

**Monday, 29 February 2016**

*Attire: Business or Business Casual*

08:00 Transportation from Hotel to University of Southern Mississippi

08:10 Coffee, Tea, and Pastries

08:30 Opening, Welcome, and Logistics: Ms. Angela Strong and Ms. Natalie Guess

**Introduction of Keynote Speaker by Mr. Helmut H. Portmann, Director,  
National Data Buoy Center (NDBC)**

**08:40 Keynote Address - Mr. Joseph Pica, Director, Office of Observations,  
US National Weather Service**

**Session I: JCOMM: Chaired by Dr. William Burnett, Deputy Commander/Technical Director,  
Naval Meteorology and Oceanography Command**

**Event**

1.1 09:00 Ocean observations and JCOMM contribution to the WMO Integrated Global Observing System (WIGOS) framework implementation, Mr. Etienne Charpentier, JCOMM

1.2 09:30 JCOMM Wave Observation and Measurement, Ms. Champika Gallage, JCOMM

**10:00 – 10:15 Break**

1.3 10:15 JCOMM Pilot Project - Wave Measurement Evaluation and Testing (PP-WET), Mr. Val Swail, Environment Canada

1.4 10:45 Establishing and Maintaining a Regional Ocean Wave Observing System, Dr. Miguel F. Canals Silander, Caribbean Coastal Ocean Observing System

1.5 11:15 Group Discussion and Photo

**11:45 – 12:30 Lunch, Individual Responsibility**

**Session II: Standards, Chaired by Dr. Chung-Chu Teng, Chief, Engineering Division,  
Center for Operational Oceanographic Products and Services (CO-OPS), NOAA**

**Event**

2.1 12:30 Ocean Waves: Basic Theory, Measurement and Best Practice, Dr. Chung-Chu Teng, NOAA CO-OPS

2.2 13:00 Considerations in Formulating a National Wave Observing Plan: A User's Perspective, Dr. Robert Jensen, US Army Corps of Engineers

2.3 13:30 NDBC Data Management: Quality Control, Dissemination, and Archive of Wave Observations, Mr. Rex Hervey, NDBC

**14:00 – 14:15 Break**

- 2.4 14:15 Quality Assurance of Real-Time Oceanography Data (QARTOD), Mr. Mark Bushnell, CoastalObsTechServices LLC
- 2.5 14:45 WIGOS Metadata Standards, Mr. Joe Swaykos, NDBC
- 2.6 15:15 Southeastern Universities Research Association (SURA), Col. C. Reid Nichols (USMC-ret), SURA
- 2.7 15:45 Developing a Rogue Wave Probability Estimator, Dr. Mark Orzech, U.S. Naval Research Laboratory, Stennis Space Center
- 2.8 16:15 Proposed RMIC Morocco, Ahmed Cherifi, Met Service Morocco
- 2.9 16:45 Proposed RMIC China, Yu Jianqing, National Center of Ocean Standards and Metrology

**17:15 Transportation to hotel**

## **Tuesday, 1 March 2016, Morning and Noon Events**

*Attire: Business Casual*

07:15 Transportation from Hotel to the University of Southern Mississippi

07:45 – 08:00: Coffee, Tea, Pastries

### **08:00 Welcoming Address, Dr. Kelly Lucas, Mississippi Department of Marine Resources**

### **Session III: National Presentations, Chaired by Captain Joe Swaykos, (USN-ret), Chief, Mission Control Center Branch at NDBC**

#### **Event**

3.1 08:30 National Presentations WMO Region IV – 20-minute presentations.

