

65th Interdepartmental Hurricane Conference

Ocean and Atmospheric Influences on Tropical Cyclone Predictions: Challenges and Recent Progress

AGENDA

Monday, February 28, 2011

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

8:00 AM	Working Group for Hurricane and Winter Storms Operations and Research Meeting	Dr. Edward Rappaport (NCEP/NHC) Chairperson
---------	---	--

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 Carlos Alvarez Mayor, Miami-Dade County, Florida
12:45 PM	Introductory Comments and Introduction of Speakers	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
1:00 PM	<i>Special Opening Session Presentation</i>	
1:10 PM	<i>Invited Comments</i> Major Phillip May Director, FEMA Region IV	
1:20 PM	<p>Panel: <i>Advances in Tropical Cyclone Predictions: A Senior Leader Perspective</i></p> <p>Moderator: Dr. Kerry A. Emanuel Director, Program in Atmospheres, Oceans, and Climate, and Professor of Atmospheric Science, MIT</p> <p>Panelists:</p> <p>Dr. John “Jack” Hayes, Assistant Administrator for Weather Services, NOAA Colonel John Egentowich, Air Force Deputy Director of Weather Captain Michael Angove, Commanding Officer, U.S. Naval Maritime Forecast Center/Joint Typhoon Warning Center</p>	
2:15 PM	Introduction of Federal Agency Lead Representatives	Mr. Samuel P. Williamson Federal Coordinator for Meteorology

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

Sessions 1 and 2 Coordinator: Mr. Mark Welshinger (OFCM)

Session 1: Comparisons of the 2008 and 2010 Snapshots of Tropical Cyclone R & D

3:00-3:30 PM	Session Leader: Dr. Haiyan Jiang, Department of Earth & Environment, Florida International University
	----- Dr. Frank Marks , Co-Chair, Working Group for Tropical Cyclone Research and Director, Hurricane Research Division (NOAA/AOML) Dr. Ronald Ferek , Co-Chair, Working Group for Tropical Cyclone Research and Program Officer, Marine Meteorology Program (ONR)

Session 2: The 2010 Tropical Cyclone Season in Review

Session Leaders Mr. William Birkemeier (USACE) and Dr. Richard Pasch (NCEP/NHC)		
3:30 PM	The 2010 Atlantic Hurricane Season: Extremely Active but no U.S. Hurricane Landfalls	Eric Blake (NCEP/NHC) and J. Beven
3:45 PM	Overview of the 2010 Eastern North Pacific Hurricane Season	John P. Cangialosi (NCEP/NHC) and S. Stewart
4:00 PM	2010 Atlantic and Eastern North Pacific Forecast Verification	James Franklin (NCEP/NHC)
4:15 PM	Review of the 2010 Central Pacific Tropical Cyclone Season and Preliminary Verification	Raymond Tanabe (NWS/CPHC)
4:30 PM	A Review of the Joint Typhoon Warning Center 2010 Tropical Cyclone Season	Robert J. Falvey (JTWC)
4:45 PM	53 rd Weather Reconnaissance Squadron Review of the 2010 Hurricane Season	Capt Douglas Gautrau (53 rd WRS) and Maj Kait McLaughlin
5:00 PM	NOAA Aircraft Operations Center (AOC) 2010 Seasonal Summary and Future Plans	James D. McFadden (NOAA AOC), N. Ash, J. Parrish, P. Flaherty, A. Barry Damiano, I. Sears, J. Williams, and R. Henning

6:30 PM Poster Session (6:30-8:30 PM) (cash bar and hors d'oeuvres)
(All posters are listed at the end of this agenda)

Tuesday, March 1, 2011

7:40 AM Opening/Administrative Remarks

Mr. Floyd Hawth (OFCM/STC)

Invited Presentation

7:45 AM Mr. X. William (Bill) Proenza
Director, National Weather Service Southern Region

Sessions 3 and 4 Coordinator: Mr. Floyd Hawth (OFCM/STC)

