

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

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

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13:00 – 13:30

COASTAL Act Program Overview (Kurkowski/Huang)

Notetakers: Sikchya

- 2020 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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Telecon: 877-985-3644; Passcode 5846644#

- 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](#) (15 min)
- [GSL HRRR updates](#) (15 min)
- 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](#) (Britzolakis, Moghimi, Myers)
- Discussion

15:45 - 16:45 **[National Water Model Updates](#)**

(Flowers, Westcott, Allen, Mashriqui, Khan, 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 – 12:40 **[Summary of Day 2; Charge for Day 3](#) (Kurkowski/Huang)**

12:40 - 13:25 **[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

13:25 – 14:45 Coastal Wave - Surge - Inland Coupling

(Mehra, Van der Westhuysen, Abdolali, Myers, Vinogradov, Moghimi, Calzada)

Notetakers: Sikchya

- [Workflow scripting \(wind/water\) and OCONUS plans](#) (Van der Westhuysen, Myers, Vinogradov, Moghimi, Abdolali)
- [WW3 optimization and validation](#) (Abdolali)
- [OCONUS ADCIRC/WW3 Grids](#) (Led by Myers and Moghimi)
- [Inland - coastal connection in ADCIRC](#) (Moghimi, Myers)

14:45 - 15:00

Break

15:00 - 16:50

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

Notetakers: Maoyi and Sikchya

- **Added, based on Day 1 Discussions:**
 - WCOSS challenges
 - intermediary server between CWWED and WCOSS,
 - API for observational data to facilitate NSEM validation (Andre's request of Danny),
 - [Collaboration w/USGS on higher resolution grids for observations](#)(Ali)
 - consistency between DEMs to generate model grids

- **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
- **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)