



*From time to time really exciting things happen at UCAR and we will be sending you news splashes to keep you up to date!*

Hello Staff,

I'm pleased to announce that the Cooperative Programs for the Advancement of Earth System Science (CPAESS) is hosting a seminar with Dr. Saeed Moghimi on his research at NOAA's National Ocean Service.

**Storm Surge Modelling: Research,  
Development, and Operational Services**  
**Tuesday, June 22, 2021**  
**2:00pm MST**

You are all welcome to attend. This virtual presentation will take place on Zoom. To register please contact [Whitney Robinson](#). Abstract details [can be found here](#).

If you have any questions feel free to [reach out to me](#).

Thanks,

A handwritten signature in black ink, appearing to read 'Whitney'.

A flyer for a seminar. The top section is teal with the UCAR logo and CPAESS logo. Below that is a dark blue header with the seminar title. The main body is light blue and contains an abstract, a speaker bio, and contact information. The bottom section is a light grey footer with more contact details.

**UCAR**  
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Cooperative Programs for the  
Advancement of Earth System Science

**NOAA National Ocean Service Storm Surge Modelling: Research,  
Development and Operational Services**

**ABSTRACT**

National Ocean Service's (NOS) Office of Coast Survey (OCS) develops NOS' storm surge modeling infrastructure to continually advance the current Operational coastal flooding inundation Forecasting Systems (OFS). The goal is to provide high quality guidance to the end users and stakeholders in public and private sectors. NOS/OCS' storm surge modeling team engages in research, development and operational support of the NOS' storm surge modeling portfolio. The current operational responsibilities include supporting the operational Extratropical Surge and Tide Forecast System (ESTOFS) and operational Hurricane Surge On-Demand Forecast System (HSOFS). As a major upgrade, the next generation Global ESTOFS recently superseded the US East and Gulf coasts and the Caribbean (ESTOFS-Atlantic), US West Coast and Hawaii (ESTOFS-Pacific), and for the US Territories in Micronesia from Palau to Marshall Islands (ESTOFS-Micronesia) systems with a higher spatial resolution and additional ocean physics such as self-attraction and loading, and internal tide induced energy conversion.

NOS/OCS' storm surge modeling team in close collaboration with other NOAA line offices and its academic partners are working towards establishing a seamless flexible coupling framework among atmosphere, coastal ocean, surface waves, sea-ice and inland hydrology models through NOAA's Water Initiative, COASTAL Act Program and other NOAA wide efforts. I will present recent developments into a coupled surge-inland hydrology application that is built off the framework of our NUOPC-coupled wave-surge application (Moghimi et al. [2019, 2020]). Consequences of the compound inland-coastal flooding in the coastal inundation is evaluated for the number of recent storms in the U.S. Atlantic coast (Huang et al., 2021; Ye et al., [2020, 2021]; Zhang et al., 2020).

**Dr. Saeed Moghimi**

Date:  
Tuesday, June 22, 2021

Time:  
2:00PM MT

For live stream info email  
wrobs@ucar.edu

For more information and attendance details,  
contact Whitney Robinson, CPAESS Program Administrator, at wrobs@ucar.edu  
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