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

Session Leader Mr. Chris Velden (UW-CIMSS) and Dr. Mark DeMaria (NESDIS)		
8:00 AM	Microwave Sounder Observations during GRIP: Preliminary Results	Bjorn Lambriksen (JPL, California Institute of Technology) and S. Brown
8:15 AM	NPP Microwave Sounder-Based Tropical Cyclone Products	Andrea Schumacher (CIRA), M. DeMaria, J. Knaff, L. Zhao, and T. Schott
8:30 AM	The 2010 GOES-R Proving Ground at the National Hurricane Center	Jack Beven (NCEP/NHC), M. Brennan, M. DeMaria, J. Knaff, C. Velden, and J. Dunion
8:45 AM	Development and Validation of a Capability for Wide-Swath Storm Observations of Ocean Surface Wind Speed	Timothy L. Miller (NASA Marshall Space Flight Center), M. W. James, W. L. Jones, C. S. Ruf, E. W. Uhlhorn, C. D. Buckley, S. Biswas, G. Shah, and R. E. Hood
9:00 AM	Developments in 2010 in In-Flight Real-Time Reporting of the Directional Ocean Wave Spectra using Wide Swath Radar Altimeter (WSRA) from the NOAA WP-3D Hurricane Reconnaissance Aircraft	Ivan PopStefanija (ProSensing) and E. J. Walsh
9:15 AM	NOAA Proof of Concept Demonstrations of Hurricane Observing Strategies using Unmanned Aircraft Systems	Michael Black (AOML/HRD), R. Hood, R. Atlas, F. Marks, S. Koch, R. Rogers, J. Cione, E. Uhlhorn, C. Landsea, G. Wick, Y. Xie, P. Hall, N. Ash, and P. Eastman
9:30 AM	Surface-Reflected GPS Wind Speed Sensing Results for 2010 Atlantic Season	Michael S. Grant (NASA Langley Research Center), S. J. Katzberg, and J. P. Dunion

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

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

Session Leaders Dr. Jim McFadden (NOAA/AOC) and Lt Col Jonathan Talbot (53 rd WRS, AFRC)		
10:15 AM	Real-Time Airborne Ocean Measurements and Predictions of Loop Current Eddy Shedding During the Deepwater Horizon Oil Spill: Implications for Hurricane Intensity Forecasting	Lynn K. Shay (RSMAS/UM), B. Jaimes, J. K. Brewster, P. Meyers, C. McCaskill, S. Paul, E. W. Uhlhorn, F. D. Marks, and G. R. Halliwell
10:30 AM	First Flights of HIWRAP During GRIP	Gerald Heymsfield (NASA Goddard Space Flight Center), L. Li, J. Carswell, M. Mclinden, M. Perrine, L. Tian, A. Reynolds, and S. Guimond
10:45 AM	WISDOM Intensity Program-Weather Hurricane In-situ Sea Surface Probe (WHISSP)	Justyna Nicinska (NOAA/OAR), R. B. Chadwick, and R. Johnson
11:00 AM	New Tools for Tropical Cyclone Radar Rainfall Estimation	Dan Berkowitz (Radar Operations Center)
11:15 AM	A Two-Dimensional Velocity Dealiasing Algorithm for the WSR-88D	W. David Zittel (Radar Operations Center), Z. Jing, and N. Langlieb
11:30 AM	A Summary of New Activities to Expand the Caribbean Sounding and Surface Networks: <i>The IASCLIP and COCONet Initiatives</i>	Michael W. Douglas (NOAA/OAR/NSSL)
11:45 AM	Establishing an Improved National Capability for Collection of Extreme Storm and Flood Data	Robert R. Mason (USGS), W. Birkemeier, D. Catlett, W. Coulbourne, R. R. Holmes, A. Ramirez, W. Shaffer, and D. Turnipseed

12:00 PM Lunch (on your own) (12:00 PM-1:15 PM)

Sessions 5 and 6 Coordinator: Mr. Michael Babcock (OFCM)

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

Session Leaders Dr. James Goerss (NRL Monterey) and Dr. Hyun-Sook Kim (NCEP/EMC)		
1:15 PM	Advancements to the Operational HWRF Modeling System at EMC	Vijay Tallapragada (NCEP/EMC)
1:30 PM	Issues in Transitioning HWRF Upgrades into Operations at EMC	Robert E. Tuleya (CCPO/ODU), Y. Kwon, V. Tallapragada, Z. Zhang, Y. Wu, Q. Liu, and J. O'Connor