3.1.1 08:30 Antigua/Barbuda, Donald Simon, Met Service Antigua

3.1.2 08:50 Costa Rica, Fernando Mata Mora, University of Costa Rica

3.1.3 09:10 Curaçao, Haime Pieter, Met Service Curacao

3.1.4 09:30 Dominican Republic, Jenvel Almonte, National Meteorology Office

3.1.5 09:50 El Salvador, Saul Canjura Jimenez, MARN

3.1.6 10:10 Haiti, Jeantau Louis, National Meteorology Center

3.1.7 10:30 Saint Lucia, Augustin Govinda, St. Lucia Met Services

3.1.8 10:50 Canada, Laura Medeiros, Environment Canada

3.1.9 11:10 Argentina, Guadalupe Alonso, Naval Hydrographic Service

3.1.10 11:30 Brazil, LT Tobias Ferriera, Brazilian Navy

3.1.11 11:50 Ecuador, Leonor Vera, Susy Marin, Naval Oceanographic Institute

3.1.12 12:10 South Africa, Buhle Goldman Shandu, South African Weather Service

**12:30 – 13:30 Lunch, Individual Responsibility**

## **Tuesday, 01 March 2016, Afternoon and Evening Events**

### **Session IV: Technology, Chaired by Dr. Richard Crout, Chief, Ocean Sciences Branch, U.S. Naval Research Laboratory, Stennis Space Center (NRLSSC)**

#### **Event**

4.1 13:30 NDBC Buoy Technology&Operations, Mr. Stephen Cucullu, Acting Chief, Operations Branch, NDBC

4.2 14:00 Fugro Geos, Mr. Rob Smith – Fugro Wave Measurement Systems

4.3 14:30 Axys, Mr. Stephen Naeth – TRIAXYS3G Latest Developments for Next Generation Wave Sensor

4.4 15:00 Ocean Power Technologies, Ms. Kate Edwards - Effect of Wave Spectra on Power Predictions for OPT Powerbuoy®

**15:30-15:45 Break**

- 4.5 15:45 University of Southern Mississippi, Dr. Stephan Howden - Waves Measured from the USM/Central Gulf of Mexico Ocean Observing System Buoy Using GPS and Accelerometers.
- 4.6 16:15 Scripps Institution of Oceanography, Mr. Tony DePaolo – Development, Testing, and Quality Control with the Scripps Miniature Wave Buoy
- 4.7 16:45 WaveForce Technologies, Dr. Jeff Hanson - Modern Software Tools for Ocean Wave Analyses
- 4.8 17:15 Seaview Systems, Mr. Tim Crandle - Wave Sensing with MEMS: SeaView SVS-602

**17:45 Transportation to Hotel**

**18:30: Evening Social** at the Chandeleur Brewing Company ([www.ChandeleurBrew.com](http://www.ChandeleurBrew.com)),

Sponsored Marine Industry Science & Technology Cluster (MIST), <http://www.mistcluster.org/>

## **Wednesday, 02 March 2016, Morning and Afternoon Events**

*Attire: Business Casual*

08:00 – Transportation from Hotel to Infinity Science Center, Hancock County, Mississippi

08:30 – 08:45 Coffee, Tea, and Pastries

08:45 – Announcements

### **Session V: Calibration, Chaired by Dr. David W. Wang, Ocean Sciences Branch, U.S. Naval Research Laboratory, Stennis Space Center (NRLSSC)**

#### **Event**

5.1 09:00 Theory and application of calibration techniques for NDBC wave measurement buoys, Mr. Richard Bouchard, NDBC, and Mr. Kenneth Steele, NDBC-retired

5.2 09:30 Wave Buoy Calibration at the Coastal Data Information Program (CDIP), Les Hanson

#### **10:00 – 10:15 Break**

5.3 10:15 Wave Buoy Calibration at National Data Buoy Center (NDBC), Mr. Rodney Riley, Oceanography Engineer, NDBC

5.4 10:45 NDBC Mission Control Center (MCC), Mr. Robert Congilione,

5.5 11:00 Closing Remarks, Mr. Helmut H. Portmann, Director, National Data Buoy Center (NDBC)

5.6 11:15 Wrap-up and discuss topics for future workshops, Mr. Joe Swaykos, NDBC

#### **11:30 – 12:30 Lunch, Individual Responsibility**

6.1 12:30 Tour of NDBC and Stennis Space Center, Ms. Angela Strong, NDBC

**13:30 Transportation to Hotel.**