

63rd Interdepartmental Hurricane Conference
Tropical Cyclone Research: Identifying Gaps and Focusing Research on Operational Needs

AGENDA

Monday, March 2, 2009

9:00 AM Early Registration (9:00 AM-12:30 PM)

9:00 AM	Working Group for Hurricane and Winter Storms Operations and Research Meeting	Dr. Edward Rappaport (NHC), Chairperson
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Opening Session

12:30 PM	Conference Opening and Introduction of Mayor	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
12:40 PM	Welcome/Opening Remarks	The Honorable Rick Baker Mayor, St. Petersburg, Florida
12:50 PM	Introductory Comments and Introduction of Panel	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
1:10 PM	<p>Panel: <i>Tropical Cyclone Partnership Alliance: A Senior Leader Perspective</i></p> <p>Moderator: Dr. Kelvin K. Droegemeier, Associate VP for Research and Director, Sasaki Institute, University of Oklahoma</p> <p>Panelists:</p> <p>Dr. Richard W. Spinrad, Assistant Administrator for Oceanic and Atmospheric Research, NOAA</p> <p>Mr. Robert Winokur, Technical Director, Office of the Oceanographer and Navigator of the Navy</p> <p>Dr. Jack Kaye, Associate Director for Research, Earth Science Division, NASA</p> <p>Colonel Mark Zettlemyer, Chief, Integration, Plans & Requirements, Directorate of Weather, Headquarters Air Force</p> <p>RDML David Titley, Commander, Naval Meteorology and Oceanography Command</p> <p>Dr. John “Jack” Hayes, Assistant Administrator for Weather Services, NOAA</p>	
2:50 PM	Introduction of Federal Agency Lead Representatives	Mr. Samuel P. Williamson Federal Coordinator for Meteorology

3:05 PM Afternoon Coffee/Soda Break (3:05-3:30 PM)

Session 1 Coordinator: Mr. Mark Welshinger (OFCM)

Session 1: The 2008 Tropical Cyclone Season in Review

Session Leaders Dr. Steve Lyons (The Weather Channel) and CAPT Grant Cooper (NMFC/JTWC)		
3:30 PM	A Year of Destructive Landfalls: Overview of the 2008 Atlantic Hurricane Season	Jack Beven (NHC) and D. Brown
3:45 PM	Overview of the 2008 Eastern North Pacific Hurricane Season	Richard Pasch (NHC) and E. Blake
4:00 PM	2008 Atlantic and Eastern North Pacific Forecast Verification	James Franklin (NHC)
4:15 PM	Central Pacific 2008 Hurricane Season Summary	Jim Weyman (CPHC)
4:30 PM	A Review of the Joint Typhoon Warning Center 2008 Tropical Cyclone Season	Mr. Robert J. Falvey (JTWC)
4:45 PM	53d Weather Reconnaissance Squadron Review of the 2008 Hurricane Season	Lt Col Rich Harter (53 WRS)
5:00 PM	NOAA Aircraft Operations Center (AOC) 2008 Seasonal Summary and Future Plans	James D. McFadden (NOAA AOC) and J. Parrish

6:30 PM Reception/Icebreaker (6:30-8:00 PM)

Tuesday, March 3, 2009

7:00 AM Continental Breakfast

7:40 AM Opening/Administrative Remarks

Dr. Paul Try (OFCM/STC)

Invited Presentations

7:45 AM Mr. Michael Buckley

Acting Assistant Administrator, Mitigation Directorate, DHS/FEMA

8:00 AM Mr. X. William (Bill) Proenza

Director, National Weather Service Southern Region

Sessions 2 and 3 Coordinator: Dr. Paul Try (OFCM/STC)

Session 2: Workshop: Identifying Tropical Cyclone Research Needs, Progress and Gaps