1:45 PM	2011 Operational HWRF Model Upgrades	Young Kwon (NCEP/EMC), V. Tallaparagada, R. Tuleya, Q. Liu, K. Yeh, Z. Zhang, S. Trahan, and J. O'Connor
2:00 PM	Major Upgrades Planned in 2011 for the GFDL Hurricane Prediction System	Morris A. Bender (NOAA/GFDL), I. Ginis, B. Thomas, and R. Yablonsky
2:15 PM	An Overview of COAMPS-TC Development and Real-Time Tests	James Doyle (NRL), R. Hodur, S. Chen, J. Cummings, E. Hendricks, T. Holt, H. Jin, Y. Jin, C.-S. Liou, J. Moskaitis, M. Peng, K. Sashegyi, J. Schmidt, and S. Wang
2:30 PM	Progress Towards Developing a Coupled Atmosphere-Wave-Ocean Framework for Research and Operational Hurricane Models	Isaac Ginis (URI), B. Thomas, R. Yablonsky, T. Hara, J. Bao, C. Fairall, and L. Bianco
2:45 PM	Evaluation and Improvement of Ocean Model Parameterizations for NCEP Operations	Lynn K. Shay (RSMAS/UM), G. R. Halliwell, and B. Jaimes

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

Session 6: Tropical Cyclone Model Development and Technology Transfer, Part 2

Session Leaders Dr. James Doyle (NRL) and Dr. Robert Gall (NOAA/NWS)		
3:30 PM	Prediction of Consensus TC Track Forecast Error (2005-2010)	James S. Goerss (NRL)
3:45 PM	Ensemble Forecasting Products for Tropical Cyclones at the UK Met Office	Piers Buchanan (Met Office, Exeter, United Kingdom) and K. Mylne
4:00 PM	Large Ensemble Tropical Cyclone Intensity Forecasting	Kerry Emanuel (Massachusetts Institute of Technology), R. Hoffman, S. Hopsch, D. Gombos, and T. Nehr Korn
4:15 PM	The Performance of a GFDL Hurricane Model Ensemble Forecast System during the 2010 Atlantic Hurricane Season	Timothy Marchok (NOAA/GFDL) and M. Bender
4:30 PM	Evaluation and Development of Ensemble Prediction System for the Operational HWRF Model	Zhan Zhang (NCEP/EMC), V. Tallaparagada, R. Tuleya, Q. Liu, Y. Kwon, S. Trahan, J. O'Connor, and W. M. Lapenta
4:45 PM	Forecasting Tropical Cyclone Genesis/Development Using an Ensemble of High Resolution Deterministic Global Models – Results from the HFIP 2010 Summer Demo	Mike Fiorino (NOAA/ESRL)

5:00 PM	Ensemble-based Prediction and Diagnostics during the PREDICT Field Experiment	Sharanya J. Majumdar (RSMAS/UM), R. D. Torn, and F. Zhang
---------	---	---

Wednesday, March 2, 2011

7:40 AM Opening/Administrative Remarks

Mr. Floyd Hauth (OFCM/STC)

Sessions 7 and 8 Coordinator: Mr. Floyd Hauth (OFCM/STC)

Session 7: Tropical Cyclone Model Development and Technology Transfer, Part 3

Session Leaders Dr. Mike Fiorino (NOAA/ESRL) and Dr. Lynn K. Shay (RSMAS/UM)		
7:45 AM	Technology Transfer in Tropical Cyclone Numerical Modeling – The Role of the Developmental Testbed Center (DTC)	Ligia Bernardet (NOAA/ESRL), S. Bao, C. Harrop, D. Stark, and T. Brown
8:00 AM	Objective Evaluation of 2010 HFIP Stream 1.5 Candidates	Louisa Nance (NCAR), C. Williams, M. Harrold, K. Newman, P. Kucera, and B. Brown
8:15 AM	Hurricane Intensity and Structure Research Using NOAA's High Resolution Forecast Model and its Transition to Operations	Sundararaman.G.Gopalakrishnan (AOML/HRD), F. Marks, and V. Tallapragada
8:30 AM	Progress Towards a High-Resolution HWRf Model	Sam Trahan (NCEP/EMC), V. Tallapragada, S.G.Gopalakrishnan, and X. Zhang
8:45 AM	Evaluation and Improvements of Cloud and Precipitation Physics in the Operational Hurricane WRF Model at NOAA/EMC	Yuqing Wang (University of Hawaii)
9:00 AM	Controlling Factors of the Radius of Maximum Winds in HWRf	Jian-Wen Bao (NOAA/ESRL), S. A. Michelson, and S.G.Gopalakrishnan
9:15 AM	Tropical Cyclone Inner-Core Diagnostics	Robert Rogers (AOML/HRD), P. Reasor, S. Lorsolo, and J. Zhang
9:30 AM	On the Characteristic Height Scales of the Hurricane Boundary Layer: Dropsonde Composite Analysis for the Purpose of Model Diagnostics	Jun Zhang (UM/CIMAS and NOAA/HRD), R. Rogers, D. Nolan, and F. Marks

