



AGENDA

12:00 pm - 5:00 am EST		Monday, March 4, 2024	
12:00 pm - 5:00pm EST		Working Group for Tropical Cyclone Operations and Research (WG-Tropical) WG-Tropical Session Chairs: Michael Brennan & Josh Cossuth	
12:00 pm - 2:30 pm EST	WG-Tropical Meeting Part 1 - Agenda Items	Working Group	
2:30 pm - 2:45 pm EST		Break	
2:45 pm - 5:00 pm EST	WG-Tropical Meeting Part 2 - Agenda Items / Open Discussion	Working Group	
8:30 am - 5:00 pm EST		Tuesday, March 5, 2024	
8:30 am - 9:15 am EST		Session 1: Welcome/Overview/Keynote	
8:30 am - 8:45 am EST	Welcome/Overview	Dr. Mike Brennan, WG Chair	
8:45 am - 9:15 am EST	Keynote	Dr. Rick Spinrad, NOAA Administrator	
9:15 am - 9:45 am EST		Session 2: Report Out on NHOP/WG-Tropical Agenda Items by Dr. Michael Brennan	
9:45 am - 10:00 am EST		Break	
10:00 am - 11:00 am EST		Session 3: TC Seasonal Summary Presentations Session Chair: Josh Cossuth, ONR	
10:00 am - 10:20 am EST	A Summary of the 2023 Hurricane Season and a Look Ahead to 2024	Dan Brown, NHC	
10:20 am - 10:40 am EST	CPHC Briefing	Jon Jelsema, CPHC	
10:40 am - 11:00 am EST	JTWC 2023 Operational Highlights and Interagency Perspectives	Brian Strahl & Commander Dominic DiMaggio, JTWC	
11:00 am - 12:00 pm EST		Session 4: TC Field Program Summaries Session Chairs: Dan Brown, NHC	
11:00 am - 11:20 am EST	NOAA's APHEX Hurricane Field Program: 2023 Highlights & Plans for 2024	Jason Dunion, CIMAS/HRD	
11:20 am - 11:40 am EST	ONR Field Planning for Tropical Cyclones and Winter Storms: 2020-2030	Josh Cossuth, ONR	
11:40 am - 12:00 pm EST	NOAA's 2023 CHAOS Hurricane Field Campaign Enabling Real-Time Disparate System Interoperability with GeoCollaborate	Dave Jones, StormCenter Communications, Inc	
12:00 pm - 1:30 pm EST		Lunch	
1:30 pm - 2:45 pm EST		Session 5: Research Updates (HOT) Session Chair: Wallace Hogsett, NHC	
1:30 pm - 1:45 pm EST	Hurricane and Ocean Testbed (HOT): Overview and Updates	Wallace Hogsett, NHC	
1:45 pm - 2:00 pm EST	Expansion of Ensemble-based Sensitivity to TC Hazard Forecasts	Ryan Torn, UAlbany	
2:00 pm - 2:15 pm EST	The Overall and Individual Impact of Two Recent G-IV Flight-Track Changes on TC Forecasts using HAFS	Sarah Ditchek, CIMAS/HRD	
2:15 pm - 2:30 pm EST	Forecaster Support Products for Analysis of Tropical Cyclone Intensity and Structure from Aircraft Reconnaissance Observations - Updates from Year 2	Jonathan Vigh, NCAR / Michael Bell, CSU	
2:30 pm - 2:45 pm EST	A Machine Learning Model for Estimating Tropical Cyclone Track and Intensity Forecast Uncertainty	Mark DeMaria, CIRA/CSU	
2:45 pm - 3:00 pm EST		Break	
3:00 pm - 3:45 pm EST		Session 5: Research Updates (JTTI) Session Chair: Wallace Hogsett, NHC	
3:00 pm - 3:15 pm EST	An Update on Evaluating the Clarity and Effectiveness of the National Hurricane Center's Experimental Probabilistic Intensity Forecast Product	Daniel Halperin, ERAU	
