

Product/Service Description Document
NDFD Precipitation and Hazards Display in the Hydromet Database
Hydrometeorological Event Display

Part I - Mission Connection

- a. Product/Service Description - The National Weather Service (NWS) Eastern Region (ER) Hydromet Database Hydrometeorological Event Display provides real-time National Digital Forecast Database (NDFD) gridded precipitation and hazards fields across a fifteen state area encompassing the eastern United States. Currently, users have to access a multitude of NWS and non-NWS sources in order to retrieve NDFD gridded forecast precipitation fields and hazards.
- b. Product Type - Experimental. A national version of this regional prototype will product will be developed and for use by all regions before transitioning to operational status.
- c. Purpose - The purpose of this experimental website is to provide ER customers and partners a simple, standardized web-based portal to access NDFD forecast grids and hazard information from ER Weather Forecast Offices in real-time for pre-event, ongoing and post-event decision support. This website supports NOAA's Mission Goals of Serving Society's Needs for Weather and Water Information and Supporting the Nation's Commerce with Information for Safe, Efficient, and Environmentally Sound Transportation as well as NWS Decision Support Services.
- d. Audience - The target audience for this experimental product are federal, state, county, and local emergency managers, other government public safety/first responder officials, other NWS offices, and the general public.
- e. Presentation Format - Figure 1 shows the NDFD presentation format from the ER Hydrometeorological Event Display. The user interface uses radio buttons and selectable drop down menus to retrieve NDFD gridded precipitation forecasts and hazard information. The display utilizes the Google Maps API to provide the map overlays and zoom toggles.
- f. Feedback Method - A web survey will be used to obtain user feedback. The survey is available at the following link:

E-mail comments regarding the experimental NDFD display of the Hydromet Database and Hydrometeorological Event Display should be sent to: John.Koch@noaa.gov

The comment period runs from July 1, 2011 to June 30, 2012.

Technical comments for the Experimental NDFD display of the Hydromet Database and Hydrometeorological Event Display should be addressed to:

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Part II - Technical Description

- a. Format and Science Basis: See Figure 1 for description of the format and web user interface.
- b. Availability: The website will run 24 hours per day and be monitored by NWS staff. The website will be made available to all WFO's in the coverage region.
- c. Additional Information: National Weather Service Instruction (NWSI) 10-506, Digital Data Products/Services Specification provides detailed information on both experimental and operational elements in NDFD.

Figure 1 – NDFD display in the Eastern Region Hydrometeorological Event Display

