	30	MON	3:20 PM
STILES, B. W.	191	WED	3:00 PM
STOCKER, E. F.	11D.1	WED	10:30 AM
STOFFELEN, A.	190	WED	3:00 PM
STOFFELEN, A.	6B.5	TUE	11:30 AM
STOFFELEN, A.	194	WED	3:00 PM
STOFFELEN, A.	8A.4A	TUE	2:30 PM
STRABALA, K. I.	17D.2	THU	4:15 PM
STRAKA, W.	29	MON	3:20 PM
STRAKA, W.	19B.7	FRI	12:15 PM
SUBRATH-ALI, C.	64	MON	3:20 PM
SULLIVAN, P.	6A.1	TUE	10:30 AM
SUN, D.	18F.5	FRI	9:30 AM
SUN, S.	214	WED	3:00 PM
SUNDSTRÖM, A. M.	123	WED	3:00 PM
SUNDSTRÖM, A. M.	13C.3	WED	4:30 PM
SUZUE, H.	11	MON	3:20 PM
SWARTZ, W. H.	9C.3	TUE	4:30 PM
SZOKE, E.	9E.3	TUE	5:00 PM
T			
TAALAS, P.	1.6	MON	9:55 AM
TALAAT, E.	34	MON	3:20 PM
TALAAT, E. R.	6A.6	TUE	11:45 AM
TALAAT, E. R.	8A.6	TUE	2:45 PM
TAYLOR, J.	246	WED	3:00 PM
TAYLOR, J.	19C.1	FRI	10:45 AM
TAYLOR, J. K.	229	WED	3:00 PM
TEIXEIRA, J.	153	WED	3:00 PM
TEIXEIRA, J.	16D.3	THU	2:00 PM
THEODORE, B.	96	MON	3:20 PM
THEODORE, B.	19A.2	FRI	11:00 AM
THÉPAUT, J. N.	13D.5	WED	5:00 PM
THOMAS, J. R.	15E.2	THU	10:45 AM
THOMAS, S.	87	MON	3:20 PM
TIRELLI, C.	154	WED	3:00 PM
TJEMKES, S. A.	17F.6	THU	5:15 PM
TORBICK, N.	PD19E.1	FRI	10:45 AM
TORNOW, F.	6D.4	TUE	11:15 AM
TORRES, J.	15E.4	THU	11:15 AM
TORRES, O.	13C.2	WED	4:15 PM
TOURVILLE, N.	84	MON	3:20 PM
TOURVILLE, N.	102	MON	3:20 PM
TREMBLAY, D.	218	WED	3:00 PM
TSIDULKO, M.	131	WED	3:00 PM
TUCKER, S. C.	8A.5	TUE	2:15 PM
U			
UCCELLINI, L. W.	3.3	MON	2:30 PM
V			
VALKS, P.	12C.2	WED	1:45 PM
VALLIER-TALBOT, E.	114	MON	3:20 PM
VAN NAARDEN, J.	240	WED	3:00 PM
VAN ROOZENDAEL, M.	19F.3	FRI	11:15 AM
VANDENBUSSCHE, S. J. A.	16C.1	THU	1:30 PM
VANINA-DART, L.	11F.1	WED	10:30 AM
VEECK, L.	121	MON	3:20 PM
VEIHELMANN, B.	6C.6	TUE	11:45 AM
VEIHELMANN, B.	16A.2	THU	1:45 PM
VELDEN, C. S.	15	MON	3:20 PM
VELDEN, C. S.	85	MON	3:20 PM
VERSPEEK, J.	12F.2	WED	1:45 PM
VIDOT, J.	176	WED	3:00 PM
VITICCHIE, B.	13A.5	WED	5:00 PM
VOLZ, S.	1.4	MON	9:25 AM
VONDERHAAR, T. H.	10.3	WED	9:00 AM
W			
WALSH, T.	6A.3	TUE	11:00 AM
WALTHER, A.	6D.2	TUE	10:45 AM
WANG, H.	74	MON	3:20 PM
WANG, H.	244	WED	3:00 PM
WANG, J.	9C.5	TUE	5:00 PM
WANG, M.	13B.2	WED	4:15 PM
WANG, P.	3	MON	3:20 PM
WANG, P. K.	16B.3	THU	2:00 PM
WANG, P.	6B.4	TUE	11:15 AM
WANG, W.	89	MON	3:20 PM
WANG, X.	79	MON	3:20 PM
WANG, X.	69	MON	3:20 PM
WANG, X.	15F.3	THU	11:15 AM
WANG, Y.	18C.1	FRI	8:30 AM
WANG, Z. Q.	8	MON	3:20 PM
WANG, Z. Q.	17F.3	THU	4:30 PM
WANG, Z.	27	MON	3:20 PM
WARD, B.	8E.5	TUE	2:30 PM
WEI, J.	9A.1	TUE	4:00 PM
WEINER, A.	107	MON	3:20 PM
WEINRICH, J.	19B.2	FRI	11:00 AM
WEISS, J.	6A.5	TUE	11:30 AM
WESPES, C.	19F.1	FRI	10:45 AM
WHEELER, C.	230	WED	3:00 PM
WHITCRAFT, A. K.	16E.1	THU	1:30 PM
WHITE, C. H.	8D.1	TUE	1:30 PM
WHITE, K. D.	120	MON	3:20 PM
WHITE, K. D.	18D.7	FRI	10:00 AM
WILLEMSEN, P.	11A.5	WED	11:30 AM
WIMMERS, A.	17B.6	THU	5:00 PM
WOO, J.	19C.4	FRI	11:30 AM
WU, D. L.	15B.2	THU	11:00 AM
WU, Q.	18D.3	FRI	9:00 AM
WU, S.	18F.3	FRI	9:00 AM
WU, X.	108	MON	3:20 PM
WU, X.	17A.1	THU	4:00 PM