8:15-10:00 AM	<p>Moderator: Dr. Elizabeth Ritchie, Associate Professor, Department of Atmospheric Sciences, University of Arizona</p> <p>Panelists: Dr. Frank Marks, Co-Chair, Working Group for Tropical Cyclone Research, NOAA AOML/HRD CAPT Michael Angove, Co-Chair, Working Group for Tropical Cyclone Research, Naval Deputy to NOAA Dr. Scott Braun, NASA/GSFC Dr. Brad Smull, NSF Dr. Rob Rogers, NOAA AOML/HRD Dr. Ronald Ferek, ONR</p>
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10:00 AM Morning Coffee Break (10:00-10:30 AM)

Session 3: Observations and Observing Strategies for Tropical Cyclones and their Environment, Part 1

Session Leaders Mr. Chris Velden (UW-CIMSS) and Dr. Mark DeMaria (NESDIS)		
10:30 AM	Examination of the Tropical Cyclone Environment through Comparison of COSMIC with Other Satellite Data	Christopher M. Hill (Northern Gulf Institute, Mississippi State University), P. Fitzpatrick, and Y. Lau
10:45 AM	The Hurricane Satellite (HURSAT) Dataset	Kenneth R. Knapp (NESDIS/NCDC)
11:00 AM	Using Remotely-Sensed Observations to Describe and Predict Tropical Cyclone Formation	Elizabeth A. Ritchie (University of Arizona), M. Piñeros, and J. Scott Tyo
11:15 AM	Moving Toward an Operational Satellite Ocean Surface Vector Winds Capability with a Dual Frequency Scatterometer	Michael Brennan (NWS/NCEP/NHC), P. Chang, Z. Jelenak, R. Knabb, and J. Sienkiewicz
11:30 AM	Developing GOES-R Tropical Cyclone Products via Proxies	John A. Knaff (NESDIS/StAR), D. Hillger, M. DeMaria, J. Gurka
11:45 AM	Measuring the Three-Dimensional Structure of Hurricanes with a Microwave Sounder	Bjorn Lambriksen (Jet Propulsion Laboratory)
12:00 PM	Arc Clouds in the Tropical Cyclone Environment	Jason P. Dunion (NOAA/AOML/HRD), C. Velden, and J. Hawkins

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

Sessions 4 and 5 Coordinator: Mr. Mike Babcock (OFCM)

Session 4: Observations and Observing Strategies for Tropical Cyclones and their Environment, Part 2

Session Leaders Ms. Justyna Nicinska (NOAA/OAR) and Mr. Jeffrey Hawkins (NRL-Monterey)		
1:15 PM	A New Approach for Continuous Mapping of Tropical Cyclone ABL Winds to the Surface from Research and Reconnaissance Aircraft	James Carswell (Remote Sensing Solutions), P. Chang, S. Frasier
1:30 PM	Status of the HIWRAP and URAD Conical Scan Radars for Wind Measurements	Gerald Heymsfield (NASA Goddard Space Flight Center), L. Li, J. Carswell, D. Schaubert, J. Cretico, and M. Vega
1:45 PM	Results of First Flight Tests of the Wide Swath Radar Altimeter (WSRA) During the 2008 Hurricane Season	Ivan PopStefanija (ProSensing, Inc.)
2:00 PM	Operational Use of Near-Real-Time Sea Surface Directional Wave Spectra from NOAA Wide Swath Radar Altimeter (WSRA) Range Measurements	Edward J. Walsh (NASA Goddard Space Flight Center)
2:15 PM	Transmission of Airborne Doppler Data and Analyses to the Ground from the NOAA WP-3D Aircraft during the 2008 Hurricane Season: Quality Control, Analysis and Superobs	John Gamache (NOAA/AOML/HRD), P. Dodge, F. Marks, Jr., F. Zhang, and Y. Weng
2:30 PM	First Results from a High Altitude Stepped Frequency Microwave Radiometer	Alan S. Goldstein (NOAA/Aircraft Operations Center), and E. Uhlhorn
2:45 PM	Simulation of the Impact of New Aircraft- and Satellite-Based Ocean Surface Wind Measurements on Estimates of Hurricane Intensity	Eric Uhlhorn (NOAA/AOML/HRD), R. Atlas, P. Black, C. Buckley, S. Chen, S. El-Nimri, R. Hood, J. Johnson, L. Jones, T. Miller, and C. Ruf