3:15 pm - 3:30 pm EST	Integration of Model Large-Scale Environmental Diagnostics for Tropical Cyclones into the Model Environmental Tools (METplus) Verification Package	Kate Musgrave, CIRA/CSU	
3:30 pm - 3:45 pm EST	Future Improvements to the Tropical Cyclone Wind Speed Probability Products	Alan Brammer, CIRA/CSU presenting / Kate Musgrave CIRA/CSU	

3:45 pm - 4:00 pm EST	Session 5: Research Updates (Other) Session Chair: Wallace Hogsett, NHC	
3:45 pm - 4:00 pm EST	Wind Gusts in Hurricanes According to Large-Eddy Simulations	George Bryan, NCAR
4:00 pm - 4:30 pm EST	Q&A/Discussion	
4:30 pm - 4:45 pm EST	Session 6: Hagemeyer Award	
4:45 pm - 5:00 pm EST	Day 2 Discussion and Wrap up	
8:30 am - 5:00 pm EST		
Wednesday, March 6, 2024		
8:30 am - 5:00 pm EST	Joint meeting with Tropical Cyclone and Winter Season Working Group	
8:30 am - 9:45 am EST	Session 1: Recon Seasonal Summaries and Data Management Session Chair: Ashley Lundry	
8:30 am - 8:50 am EST	2023-24 Reconnaissance Flying: Increasing Demand vs. Constrained Resources	Warren Madden/Steve Feuer, CARCAH
8:50 am - 9:10 am EST	53rd Weather Reconnaissance Performance & Resource Review	Ryan Rickert/Christopher Dyke, 53rd WRS
9:10 am - 9:30 am EST	2023 Hurricane Season and Winter Season Review - Aircraft Operations Center	Nikki Hathaway, AOC
9:30 am - 9:45 am EST	How to Prepare & Submit Your Data to NCEI	Paul Lemieux, NCEI Data Archive
9:45 am - 10:00 am EST	Break	
10:00 am - 12:15 pm EST	Session 2: Observing Strategies and Systems Session Chair: Keren Rosado-Vázquez, NHC	
10:00 am - 10:30 am EST	NOAA/NESDIS Update: GOES/POES/Non NOAA Satellites, and Tropical Products	Joe Fiore / Aiwu Li, NESDIS
10:30 am - 11:00 am EST	Are the multitude of aircraft and satellite wind and wave measurements causing confusion or clarity?: Some insight from NOAA/NESDIS satellite and aircraft products	Paul Chang, NESDIS STAR/Zorana Jelenak, CPAESS NESDIS
11:00 am - 11:15 am EST	Use of Machine Learning to Simulate Microwave Imagery from Operational Geostationary Stationary Satellites	Kate Musgrave, CIRA/CSU
11:15 am - 11:30 am EST	Tropical cyclone product updates at CIMSS for 2024	Tony Wimmers, CIMSS
11:30 am - 11:45 am EST	Environmental Monitoring (EM) Systems Update	Chris Stock, Space Force
11:45 am - 12:00 pm EST	Saildrone observations during the 2023 Atlantic hurricane season	Greg Foltz, AOML
12:00 pm - 12:15 pm EST	NOAA Ocean Observing Strategy	Ajay Mehta, NWS Office of OBS
12:15 pm - 1:45 pm EST	Lunch	
1:45 pm - 3:00 pm EST	Session 2: Observing Strategies and Systems Session Chair: Keren Rosado-Vázquez, NHC	
1:45 pm - 2:00 pm EST	Developing, testing and transitioning small Uncrewed Aircraft Systems (sUAS) and advanced atmospheric profilers to routinely sample the hurricane boundary layer	Joe Cione, AOML/HRD
2:00 pm - 2:15 pm EST	WindBorne Plans for the 2024-2025 Tropical and Winter Seasons	Todd Hutchinson, Windborne
2:15 pm - 2:30 pm EST	Airborne Phased Array Radar (APAR) - The Next Generation Airborne Polarimetric, Doppler Weather Radar	Wen-Chau Lee, NCAR
