

# HFIP Annual Review Meeting

## November 8-9, 2017

DoubleTree by Hilton Hotel Miami Airport & Convention Center  
711 NW 72nd Ave, Miami, FL 33126

### Overall Objectives

In 2017, the signed Weather Act requires the development of a new HFIP project plan due in April 2018. The Weather Act states three main goals: (1) improving the prediction of RI and track of hurricanes; (2) improving the forecast and communication of storm surges from hurricanes; and (3) incorporating risk communication research to create more effective watch and warning products. The objective of this meeting will be to discuss the proposed revisions of the current HFIP [goals](#) and review the initial draft of the plan which will be briefed at this annual meeting. The HFIP Plan will represent an integrated plan across NOAA and involvement from the community outside NOAA which will lead to achieving the overall goals.

Over the years, the HFIP program has been guided with the advice of Strategic Planning teams and Tiger teams. The results, accomplishments, and lessons learned of the HFIP teams have allowed for development of a multi-year strategy for improving hurricane forecast guidance. The Tiger teams primarily are responsible for overseeing the development of specific new capability for the hurricane forecast guidance system. This meeting will provide updates from the various teams and discuss the NOAA strategy related to the Next Generation Global Prediction System developments and the strategy to address the hurricane problem.

The agenda will consist of three parts:

- Nov 7: **(CLOSED)** HFIP Strategic Plan writing team (face-to-face) meeting at NHC
- Day 1:(Nov 8): Report on 2017 activities - Results, accomplishments & lessons learned
- Day 2 (Nov 9 - morning): Goals and priorities for 2018+; long-term planning
- Day 2 (Nov 9 - afternoon): Storm surge session - including coordination of Storm Surge Plan

# Annual Meeting Agenda

**Day 1 Remote Attendees:** Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/700156605>

**Join the conference call:**

1-877-985-3644; pscd 584664

## Wednesday, November 8, 2017

8:15 am Registration, Name Badge Pickup, Continental Breakfast

8:40 am Welcome remarks, Introductions, facility logistics

### **Results from 2017 – (Chair: DeMaria)**

8:50 am FY17 NHC Verification (Cangialosi)

9:10 am NHC's forecast challenges in 2017 – Harvey/Irma/Maria (Brennan/Blake)

9:30 am NHC's view on developmental priorities (Brennan/Blake)

9:50 am 2017 Year in Review: JTWC TC Activity, Forecast Challenges, and Developmental Priorities (Strahl)

10:10am Open Discussion on Best Practices and lessons learned for 2017

**10:25 am Break**

### **Operational Modeling Center Reports (Stream 1) – (Chair: Gopal)**

10:45 am HWRF FY17 Performance (Bin Lui)

11:05 am EMC Hurricane model upgrades and priorities for 2018 (Mehra)

11:25 am COAMPS-TC FY17 Performance and FY18-FY19 Plans (Doyle)

### **Results from Jet: Real-time Reservations (Stream 2)**

11:45 am Performance of Ensembles and Future Plans (W. Wang, Komaromi)

12:00 pm Basin-scale HWRF realtime results (Alaka)

- 12:15 am FV3 realtime results (Bender)
- 12:30 pm Working Lunch** (provided)
- 1:20 pm HFIP Strategic and Tiger Team Reports - (Chair: Mehra)**
- 1:25 pm Plans for Hurricanes in FV3 (Tallapragada)
- 1:40 pm Model Developments and Priorities (X. Zhang)
- 2:00 pm HWRF Data Assimilation (Sippel)
- 2:15 pm Data Assimilation/Ensemble Development (X. Wang)
- 2:35 pm Socioeconomic Team (Sprague)
- 2:50 pm Post Processing/Verification - incl. HCCA results (Zelinsky, DeMaria, Penny)
- 3:10 pm ATCF and AWIPS-2 developments (DeMaria, Sampson)
- 3:25 pm Break**
- Tiger Teams – (Chair: Gopal)**
- 3:40 pm DTC core activities (Newman, Nance)
- 4:00 pm Ensemble Products Tiger Team (DeMaria)
- 4:20 pm Hi-Res Physics Tiger Team (L. Zhu)
- 4:40 pm Ocean Model Impact Tiger Team (Kim, Halliwell)
- 5:00 pm Summary and Wrap up for Day 1**
- Discuss Day 2 agenda and optional group dinner
- 5:15 pm Adjourn**

*Note 1* Please forward your presentations to: [nysheema.lett@noaa.gov](mailto:nysheema.lett@noaa.gov) and [shane.newell@noaa.gov](mailto:shane.newell@noaa.gov) at least 2 days prior to meeting

*Note 2* Please allow at least 5 min for questions within the allotted time.

*Note 3* Invited attendees: NWS/STI Director (Ming Ji), OWAQ Director (John Cortinas)

**Day 2 Remote Attendees:** Please join my meeting from your computer, tablet or smartphone.  
<https://global.gotomeeting.com/join/347993301>

**Join the conference call:**  
1-877-985-3644; pscd 584664

**Thursday, November 9, 2017**

8:30 am Continental Breakfast

9:00 am Next Phase of HFIP – What Did HFIP Do Well? What’s Next? (Toepfer)

9:20 am Description of Goals (Marks)

9:40 am Outbrief from Writing Team Status on Plan (Section leads)

10:00 am **Open Discussion on Priorities (Chair: Marks)**

- **Rapid Intensification** – (Kaplan, DeMaria)
- **Hurricane Impacts** – (Sprague)
- **Performance Measures** – (Brennan, DeMaria)

**10:30 am Break**

- Research and development **HPC** - (Toepfer)
- High resolution **nests into the global system** – (Tallapragada)
- **Ensembles** for impacts from rain, gusts, surge, and severe wx (DeMaria)
- Focus on **weak systems** and invests (Marchok)
- **Data Assimilation/Initialization** (current initialization approach) – (Sippel)
- **Observational requirements** (Rogers, Brennan)

**12:30 pm Working Lunch** (provided)

**1:30 pm Storm Surge (Leave 10min for questions) – (Chair: Kurkowski)**

1:35 pm Current State of Operations (Fritz)

2:05 pm Status of Tropical Program (Schauer)

2:30 pm NOAA storm surge modeling gaps and priorities (Paulik)

3:00 pm Short-term plan to advance storm surge modeling (Kurkowski)

**3:30 pm Break**

- 3:50 pm Long-term vision for NOAA storm surge to meet operational needs and requirements of the Weather Act (Kurkowski)
- 4:20 pm Role of storm surge in COASTAL Act (Vinogradov)
- 4:50 pm Summary of Day 2 and Report on Actions from Meeting
- 5:15 pm Adjourn**

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*Note 2* Please allow at least 5 min for questions within the allotted time.

*Note 3* Invited attendees: NWS/STI Director (Ming Ji), OWAQ Director (John Cortinas)