

NEXT UPDATE FEBRUARY 10, 2012

66th Interdepartmental Hurricane Conference
Tropical Cyclone Operations and Research: Strength and Success Through Partnerships and Alliances

AGENDA

DAY 1 - Monday, March 5, 2012

7:00 AM Early Registration (7:00 AM-12:30 PM)

8:30 - 11:30 AM	Working Group for Hurricane and Winter Storms Operations and Research (WG/HWSOR) Meeting	Edward Rappaport (NCEP/NHC) Chairperson, WG/HWSOR
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Opening Session

12:30 PM	Conference Opening and Introduction of Mayor	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
12:35 PM	Welcome/Opening Remarks	The Honorable Joseph P. Riley, Jr. Mayor, Charleston, South Carolina
12:45 PM	Introductory Comments and Introduction of Speakers	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
1:15 PM	Plenary Opening – In progress	
1:30 PM	Invited Speaker (IS-01) Dr. David Parsons, Director, School of Meteorology, University of Oklahoma	
1:45 PM	Senior Leader Panel: Partnerships - The Key to Tackling Critical Challenges in Tropical Cyclone Operations and Research Moderator: Mr. Bryan Norcross, The Weather Channel Hurricane Specialist Panelists: Dr. Fred Lewis, Director, Air Force Weather RADM David Titley, Oceanographer and Navigator of the Navy Dr. Jack Hayes, NOAA Assistant Administrator for Weather Services & Director of the National Weather Service Panelist #4 – Invited Panelist #5 - Invited	
2:45 PM	Introduction of Federal Agency Lead Representatives	Mr. Samuel P. Williamson Federal Coordinator for Meteorology

3:00 PM Afternoon Break (3:00-3:30 PM)

Sessions I Coordinator: TBD

Session 1a: Special Session – In progress

Session Leaders - TBD		
3:30 PM		
3:40 PM		
3:55 PM		

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Session 1b: The 2011 Tropical Cyclone Season in Review

Session Leaders - TBD		
4:15 PM (S1-01)	The 2011 Atlantic Hurricane Season: Only One U.S. Hurricane Landfall Despite Another Active Season	Stacy R. Stewart and Lixion A. Avila (NCEP/NHC)
4:30 PM (S1-02)	Overview of the 2011 Eastern North Pacific Hurricane Season	Todd B. Kimberlain and Eric. S. Blake (NCEP/NHC)
4:45 PM (S1-03)	2011 Atlantic and Eastern North Pacific Forecast Verification	John P. Cangialosi and James L. Franklin (NCEP/NHC)
5:00 PM (S1-04)	Review of the 2011 Central Pacific Tropical Cyclone Season and Preliminary Verification	Raymond Tanabe (NWS/CPHC)
5:15 PM (S1-05)	A Review of Recent Changes at the Joint Typhoon Warning Center and a Summary of the 2011 Tropical Cyclone Season	Captain Michael D. Angove and Mr. Robert J. Falvey (NMFC/JTWC)
5:30 PM (S1-06)	53d Weather Reconnaissance Squadron 2011 Hurricane Season Reconnaissance Summary	Lt Col Jonathan Talbot (USAFR/53 rd WRS)
5:45 PM (S1-07)	NOAA Aircraft Operations Center (AOC) 2011 Seasonal Summary and Future Plans	Jim McFadden (NOAA/AOC)

6:30 PM Poster Session / Ice Breaker (*cash bar and hors d'oeuvres*) (6:30-8:30 PM)
Location – Gold Ballroom (**All posters are listed at the end of this agenda**)

~8:30 PM End of Day 1 Events

DAY 2 - Tuesday, March 6, 2012

8:00 AM Opening/Administrative Remarks

8:05 AM **Invited Speaker** (IS-02) - Mr. X. William (Bill) Proenza (8:05-8:20 AM)
Director, National Weather Service Southern Region

