

2019 Tropical Cyclone Operations and Research Forum
73rd Interdepartmental Hurricane Conference

DRAFT AGENDA

Day 1: Tuesday, March 12, 2019

8:00 am: Registration (8:00 – 12:15 pm)

8:15 – 8:30 am: Welcome: Michael Bonadonna, Acting Federal Coordinator for Meteorological Services and Supporting Research

8:30 – 10:00 am: Session 1: Tropical Cyclone Operations: Challenges in 2018:

Session Leader: **Dan Brown**

- 8:30 am: NHC: Eric Blake
- 8:45 am: TAFB: Eric Christensen
- 9:00 am: CPHC: Tom Birchard, Ashley Evans, Bob Ballard
- 9:15 am: JTWC: CDR Corey Cherrett
- 9:30 am: AOC: CDR Justin Kibbey
- 9:45 am: 53 WRS: Lt Col Kaitlyn Woods
- 10:00 am: Questions

10:15 – 10:45 am: Morning Break

10:45 – 12:15 pm: Session 2: Future Products and Services Planned; New/Revised Requirements for Research Panel.

Session Leader: **Pablo Santos, MIC MIA**

- 10:45 am: NHC Dan Brown
- 11:00 am: WFO Tallahassee, FL: Tom Johnstone
- 11:15 am: JTWC: Matt Kukas
- 11:30 am: Improving In-Flight Situational Awareness and Science through an SBIR Phase III Technology: Dave Jones
- Freie Universität Berlin: Professor Rupert Klein
- 12:00 pm: Questions to panel

12:15 – 1:15 pm: Lunch on your own

1:15 – 2:30 pm: Session 3: Observations

Session Leader: **Frank Marks, NOAA Hurricane Research Division**

- 1:15 pm: HRD – Jon Zawislak
- 1:30 pm: 53 WRS – LtCol Kaitlyn Woods
- 1:45 pm: New Air Recon Equipment Working Group (WG-ARE) – LtCol Kaitlyn Woods and UAS ICCAGRA Kristie Twining
- 2:00 pm: AOC – Jack Parrish
- 2:15 pm: Ocean Observations (NDBC) – Karen Grissom
- 2:30 pm: NASA – Kathy Rice, Kristen Smith

- 2:45 pm: Questions

3:00 – 3:20 pm: Afternoon Break; end of day and release for non-Hurricane Working group members

3:20 – 5:15 pm: Session 4: Hurricane Working Group

5:15 End of day

Day 2: Wednesday, March 13, 2019

9:25 – 9:30 am: Administrative remarks

9:30 – 11:00 am: Session 6: Research Supporting: Current Research and Plans for the Future

Session Leader: **Jack Beven, NHC**

- 9:30 am: HFIP (NOAA) – Frank Marks
- 9:45 am: Hurricane Supplemental – Dorothy Koch
- 10:00 am: ONR – Coastal Impacts of Hurricanes - Reggie Beach
- 10:15 am: RMS – Mark Powell
- 10:30 am: HRD – Recent Observations in Tropical Cyclones Using Small Unmanned Aircraft Systems and a look into NOAA’s sUAS future – Joe Cione
- 10:45 am : Questions

11:00 am – 12:30 pm: Lunch on your own

12:30 pm – 1:45 pm Session 7: Global Model Advances and Plans

Session Leader: Sundararaman Gopalakrishnan, HRD

- 12:30 pm: EMC: GFS/FV3 – Vijay Tallapragada
- 12:45 pm: ECMWF – Fernando Prates
- 1:00 pm: FNMOC “Global Model Advances and Plans” – Jon Moskaitis
- 1:15 pm: 557th Weather Wing: GALWEM (Global Air-Land Weather Exploitation Model) – Steve Rugg
- 1:30 pm: Questions

1:45-2:30 pm Session 8: Regional Model Advances and Plans

Session Leader: Stacy Stewart, NHC

- 1:45 pm: EMC – HWRF/HMON – Avichal Mehra
- 2:00 pm: NRL – COAMPS-TC – Jim Doyle
- 2:15 pm: Questions

2:30 – 3:00 pm Break

3:00 – 5:00 pm Session 9 Research Supporting Operations: JHT Project Status.

Session leader: **Jason Sippel, HRD**

- 3:00pm: “The Joint Hurricane Testbed (JHT): A 2019 Update” Jason Sippel (NOAA/HRD), Mark DeMaria (NWS/NHC)

- 3:15 pm: JHT Project 1: Evolutionary Programming for Probabilistic Tropical Cyclone Intensity Forecast – Paul Roebber, Clark Evans, Jesse Schaffer (UW-Milwaukee)
- 3:30 pm: JHT Project 2: Improvements to Operational Statistical Tropical Cyclone Intensity Forecast Models Using Wind Structure and Eye Predictors – Galina Chirokova (CSU/CIRA), John Kaplan (AOML/HRD)
- 3:45 pm: JHT Project 3: Improvements and Extensions to an Existing Probabilistic TC Genesis Forecast Tool Using and Ensemble of Global Models – Bob Hart and Dan Halperin (FSU)
- 4:00 pm: JHT Project 4: Estimation of Tropical Cyclone Intensity Using Satellite Passive Microwave Observations – Haiyan Jiang (Florida Intl Univ.)
- 4:15 pm: JHT Project 5: Transition of Machine-Learning Based Rapid Intensification Forecasts to Operations – Andrew Mercer and Kimberly Wood (MSU)
- 4:30 pm: JHT Project 6: Ensemble-based Pre-genesis Watches and Warnings for Atlantic and North Pacific Tropical Cyclones – Russ Elsberry (UC-CS)
- 4:45 pm: Questions for JHT

5:00 – 5:35 pm Session 10: Final Plenary Session

- 5:00 pm: WG/HWSOR Report, Dr. Mark DeMaria (NCEP/NHC), Chairperson
- 5:15 pm: Conference action items: David Chorney (OFCM)
- 5:30 pm: Presentation of the Richard H. Hagemeyer Award: Michael Bonadonna, Acting Federal Coordinator for Meteorological Services and Supporting Research

5:35 pm: Adjourn and End Conference