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

Session 8: 2010 Joint Hurricane Field Experiments: PREDICT, GRIP, and IFEX (PGI)

Session Moderator Dr. Chris Landsea (NCEP/NHC)		
PGI: Program Overview and Goals		
10:15 AM	NASA-sponsored GRIP	Dr. Ramesh K. Kakar, Weather Focus Area Leader for the NASA/Science Mission Directorate
10:25 AM	NSF-sponsored PREDICT	Dr. Michael C. Morgan, Director, Division of Atmospheric and Geospace Sciences (NSF)
10:35 AM	NOAA-sponsored IFEX	Dr. Frank Marks, Director, Hurricane Research Division, NOAA/AOML
PGI Field Observations and Preliminary Findings		
10:45 AM	NASA-sponsored GRIP	Dr. Edward Zipser, Professor, Atmospheric Sciences, University of Utah
11:00 AM	NSF-sponsored PREDICT	Dr. Michael Montgomery, Professor, Department of Meteorology, Naval Postgraduate School
11:15 AM	NOAA-sponsored IFEX	Dr. Robert Rogers (NOAA/AOML/HRD)
PGI Panel		
11:30 AM	Audience Question and Answer	

12:00 PM Lunch (on your own) (12:00 PM-1:15 PM)

Sessions 9 and 10 Coordinator: Mr. Michael Babcock (OFCM)

Session 9: ITOP/TCS-10: Coupled Air-Sea Observations and TC Predictions

Session Leaders Dr. Ronald Ferek (ONR) and Mr. Robert Falvey (JTWC)		
1:15 PM	Program Overview of ITOP/TCS10	Linwood Vincent (ONR)
1:25 PM	Overview of the Impact of Typhoons on the Pacific (ITOP)	Eric A. D'Asaro (U. of Washington)
1:35 PM	Multi-Scale Observations of Cloud Clusters and Tropical Cyclones in ITOP/TCS10	Shuyi S. Chen (RSMAS/UM), B. Kerns, E. Ryan, and C. Lee
1:45 PM	The Challenge of Measuring the Atmosphere-Ocean Interface in Tropical Cyclones: Observations from Air-Deployed Drifters	Jan Morzel (Rosetta Consulting), L. Centurioni, and P.P Niiler

2:00 PM	Pre-Genesis Monitoring of the 3-D Atmospheric and Oceanic Environment Via High Altitude Aircraft Observations	Jeff Hawkins (NRL), P. Black, P. Harr, and R. Elsberry
2:15 PM	Ocean Observations in Developing and Mature TCs Based on a New Airborne Observing Strategy: 'Combo' Deployments of AXBTs and GPS Dropsondes from Long-Endurance, Multi-Altitude Reconnaissance Flights	Peter G. Black (NRL/SAIC) and J. D. Hawkins
2:30 PM	An Overview of COAMPS-TC Forecasts and Targeting for ITOP	Sue Chen (NRL), J. Doyle, R. Hodur, H. Jin, J. Cummings, and J. Schmidt
2:45 PM	Multi-Model Coupled Air-Sea Forecasts of Typhoons during ITOP	Brandon Kerns (RSMAS/UM), S. Chen, and C. Lee

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

Session 10: Other Research to Improve the Prediction of Tropical Cyclone Intensity and Structure, Track, Precipitation, Coastal and Inland Inundation, Part 1