Session 2a and 2b Coordinator: TBD

Session 2a: Joint Hurricane Testbed Project Updates, Part 1

Session Leader <i>Ms. Shirley Murillo (AOML/HRD)</i>		
8:20 AM (S2a-01)	2011 Update on The Joint Hurricane Testbed (JHT)	Jiann-Gwo Jiing, C. Landsea, and S. Murillo (JHT)
8:35 AM (S2a-02)	Improvements in Statistical Tropical Cyclone Forecast Models: A Year 1 Joint Hurricane Testbed Project Update	Mark DeMaria (NOAA/NESDIS)
8:50 AM (S2a-03)	Improvements in the Probabilistic Prediction of Tropical Cyclone Rapid Intensification Resulting from Inclusion of Satellite Passive Microwave Observations	Christopher M. Rozoff (UW-Madison)
9:05 AM (S2a-04)	Improvements to the SHIPS Rapid Intensification Index	John Kaplan (NOAA/AOML)
9:20 AM (S2a-05)	Enhancement of SHIPS Rapid Intensification Index Using the 37 GHz Ring Pattern	Haiyan Jiang (Florida International University)
9:35 AM (S2a-06)	Extending SHIPS Hurricane Intensity Forecasts with some Dynamical Variables	T. N. Krishnamurti (Florida State University)
9:50 AM (S2a-07)	A New Secondary Eyewall Formation Index; Transition to Operations and Quantification of Associated Hurricane Intensity and Structure Changes	Jim Kossin (NOAA/NCDC)
10:05 AM (S2a-08)	Development of a Probabilistic Tropical Cyclone Genesis Prediction Scheme	Jason P. Dunion (AOML/HRD)

10:20 AM Morning Break (10:20-10:45 AM)

Note: Abstracts can be found in the conference booklet

Session 2b: Joint Hurricane Testbed Project Updates, Part 2

Session Leader - TBD		
10:45 AM (S2b-01)	2012 Upgrades to the Operational GFDL/GFDN Hurricane Model	Morris A. Bender (OAR/GFDL)
11:00 AM (S2b-02)	Validation of HWRF Forecasts with Satellite Observations	Tomislava Vukicevic (AOML/HRD)
11:15 AM (S2b-03)	Assimilation of Non-NOAA and Non-AF GPS Dropwindsonde Data into NOAA Numerical Models	Kathryn J. Sellwood (University of Miami)
11:30 AM (S2b-04)	Development of a Real-Time Automated Tropical Cyclone Surface Wind Analysis: A Year 1 Joint Hurricane Testbed Project Update	John A. Knaff (NOAA/NESDIS)
11:45 AM (S2b-05)	Improved SFMR Surface Wind Measurements in Intense Rain Conditions: A JHT Project	Brad Klotz (UM/RSMAS/CIMAS)
12:00 AM (S2b-06)	Improved Automation and Performance of VORTRAC Intensity Guidance	Wen-Chau Lee (NCAR)

12:15 PM Lunch on your own (12:15- 1:15 PM)

Sessions 3 and 4a Coordinator: TBD

Session 3: Advances in Storm Surge Predictions

Session Leaders - TBD		
1:15 PM (S3-01)	The National Weather Service's Storm Surge Program: Past, Present, and Future	Jamie R. Rhome (NCEP/NHC)
1:30 PM (S3-02)	Moving Forward with Surge Communication Products	Betty Hearn Morrow (Eastern Research Group)
1:45 PM (S3-03)	A Testbed for the Evaluation of Wave, Storm Surge and Inundation Models for Tropical Storms	Rick Luettich (University of North Carolina)
2:00 PM (S3-04)	USACE Engineer Research and Development Center Coastal Storm Modeling System (CSTORM-MS)	T. Chris Massey (USACE/ERDC)
2:15 PM (S3-05)	Development of a Storm Surge Ensemble Modeling Methodology Using a Suite of Hurricane Track Predictions	Machuan Peng (NOS/Coast Survey Development Laboratory)
2:30 PM (S3-06)	Fast Forecasting of Hurricane Waves and Inundation in Hawaii	Jane McKee Smith (USACE/ERDC)

2:45 PM Afternoon Break (2:45-3:15 PM)

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Session 4a: Observations and Observing Strategies for Tropical Cyclones and their Environment, Part 1