	Paper #	Day	Time
X			
XIE, A.	12E.6	WED	2:45 PM
XIE, P.	12D.6	WED	2:45 PM
XIONG, X.	19F.6	FRI	12:00 PM
XU, X.	12F.6	WED	2:45 PM
XUE, Y.	12D.1	WED	1:30 PM
Y			
YAN, B.	43	MON	3:20 PM
YAN, B.	18A.4	FRI	9:15 AM
YANG, H.	18A.6	FRI	9:45 AM
YANG, J.	2.1	MON	11:45 AM
YANG, K.	9C.6	TUE	5:15 PM
YANG, L.	38	MON	3:20 PM
YANG, S.	18F.4	FRI	9:15 AM
YANG, Y. I.	78	MON	3:20 PM
YOGO, Y.	157	WED	3:00 PM
YOSHIDA, R.	44	MON	3:20 PM
YOST, C. R.	86	MON	3:20 PM
YU, P.	216	WED	3:00 PM
YU, Y.	19D.4	FRI	11:30 AM
Z			
ZAMBRANO, F. SR.	17E.4	THU	4:45 PM
ZEHNER, C.	6C.3	TUE	11:00 AM
ZENG, J.	122	WED	3:00 PM
ZHANG, H.	193	WED	3:00 PM
ZHANG, H.	233	WED	3:00 PM
ZHANG, H.	16C.6	THU	2:45 PM
ZHANG, T.	2	MON	3:20 PM
ZHANG, X.	19B.3	FRI	11:15 AM
ZHANG, X.	142	WED	3:00 PM
ZHANG, Y.	99	MON	3:20 PM
ZHANG, Z.	144	WED	3:00 PM
ZHAO, X.	6F.6	TUE	11:45 AM
ZHOU, L.	182	WED	3:00 PM
ZHOU, M.	18C.6	FRI	9:45 AM
ZOPPETTI, N.	100	MON	3:20 PM
ZOU, C.	18A.3	FRI	9:00 AM
ZUBANIČS, A.	18D.1A	FRI	8:30 AM
ZULLO, J. JR.	13A.2	WED	4:15 PM

AMERICAN METEOROLOGICAL SOCIETY

45 BEACON STREET
BOSTON, MA 02108
EMAIL: INFO@AMETSOC.ORG
WWW.AMETSOC.ORG
CO-ORGANIZIER OF THE JSC

BOOTH NO:T13

THE AMERICAN METEOROLOGICAL SOCIETY (AMS) IS A GLOBAL COMMUNITY COMMITTED TO ADVANCING WEATHER, WATER, AND CLIMATE SCIENCE AND SERVICE.

AMS PROVIDES MANY OPPORTUNITIES FOR EVERYONE ACROSS THE ENTIRE ENTERPRISE, WHETHER YOU'RE JUST STARTING YOUR CAREER OR HAVE YEARS OF EXPERIENCE IN YOUR FIELD. STOP BY AND LEARN MORE ABOUT AMS AND OUR COMMUNITY OF RESEARCHERS, SCIENTISTS, BROADCASTERS, AUTHORS, EDUCATORS, AND OTHER PROFESSIONALS, STUDENTS AND WEATHER ENTHUSIASTS.

****

ENTERPRISE ELECTRONICS CORPORATION (EEC)

128 SOUTH INDUSTRIAL BLVD.
ENTERPRISE ,AL
CONTACT: DENISE RIVERA
EMAIL: SALES@EECWEATHERTECH.COM
WWW.EECWEATHERTECH.COM
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BOOTH NO:T2

WE'VE BEEN DEFINING AN INDUSTRY SINCE 1971 – AND WE'RE NOT DONE YET! EEC IS YOUR COMPLETE REMOTE SENSING PROVIDER, OFFERING A FULL SPECTRUM OF WEATHER RADAR AND SATELLITE DATA COLLECTION & DISPLAY SOLUTIONS. WITH OVER 48 YEARS OF TRUSTED SERVICE, AND HUNDREDS OF CUSTOMERS THAT SPAN THE MEDIA, GOVERNMENT, HYDROLOGY, DEFENSE AND AVIATION INDUSTRIES, EEC IS THE RECOGNIZED LEADER IN THE MANUFACTURING AND DELIVERY OF ADVANCED REMOTE SENSING SYSTEMS.

EEC TELESPACE'S FULL SPECTRUM OF POLAR AND GEOSTATIONARY ORBITING WEATHER SATELLITE GROUND STATIONS INCLUDE SOLUTIONS THAT ALLOW OUR CUSTOMERS TO COLLECT, PROCESS, VISUALIZE AND ARCHIVE DATA FROM THE GOES, MSG, HIMAWARI, NOAA, JPSS, SUOMI-NPP, AQUA, TERRA, METOP, COMS SERIES OF ENVIRONMENTAL AND METEOROLOGICAL SATELLITES.

EEC'S RADAR DIVISION OFFERS 10 DIFFERENT VARIATIONS OF OUR LEGACY MAGNETRON AND KLYSTRON *Defender* WEATHER RADAR SYSTEMS. ADDITIONALLY, EEC IS PROUD TO OFFER OUR COMPLETELY SOLID-STATE LINE OF RADARS; *Endurance* (C-BAND) AND *Ranger* (X-BAND). WE'VE ALSO ADDED OUR NEW, ULTRA-LOW-COST *Maverick* X-BAND SYSTEM TO OUR PRODUCT LINE OFFERING. EEC WILL ALSO LAUNCH OUR NEW PULSE WEATHER RADAR SOFTWARE SUITE LATER THIS YEAR!

WWW.EECWEATHERTECH.COM

****

EUMETSAT

EUMETSAT-ALLEE 1
DARMSTADT, GERMANY 64295
CONTACT: LORNA PUTZE
EMAIL: OPS@EUMETSAT.INT
WWW.EUMETSAT.INT/

CO-ORGANIZIER OF THE JSC

BOOTH NO:T14

EUMETSAT – monitoring the weather and climate from space

ESTABLISHED IN 1986, EUMETSAT IS EUROPE'S OPERATIONAL SATELLITE AGENCY FOR MONITORING THE WEATHER AND CLIMATE, WHICH HAVE INCREASING IMPACTS ON OUR SOCIETY AND OUR ECONOMY. EUMETSAT DELIVERS CRUCIAL WEATHER AND CLIMATE DATA TO 30 MEMBER STATES FROM ITS HEADQUARTERS IN DARMSTADT, GERMANY.

EUMETSAT OPERATES FOUR GEOSTATIONARY METEOSAT SPACECRAFT OVER EUROPE, AFRICA AND THE INDIAN OCEAN, PROVIDING FREQUENT OBSERVATIONS USED FOR SEVERE WEATHER WARNINGS. IT ALSO OPERATES THREE METOP POLAR ORBITING SATELLITES WHICH GIVE ACCESS TO A UNIQUE WEALTH OF OCEAN, LAND AND ATMOSPHERIC PARAMETERS THAT ARE ESSENTIAL FOR FORECASTING WEATHER UP TO 10 DAYS IN ADVANCE. REPROCESSING AND CROSS CALIBRATION OF LONG SERIES OF DATA FROM BOTH SYSTEMS PROVIDE UNIQUE CLIMATE DATA RECORDS.

EUMETSAT IS ALSO A PARTNER IN THE JASON OCEAN ALTIMETRY MISSIONS WITH NOAA, NASA AND CNES. IN ADDITION, EUMETSAT EXPLOITS THE COPERNICUS SENTINEL-3 MARINE MISSION, IN COOPERATION WITH ESA AND ON BEHALF OF THE EU, AND DELIVERS DATA SERVICES TO THE COPERNICUS MARINE ENVIRONMENT MONITORING SERVICE.