Session Leaders Mr. Jeff Hawkins (NRL) and Dr. Frank Marks (AOML/HRD)		
3:30 PM	Hurricane and Severe Storm Sentinel (HS3): A Multi-Year Investigation of Atlantic Hurricanes	Scott A. Braun (NASA/GSFC), P. A. Newman, M. Vasques
3:45 PM	2011 Plans for NOAA's Intensity Forecasting Experiment (IFEX)	Shirley T. Murillo (AOML/HRD)
4:00 PM	Estimating Tropical Cyclone Intensity from Infrared Image Data	Elizabeth A. Ritchie (University of Arizona), M. Piñeros, J. Scott Tyo, and G. Valliere-Kelley
4:15 PM	Airborne Surface Water and Ocean Topography Mapping System	James Carswell (Remote Sensing Solutions) and D. Moller
4:30 PM	The Experimental HWRF-HEDAS System: Model Evaluation in Preparation for Satellite Microwave Data Assimilation Inside the Hurricane Precipitation Area	Svetla Hristova-Veleva (JPL, California Institute of Technology), S. Gopalakrishnan, T. Vukicevic, Z. Haddad, and T. Quirino
4:45 PM	Hurricane Center-Fixing with the Automated Rotational Center Hurricane Eye Retrieval (ARCHER) Method	Anthony Wimmers (UW-CIMSS), C. Velden
5:00 PM	Intraseasonal to Seasonal Prediction of Tropical Cyclogenesis: A Statistical-Dynamical Forecast System	Tom Murphree (Naval Postgraduate School) and D. Meyer

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

Banquet Address (~7:45 PM)
Mr. Scott B. Gudes
Vice President, Legislative Affairs
Space Systems & Operations
Lockheed Martin Corporation

Presentation of the Hagemeyer Award

Thursday, March 3, 2011

7:25 AM Opening/Administrative Remarks

Mr. Floyd Hawth (OFCM/STC)

Invited Presentation

7:30 AM **Dr. Brenda Phillips**

Professor of Political Science
Fire and Emergency Management Program
Oklahoma State University

Sessions 11 and 12 Coordinator: Mr. Floyd Hawth (OFCM/STC)

Session 11: Other Research to Improve the Prediction of Tropical Cyclone Intensity and Structure, Track, Precipitation, Coastal and Inland Inundation, Part 2

Session Leader Ms. Justyna Nicinska (NOAA/OAR) and Mr. Charles ("Buck") Sampson (NRL)		
8:00 AM	International Best Track Archive for Climate Stewardship (IBTrACS) Activities at NOAA's NCDC	Kenneth R. Knapp (NOAA/NCDC), H. Diamond, E. Gibney, P. Hennon, and M. Kruk
8:15 AM	Dry Air in the Tropical Cyclone Environment	Jason P. Dunion (RSMAS/UM and AOML/HRD) and G. Tripoli
8:30 AM	Improvements to Statistical Intensity Forecasts	John A. Knaff (NOAA/NESDIS/STAR), M. DeMaria, K. Musgrave, J. Kaplan, C. Rozoff, J. Kossin, and C. Velden
8:45 AM	Improvements in the Statistical Prediction of Tropical Cyclone Rapid Intensification	Christopher M. Rozoff (UW-CIMSS), J. Kossin, C. Velden, A. Wimmers, M. Kieper, J. Kaplan, J. Knaff, and M. DeMaria
9:00 AM	Improving SHIPS Rapid Intensification (RI) Index Using 37 GHz Microwave Ring Pattern around the Center of Tropical Cyclones	Haiyan Jiang (FIU), M. Kieper, T. Yuan, E. Zipser, and J. Kaplan

9:15 AM	Forecasting Rapid Intensification of Tropical Cyclones in the Western North Pacific Using TRMM/TMI 37 GHz Microwave Signal	Tie Yuan (FIU), H. Jiang, and M. Kieper
---------	--	---

9:30 AM Morning Break (9:30-10:00 AM)

Session 12: Joint Hurricane Testbed Project Updates and Improved Products

Session Leaders Dr. Chris Landsea (NCEP/NHC) and Ms. Shirley Murillo (HRD)		
10:00 AM	The Joint Hurricane Testbed (JHT): 2010 Update	Jiann-Gwo Jiing (Joint Hurricane Testbed), C. Landsea and S. Murillo
10:15 AM	Enhancements to the SHIPS Rapid Intensification Index	John Kaplan (AOML/HRD), J. Cione, M. DeMaria, J. Knaff, J. Dunion, J. Solbrig, J. Hawkins, T. Lee, E. Kalina, J. Zhang, J. Dostalek, and P. Leighton
10:30 AM	Status and Plans for the Development of a Unified Dropsonde Quality Assurance and Visualization Capability, ASPENV3	Michael L. Black (AOML/HRD), C. Martin, P. Flaherty, J. Almeida, and J. Latham
10:45 AM	Advanced Applications of Monte Carlo Wind Probability Model: A Year 2 Joint Hurricane Testbed Project Update	Mark DeMaria (NOAA/NESDIS), R. DeMaria, A. Schumacher, D. Brown, M. Brennan, R. Knabb, P. Santos, D. Sharp, J. Knaff, and S. Kidder
11:00 AM	A New Secondary Eyewall Formation Index; Transition to Operations and Quantification of Associated Hurricane Intensity and Structure Changes	Jim Kossin (NOAA/NCDC and CIMSS), M. Sitkowski, and C. Rozoff
11:15 AM	ATCF Requirements, Intensity Consensus and Sea Heights Consistent with NHC Forecasts	Charles R. Sampson (NRL), A. Schrader, E. Serra, P. Wittmann, H. Tolman, C. Sisko, C. Lauer, J. Schauer, J. Knaff, M. DeMaria, and A. Schumacher
11:30 AM	Atlantic Warm Pool SST Bias in HYCOM	Sang-Ki Lee (AOML and CIMSS) and C. Wang
11:45 AM	Tools for Coordinating Aircraft During Hurricane Field Campaigns	Rich Blakeslee (NASA), M. Goodman, J. Hall, M. He, P. Meyer, M. Garrett, K. Regner, H. Conover, and T. Smith