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

Session 5: Observations and Observing Strategies for Tropical Cyclones and their Environment, Part 3

Session Leaders Dr. Jim McFadden (NOAA/AOC) and Lt Col Jonathan Talbot (53 rd WRS, AFRC)		
3:30 PM	Evolving Oceanic and Atmospheric Boundary Layer Measurements During Hurricanes Gustav and Ike	Lynn K. Shay (RSMAS/UM), E. Uhlhorn, R. Lumpkin, P. Meyers, B. Jaimes, J. Brewster, and G. Halliwell

3:45 PM	Flight Test Results of a Differential Absorption Microwave Radar for Remote Sensing of Atmospheric Pressure	Roland Lawrence (Old Dominion University), S. Harrah, B. Lin, P. Hunt, and C. Lipp
4:00 PM	WISDOM System Description and Initial Test Results	Justyna Nicinska (NOAA/OAR), and A. MacDonald
4:15 PM	Coordinated use of Targeted Observations to Improve Tropical Cyclone Track Forecasts	Sharanya Majumdar (RSMAS/UM), S. Aberson, P. Harr, S. Jones, R. Langland, T. Nakazawa, M. Peng, C. Reynolds, D. Richardson, C. Velden, M. Weissmann, C.-C. Wu, M. Yamaguchi
4:30 PM	A New Strategy for Tropical Cyclone (TC) Reconnaissance Based on Western Pacific TCS08 Proof of Concept	Peter G. Black (NRL Monterey/SAIC), J. Hawkins, and R. Elsberry

4:45 PM One-Minute Poster Previews
Coordinator: Lt Col Sabrina Taijeron (Air Force/OFCM)

5:20 PM **OFCM Staff Meeting** (5:20-5:45 PM)

5:45 PM Poster Session (5:45-7:45 PM) Plus Snacks and Cash Bar

P01	Mapping Surface Winds Using Ocean Acoustic Interferometers	Cécile Penland (NOAA/ESRL) and A. Voronovich
P02	Surface Wind Vector and Rain Rate Observation Capability of the Future Hurricane Imaging Radiometer (HIRAD)	Timothy Miller (NASA Marshall Space Flight Center), R. Atlas, M. C. Bailey, P. Black, S. El-Nimri, R. Hood, M. James, J. Johnson, L. Jones, C. Ruf, and E. Uhlhorn
P03	Methodology for the Determination of 12-Foot Sea Radii for Tropical Cyclones	Jessica Schauer Clark (Tropical Analysis and Forecast Branch), H. Cobb, and J. Cangialosi
P04	Sea Surface Roughness Measurements Using GPS Reflectometry in Hurricane Ike (2008)	Valery U. Zavorotny (NOAA/ESRL), D. M. Akos, and E. J. Walsh
P05	Development of Miniature SFMR Receiver Modules and the Compact-SFMR	Ivan PopStefanija (ProSensing Inc.)
P06	The HFIP High Resolution Hurricane Test	Ligia Bernardet (NOAA/ESRL, also affiliated with Systems Research Group), L. Nance, B. Brown, S. Bao, C. Harrop, J. Wolff, and T. Jensen
P07	Coupling a High Resolution Hurricane Storm Surge Model to Operational Weather and Ocean Prediction Systems	Yuji Funakoshi (NOAA/NOS/CSDL), J. Feyen, F. Aikman, C. Lozano, and H. Tolman