EUMETSAT DELIVERS REAL TIME, INTEGRATED DATA STREAMS TO USERS WORLDWIDE AND MAKES ITS MORE THAN 30-YEAR ARCHIVE OF OBSERVATIONS AVAILABLE TO SCIENTISTS, RESEARCH AND OPERATIONAL USERS.

****

KBR

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BOOTH NO:T3

KBR DELIVERS SATELLITE GROUND SYSTEMS FOR NASA, NOAA, USGS, AND DOD. WE PROVIDE FULL LIFE-CYCLE SATELLITE OPERATIONS INCLUDING PRE-MISSION SUPPORT, FLIGHT OPERATIONS, FLIGHT DYNAMICS, DATA PROCESSING, SIMULATIONS, GROUND SYSTEM ENGINEERING, AND LIGHTS-OUT OPERATIONS. WE INCREASE THE RESILIENCY, EFFECTIVENESS, AND MISSION CAPABILITY OF SATELLITE MISSIONS THROUGH TECHNOLOGY UPGRADES, MODERNIZATION, AND CONTINUING EMPHASIS ON ROBUST SECURITY.

JOIN US AT THE WEDNESDAY POSTER SESSION, AND COME SEE OUR TABLE FOR MORE INFORMATION ON KBR'S CAPABILITIES AND EXPERIENCE.

****

KONGSBERG DEFENCE AND AEROSPACE AS- SPACETEC

PRESTVANNVEGEN 38
TROMSO, NORWAY 9292
CONTACT: LOTTE MYRVOLL
EMAIL: LOTTE@SPACETEC.NO
WWW.SPACETEC.NO

BRONZE SPOSNOR

BOOTH NO:T1

KONGSBERG DEFENCE & AEROSPAC AS - SPACETEC IS THE WORLD LEADING PROVIDER OF TURNKEY SATELLITE GROUND STATIONS FOR EARTH OBSERVATION SATELLITES AND PROCESSING SOFTWARE FOR REMOTE SENSING APPLICATIONS. KONGSBERG DEFENCE AND AEROSPACE AS- SPACETEC PROVIDES: ANTENNAS, DEMODULATORS, RECEIVERS, GROUND STATION CONTROL, METEOROLOGICAL RECEIVING STATIONS, COMPERNICUS SENTINEL SYSTEMS AS WELL AS VALUE-ADDED PRODUCTS SUCH AS SHIP AND OIL DETECTION.

****

L3HARRIS TECHNOLOGIES

400 INITIATIVE DRIVE
ROCHESTER, NY 14606
CONTACT: ANN MUSCOSKY
WWW.L3HARRIS.COM
AMS Sustaining Corporation and Institutional Member
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BOOTH NO: T4

L3HARRIS TECHNOLOGIES IS AN AGILE GLOBAL AEROSPACE AND DEFENSE TECHNOLOGY INNOVATOR, DELIVERING END-TO-END SOLUTIONS THAT MEET CUSTOMERS' MISSION-CRITICAL NEEDS. THE COMPANY PROVIDES ADVANCED DEFENSE AND COMMERCIAL TECHNOLOGIES ACROSS AIR, LAND, SEA, SPACE AND CYBER DOMAINS. L3HARRIS HAS APPROXIMATELY $17 BILLION IN ANNUAL REVENUE, 50,000 EMPLOYEES AND CUSTOMERS IN 130 COUNTRIES. *L3Harris.com*

****

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HTTP://WWW.LOCKHEEDMARTIN.COM
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AMS Centennial Corporate Parton
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BOOTH NO:T6

****

MAXIMUS FEDERAL

3120 FAIRVIEW PKWY, SUITE 400
FALLS CHURCH ,VA 22042
MAXIMUS.COM/SOLUTIONS/MAXIMUS-FEDERAL
GOLD SPONSOR

BOOTH NO:T7

BE SURE TO STOP BY THE MAXIMUS FEDERAL BOOTH TO LEARN ABOUT THE GREAT WORK WE ARE DOING FOR NOAA! ALSO, HEAR ABOUT HOW MAXIMUS FEDERAL, WITH ITS VISIONARY APPROACH AND CADRE OF PROVEN CAPABILITIES AND DEEP EXPERTISE, IS THE GO-TO PARTNER FOR FEDERAL AGENCIES LOOKING FOR THE DESIGN, IMPLEMENTATION AND MANAGEMENT OF THE SERVICES AND TRANSFORMATIVE TECHNOLOGIES THAT ENABLE THEM TO BEST DELIVER ON THEIR MISSION-CRITICAL PROGRAMS.

****

NOAA

1335 EAST WEST HIGHWAY
SILVER SPRING, MD 20910
WWW.NOAA.GOV
CO-ORGANIZIER OF THE JSC

BOOTH NO:T15

THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) OF THE UNITED STATES DEPARTMENT OF COMMERCE IS ONE OF THE WORLD'S PREMIER SCIENTIFIC AND ENVIRONMENTAL AGENCIES. NOAA'S MISSION IS TO UNDERSTAND AND PREDICT CHANGES IN THE EARTH'S ENVIRONMENT, FROM THE DEPTHS OF THE OCEAN TO THE SURFACE OF THE SUN, AND TO CONSERVE AND MANAGE OUR COASTAL AND MARINE RESOURCES. OVER THE LONG-TERM, NOAA IS WORKING WITH PARTNERS AND THE PUBLIC TO BUILD A WEATHER-READY, CLIMATE-SMART NATION THAT IS RESILIENT TO EXTREME EVENTS AND LONG-TERM CLIMATE CHANGE.

****

PERATON

12975 WORLDGATE DRIVE
HERNDON, VA 20170
CONTACT: MELODY E PLEASURE
EMAIL: PROWE02@PERATON.COM
WWW.PERATON.COM
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BOOTH NO:T10

SOLERS, A PERATON COMPANY, PROVIDES CUTTING EDGE SOLUTIONS DEVELOPING SERVICE-BASED GROUND ENTERPRISES AND SATELLITE GROUND SEGMENTS FOR OUR TRUSTED PARTNERS IN THE FEDERAL AND COMMERCIAL SECTORS. OUR SOLUTIONS USE AN OPEN STANDARDS-BASED SOA BUILT ON COMMODITY HARDWARE AND HIGH PERFORMANCE COMPUTE ENVIRONMENTS WITH A DATA PROCESSING FRAMEWORK THAT DELIVERS IMPROVED FUNCTIONALITY AT A COMPETITIVE PRICE. THE SOA-BASED GROUND SYSTEMS SUPPORT MULTIPLE TENANTS AND SENSOR DATA ACROSS A CLOUD INFRASTRUCTURE AS A SERVICE (IAAS) WITH CLOUD RESOURCE MANAGEMENT CAPABILITIES. SOLERS PROVIDES INNOVATIVE SOFTWARE DEVELOPMENT AND SYSTEMS INTEGRATION SERVICES TO NOAA/NESDIS & CLASS; SOLERS IS THE PRIME CONTRACTOR FOR THE ENVIRONMENTAL SATELLITE PROCESSING AND DISTRIBUTION SYSTEM (ESPDS) THAT DELIVERS ENTERPRISE GROUND FUNCTIONALITY FOR SATELLITE DATA INGEST, PRODUCT GENERATION (PG) AND PRODUCT DISTRIBUTION AND ACCESS (PDA) BUILT ON COMMON INFRASTRUCTURE, SECURITY, STORAGE AND PROCESSING SERVICES WITHIN A SERVICE-ORIENTED ARCHITECTURE; ESPDS PROVIDES NESDIS WITH ENTERPRISE USER PORTAL, COMMON INFRASTRUCTURE, STORAGE AND PROCESSING SERVICES. SOLERS IS ALSO THE PRIME CONTRACTOR FOR THE COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS), NOAA'S PREMIERE ON-LINE FACILITY FOR THE DISTRIBUTION OF NOAA AND DOD POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SATELLITE (POES) DATA, NOAA'S GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITE (GOES) DATA, AND DERIVED DATA.