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

Final Plenary Session

12:00 PM	Opening/Administrative Remarks	Mr. Mark Welshinger (OFCM)
12:05 PM	WG/HWSOR: Action Item Review	Dr. Edward Rappaport (NCEP/NHC) Chairperson, WG/HWSOR
12:20 PM	Final Wrap-up	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
12:30 PM	Adjourn	

POSTERS FOR THE 65TH INTERDEPARTMENTAL HURRICANE CONFERENCE Poster Session: Monday, February 28, 2011, 6:30-8:30 PM (cash bar and hors d'oeuvres)		
P01	Real-Time Radar Processing in the 2010 Hurricane Season and Plans for 2011	John F. Gamache (AOML/HRD)
P02	Real-Time Transmission of NOAA Tail Doppler Radar Data	James Carswell (Remote Sensing Solutions), P. Chang, M. Mainelli, and J. Hill
P03	Improved Hurricane-Force Surface Winds and Rain Rate Retrievals with the Stepped Frequency Microwave Radiometer	James Carswell (Remote Sensing Solutions), P. Chang, Z. Jelenak, and S. Frasier
P04	Collocated ASOS and WSR-88D Depict Collapsing Core and Maximum Wind Gust at Melbourne, FL, in the Eyewall of Hurricane Erin (1995)	Keith G. Blackwell (U. of South Alabama)
P05	Wide Swath Radar Altimeter (WSRA) Wave Spectra from Hurricane Ike compared with WaveWatch III	Ivan PopStefanija (ProSensing) and E. Walsh
P06	Storm Surge Measurement Potential of the Wide Swath Radar Altimeter	Ivan PopStefanija (ProSensing) and E. Walsh
P07	Direct Interpretation of COSMIC Refractivity Data in the Tropical Cyclone Environment	Christopher M. Hill (Mississippi State University), P. Fitzpatrick, and Y. Lau
P08	Ocean's Impact on the Intensity of Three Recent Typhoons (Fanapi, Malakas, and Megi) – Results from the ITOP Field Experiment	Peter G. Black (SAIC/NRL) and I-I Lin
P09	Coupled Air-Sea Observations in Tropical Cyclones during ITOP/TCS10	Chiaying Lee (RSMAS/UM) and S. S. Chen
P10	Coming Soon: AMSU in GEO	Bjorn Lambrigtsen (NASA JPL)
P11	Assimilating COSMIC GPS RO data for Investigating TC Genesis in the Eastern Atlantic Region	Keren Rosado (FIT) and Sen Chiao
P12	Sensitivity of Air-Ocean-Wave Coupling on the Prediction of Hurricane Frances and Ivan	Sue Chen (NRL), T. Smith, S. Gaberšek, T. Campbell, S. Wang, J. Doyle, and R. Allard
P13	Developing an Atlantic Ocean Initialization Based on the Navy Coupled Ocean Data Assimilation (NCODA) Product for the Operational GFDL and GFDN Hurricane Models	Richard Yablonsky (URI), I. Ginis, S. Lee, and B. Thomas
P14	Spatial Verification of Tropical Cyclone Model Track and Intensity Forecasts	Timothy Marchok (NOAA/GFDL) and A. Alpert
P15	Improving Ocean Model Performance in Coupled Hurricane Forecasts through Improved Initialization	George R. Halliwell (NOAA/AOML), L. Shay, D. Willey, J. Brewster, B. Jaimes, and G. Goni
P16	Validation of Coupled Hurricane Atmosphere–Ocean Model (HyHWRF)	Hyun-Sook Kim (NCEP/EMC), D. Iredell, Y. Kwon, L. Liu, Q. Liu, C. Lozano, J. O'Connor, J. Sims, V. Tallapragada, B. Tuleya, and Z. Zhan
P17	HWRF Model Diagnostic Improvements	Janna O'Connor (NCEP/EMC) and V. Tallapragada
P18	Evaluating Experimental Models for Tropical Cyclone Forecasting in Support of the Hurricane Forecast Improvement Project (HFIP)	Paul A. Kucera (NCAR), B. Brown, L. Nance, C. Williams, K. Crosby, and M. Harrold
P19	A Highly Configurable Vortex Initialization Method for Tropical Cyclones	Eric D. Rappin (RSMAS/UM), D. Nolan, and S. Majumdar