P08	An Integrated Tropical Cyclone Information System for Research	S. Hristova-Veleva (Jet Propulsion Laboratory), Y. Chao, Z. Haddad, B. Knosp, B. Lambriksen, P. P. Li, D. Vane, and Q. A. Vu
P09	Using NASA's Real Time Mission Monitor to Manage and Conduct Airborne Science Missions	Michael Goodman (NASA), R. Blakeslee, J. Hall, Y. He, K. Regner, and H. Conover
P10	Use of Total Precipitable Water to Aid Hurricane Rainfall Prediction	Haiyan Jiang (University of Utah), E. J. Zipser, J. B. Halverson, and R. Rogers
P11	Strong Surface Wind Gusts Associated With Heavy Squalls within Hurricane Danny's (1997) Eyewall	Keith G. Blackwell (Coastal Weather Research Center, University of South Alabama)
P12	Hurricanes at Landfall: Rain-Field Sizes and Their Relationship to Environmental Conditions	Corene Matyas (University of Florida)
P13	Challenges in the Prediction of the Life Cycle of Typhoon Sinlaku (2008)	William A. Komaromi (RSMAS/UM), M. Yamaguchi, E. D. Rappin, S. J. Majumdar, and D. S. Nolan
P14	The Impact of the Saharan Air Layer on the Development of Hurricanes Irene (2005) and Helene (2006)	Scott A. Braun (NASA/GSFC), J. Sippel, and D. Nolan
P15	Evaluating Ensemble Track Forecasts of Tropical Cyclones	Peter Finocchio (RSMAS/UM) and S. Majumdar
P16	The Communication of Tropical Cyclone Emergency Information through Use of Geographic Information System (GIS) Products	Alison Krautkramer (NOAA/NWS/NHC), C. Lauer, C. Sisko, C. Sampson, A. Schrader, and E. Fukada
P17	The Near Real-Time and Science Study Satellite Product Suite for the Tropical Cyclone Structure (TCS-08) Field Project	Jeff Hawkins (Naval Research Laboratory, Monterey), J. Turk, K. Richardson, R. Bankert, C. Mitrescu, C. Velden, D. Herndon, T. Wimmers, T. Olander, S. Miller, and J. Kent
P18	Improved GOES Utilization for Tropical Cyclone Forecasting	Mark DeMaria (NOAA/NESDIS), J. A. Knaff, A. B. Schumacher, J. Kaplan, D. P. Brown, G. M. Gallina, and J. P. Kossin
P19	The International Best Track Archive for Climate Stewardship (IBTrACS)	Kenneth R. Knapp (NOAA/NCDC), M. C. Kruk, and D. H. Levinson
P20	Mapping Hurricane Inland Storm Tides	Mike Turco (USGS), J. W. East, M. E. Dorsey, B. D. M. B. E. McCallum, J. L. Pearman, A. H. Sallenger, R. R. Holmes, Jr., D. P. Turnipseed, C. Berenbrock, R. R. Mason, Jr.

Wednesday, March 4, 2009

7:00 AM Continental Breakfast

7:50 AM Opening/Administrative Remarks *Lt Col Sabrina Taijeron (Air Force/OFCM)*

Sessions 6 and 7 Coordinator: Lt Col Sabrina Taijeron (Air Force/OFCM)

Session 6: Tropical Cyclone Model Development and Technology Transfer, Part 1

Session Leaders Dr. Robert Gall (NOAA) and Dr. James Goerss (NRL Monterey)		
8:00 AM	Advancement of the HWRF for Next Generation Hurricane Prediction at NCEP's Environmental Model Center	Naomi Surgi (NCEP/EMC), R. Tuleya, Q.-Lui, V. Tallapragada, and Y. Kwon
8:15 AM	Hurricane Model Transitions to Operations at NCEP/EMC: A Joint Hurricane Testbed Program	Robert E. Tuleya (NCEP/EMC/SAIC), Y. Kwon, V. Tallapragada, Z. Zhang, Y. Wu, Q. Liu, J. O'Connor, and N. Surgi
8:30 AM	Developing Coupled Tropical Cyclone-Wave-Ocean Models for Transition to Operations	Isaac Ginis (University of Rhode Island), Y. Fan, R. Yablonsky, and B. Thomas
8:45 AM	Coupled Hurricane Atmosphere-Ocean Modeling System (HWRF-HYCOM) and Hurricane Forecast Performance	Hyun-Sook Kim (NCEP/EMC), B. Hundermark, D. Iredell, Y. Kwon, L. Liu, Q. Liu, C. Lozano, J. O'Connor, N. Surgi, V. Tallapragada, B. Tuleya, and Z. Zhan
9:00 AM	Evaluation and Improvement of Ocean Model Parameterizations for NCEP Operations: Ivan (2004)	Lynn K. Shay (RSMAS/UM), G. Halliwell, J. Brewster, and W. J. Teague
9:15 AM	Upgrades to the GFDL Model for 2009 and Beyond	Morris Bender (GFDL/NOAA), I. Ginis, R. Yablonsky, B. Thomas, C. Dickerman, and R. Stocker
9:30 AM	Application of COAMPS-TC to TCS-08	Richard M. Hodur (NRL Monterey/SAIC), S. Chen, J. Cummings, J. Doyle, T. Holt, Y. Jin, C.-S. Liou, K. Sashegyi, and J. Schmidt

