



A graphic element for the Hurricane Forecast Improvement Project (HFIP), consisting of a red stylized hurricane symbol (a curved shape) centered within a series of concentric, overlapping white and grey lines that form an eye-like shape.

NOAA
HURRICANE FORECAST IMPROVEMENT PROJECT

HFIP FY16 Priorities and Next Steps

HFIP Annual Meeting
November 18-19, 2015



Team 1:



Model Development Team

- Stream 1
 - Continue HWRF and COAMPS-TC improvements
- Stream 2
 - Transition basin HWRF to operations – need ocean coupling, initialization, and DA
 - T&E HNNMB as alternative
 - Transition HWRF/COAMP-TC ensemble to operations
- Proposed Team Leads
 - Sam Trahan / Xuejin Zhang
 - Co-leads: Zach Zhang / Jon Moskaitis



Team 2: DA/Ensemble Team



- Stream 1
 - HWRF Hybrid DA improvements and T&E
- Stream 2
 - Hybrid DA for basin HWRF/HNMMB
 - T&E for HWRF/COAMPS-TC ensemble for DA and targeting
 - RDITT T&E of inner core data
 - Satellite DA for basin HWRF/NMMB
- Proposed Team Leads
 - Jeff Whitaker / Fuzhong Weng
 - Co-leads: Xuguang Wang / Jason Sippel



Team 3: PPAV

- Stream 1 / 2
 - Work with the Webpage TT to improve access to HFIP demo products to NHC
 - Work with “New” ensemble product Tiger Team to T&E new probabilistic intensity change product
 - T&E ATCF upgrade and replacement
 - T&E on genesis products
- Proposed Team Leads
 - Dave Zelinsky / Mark DeMaria
 - Co-leads: Paul Kucera / Paula McCaslin



Hi-Res Physics Tiger Team

- Focus on Edouard/Isaac cases to evaluate
 - Work w/ OMITT and model development team
- PBL/surface wind profile issues in HWRF
- Hot/moist bias in surface thermos in HWRF
- Impact of RMW size mismatch with observations
- Impact of physics on eye wall replacement

- Proposed Team Leads
 - Gopal / J.W. Bao
 - Co-leads: Joe Cione / Sergio Arbaca



Ocean Model Impact TT



- Stream 1
 - Implement HyCOM into operations
- Stream 2
 - Work with model development on ocean coupling for Basin HWRF
 - Work with hi-res physics TT on hot/moist bias in HWRF
 - T&E multi-model coupling
- Team Leads
 - Hyun-Sook Kim / George Halliwell



Ensemble Product TT

- T&E of ensemble product for 24hr intensity change in tail of intensity change PDF (>15kt, 20kt, 25kt, etc)
- Workshop at NHC on product development (more direct communication)
- T&E on genesis products
- Provide a common product to NHC for intensity change distributions of all ensembles (statistical and dynamical)
- Team Leads
 - Ryan Torn & Mark DeMaria