****

SAIC

12010 SUNSET HILLS RD
RESTON , VA 20190
HTTP://WWW.SAIC.COM
AMS Regular Corporation and Institutional Member
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BOOTH NO:T8

SAIC® IS A PREMIER TECHNOLOGY INTEGRATOR SOLVING OUR NATION'S MOST COMPLEX MODERNIZATION AND READINESS CHALLENGES. OUR ROBUST PORTFOLIO OF OFFERINGS ACROSS THE DEFENSE, SPACE, CIVILIAN, AND INTELLIGENCE MARKETS INCLUDES HIGH-END SOLUTIONS IN ENGINEERING, IT, AND MISSION SOLUTIONS. USING OUR EXPERTISE AND UNDERSTANDING OF EXISTING AND EMERGING TECHNOLOGIES, WE INTEGRATE THE BEST COMPONENTS FROM OUR OWN PORTFOLIO AND OUR PARTNER ECOSYSTEM TO DELIVER INNOVATIVE, EFFECTIVE, AND EFFICIENT SOLUTIONS.

WE ARE 23,000 STRONG; DRIVEN BY MISSION, UNITED BY PURPOSE, AND INSPIRED BY OPPORTUNITIES. HEADQUARTERED IN RESTON, VIRGINIA, SAIC HAS PRO FORMA ANNUAL REVENUES OF APPROXIMATELY $6.5 BILLION. FOR MORE INFORMATION, VISIT SAIC.COM. FOR ONGOING NEWS, PLEASE VISIT OUR NEWSROOM.

****

SCISYS

BOCHUM, GERMANY
CONTACT: CHRIS WICHMANN
EMAIL: INFO@2MET.COM
WWW.2MET.COM
SILVER SPONOSR

BOOTH NO:T9

FOR MORE THAN 30 YEARS, SCISYS IS REALIZING COMPLEX AND CHALLENGING PROJECTS FOR THE GLOBAL WEATHER SATELLITE COMMUNITY. IN PARTICULAR, WE HAVE CONTRIBUTED TO ALL PAST AND PRESENT METEOROLOGICAL MISSIONS OPERATED BY EUMETSAT. OUR SOLUTIONS ARE RANGING FROM STANDARD SATELLITE RECEIVING STATIONS TO COMPLEX SATELLITE GROUND SYSTEMS FOR ACQUISITION, PROCESSING, DISSEMINATION, ARCHIVING AND MONITORING OF NEARLY ALL METEOROLOGICAL AND CLIMATE DATA. THE 2MET!® PRODUCT LINE ENFOLDS PROFESSIONAL COMPONENTS, SYSTEMS AND APPLICATIONS FOR A VARIETY OF EARTH OBSERVATION SATELLITES OPERATING IN VARIOUS FREQUENCY BANDS (L-, C-, X- AND KU-BAND). 2MET!® NEXT GENERATION PROVIDES PLATFORM-INDEPENDENT SOLUTIONS FOCUSING ON FUTURE MISSION REQUIREMENTS COMING FROM ALL METEOROLOGICAL MISSIONS.

SCISYS FINISHED THE DEVELOPMENT OF THE NEW DATA COLLECTION PLATFORM FACILITY (DCP-F) ON BEHALF OF EUMETSAT. DCP-F IS THE NEW MULTI-MISSION COMPONENT FOR GEO MISSIONS SUPPORTING THE ACQUISITION, PROCESSING AND DISSEMINATION OF MESSAGES TRANSMITTED BY THE DCP PLATFORMS AND RELAYED BY GEO SATELLITES IN SUPPORT OF THE CGMS DCS MISSION. OUR INVOLVEMENT INCLUDES THE DESIGN, DEVELOPMENT AND TESTING OF A NEW MTG DCP RECEIVER AS WELL THE DIGITAL SIMULATION OF UP TO 700 PARALLEL MTG DCP MESSAGES AT RADIO FREQUENCY LEVEL.

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SERCO

DARMSTADT, GERMANY
CONTACT: OPHELIE MARTIN
HTTP://WWW.SERCO.COM/EU
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BOOTH NO:T5