9:45 AM Morning Break (9:45-10:15 AM)

Session 7: Tropical Cyclone Model Development and Technology Transfer, Part 2

Session Leaders Dr. Naomi Surgi (NCEP) and Dr. Lynn K. Shay (RSMAS/UM)		
10:15 AM	Ensemble, Corrected Consensus, and Weighted Consensus TC Track Forecasts	James S. Goerss (NRL Monterey)

10:30 AM	TC Dressing: A Probabilistic Approach to Providing State-Dependent, Non-Isotropic Forecast Track Error Guidance	Jim Hansen (NRL Monterey) and Jim Goerss
10:45 PM	Using Partnerships to Meet NOAA's Needs for its Next Generation Storm Surge System	Jesse Feyen (NOAA/NOS/CSDL), F. Aikman, M. Erickson, H. Tolman, W. Shaffer, A. Taylor, M. Weeks, J. Kuhn, K. Kuipers, J. Rhome, and E. Rappaport
11:00 AM	Sensitivity of the HWRF Model Prediction for Hurricane Ophelia (2005) to the Choice of the Cloud and Precipitation Scheme	Yuqing Wang (International Pacific Research Center, University of Hawaii at Manoa), and Q. Li
11:15 AM	Experiments of Hurricane Initialization with Airborne Doppler Radar Data for the Advanced-research Hurricane WRF (AHW) Model	Patrick J. Fitzpatrick (Mississippi State University), Q. Xiao, X. Zhang, C. Davis, J. Tuttle, and G. Holland
11:30 AM	Recent Trends In Dynamical Medium-Range Tropical Cyclone Track Prediction And The Role Of Resolution Versus Physics In The ECMWF Model	Mike Fiorino (NOAA/ESRL)

11:45 AM Lunch (on your own) (11:45 AM-1:00 PM)

Sessions 8 and 9 Coordinator: Mr. Floyd Hawth (OFCM/STC)

Session 8: Tropical Cyclone Model Development and Technology Transfer, Part 3

Session Leaders Dr. Hyun-Sook Kim (NCEP/EMC) and Dr. Richard Hodur (NRL Monterey/SAIC)		
1:00 PM	Model Development for Typhoons at the Japan Meteorological Agency	Munehiko Yamaguchi (RSMAS/UM), T. Komori, M. Nagata, and T. Nakazawa
1:15 PM	The Hurricane Research System: Development of a High Resolution, Non-Hydrostatic Model for Addressing the Need for the Next Generation of Improved Tropical Cyclone Intensity Prediction	S. G. Gopalakrishnan (NOAA/AOML/HRD), X. Zhang, K. Yeh, R. Rogers, J.-W. Bao, F. Marks, S. Aberson, and R. Atlas
1:30 PM	Impact of Horizontal Resolution on Rapid Intensity Change Forecasts using the Hurricane Research System	Robert Rogers (NOAA/AOML/HRD), S. Gopalakrishnan, K. Yeh, and X. Zhang
1:45 PM	Impact of Sea Spray on the Balance of Turbulent Kinetic Energy in the Hurricane Surface Boundary Layer	Jian-Wen Bao (NOAA/ESRL), C. W. Fairall, S. A. Michelson, L. Bianco