2:30 pm - 2:45 pm EST	StratoHopper: Dynamic Observations from the Stratosphere	Nick Craine, Stratodynamics
2:45 pm - 3:00 pm EST	Airborne Radio Occultation: AR Recon 2023-2024 in Review, and Prospective Applications for Hurricanes	Jennifer Haase, UC San Diego
3:00 pm - 3:30 pm EST	Session 3: Products & Services, Including Social Science/IDSS (National to Local) Session Chair: Jon Jelsema, CPHC	
3:00 pm - 3:15 pm EST	The NWS National Winter Program: 2024 Update	Eric Guillot, NWS/AFS Winter Program
3:15 pm - 3:30 pm EST	Integration of Triangulated Social Science Recommendations Into Local Tropical Cyclone Products & Services	Jess Schauer, NWS/AFS Tropical Program
3:30 pm - 4:00 pm EST	NOAA P-3 Tour	
4:00 pm - 5:00 pm EST	Session 4: ICAMS Open Discussion Session Chair: Daniel Melendez, Acting Executive Director, ICAMS	
5:00 pm - 5:15 pm EST	Day 3 Discussion and Wrap Up	
6:00 pm EST	Social Event Swan Brewing	
8:30 am- 11:30 am EST		
Thursday, March 7, 2024		
8:30 am - 11:30 am EST	Joint meeting with Tropical Cyclone and Winter Season Working Groups	
8:30 am - 10:30 am EST	Session 5: Modeling/Data Assimilation Session Chair: Keren Rosado-Vázquez	
8:30 am - 8:45 am EST	Advances in Operational Global Modeling and Data Assimilation at EMC: Progress and Plans for implementation of GFSv17 and GFSv13	Vijay Tallapragada, EMC
8:45 am - 9:00 am EST	Status of Operational Hurricane Modeling at NWS/NCEP: Development and Upgrade of HAFS	Avichal Mehra, EMC
9:00 am - 9:15 am EST	Hurricane Analysis and Forecast System (HAFS): Research, Developments & Potential Transitions	Ghassan Alaka, AOML

9:15 am - 9:30 am EST	Towards Future Hurricane Modeling Prediction System: Hurricane Ensemble in Real-time on the Cloud	Zhan Zhang, EMC
9:30 am - 9:45 am EST	Evaluation of Tropical Cyclone Track and Intensity Forecasts from Artificial Intelligence-Weather Prediction (AI-WP) Models	Mark DeMaria, CIRA/CSU
9:45 am - 10:00 am EST	Navy COAMPS-TC Update	Jim Doyle, NRL
10:00 am - 10:15 am EST	Performance and recent plus coming changes to the ECMWF forecasting system	Linus Magnusson, ECMWF
10:15 am - 10:30 am EST	Met Office Tropical Cyclone Modelling Update	Julian Heming, UKMET
10:30 am - 10:45 am EST	Break	
10:45 am - 11:30 am EST	Q&A/ Tropical/Hybrid Meeting Closing	
11:30 am - 1:00 pm EST	Lunch	
1:00 pm - 5:00 pm EST	Winter Season Working Group	
1:00 pm - 2:10 pm EST	Session 1: Welcome/Overview/NWS Winter Season Updates Session Chair: Jonathan Zawislak, AOC	
1:00 pm - 1:15 pm EST	Welcome/Overview	Ashley Lundry - NOAA/OMAO/AOC Lt. Col. Ryan Rickert - AFRC 53WRS Winter Season WG Chairs
1:15 pm - 1:30 EST	Review of the 2023-24 Winter Season at the Weather Prediction Center	Tony Fracasso - WPC/FOB
1:30 pm - 1:45 pm EST	Gulf of Mexico & Atlantic Hybrid "Winter" Storms and Unique Challenges: A Review of the 2023-24 Season	Robert Handel - NCO/OMB SDM Team