Session Leaders <i>Mr. Chris Velden (University of Wisconsin/CIMSS) and Dr. Mark DeMaria (NOAA/NESDIS)</i>		
3:15 PM (S4a-01)	Tropical Cyclone Intensity Estimation and Formation Detection using the Deviation Angle Variance Technique	Elizabeth A. Ritchie (University of Arizona)
3:30 PM (S4a-02)	Dvorak Technique at SAB	Michael Turk (NESDIS/Satellite Analysis Branch)
3:45 PM (S4a-03)	The 2011 GOES-R Proving Ground at the National Hurricane Center	Jack Beven (NCEP/NHC)
4:00 PM (S4a-04)	NRL Tropical Cyclone Satellite Web Page: 15 Years of Quasi-Operational and R&D Applications	Jeff Hawkins (NRL)
4:15 PM (S4a-05)	Microwave Sounders: The “Swiss Army Knives” Of Hurricane Research	Bjorn Lambrigtsen (California Institute of Technology)
4:30 PM (S4a-06)	Understanding the Rapid Intensification of Hurricane Karl From Observations and Models: Using NASA’s Airborne and Satellite Observations to Evaluate the Operational Hurricane Forecast Model HWRP	Svetla Hristova-Veleva (California Institute of Technology)
4:45 PM (S4a-07)	Observations of C-band brightness temperatures and ocean surface wind speed and rain rate from the Hurricane Imaging Radiometer (HIRAD)	Timothy L. Miller (NASA/MSFC)

5:00 PM End of Day 2 Events

DAY 3 - Wednesday, March 7, 2012

8:00 AM Opening/Administrative Remarks

TBD

*Session 4b and 5a Coordinator: TBD***Session 4b: Observations and Observing Strategies for Tropical Cyclones and their Environment, Part 2**

Session Leaders - TBD		
8:05 AM (S4b-01)	Hurricane and Severe Storm Sentinel (HS3): A Multi-year Investigation of Atlantic Hurricanes	Scott A. Braun (NASA/GSFC)
8:20 AM (S4b-02)	An Advanced Dropsonde System for Hurricane Reconnaissance and Surveillance	Mark Beaubien (Yankee Environmental Systems, Inc.)
8:35 AM (S4b-03)	New Eyewall Dropsonde Observations During Rapid Intensification Events in Super-Typhoons Megi (2010) and Jangmi (2008)	Peter G. Black (SAIC/NRL)
8:50 AM (S4b-04)	Analysis of the Impact of Supplemental Dropwindsonde and Rawinsonde Observations on Model Track Forecasts of Hurricane Irene (2011)	Michael J. Brennan (NCEP/NHC)
9:05 AM (S4b-05)	Improving The Ocean Data Acquisition System (ODAS) For Research Aircraft	Lynn K. Shay (University of Miami)
9:20 AM (S4b-06)	Preliminary Results from the AXBT Demonstration Project in Support of Hurricane Coupled Modeling Products and Improvement in Guidance to NHC Hurricane Specialists	CMDR Elizabeth Sanabia (United States Naval Academy)
9:35 AM (S4b-07)	2012 Plans for NOAA’s Intensity Forecast Experiment (IFEX)	Shirley T. Murillo (AOML/HRD)
9:50 AM (S4b-08)	Pre-Depression Investigation of Cloud Systems in the Tropics (PREDICT) Experiment: Scientific Basis, New Analysis Tools and Some First Results	Michael T. Montgomery (Naval Postgraduate School)

10:05 AM Morning Break (10:05-10:30 AM)

Session 5a: Tropical Cyclone Model Development and Technology Transfer, Part 1

Session Leaders - TBD		
10:30 AM (S5a-01)	FY2012 Implementation of Advanced High-Resolution Triple-Nested HWRF at NCEP/EMC	Vijay Tallapragada (NCEP/EMC)
10:45 AM (S5a-02)	FNMOCC Collaborations in Tropical Cyclone Forecasting and Aids	Charles E. Skupniewicz (Fleet Numerical Meteorology and Oceanography Center)
11:00 AM (S5a-03)	Advancing NOAA's HWRF Prediction System Through Enhanced Physics of the Air-Sea Coupling And Ocean Model Initialization	Isaac Ginis (University of Rhode Island)
11:15 AM (S5a-04)	Comparison and Evaluation of Two ABL Mixing Schemes in HWRF	Jian-Wen Bao (NOAA/ESRL)
11:30 AM (S5a-05)	Creation of a Statistical Ensemble for Tropical Cyclone Intensity Prediction	Kate Musgrave (Colorado State University)
11:45 AM (S5a-06)	Real-time ACCESS-TC: Vortex Specification, 4DVAR Initialization, Verification and Structure Diagnostics	Noel Davidson (Centre for Australian Weather and Climate Research)
12:00 PM (S5a-07)	The Potential Benefit of HIWRAP Doppler Radar Radial Velocity Data During HS3: An Example From Hurricane Karl (2010)	Jason Sippel (Morgan State University and NASA/GSFC)