POSTERS FOR THE 65TH INTERDEPARTMENTAL HURRICANE CONFERENCE Poster Session: Monday, February 28, 2011, 6:30-8:30 PM (cash bar and hors d'oeuvres)		
P20	Diagnosis of Operational Model Track Forecast Error for Hurricane Ike (2008)	Michael J. Brennan (NCEP/NHC) and S. Majumdar
P21	An Update on the Status of FNMOC Projects to Improve Tropical Cyclone Forecasting	Carey Dickerman (FNMOC), P. Wittmann, B. Sampson, and B. Ruston
P22	Improving the Assimilation of High-Resolution Satellite Wind Data into Mesoscale Prediction Models	Ting-Chi Wu (RSMAS/UM), H. Liu, C. Velden, S. Majumdar, and J. Anderson
P23	Diagnosing Initial Condition Sensitivity of Typhoon Sinlaku (2008) and Hurricane Ike (2008)	William A. Komaromi (RSMAS/UM), S. Majumdar, and E. Rappin
P24	Testing of a New Parametric Tropical Cyclone Wind Model for Implementation in the Gradient Wind Asymmetric Vortex Algorithm (GWAVA) to Drive Storm Surge Prediction Models	Craig Mattocks (RSMAS/UM) and V. Wood
P25	Objective Diagnosis of the Eyewall Replacement Cycle in Mature Tropical Cyclones	Elizabeth R. Sanabia (U.S Naval Academy) and N. Celone
P26	Climatology of Hot Towers in Tropical Cyclone Inner Cores and Rainbands Based on 12-year TRMM Data	Cheng Tao (FIU) and H. Jiang
P27	Quantitative Comparison of Precipitation Algorithms in Tropical Cyclones	Joseph P. Zagrodnik (FIU) and H. Jiang
P28	Numerical Studies of Lower Boundary Forcing on Tropical Storm Fay (2008) over Southern Florida	Travis L. Washington (FIT) and S. Chiao
P29	Vertical Wind Shear Impacts on Hurricane Structure Deduced from Airborne-Doppler and HWRF Databases	Paul Reasor (NOAA/AOML/HRD), R. Rogers, S. Lorsolo, S. Gopalakrishnan, J. Gamache, and F. Marks
P30	Is Hurricane Rapid Intensification Possible from the Energy Released Inside of a Convective Burst?	Owen A. Kelley (NASA Goddard Space Flight Center), J. B. Halverson, and J. Stout
P31	Hurricanes: Science and Society – An Online Resource Collaboratively Developed by Scientists, Education and Outreach Professionals, and Educators	Isaac Ginis (URI), G. Scowcroft, R. M. Yablonsky, C. W. Knowlton, and H. Morin
P32	The Influence of Cyclones on the BP Oil Spill	Pat Fitzpatrick (Mississippi State University), Y. Lau, C. Hill, and H. Karan
P33	<u>S</u> ATellite Intensity <u>C</u> ONSensus (SATCON) Evaluation and Recent Changes	Derrick Herndon (UW-CIMSS) and C. Velden
P34	A Methodology for Incorporating Hurricane Forecast Errors into Decision-Support Systems for Energy and Utility Companies	Andrea Schumacher (CIRA) and S. M. Quiring
P35	What Might a Global TC Reanalysis Project Look Like?	Paula Ann Hennon (STG, Inc.) and K. Knapp
P36	Getting the Surge Message Across	Betty Hearn Morrow (SocResearch), J. Lazo, and J. Rhome