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Service Change Notice 16-35
National Ocean Service Office of Coast Survey Silver Spring MD
Relayed by the National Weather Service
1145 AM EDT Thu Sep 29, 2016

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPORT
 Other NWS and NOS Partners and NOAA Employees

From: Edward Myers
 Chief, Coastal Marine Modeling Branch
 Coast Survey Development Laboratory
 NOS/Office of Coast Survey

Subject: Amended: Addition of a map service to NOAA's nowCOAST(tm) to
 provide access to NWS/National Hurricane Center's
 Potential Storm Surge Flooding Map Effective
 Wednesday, September 28, 2016

Amended to change date from Oct. 5 to Sept. 28, 2016 due to possible
Critical
Weather Day next week

As of 3 PM EDT Wednesday, September 28, 2016, the NOAA nowCOAST(tm)
(nowcoast.noaa.gov) provides access to the NWS/National Hurricane Center
Potential Storm Surge Flooding Map via web mapping services. Users can
access the Potential Storm Surge Flooding Map using two different
protocols: ArcGIS Representational State Transfer (REST) Map Service and
OGC Web Map Service (WMS). This service will allow NOAA users to
integrate this map with their own map layers such as coastal evacuation
routes and critical infrastructure on client- or server-based Geographic
Information Systems or other mapping applications. In addition, users
will also be able to view the NHC map via the nowCOAST map viewer.

The Potential Storm Surge Flooding Map was developed by the NHC over the
course of several years in consultation with social scientists, emergency
managers, broadcast meteorologists, and others. The map is intended to
depict the risk associated with coastal flooding from storm surge
associated with tropical cyclones. On June 1, 2016 it became an
operational product, issued on demand for certain tropical cyclones that
are expected to affect the Atlantic or Gulf Coasts of the United States.

The nowCOAST map service will provide access to the latest official NWS
Potential Storm Surge Flooding Map which depicts the geographical areas
where inundation from storm surge could occur along with the heights,
above ground, that water could reach in those areas. These potential
heights are represented with different colors based on water level:

Greater than 1 foot above ground (blue)

Greater than 3 feet above ground (yellow)
Greater than 6 feet above ground (orange)
Greater than 9 feet above ground (red)

Two versions of this graphic are provided in this map--one with a mask (depicted in gray) identifying Intertidal Zone/Estuarine Wetland areas and another version without the Intertidal Zone/Estuarine Wetland mask. Two additional layers are provided to depict first, the full geographic extent for which the map is presently valid (the "map boundary"), and second, Levee Areas, if any, within the affected area (symbolized with a black-and-white diagonal hatch pattern). If the map is not presently active, all layers will be blank except for the Map Boundary layer, which will display a gray shaded region indicating the coverage area for any potential future graphics along with a text label indicating that the map is not presently available.

The nowCOAST map service will be updated approximately every 10 minutes to ensure the latest information is provided to the user as soon as it becomes available. Once issued, the Potential Storm Surge Flooding Map will be updated by NHC every 6 hours alongside each new NHC Forecast Advisory for the associated tropical cyclone. Due to processing requirements, however, during the creation of this product, the map will be available approximately 60 to 90 minutes following the release of the associated Forecast Advisory, at which point nowCOAST will acquire it and update this map service within the next 10 to 20 minutes (i.e., this product will be updated on nowCOAST within approximately 70 to 110 minutes after the associated forecast advisory is released).

This new nowCOAST map service can be found at
http://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/wwa_meteocean_tropicalcyclones_inundation/MapServer

Additional information about NHC's Potential Storm Surge Flooding Map can be found at
<http://www.nhc.noaa.gov/pdf/PDD-PotentialStormSurgeFloodingMap.pdf>

nowCOAST provides coastal intelligence on present and future environmental conditions for coastal and maritime users by integrating data and information from across NOAA and other federal and state agencies. nowCOAST was developed by NOS' Coast Survey Development Laboratory, and is hosted on NOAA's Integrated Dissemination Program (IDP) infrastructure where it is monitored 24 x 7 by NWS/NCEP Central Operations.

For questions concerning this new map service, please contact:

John G.W. Kelley
NOS Co-Project Manager
NOS/OCS/CSDL/CMMB
Silver Spring, MD
Email: nowcoast.team@noaa.gov

Nipa Parikh
NWS Co-Project Manager

NWS/OD/IDP
Silver Spring, MD
Email: nipa.parikh@noaa.gov

For questions concerning the NHC Potential Storm Surge Flooding
Map, please contact:

Jamie Rhome
Storm Surge Specialist and Team Lead
NWS/NCEP/NHC Storm Surge Unit
Miami, FL
Email: Jamie.r.Rhome@noaa.gov

For information about NOAA/IDP, please contact:

Michelle M. Mainelli
NOAA Integrated Dissemination Program Manager
NWS Office of Dissemination
Silver Spring, MD
Email: Michelle.M.Mainelli@noaa.gov

National Service Change Notices are online at:

<http://www.weather.gov/os/notif.htm>

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