1:45 pm - 2:00 pm EST	The Research and Operations Partnership between CW3E, California Department of Water Resources, and California Nevada River Forecast Center	Chad Hecht - Scripps/CW3E
2:00 pm - 2:10 pm EST	Q & A	
2:25 pm - 3:35 pm EST	Session 2: Winter Field Program Summaries Session Chair: 1LT Mark McCoy, 53 WRS	
2:25 pm - 2:40 pm EST	Atmospheric River Reconnaissance: Accomplishments Through Water Year 2024 and Vision for the Future	Martin Ralph - Scripps/CW3E
2:40 pm - 2:55 pm EST	Atmospheric River Reconnaissance: A Review of Water Year 2024	Anna Wilson - Scripps/CW3E
2:55 pm - 3:10 pm EST	Surface Drifter and Float Deployments for the 2024 AR Season	Martha Schonau - Scripps LDL
3:10 pm - 3:25 pm EST	AR Recon Enables Improvements in US Army Corps of Engineers' Water Management Practice	Cary Talbot, U.S. Army Corps of Engineers/Engineer Research and Development Center (ERDC)
3:25 pm - 3:35 pm EST	Q & A	
3:35 pm - 3:50 pm EST	Break	
3:50 pm - 5:00 pm EST	Session 3: Research, Development, and R2O Updates Session Chair: Kerri Englert, AOC	
3:50 pm - 4:05 pm EST	The Weather Prediction Center's Winter Weather Experiment: Past Successes, Ongoing Challenges, and Future Plans	Kirstin Harnos - WPC/DTB
4:05 pm - 4:20 pm EST	Advancing Situational Awareness of Forecast Scenarios through Ensemble Sensitivity Analysis	Austin Coleman - WPC/DTB - CIRES
4:20 pm- 4:35 pm EST	Overview and Preliminary Results from the NASA IMPACTS Campaign	Lynn McMurdie - Univ. of Washington
4:35 pm - 4:50 pm EST	Synthesis of Initial-Condition Sensitivities during AR Recon Operations and the Impact of Dropsondes on Model Analysis and Forecasts	Minghua Zheng - Scripps/CW3E
4:50 pm - 5:00 pm EST	Q & A	
8:30 am - 4:00 pm EST	Friday, March 8, 2024	
8:30 am - 3:30 pm EST	Working Group for Winter Season (WG-Winter)	
8:30 am to 9:40 am EST	Session 1: Model/Data Assimilation Systems Updates Session Chair: Anna Wilson, CW3E	
8:30 am - 8:45 am EST	Operational GFS Forecast Improvements for the Winter Season with Atmospheric River Reconnaissance Data	Vijay Tallapragada - EMC/MDAB
8:45 am - 9:00 am EST	GEFS/CMC Ensemble Sensitivity Tool and Products	Xingren Wu - EMC/MDAB - Axiom
9:00 am - 9:15 am EST	Diagnosing Forecast Sensitivity of Atmospheric Rivers Using an Adjoint	Jim Doyle - NRL
9:15 am - 9:25 am EST	Q & A	
9:25 am - 9:40 am EST	Break	
9:40 am - 11:30 am EST	Session 2: Working Group for Winter Season Session Chairs: Ashley Lundry, AOC & Lt Col Ryan Rickert, 53 WRS	
11:30 am - 1:00 pm EST	Lunch	
1:00 pm - 2:15 pm EST	Session 3: WG NWSOP Open Agenda Item 21-01 Progress Report & Transitioning from Fixed to Customized Atlantic/Gulf Winter Season Reconnaissance Tracks Session Chair: Steve Feuer, CARCAH	
	FAA update on Gulf/Atlantic Airspace	
2:15 pm - 2:30 pm EST	Break	
2:30 pm - 3:30 pm EST	Session 4: Open Discussion Session Chairs: Ashley Lundry, AOC & Lt Col Ryan Rickert, 53 WRS	

3:30 pm EST

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