



HFIP Annual Meeting Agenda

Embassy Suites Airport - 3974 NW S River Dr, Miami, FL 33142

Meeting Room - Key Largo

URL: <https://us06web.zoom.us/j/85742892406?pwd=K1BrK213SXZzSHdPSFk3RWQ5WXM5dz09>

Phone: +1 719 359 4580

Meeting Code: 857 4289 2406

Passcode: 704034

Meeting Objectives

The primary objective of this meeting will be to discuss the key HFIP strategies as enlisted in the HFIP document including advancing the next-generation Hurricane Analysis and Forecast System (HAFS) for operations and developing plans beyond its initial operational capacity with eventual goals of reliable and skillful guidance on TC track and intensity (including rapid intensification), storm size, genesis, storm surge, rainfall and tornadoes associated with TCs and Socio-Economic impacts. The current state of operational hurricane capabilities and challenges as well as the results and accomplishments from the 2022 hurricane season will also be discussed, allowing the development of future plans to further improve hurricane forecast guidance in the upcoming years. Additionally, HFIP is entering the next phase of the 2019-2024 strategic plan to improve the forecast and communication of surges from TCs; and incorporate risk communication research to create more effective watch & warning, and probabilistic risk products with a focus on vulnerable communities and industries through the use of social, behavioral, and economic sciences. We will have a special session related to it.



HFIP Annual Meeting Agenda

Day 1 (Nov 7, 2022)

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

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8:50 - 9:00 am: Morning Kick-Off remarks

9:00 - 9:40 Programmatic Updates (Chair: Frank Marks)

HFIP Annual Opening (Aaron Poyer)

OSTI-Modeling Opening Remarks (Kevin Garrett)

OAR WPO Opening Remarks (Dorothy Koch)

HPC Opening Remarks (Frank Indiviglio)

9:40 - 10:00 Coffee Break

10:00 - 1:00: Forecaster needs and Activities Supporting Operations (Chair: Mike Brennan)

10:00-10:30: NHC verification (John Cangialosi)

10:30-11:00: NHC season summary, analysis, and forecasting challenges (Brad Reinhart)

11:00-11:20: NHC technical roundup/AWIPS2 transition (David Zelinsky)

11:20-11:40: Operational storm surge modeling (Andrew Penny/Laura Alaka)

11:40-12:00: WPC Rainfall/Flooding (Alex Lamers)

12:00-12:30: JTWC Forecast Tools, Challenges, and Priorities (Levi Cowan)

12:30:-1:00: Discussion/Q&A

Lunch 1:00-2:30 (on site)



2:30-5:00: Challenging storm working group & Impacts of recon data on TC forecasts from global models (Chair: Vijay)

2:30 pm Overview of Modeling challenges

2.30 pm Issues identified by the forecasters (NHC/JTWC - Mike Brennan/Levi Cowan) (5 mins)

2.35 pm Issues identified by Modelers (EMC/HRD - Zhan Zhang/Gus Alaka) (5 mins)

2:40 pm Difficult TC Cases Working Group Presentation (Panelists: Jim Doyle; Jon Moskaitis; Will Komaromi; Linus Magnusson; Michael Denhard; Vijay Tallapragada, Mike Brennan)

2.40 pm Updates from UKMO (Julian Heming) (10 minutes)

2.50 pm Updates from Navy (Jim Doyle, Jon Moskaitis; Will Komaromi) (15 minutes)

3.05 pm Updates from ECMWF (Linus Magnusson; Mohamed Dahoi) (15 minutes)

3.20 pm Updates from DWD/ICON (Michael Denhard) (15 minutes)

3.35 pm Updates from NCEP (Vijay Tallapragada) (10 minutes)

3.45 pm Discussion (All) (15 minutes)

4:00 pm Break (10 minutes)

4:10 pm Impact of Recon Data on TC Forecasts (Panelists: Linus Magnusson, Ryan Torn, Jason Sippel, Xingren Wu, Vijay Tallapragada)

4.10 pm Recon impact studies from ECMWF (Linus Magnusson) (10 minutes)

4.20 pm Recon impact studies from NCEP (Xingren Wu) (10 minutes)

4.30 pm Recon impact studies from AOML (Jason Sippel) (10 minutes)

4.40 pm Sampling strategies for TC recon (Ryan Torn) (10 minutes)

4.50 pm Discussion (All) (10 minutes)

5:00 pm Adjourn



HFIP Annual Meeting Agenda

Day 2 (Nov 8, 2022)

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8:50 - 9:00 am: Morning Kick-Off remarks

9:00 - 11:00 Operations and HAFS implementation (Chair: Gopal)