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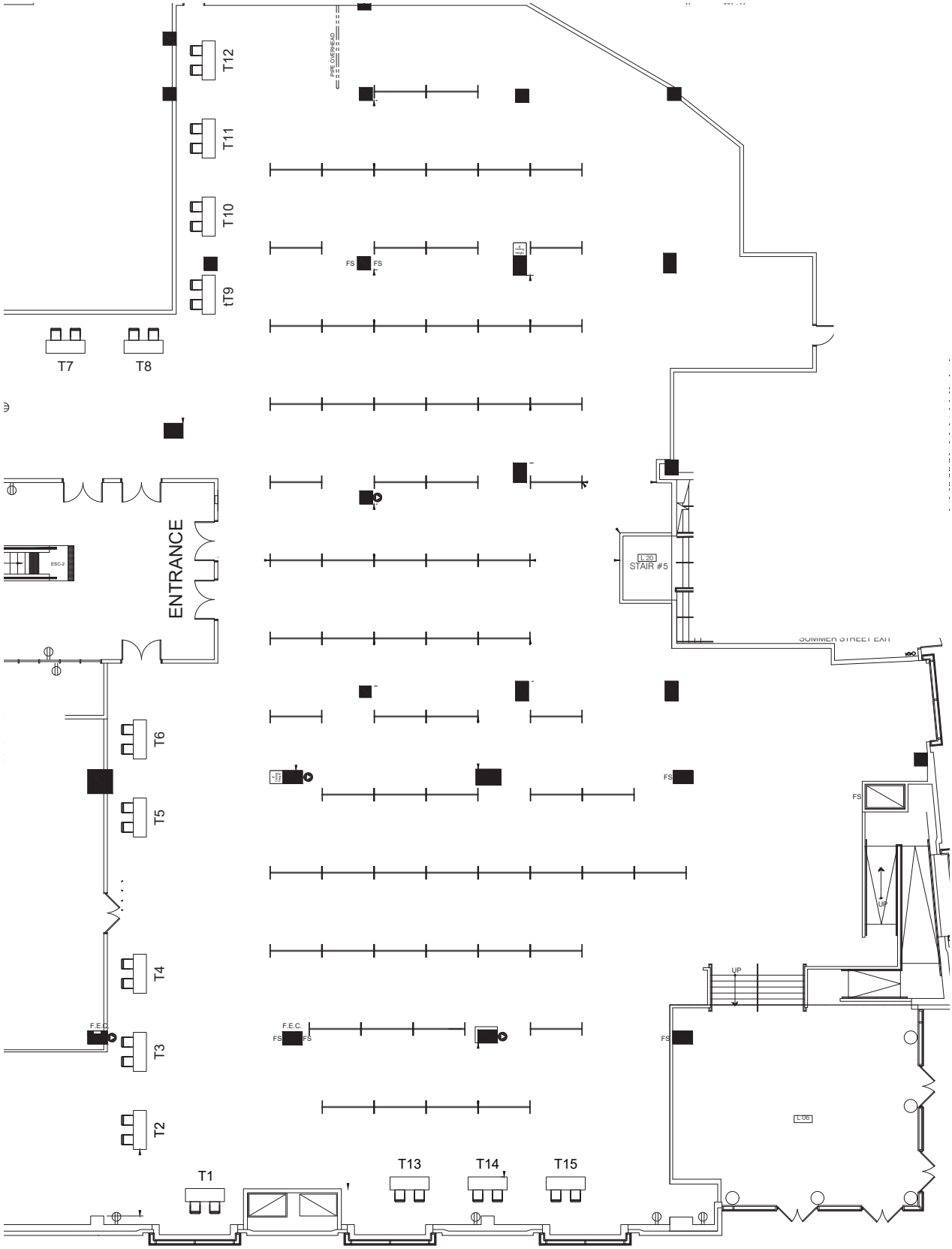
UKI MEDIA EVENTS

ABINGER HOUSE, CHURCH ST
DORKING, UK RH4 1DF
CONTACT: SANDY GREENWAY
SANDY.GREENWAY@UKIMEDIAEVENTS.COM
WWW.METEOROLOGICALTECHNOLOGYWORLDEXPO.COM
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BOOTH NO:T11

UKI MEDIA & EVENTS ARE ORGANISERS OF THE ***Meteorological Technology World Expo***, AN ANNUAL GLOBAL EVENT ATTRACTING AROUND 200 EXHIBITING COMPANIES AND 4,000 ATTENDEES FROM OVER 100 COUNTRIES. EXHIBITORS SHOWCASE THE VERY LATEST CLIMATE, WEATHER AND HYDROMETEOROLOGICAL FORECASTING, MEASUREMENT AND ANALYSIS TECHNOLOGIES AND SERVICES FOR BUYERS AND USERS WITHIN WEATHER CRITICAL INDUSTRIES SUCH AS AVIATION, SHIPPING, MARINE/PORTS, AIRPORTS, MILITARY, OFF-SHORE, RENEWABLE ENERGY, MET OFFICES, AGRICULTURAL OPERATIONS AND RESEARCH INSTITUTES. THE 2020 EVENT WILL BE HOSTING THE WMO'S TECO CONFERENCE, AS WELL AS WORKSHOPS AND HIGH LEVEL NETWORKING. ALSO PUBLISHERS OF ***Meteorological Technology International*** MAGAZINE, PLEASE COME ALONG AND PICK UP YOUR FREE COPY OF THE LATEST ISSUE.

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T12
T11
T10
tT9
T7
T8
PIPE OVERHEAD
FS
ENTRANCE
ESC-2
L-20
STAIR #5
SUMMER STREET EXIT
T6
T5
T4
T3
T2
T1
T13
T14
T15
F.E.C.
UP
L-06

AMS Oral History Project

Help AMS celebrate 100 years of meteorological advances and contribute your story in a five-to-ten-minute interview.



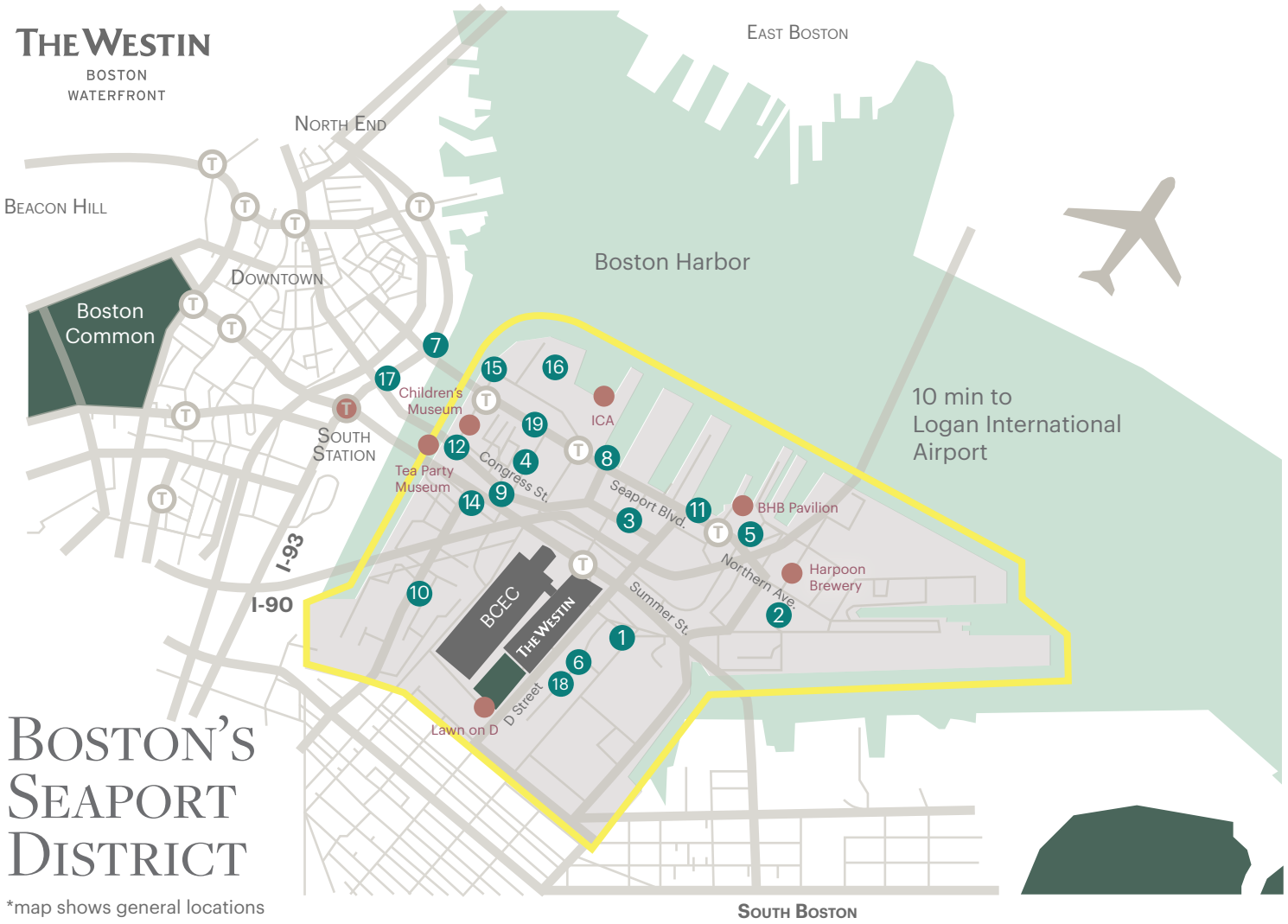
Share a story about your education, career, research, or any other facet of your experiences as a meteorologist. Your perspectives on your career and on the innovations in atmospheric science and remote sensing over the last several decades will serve as a vital primary resource in the history of meteorology. You might also consider talking about:

- Your decision to become a meteorologist and why you decided on that career
- A professor or mentor who made a difference in your undergraduate or graduate education
- The evolution of satellite capabilities and its intersection with your career
- Your perspective as a remote sensing or satellite scientist and where future systems will take us

Your account will be highlighted during the AMS Centennial celebration and archived along with other interviews in the AMS Oral History Project.

Please stop by the Independence Boardroom in the Westin Hotel during the conference or email AMSOralHistoryProject@ametsoc.org to make an appointment.

Interviewers: Jinny Nathans, AMS Archivist and Curator, and Jean Phillips, Director, Communications and Library Services, Space Science and Engineering Center, UW–Madison



Boston's Seaport District

*map shows general locations

Cafe/Grab & Go

1	Fargo's Deli Of Course, 451 D St. 617.261.1664	(.1 miles)
3	Sebastian's, 157 Seaport Blvd. 617.624.7990	(.3 miles)
11	J Pace & Sons, 225 Northern Ave. 857.366.4640	(.4 miles)
9	Caffé Nero, 368 Congress St. 857.233.5385	(.5 miles)
4	Flour Bakery, 12 Farnsworth St. 617.338.4333	(.5 miles)
5	Yankee Lobster, 300 Northern Ave. 617.345.9799	(.5 miles)
6	Jimmy John's, 413 D. St. 857.317.3947	(.2 miles)
18	Dunkin Donuts, 411 D. St. 617.439.6020	(.3 miles)
7	James Hook Lobster, 15 Seaport Blvd. 617.423.5500	(.9 miles)

Lounge/Tavern

8	Atlantic Beer Garden, 146 Seaport Blvd. 617.357.8000	(.4 miles)
8	Whiskey Priest, 150 Seaport Blvd. 617.426.8111	(.4 miles)
9	Drink, 348 Congress St. 617.695.1806	(.6 miles)
9	Lucky's Lounge, 355 Congress St. 617.357.5825	(.6 miles)
10	Barlows Restaurant, 241 A St. 617.338.2142	(.6 miles)

Casual Dining

16	Gather, 75 Northern Ave. 617.982.7230	(.6 miles)
11	Jerry Remy's, 250 Northern Ave. 617.856.7369	(.3 miles)
11	LTK, 225 Northern Ave. 617.330.7430	(.3 miles)
11	Salvatore's, 225 Northern Ave. 617.737.5454	(.3 miles)
11	No Name Restaurant, 15 Fish Pier 617.423.2705	(.4 miles)
14	Papagayo, 283 Summer St. 617.423.1000	(.4 miles)
12	Tavern Road, 343 Congress St. 617.790.0808	(.5 miles)
9	Sportello, 348 Congress St. 617.737.1234	(.6 miles)
15	The Barking Crab, 88 Sleeper St. 617.426.2722	(.8 miles)
9	Row 34, 383 Congress St. 617.553.5900	(.5 miles)
12	Pastoral, 345 Congress St. 617.345.0005	(.8 miles)
16	Committee, 50 Northern Ave. 617.737.5051	(.5 miles)
3	La Casa De Pedro, 505 Congress St. 617.737.2272	(.3 miles)
9	City Tap House, 10 Wharf Rd. 617.904.2748	(.5 miles)
19	Yo! Sushi, 79 Seaport Blvd. 857.400.0797	(.6 miles)
19	Shake Shack, 77 Seaport Blvd. 617.337.4699	(.6 miles)