12:15 PM Lunch on your own (12:15 PM - 1:15 PM)

Sessions 5b and 6 Coordinator: TBD

Session 5b: Tropical Cyclone Model Development and Technology Transfer, Part 2

Session Leaders - TBD		
1:15 PM (S5b-01)	Past, Present and Future of Coupled HYCOM-HWRF System (HyHWRF)	Hyun-Sook Kim (NCEP/EMC)
1:30 PM (S5b-02)	NCEP Ocean Modeling in Support of TC Forecasting	Hendrik Tolman (NCEP/EMC)
1:45 PM (S5b-03)	An Overview of Recent COAMPS-TC Development and Real-Time Tests	James Doyle (NRL)
2:00 PM (S5b-04)	Diagnostic Verification of COAMPS-TC Performance for the HFIP Retrospective Forecasts	Jonathan R. Moskaitis (NRL)
2:15 PM (S5b-05)	Evaluation of Experimental Models for Tropical Cyclone Forecasting in Support of the NOAA Hurricane Forecast Improvement Project (HFIP)	Barbara G. Brown (NCAR)
2:30 PM (S5b-06)	Performance of Operational and HFIP experimental Global Models during the HFIP 2011 Summer Demo and the Track Intensity Error Relationship	Mike Fiorino (ESRL/Global Systems Division)
2:45 PM (S5b-07)	Community Support and Testing of the Hurricane WRF model at the Developmental Testbed Center	Ligia Bernardet (ESRL/Global Systems Division)
3:00 PM (S5b-08)	Systematically Merged Atlantic Regional Temperature and Salinity (SMARTS) Climatology: Application to Hurricane Earl	Lynn K. Shay (University of Miami)

3:15 PM Afternoon Break (3:15-3:45 PM)

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Session 6: Other Research to Improve the Prediction of Tropical Cyclone Intensity and Structure, Track, Precipitation, Coastal and Inland Inundation

Session Leaders - TBD		
3:45 PM (S6-01)	Thermodynamic Aspects of Tropical Cyclone Spin-up	Zhuo Wang (University of Illinois)
4:00 PM (S6-02)	Diurnal Pulsing of Tropical Cyclones: An Overlooked Yet Fundamental TC Process?	Jason P. Dunion (AOML/HRD)
4:15 PM (S6-03)	Wind Speed Retrieval from Digital Communication and GPS Signals	Rashmi Shah (Purdue University)
4:30 PM (S6-04)	A New Approach to Limited Area Forecasting of Tropical Cyclone Intensity	William E. Lewis (University of Wisconsin)
4:45 PM (S6-05)	CLIQR: A Climatological Analog Matcher to Ongoing Tropical Cyclone	David Roth (NWS/HPC)

5:00 PM **Invited Speaker** (IS-03) - Mr. Brad Rippey (5:00-5:15 PM)
 Meteorologist, US Department of Agriculture, Office of the Chief Economist
 "Seven Years Later, Florida's Citrus Production Continues to Languish"

7:00 PM **Conference Banquet** (Cash Bar at 6:30 PM)
 Banquet Address (~7:45 PM)
Mr. Bill Walsh, Lead Meteorologist, Channel 5 (CBS), WCSC, Charleston, SC
 Hagemeyer Award Presentation
Mr. Raymond Tanabe, Director, Central Pacific Hurricane Center/Honolulu WFO

~8:30 PM End of Day 3 Events

DAY 4 - Thursday, March 8, 2012

8:00 AM Opening/Administrative Remarks *Ms. Sabrina Taijeron (OFCM/STC)*
 8:05 AM *Session Coordinator: Ms. Maria Pirone (Harris Corporation)*