9:00-09:15 - HWRF/HMON Updates (EMC/Zhan Zhang)

9:15-09:30 - HAFS-A HFIP T&E (EMC/Lead: Bin-Liu; co-lead: JungHoon Shin)

9:30-09:45 - HAFS-S HFIP T&E (AOML/Lead: Andrew Hazelton; co-lead: Ghassan Alaka)

9:45-10:00 - NHC HAFS evaluation and impacts on HAFS implementation (Jon Martinez)

10:00-10:45 - Discussions on HAFS Physics & DA (Participants: Weigu, Yonghui, Xiaomin Chen, Zhan Zhang)

10:45-11:00 - Coffee Break

11:00 - 12:30: Planning for 2023 Real-Time session (Chair: Gopal)

11:00-11:15 - HAFS plans and advances beyond 2023 IOC (Xuejin and Zhan Zhang)

11:15-11:30 - AOML Real-Time: Basin-Centric HAFS (Ghassan Alaka & William Ramstrom)

11:30-11:45 - GFDL SHIELD (Marchok/Lucas)

11:45 -12:00- GSL updates (Curtis/Georg Grell)

12:00-12:15 - PSL updates (J-W.Bao)

12:15-12:30 - Coupling Updates (Hyun-Sook Kim and Biju Thomas)

12:30-1:30: Lunch (on site)

1:30-2:20: Hurricane Observations Panel (Chair: Frank Marks)

1:30-1:55 - Panelist introductions:

NHC/EMC: Stephanie Stevenson/John Cangialosi (5 min)

AOML/HRD/PhOD: Jason Dunion (5 min)

NASA (ITOFS): Jon Zawislak (5 min)

ONR (TCRI): Jim Doyle (5 min)

Ocean Obs: Cheyenne Stienbarger (5 min)

Drone Obs for Ian: Joe Cione (5 min)

2:00-2:20 - Discussion



2:20-2:30 Coffee Break

2:30-5:00 DA and Impacts (Chair: Avichal):

Xuejin, Zhan, and Jason Sippel, Hyun-Sook (coupled model DA), Xuguang Wang OU/John Potterjoy (DA Updates)

Talks:

Background:	10 mins (Avichal, Zhan, Xuejin)
HWRF & HAFS DA (lessons learned and future paths):	20 mins (Jason Sippel)
EMC Global DA status and future plan:	15 mins (Emily Liu)
JCSDA JEDI:	15 mins (TBD)
RRFS DA status and future plan:	15 mins (Curtis Alexander)
HAFS DA efforts at UMD:	15 mins (Jon Potterjoy)
HAFS DA efforts at OU:	15 mins (Xuguang Wang)
Marine JEDI:	15 mins (Travis Sluka)
Discussions on a HAFS DA strategy:	30 mins (all)

5:00 pm Adjourn



HFIP Annual Meeting Agenda

Day 3 (Nov 9, 2022)

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8:50 - 9:00 am: Morning Kick-Off remarks

9:00 - 11:00: Social and Economic Impacts session (Chair: Aaron & Gopal)

9:00 - 9:20 - NHC (Brennan): Enhancements to Guidance provided to WFOs

9:20 - 9:40 - AFS (Schauer) The Role of Ensembles in Risk Communication & The NWS Tropical Roadmap

9:40 - 10:00 - OAR (Eosco/Williamsberg): Social Science and probabilistic guidance/forecast

10:00 - 10:20 - Model Ensembles (Ryan Torn)

10:20 - 10:40 - CIRA (Mark DeMaria)

10:40 - 11:00 Coffee Break

11:00 - 11:30: Brainstorming Town Hall on Social, Economic, and Vulnerability Risk forecasts (Brennan, Schauer, Marks, Eosco, Avichal, VJ, Ryan Torn)

11:30 - 12:00: Coastal impacts from TCs (Gopal)

11:30 - 11:45 - (Saeed Moghimi)

11:45 - 12:00 - (John Warner)

12:00 - 1:30 Lunch (on site)

1:30 - 2:30: H.O.T updates and future (Chair Aaron Poyer/Jordan Dale)

1:30 - 2:00 Hurricane and Ocean Testbed: The first year and beyond (NHC/Stephanie or Wallace)

2:00 - 2:30 Science and Technology Integration - STI AOP Milestones, JTTI, Roadmap (NHC/Wallace or Stephanie)

2:30-3:30 Support and Engagement (Aaron)

2:30 - 3:00 - EPIC Updates and Support (Maoyi)

3:00 - 3:30 - DTC updates & Community Support (Kathryn Newman)



3:30-5:00 Future Directions (Frank Marks & Frank Indiviglio)

5:00 pm Adjourn