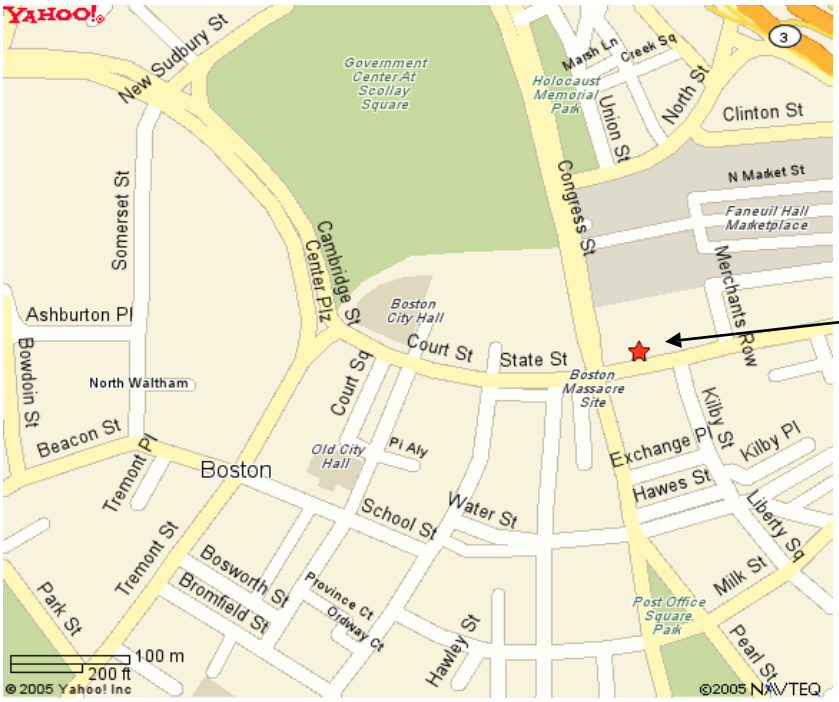
Restaurants

11	75 on Liberty Wharf, 220 Northern Ave. 617.227.0754	(.3 miles)
11	Del Frisco's Steakhouse, 250 Northern Ave. 617.951.1368	(.3 miles)
11	Legal Harborside, 270 NorthrnAve. 617.477.2900	(.3 miles)
11	Morton's Steakhouse, 2 Seaport Lane 617.526.0410	(.3 miles)
8	Rosa Mexicano, 155 Seaport Blvd. 617.476.6122	(.3 miles)
11	Temazcal Cantina, 250 Northern Ave. 617.439.3502	(.3 miles)
14	Blue Dragon, 324 A St. 617.338.8585	(.5 miles)
9	Menton, 354 Congress St. 617.737.0099	(.5 miles)
8	Ocean Prime, 140 Seaport Blvd. 617.670.1345	(.4 miles)
16	Strega, 1 Marina Park Dr. 617.345.3992	(.6 miles)
16	Empire, 1 Marina Park Dr. 617.295.0001	(.6 miles)
17	Trade, 540 Atlantic Ave. 617.451.1234	(.8 miles)
17	Nebo, 520 Atlantic Ave. 617.723.6326	(.8 miles)
14	Bastille Kitchen, 49 Melcher St. 617.556.8000	(.5 miles)
16	Babbo, 11 Fan Pier Blvd. 617.421.4466	(.6 miles)
14	Oak + Rowan, 321 A St. 617.284.7742	(.4 miles)
17	Smith and Wollensky, 294 Congress St. 617.778.2200	(.8 miles)

Local Attractions

Blue Hills Bank Pavilion, 290 Northern Ave. 617.728.1600	(.4 miles)
Spirit of Boston, 200 Seaport Blvd. 866.310.2469	(.4 miles)
Bee's Knees Supply Co. 12 Farnsworth St. 617.292.2337	(.5 miles)
Boston Fire Museum, 344 Congress St. 617.338.9700	(.5 miles)
Boston Harbor Walk	(.5 miles)
ICA, 100 Northern Ave. 617.426.6500	(.5 miles)
Tea Party Museum, Congress St. Bridge 617.592.0422	(.6 miles)
Children's Museum, 308 Congress St. 617.426.6500	(.6 miles)
Harpoon Brewery, 306 Northern Ave. 617.574.9551	(.6 miles)
New England Aquarium, 1 Central Wharf 617.973.5200	(1.2 miles)
Faneuil Hall Marketplace 617.523.1300	(1.3 miles)
North End - Little Italy	(1.6 miles)
JFK Library, 220 Morrissey Blvd. 617.514.1600	(2.1 miles)

425 Summer Street
Boston, MA 02210
westinbostonwaterfront.com



STATE ROOM

60 State Street
33rd Floor
Boston, MA 02109
617.854.5000

****There will be shuttle service for ticketed participants starting at 5:30pm on Wednesday, 2 October. Shuttles will be located outside the Westin Waterfront, on the corner of D Street and Fargo Street****

*****The closest garage is located on Merchants Row (a right-hand turn on State Street, Starbucks is on the corner)***

PARKING RATES: 40 – 60 Min $28.00 **|**60 – 80 Min $38.00 **|** 80+ Min $43.00
Evenings after 5:00pm $20.00 **|** Weekend $20.00/day
Early Bird (enter 6am-8am; exit after 4pm) $30.00

From The North (or Tobin Bridge):

- Take Interstate 93 South. Take the Government Center Exit 24A
- On the third set of lights make a right onto State Street. Take the third right onto Merchants Row to enter our garage. The 60 State Street Garage will be on your left at the end of Merchants Row

From the South:

- Take Interstate 93 North. Take Exit 23 - Government Center exit (in the tunnel)
- Come up the ramp. Stay in the left lane and take your first left hand turn
- Take 2nd right onto State Street
- Take the third right onto Merchants Row to enter our garage
- The 60 State Street Garage will be on your left at the end of Merchants Row

From The West:

- Take the Mass Pike – 90 East to Interstate 93 North. Then follow the directions from the South

From North Shore:

- Take the Sumner Tunnel inbound
- When exiting the tunnel stay in your left lane
- Follow the road and take the first right onto Hanover Street
- Take Hanover Street to the end and make a right onto Commercial Street
- Take Commercial Street (which will become Atlantic Avenue) about 7-9 lights
- Turn right onto State Street
- Take the third right onto Merchants Row to enter our garage
- Turn right onto Merchants Row
- The 60 State Street Garage will be on your left at the end of Merchants Row
- (Please note: Take the Callahan Tunnel outbound)

