

2020 COASTAL Act Annual Meeting Agenda
9/28-9/30

Monday September 28 12:00 pm – 17:00pm ET
Tuesday September 29 13:00 pm – 17:00pm ET
Wednesday September 30 13:00 pm – 17:00pm ET

Virtual - Google Meeting

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<https://global.gotomeeting.com/join/631674837>

Telecon: 877-985-3644; Passcode 5846644#

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Please upload your slides to the [Presentations folder](#) by September 28th

Day 1: Monday, September 28, 2020

Virtual - Google Meeting
Meeting ID
meet.google.com/ruy-afin-usq
Phone Numbers
(US)+1 317-936-9516
PIN: 427 841 684#

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<https://global.gotomeeting.com/join/643373941>

Telecon: 877-985-3644; Passcode 5846644#

13:00 – 13:30

COASTAL Act Program Overview (Kurkowski/Huang)

Notetakers: Sikchya

- 2019 accomplishments
- Validation of storms; 90% accuracy - Should have completed CONUS storms
- 90 day workflow - scripting should be completed for all components
- Development of post-storm assessments
- Extending to OCONUS
- Exporting model output to CWWED (formatting)
- 2020 hurricane season NSEM testing in real-time; Florence testing with DHC
- HRRR w/HWRF
- HPC for operational implementation

13:30 - 14:30

90 Day CONOPS Team Discussion (Kurkowski, Van der Westhuisen)

Notetakers: Maoyi

- HPC considerations
- Strategy to handle concurrent storms

14:30 - 14:45 Break

14:45 - 15:45 CWWED Update (Del Greco, Flack)

Notetakers: Maoyi

Del Greco will open up with a brief presentation followed by Flack demoing a total “end to end” CWWED process. Assuming 30-40 minutes to present followed by 10-20 minute Q&A.

DelGreco and Flack will discuss the need for model data to be provided to the CWWED on structured grids; thus far, unstructured data has been provided and the CWWED development team has had to reformat.

15:45 - 16:30 Digital Elevation Models / HSOFS grid updates

(Stroker, Amante, Love, Calzada, Moghimi)

Notetakers: Sikchya

- Status of development areas / map and update on progress (Amante)
- Areas of focus in 2020-2021 (Amante)
- Extending to OCONUS (Amante) - 25 mins for 1st three items and discussion
- ESTOFS/HSOFS grid updates (NOS, Jaime Calzada/Saeed Moghimi) - 30 mins

16:30 - 17:00 Day 1 wrap-up (Kurkowski/Huang)

Day 2: Tuesday, September 29, 2020

Virtual - Google Meeting
Meeting ID
meet.google.com/aah-kwye-ouj
Phone Numbers
(US)+1 928-793-9128
PIN: 732 453 377#

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- 13:00 – 13:15** **Summary of Day 1; Charge for Day 2 (Kurkowski/Huang)**
- 13:15 – 14:00** **Wind and Surface Pressure Hindcasts, Analyses, Downscaling**
(Mehra, Ma, Shrestha, Kumar, Abdolali)
Notetaker: Sikchya
- **Part I (10 minutes)**
 - (a) Plans for HWRF (Ma -- 1 slide)
 - (b) Plans for URMA (Shrestha -- 1 slide)
 - (c) Plans for LES (Kumar -- 1 slide)
 - **Part II (25 minutes)**
 - HWRF/HRRR/LES -- (Abdolali, Ma, Kumar)
 - **Part III (10 minutes)**
 - Transition from HWRF to HAFS (Mehra)
- 14:00 - 14:45** **Update on MRMS/HRRR Precipitation Projects & NSSL**
Products/Services (Grams, Alexander)
Notetakers: Maoyi
- Status of 15-min resolution precipitation data input to NWM

- NSSL MRMS updates
- Severe weather products and services for use in PSA

14:45 - 15:00 **Break**

15:00 - 15:45 **Storm Validation / 90% Accuracy Methodology**
(Van der Westhuysen, Abdolali, Moghimi)

Notetaker: Sikchya

- Methodology/approach
- Feedback/engagement with FEMA
- Wind/wave ensemble simulations and uncertainty analysis, error propagation
- Semi-automated storm surge validation/reporting (Myers and Moghimi)
- Discussion

15:45 - 16:45 **National Water Model Updates**
(Flowers, Westcott, Allen, Mashriqui, Kahn, Trimble)

Notetakers: Maoyi

- Status and plans - East & Gulf Coasts, OCONUS
- Validation of storms for East and Gulf Coasts
- Status of geospatial data
- Status of CONOPS scripting
- Status of higher resolution precipitation input into NWM (OWP)
- NWM-ADCIRC coupling (OWP - NOS) - 30 mins

16:45 - 17:00 **Day 2 Wrap-Up (Kurkowski/Huang)**

Day 3: Wednesday, September 30, 2020

Virtual - Google Meeting
Meeting ID
meet.google.com/ari-kfqe-zkm
Phone Numbers
(US)+1 304-988-5209
PIN: 907 200 363#

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12:30 – 12:35 **Summary of Day 2; Charge for Day 3 (Kurkowski/Huang)**

12:35 - 13:20 **National Hurricane Center Operations (Fritz, Rhome)**
Notetakers: Maoyi

- Overview of operational timeline
- Partnerships/coordination on deployment of sensors
- Coordination of HWMs
- Status of operational storm surge projects

13:20 – 14:40 Coastal Wave - Surge - Inland Coupling
(Mehra, Van der Westhuysen, Abdolali, Myers, Vinogradov, Moghimi, Calzada)

Notetakers: Maoyi

- Workflow scripting (wind/water) and OCONUS plans (Van der Westhuysen, Myers, Vinogradov, Moghimi)
- WW3 optimization and validation (Abdolali)
- ADCIRC/WW3 Grids (Led by Myers and Moghimi)
- (ADCIRC validation of storms (NOS)

14:40 - 14:50 **Break**

14:50 - 16:50

Open Discussion, Actions, Parking Lot Items (Kurkowski and all)

Notetakers: Maoyi and Sikchya

- **Post Storm Assessment generation - Testing of storms starting in 2021**
- If additional time is needed for the following topics, we will discuss:
 - CONOPS/scripting
 - Validation
- **Structured model data provision for the CWWED (see minutes from 8/3 biweekly mtg)**
 - require structured model output that meets CF-convention in CWWED.
 - Do we want to cover the entire hurricane timeframe or subset in CWWED?
 - Discuss which resolution to use for WRF-ARW LES, HWRF; Utilize wind values provided in post storm assessments (HWRF or WRF-ARW)
 - Outcome of potential solution of posting native model results and using a SQL database (alternatively, tile or hybrid solutions) to interpolate native meshes to the desired grid (per 8/17 bi-weekly COASTAL Act meeting). Note: There is a concern over I/O and scope creep by the CWWED team.
- **HRRR w/HWRF**
- **OCONUS**
- **Optimal use of observations in model validation (e.g. ASOS, mesonet, HRD analysis, academia obs); Integration with WG-DIAP group / observations**
- **Embedding severe weather (e.g. tornado reports, etc) into post-storm assessments**
- **Potential model updates and observational upgrades needed**

after implementation (e.g. AI)

16:50 - 17:00

Meeting Wrap-Up / Actions / Closing remarks (Huang/Kurkowski)