CSPP Users' Group Meeting 2025 Program
Preliminary Program Updated 28 January 2025

1 April 2025 Tuesday			
8:00 - 9:00	Registration		
9:00 - 9:30	Welcome Remarks and Logistics Introductions	CSPP Team	UW-Madison
9:30 - 10:00	**Keynote:** Utilization of Satellite Imagery to "Tell the Story" in Weather and Natural Hazard Communication	William Aydlett	NOAA/NWS/ WFO Guam
Session: Global Direct Broadcast Applications			
10:00 - 10:30	The History and Value of Direct Broadcast in the Pacific Region	Eric Lau	Pacific Region Headquarters NWS, USA
10:30 - 11:00	*Break (Including Group Photo)*		
11:00 - 11:30	Status of the Current and Future NOAA GOES Programs	Andy Heidinger	NOAA GeoXO Program Scientist
11:30 - 12:00	Direct Broad Capabilities For NOAA's Low Earth Orbit Observation Missions	Satya Kalluri	NOAA LEO Program Scientist
12:00 - 13:00	*Lunch*		
13:00 - 13:20	CSPP GEO and LEO at the National Laboratory for Earth Observation (LANOT)	Alejandro Aguilar Sierra	LANOT UNAM, Mexico

Time	Title	Speaker	Affiliation
13:20 - 13:40	Utilisation of CSPP at the Meteorological Service of Singapore and Development of an Operational, Regional Burnt Area Mapping Tool	Efthymia Pavlidou	Meteorological Service of Singapore
13:40 - 14:00	CSPP Utilization for Real-Time Satellite Data Processing at the Institute of Meteorology and Water Management National Research Institute (IMGW) in Poland	Tobiasz Górecki	IMGW, Poland
14:00 - 14:20	Utilization of the CSPP Module at the India Meteorological Department (IMD)	Shibin Balakrishnan	India Meteorological Department
14:20 - 14:40	Direct Readout Activity and Himawari Operation at the Meteorological Satellite Center of the Japan Meteorological Agency	Toshiyuki Kitajima	Japan Meteorological Agency
14:40 - 15:00	Progress of CSPP Applications in China	Yanan Liu	East China Normal University
15:00 - 15:40	*Break*		
15:40 - 16:00	EUMETSAT Advanced Retransmission Service	Nicholas Coyne	EUMETSAT
16:00 - 16:20	Spatial and Temporal Distribution of Rainfall Breaks in Senegal Using Satellite Data	Bouya Diop	Université Gaston Berger de Oral Saint Louis, Senegal
16:20 - 16:40	Using CSPP for Low Latency Severe Weather and Aviation Contrail Cirrus Forecasts	William Smith, Sr.	SSEC/Hampton University
16:40 - 17:00	CSPP LEO in Alaska: Supporting the Forecasts of Today and Tomorrow	Jennifer Delamere	GINA/University of Alaska Fairbanks
17:30 - 19:30	*Ice Breaker*		

02 April 2025 Wednesday			
Session: CSPP LEO and Geo Software			
9:00 - 9:30	Community Satellite Processing Package (CSPP) for Low Earth Orbit (LEO) Satellites: Recent Updates and Future Plans	Liam Gumley	SSEC/CIMSS
9:30 - 10:00	CSPP Geo Status and Plans	Graeme Martin	SSEC/CIMSS
10:00 - 10:30	Ask the Experts	CSPP Team	
10:30 - 11:00	*Break*		
Session: NOAA Direct Broadcast Directives			
11:00 - 11:20	Current State of NOAA NESDIS Direct Readout Satellite Services (2025)	Toby Hutchings	NOAA Direct Readout Program Manager
11:20 - 11:40	Direct Broadcast from NOAA's Low-Earth Orbit satellites	John Evans	NOAA Data Operations Manager: LEO Satellites
11:40 - 12:00	NOAA LEO Products Updates for CSPP Users	Lihang Zhou	NOAA LEO Satellite Product Manager
12:00 - 13:00	*Lunch*		
13:00 - 13:20	NOAA Algorithm Scientific Software Integration and System Transition Team (ASSISTT) Collaboration with CSPP Geo and Leo on L2 Product Software	Michael Butler	NOAA ASSISTT
13:20 - 13:40	Operational Ingest/Visualization of CSPP-processed data in AWIPS	Eric Jacobsen	Pacific Region Headquarters, NWS, USA

