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Public Information Statement 19-29 Updated
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From: Dr. Thomas Graziano
 Director, Office of Water Prediction

Subject: Updated: Soliciting Comments on the Experimental Water
Information Interface Webpage until December 31, 2021

Updated to extend comment period through December 31, 2021.

The NWS is updating capabilities and extending the comment period on the
Experimental Water Information Interface Webpage until December 31, 2021.

Effective August 2016, the National Water Center (NWC) within the NWS
Office of Water Prediction (OWP) began hosting water information from the
National Water Model (NWM) on its Experimental Water Information Interface
Webpage.

The Experimental Water Information Interface Webpage is a mapping
interface that allows users to display a range of water information, such
as snow depth, snow water equivalent, and the NWM output. NWM output
includes streamflow, streamflow anomaly, soil saturation images, and
hydrograph displays for 2.7 million river reaches depicting short-,
medium-, and long-range streamflow forecasts. Information is available
for the contiguous United States including the Great Lakes and Lake
Champlain drainage basins, Hawaii, Puerto Rico, and U.S. Virgin Islands
(USVI). Ensemble information is provided for the medium- and long-range
streamflow forecasts.

This webpage has been updated for this comment/review period to include
the following new/modified features:

- First-time display of NWM coverage for Puerto Rico and USVI,
complementing River Forecast Center (RFC)-sourced streamflow forecasts
with island-wide hydrologic guidance.
- Expansion of streamflow modeling and data assimilation coverage to the
Great Lakes and Lake Champlain Basins, allowing for a full accounting of
inflow into the Great Lakes.
- Ability to display the medium range and long-range ensembles of
streamflow.
- Increase in the output frequency of Medium-Range (ensemble members 1
through 7) forecast streamflow from 3-hourly to hourly.
- Elimination of the 06 Coordinated Universal Time (UTC) and 18 UTC Hawaii

Short-Range forecast cycles and reduction of forecast length from 60 to 48 hours (due to alterations in forcing data).

- Increase of output frequency of Hawaii hydrologic output files from once per hour to every 15 minutes at 00, 15, 30 and 45 past the hour.

The NWM is an hourly hydrologic analysis and forecast system that provides streamflow for 2.7 million river reaches and other hydrologic information on 1km and 250m grids. The NWM has a multi-scale, parallelized, process-based water cycle modeling capability. With the update to version 2.1, the NWM system provides multiple hydrologic new analysis products and forecast output for the contiguous United States, Hawaii, Puerto Rico, and USVI across a range of forecast lead times that are now available through the Experimental Water Information Interface Webpage. These guidance products will be combined with other data from NOAA to provide the nation with comprehensive information on a range of water-related concerns such as snowpack, soil moisture, and potential areas of flooding.

Users will be able to view data for the contiguous United States, Hawaii, Puerto Rico and USVI via the interactive map viewer on the NWC webpage at:

<http://water.noaa.gov/map>

Data sets available for display include:

- Snow depth images
- Snow water equivalent images
- Forecast streamflow images including ensembles
- Forecast streamflow anomaly images
- Forecast soil saturation images
- Forecast precipitation images.

In addition to GIS-based displays, the mapping interface also includes hydrograph displays for 2.7 million river reaches depicting short-, medium-, and long-range streamflow forecasts.

Additionally, a full set of NWM output data and a subset of forcing files will be available on the National Model Archive and Distribution System (NOMADS) and NOAA's National Centers for Environmental Prediction (NCEP) FTP server at:

<http://nomads.ncep.noaa.gov/pub/data/nccf/com/nwm>

and:

<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/nwm>

The Product Description Document for the Experimental Water Information Interface Webpage can be accessed from:

https://nws.weather.gov/products/PDD/PDD_ExpWaterInformationInterfaceWebpage_2021.pdf

Please provide feedback on the Experimental Water Information Interface Webpage at:

https://www.surveymonkey.com/r/ExpWaterInformationInterfaceWebpage_2020

If you have questions or comments, please contact:

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National Public Information Statements are online at:

<https://www.weather.gov/notification/archive>

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