MEETING SPACE OVERVIEW, PART ONE

425 Summer Street
Boston, Massachusetts 02210
T 857.243.6900
E waterfront.sales@westin.com
westinbostonwaterfront.com

THE WESTIN BOSTON WATERFRONT

HARBOR WING, CONCOURSE LEVEL

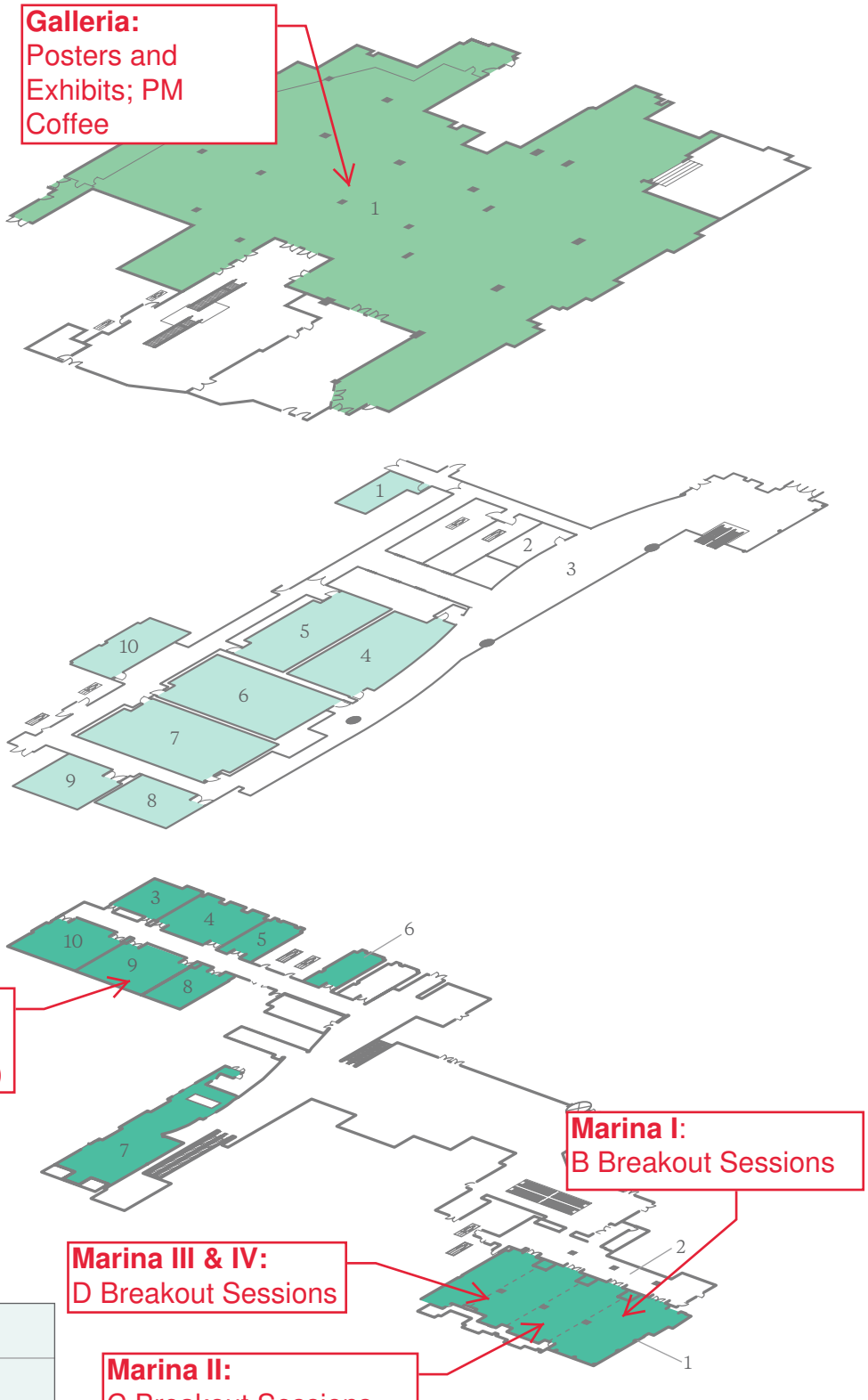
1. GALLERIA

MEZZANINE LEVEL

1. FROST
2. TANGENT
3. MEZZANINE PREFUNCTION
4. ALCOTT
5. ADAMS
6. DOUGLASS
7. FANEUIL
8. EXECUTIVE BOARDROOM
9. HALE
10. BULFINCH

LOBBY LEVEL

1. MARINA BALLROOM
2. MARINA PREFUNCTION
3. HANCOCK
4. OTIS
5. PAINE
6. QUINCY
7. SAUCIETY
8. REVERE
9. STONE
10. WEBSTER



ROOMS AT A GLANCE

TOTAL GUEST ROOMS	793
TOTAL MEETING ROOMS	37
LARGEST MEETING ROOM CAPACITY	1,800
LARGEST MEETING ROOM SIZE	1,780 m^2 / 19,160 ft^2

Additional spaces for meetings and events, not displayed here, may also be available. Contact your hotel representative for more information.

This document contains approximate measurements and square footage that are for illustrative purposes only. We cannot guarantee the floor plan accuracy or completeness, therefore encourage you to review the space to make sure it is suitable for your event.

MEETING SPACE OVERVIEW, PART TWO

425 Summer Street
Boston, Massachusetts 02210
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westinbostonwaterfront.com

THE WESTIN BOSTON WATERFRONT

Harbor Ballroom:
All Monday Sessions, Plenaries, and A Breakout Sessions

Harbor Foyer:
Registration and AM Coffee Breaks

Lewis:
F Breakout Sessions

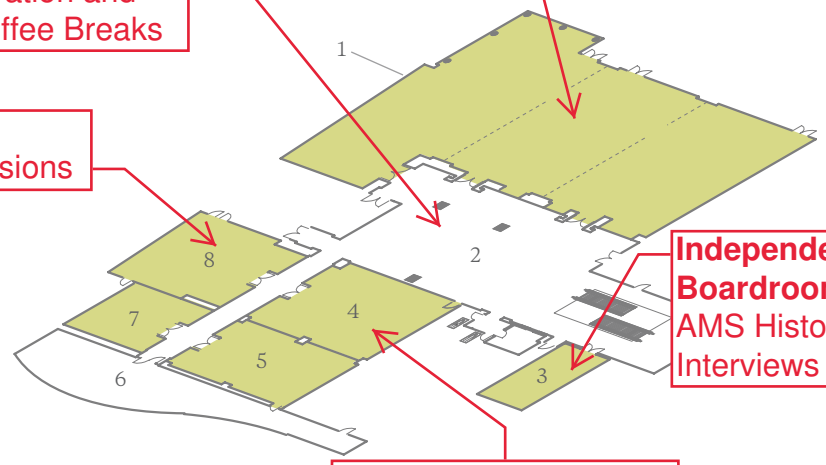
Independence Boardroom:
AMS History Interviews

Burroughs:
E Breakout Sessions

Pavilion (Outdoors):
Icebreaker on Monday Evening

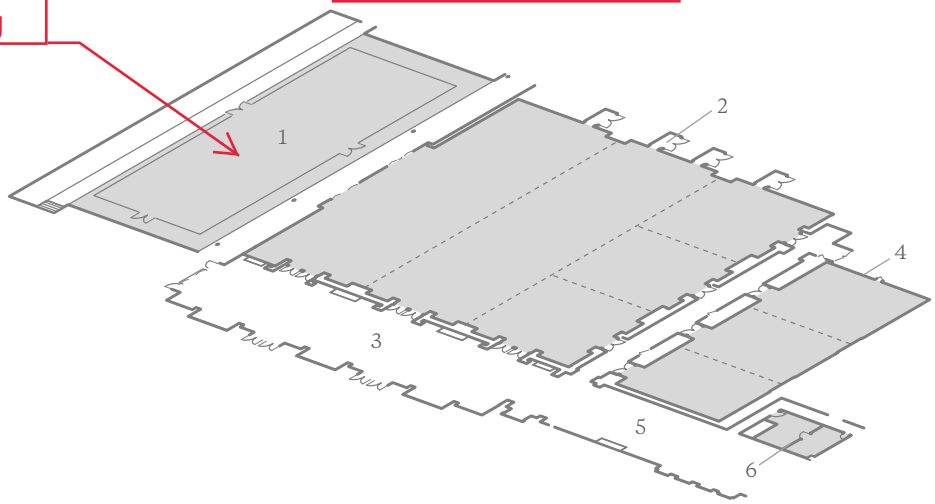
HARBOR WING, CONFERENCE LEVEL

1. HARBOR BALLROOM
2. HARBOR PREFUNCTION
3. INDEPENDENCE BOARDROOM
4. BURROUGHS
5. CARLTON
6. HARBOR TERRACE
7. GRIFFIN
8. LEWIS



CONCOURSE LEVEL

1. PAVILION
2. GRAND BALLROOM
3. GRAND BALLROOM FOYER
4. COMMONWEALTH BALLROOM
5. COMMONWEALTH FOYER
6. ELM



ROOMS AT A GLANCE

TOTAL GUEST ROOMS	793
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