Effective Communications: An important key to Saving Lives

8:15 AM	Invited Speaker - TBD	
8:30 AM	Panel 1: Effective Communications, Part 1: Are They Hearing What We're Saying? Moderator: TBD Panelists: Mr. Dave Jones (Storm Center Communications, Inc.) Ms. DeeDee Bennett (Oklahoma State University) Panelist #3 - TBD	
9:25 PM	Panel 2: Effective Communications, Part 2: Will They Respond in the Intended Way? Moderator: TBD Panelists: Mr. Frank Lucia (Georgia Institute of Technology) Dr. B. Lee Lindner (College of Charleston) Panelist #3 - TBD	

10:20 AM Morning Break (10:20 – 10:50 AM)

Final Plenary Session

10:50 AM	Conference Wrap-Up	Dr. Paul Try (OFCM/STC)
11:10 AM	Effective Communications Wrap-up	TBD
11:25 AM	WG/HWSOR: Action Item Review	Dr. Edward Rappaport (NCEP/NHC) Chairperson, WG/HWSOR
11:40 AM	Final Wrap-up	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
12:00 PM	Adjourn	

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POSTERS FOR THE 66 TH INTERDEPARTMENTAL HURRICANE CONFERENCE		
Poster Session: Monday, March 5, 2012, 6:30-8:30 PM (<i>cash bar and hors d'oeuvres</i>)		
P01	Changes to the National Hurricane Center (NHC) Tropical Disturbance Satellite Rainfall Estimates	Jessica Schauer and Wallace Hogsett (NCEP/NHC)
P02	Towards Predicting Short-Term Intensity Using TC Structure Patterns from Recon and HURSAT Data	Josh Cossuth and Robert Hart (Florida State University)
P03	Storm-Centric View of Tropical Cyclone Cold Wakes	Joel Scott, Chelle Gentemann, and Deborah Smith (Remote Sensing Systems)
P04	A Web-based Interactive Interface for Researching and Forecasting Tropical Cyclone Genesis and Intensity Using the Deviation Angle Variance Technique	Elizabeth A. Ritchie ¹ , Wiley Black ¹ , J. Scott Tyo ¹ , M. F. Pineros ¹ , Kimberly M. Wood ¹ , Oscar Rodriguez-Herrera ¹ , Matthew E. Kucas ² , and James W. E. Darlow ² (¹ University of Arizona, ² Joint Typhoon Warning Center)
P05	Development of a Hybrid Statistical-Dynamical Wind Speed Probability Model	Andrea Schumacher ¹ , Mark DeMaria ² , Kate Musgrave ¹ and John Knaff ² (¹ Colorado State University/CIRA, ² NOAA/NESDIS)
P06	Evaluation of HWRF-Simulated Near-Surface Quantities to Improve Physics Parameterizations (Presenter: Brad Klotz (UM/RSMAS/CIMAS))	Eric W. Uhlhorn ¹ , Joseph J. Cione ¹ , Sundararaman G. Gopalkrishnan ¹ , Jun Zhang ¹ , Thiago Quirino ¹ , and Vijay Tallapragada ² (¹ AOML/HRD, ² NCEP/EMC)
P07	A Case Study of the Intensification of Hurricane Maria (2011) in a Real-Time COAMPS-TC Prediction	Jonathan R. Moskaitis, Y. Jin, and J. Doyle (NRL)
P08	Diagnostic Verification of Experimental Model Forecasts for Hurricane Irene and Maria	Barbara G. Brown, Paul A. Kucera, Louisa Nance, and Christopher L. Williams (National Center for Atmospheric Research)
P09	Analysis of Aircraft Observations in Tropical Cyclones Using SAMURAI	Michael M. Bell (Naval Postgraduate School)
P10	A Comparison of Modeled and Observed Ocean Heat Content Using In-Situ Ocean Observations Collected During Operational Weather Reconnaissance Flights in Tropical Storms Don and Emily (2011)	Elliot Hoy, Ian Park, and Elizabeth Sanabia (United States Naval Academy)
P11	An Advanced Dropsonde System for Hurricane Reconnaissance and Surveillance	¹ Mark Beaubien, ² Lee Harrison and ³ Peter Black (¹ Yankee Environmental Systems, Inc., ² State University of New York at Albany, ³ Naval Research Lab/SAIC, Inc.)