2:00 PM	Evaluation of Planetary Boundary Layer Parameterizations in Tropical Cyclones by Comparison of In-Situ Observations and High-Resolution Simulations of Hurricane Isabel (2003)	David S. Nolan (RSMAS/UM), J. A. Zhang, and D. P. Stern
2:15 PM	An Integrated Tropical Cyclone Information System for Research	S. Hristova-Veleva (Jet Propulsion Laboratory), Y. Chao, Z. Haddad, B. Knosp, B. Lambriksen, P. P. Li, D. Vane, and Q. A. Vu

2:30 PM Afternoon Break (2:30-3:00 PM)

Session 9: Other Research to Improve the Prediction of Tropical Cyclone Intensity and Structure, Track, Precipitation, Coastal and Inland Inundation, Part 1

Session Leaders Dr. Frank Marks (AOML/HRD) and CAPT John O'Hara (COMPACFLT N3WX)		
3:00 PM	Differential O2 Absorption Barometric Pressure Radar (DIAR_BAR): Improvements in Tropical Storm Forecasts	Qilong Min (State University of New York, Albany, NY), B. Lin, Y. Hu, W. Gong, S. Harrah, R. W. Lawrence, and D. Fralick
3:15 PM	Astronomic Tides, Flows and Hurricane Storm Surge Modeling of the Pascagoula River, Mississippi	Scott C. Hagen (University of Central Florida), N. Takahashi, and Q. Wang
3:30 PM	Toward Modeling of River-Estuary-Ocean Interactions to Enhance Operational River Forecasting in the NOAA National Weather Service	Hassan Mashriqui (NOAA, National Weather Service, Office of Hydrologic Development), S. Reed, and C. Aschwanden
3:45 PM	Sensitivity of an Asymmetric Gradient Wind Model to Sources of Tropical Cyclone Track Information and Implications for Storm Surge Prediction	Craig A. Mattocks (University of North Carolina, Morehead City, NC), and Cristina Forbes
4:00 PM	Surface Windfields and Roughness Derived from Mobile Radar Winds	Joshua Wurman (Center for Severe Weather Research), and K. Kosiba
4:15 PM	Performance of an Objective Model for Identifying Secondary Eyewall Formation in Hurricanes	Matthew Sitkowski (UW-CIMSS) and J. Kossin

5:15 PM **OFCM Staff Meeting** (5:15-5:45 PM)

7:00 PM **Conference Banquet** (Cash Bar at 6:30 PM)

Banquet Address (~7:45 PM): Vice Admiral Roger T. Rufe, Jr., USCG (Ret.)
Director, Operations Coordination & Planning, DHS

Presentation of the Hagemeyer Award

Thursday, March 5, 2009

7:00 AM Continental Breakfast

7:50 AM Opening/Administrative Remarks

Mr. Floyd Hawth (OFCM/STC)

Sessions 10 - 11 Coordinator: Dr. Paul Try (OFCM/STC)

Session 10: Other Research to Improve the Prediction of Tropical Cyclone Intensity and Structure, Track, Precipitation, Coastal and Inland Inundation, Part 2

Session Leaders Dr. John Gaynor (NOAA/OAR) and Dr. Peter Black (NRL Monterey/SAIC)		
8:00 AM	Evaluation of Hurricane Mitigation Hypotheses through an Interactive Program of Observational Analyses and Numerical Simulations	William Woodley (Woodley Weather Consultants), W. Cotton, J. Golden, A. Khain, D. Rosenfeld, and I. Ginis
8:15 AM	Review of NOAA Intensity Forecasting Experiment (IFEX) 2008 Accomplishments and Preliminary Plans for 2009	Eric Uhlhorn (NOAA/AOML/HRD), F. Marks, J. Gamache, S. Aberson, and J. Dunion
8:30 AM	The NHC Visiting Scientist Program	Chris Landsea (NOAA/NWS/NHC)
8:45 AM	Using NASA's Real Time Mission Monitor to Manage and Conduct Airborne Science Missions	Michael Goodman (NASA), R. Blakeslee, J. Hall, Y. He, K. Regner, and H. Conover
9:00 AM	Bi-Static GPS Results for Hurricane Seasons 2007 and 2008 with Implications to High Altitude UAV Operations	Stephen J. Katzberg (NASA Langley Research Center)