	Session: Emerging Technologies: Artificial Intelligence (AI) and Machine Learning (ML)		
13:40 - 14:00	CSPP Innovation with AI/ML	Allen Huang	SSEC/CIMSS
14:00 - 14:20	Machine Learning for Aerosol Optical Depth Retrieval Using Chinese Geostationary Imagers	Xiangao Xia	IAP, Chinese Academy of Sciences
14:20 - 15:20	*Poster Session including 1-minute Introductions* *Break*		
	Session: Emerging Technologies: Low and Ultra Low Latency		
15:20 - 15:40	Ultra Low Latency	Steve Dutcher	SSEC
15:40 - 16:00	Low Latency Cross-track Infrared Sounder (CrIS) Products	Joe Taylor	SSEC
16:00 - 16:20	Introducing Dexter, a Fast Modern and Versatile Downlink Decoding Solution	Bruce Flynn	SSEC
16:20 - 16:40	Cloud-based System for Delivering Low Latency LEO data for SatCORPS Global Cloud Composite and Global VIIRS Fire and Flood Detections	Louis Nguyen	NASA Langley Research Center
16:40 - 17:00	Low-Latency Satellite Data Products to Help Reduce Aviation Effects on Climate	William Smith, Jr.	NASA Langley Research Center
17:30 - ??	*Social Event*		

03 April 2025	Thursday		
Session: General Applications			
9:00 - 9:20	Microwave Sounder Limb Adjustments for AMSU, ATMS and new Microwave Smallsats	Mitch Goldberg	The City College of New York
9:20 - 9:40	Land Surface Phenology Monitoring from BRDF-adjustment of GOES-R ABI time series and VIIRS Observations	Xiaoyang Zhang	South Dakota State University
9:40 - 10:00	Near Real Time Active Fires and Flood Detection Level-2 Products Via Direct Broadcast Using the Community Satellite Processing Package	Geoff Cureton	SSEC/CIMSS
10:00 - 10:20	A Practical Introduction To Using CSPP Geo LightningCast For Lightning Prediction	Levi Pfantz	SSEC/CIMSS
10:20 - 11:00	*Break*		
11:00 - 11:20	Training Using Imagery Created with CSPP Software	Scott Lindstrom	SSEC/CIMSS
11:20 - 11:40	Ancillary Data Services for IPOPP and Simulcast	Jeremy Jacobsohn	NASA
11:40 - 12:00	Support for Post-Fire Risk Assessment with Dynamically Composited Multi-Sensor Burn Scar Maps	Sam Batzli	SSEC/CIMSS
12:00 - 13:00	*Lunch*		
Session: The Direct Broadcast Network (DBNet)			
13:00 - 13:20	DBNet Data Reception, Processing, and Plans of India National Centre for Medium Range Weather Forecasting (NCMRWF)	Srinivas Desamsetti	NCMRWF, India
13:20 - 13:40	Impact of Assimilating the Indian DBNet Radiances in a High-Resolution Rapid Refresh (HRRR) System at NCMRWF	Hari Prasad Kottu	NCMRWF, India
13:40 - 14:00	CSPP Polar2Grid and Geo2Grid: Facilitating the Creation of High Quality Satellite Imagery	Kathleen Strabala	SSEC/CIMSS

14:00 - 15:00	**Advanced Techniques for Direct Broadcast Data Processing** Topics: • Tips and tricks for creating imagery with Polar2Grid and Geo2Grid • Running DB software packages (CSPP, AAPP, FY3DB) in container-based cloud environments • Adapting IPOPP-based DB processing workflows to CSPP • Optimizing DB processing hardware and workflows	CSPP Team	
15:00 - 15:30	*Break*		
15:30 - 16:15	**Advanced Techniques for Direct Broadcast Data Processing Continued**	CSPP Team	
16:15 - 16:30	Meeting Conclusion		

Posters

P1: CSPP in Early Warning Systems for Forest Fires in Mexico	Martin Cuahutle	Freelance Consultant
P2: Joint Retrieval of PM2.5 Concentration and Aerosol Optical Depth over China Using Multi-Task Learning on FY-4A AGRI	Xuehua Fan	Institute of Atmospheric Physics, Chinese Academy of Sciences
P3: PSAS: Providing LEO DB products to NWS Pacific Region	Douglas Schumacher	SSEC/CIMSS
P4: CSPP VIIRS Enterprise Packages: Simple Production of Atmosphere, Cryosphere and Land Products.	Scott Mindock	SSEC/CIMSS
P5: Mapping VIIRS Radiance Cluster Data to CrIS Granules	Matthew Odle	SSEC/CIMSS
P6: Fusion Correction Method for Numerical Weather Forecast Based on LGU-Net	Kun-peng Wu	Chang Guang Satellite Technology Co., Ltd.
P7: Short-Term Wind Speed Prediction Based on Relaxed Lasso-ConvLSTM	Lu Wang	Chang Guang Satellite Technology Co., Ltd.