9:15 AM Morning Coffee Break (9:15-9:45 AM)

Session 11: Joint Hurricane Testbed: Project Updates and Plans for the Future

Session Leaders Dr. Chris Landsea (NHC) and Ms. Shirley Murillo (HRD)		
9:45 AM	The Joint Hurricane Testbed (JHT): 2009 Update	Jiann-Gwo Jiing (Joint Hurricane Testbed), and C. Landsea and S. Murillo
10:00 AM	Validation and Processing Tools for the Air Force Reserve Command 53rd Weather Reconnaissance Squadron WC-130J Multi-Aircraft SFMR Systems	James Carswell (Remote Sensing Solutions), D. Robinson, P. Chang, and E. Uhlhorn
10:15 AM	An Improved Wind Probability Program: A Year 2 Joint Hurricane Testbed Project Update	Mark DeMaria (NOAA/NESDIS), S. Kidder, B. Sampson, J. Knaff, C. Lauer, and C. Sisko

10:30 AM	Web-ATCF, User Requirements, and Intensity Consensus	Charles R. Sampson (NRL Monterey) and A. Schrader
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Sessions 12 - 13 Coordinator: Mr. Floyd Hauth (OFCM/STC)

Session 12: Products, Services, and Lessons Learned during the 2008 Tropical Cyclone Season, Part 1

Session Leader Mr. Walt Dickerson (Mobile County EMA)		
10:45 AM	SAB 2008 Year in Review	Michael Turk (NOAA/NESDIS Satellite Analysis Branch)
11:00 AM	The Determination of Optimal Thresholds of Tropical Cyclone Incremental Wind Speed Probabilities to Support Expressions of Uncertainty in Text Forecasts	Pablo Santos (NOAA/NWS), M. DeMaria, and D. Sharp
11:15 AM	Envirocast® Vision™ TouchTable: Linking Federal Partners to Collaborate, Communicate and Visualize the Hurricane Threat to Decision Makers, Emergency Managers and the Public	Mr. Dave Jones (StormCenter Communications, Inc.)

11:30 AM Lunch (on your own) (11:30 AM-12:30 PM)

Session 13: Products, Services, and Lessons Learned during the 2008 Tropical Cyclone Season, Part 2

Session Leader Mr. Tim Schott (NOAA/NWS)		
12:30 PM	The Digital Hurricane Consortium	John Schroeder (Texas Tech University); M. Biggerstaff, D. Cecil, K. Gurley, A. Kennedy, M. Levitan, F. Masters, M. Powell, and J. Wurman
12:45 PM	Application of the National Hurricane Center Tropical Cyclone Wind Speed Probability Product to Quantifying Potential Impacts of Hurricane Forecast Improvements	Andrea Schumacher (CIRA, Colorado State University), M. DeMaria, D. Brown, and E. Rappaport
1:00 PM	A Proposed New Storm Surge Scale	Pat Fitzpatrick (Mississippi State University), N. Tran, Y. Lau, Y. Li, and C. Hill

1:15 PM Afternoon Break (1:15-1:30 PM)

Final Plenary Session Coordinator: Mr. Mark Welshinger (OFCM)

Final Plenary Session

1:30 PM	Opening/Administrative Remarks	Mr. Mark Welshinger (OFCM)
1:35 PM	WG/HWSOR: Action Item Review	Dr. Edward Rappaport (NHC) Chairperson, WG/HWSOR
1:55 PM	Workshop Wrap-up <i>Workshop: Identifying Tropical Cyclone Research Needs, Progress and Gaps</i>	Dr. Frank Marks (NOAA/AOML/HRD)
2:10 PM	Final Wrap-up	Mr. Samuel P. Williamson Federal Coordinator
2:30 PM	Adjourn	