Collaborative Flood Forecast Process Interagency Recovery Task Force

June 22, 2011 Memphis, TN









Interest/Authorities in flood recovery

- NWS Organic Act provides authority to forecast rivers and issue water-related warnings.
- National Weather Service (NWS) Mission

The NWS provides weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy. NWS data and products form a national information database and infrastructure which can be used by other governmental agencies, the private sector, the public, and the global community."

 NWS products and services support response and recovery operations.







What worked well

- NWS pre-flood webinar with national/regional FEMA offices.
- Communication, coordination, and collaboration amongst partner agencies at local, state, and federal level.
- Communication and coordination with external stakeholders, media, and the general public.
- Real-time changes to "community" hydraulic model to account for floodway operations.
- Daily NWS/COE flood coordination briefing to support management of reservoir operations.
- Enhanced NWS web page to provide easy access to short/long term lower MS River forecast information.









What worked well

- Use of 5 days of forecast rainfall to generate short/long-range lower MS River flood forecasts.
- Use of 10 days of forecast rainfall to generate contingency forecasts for lower MS River to support emergency management.
- Public access to flood inundation maps to convey flood risk.
- Posting flood graphicasts on NWS office home pages to provide easy access to current/historical flood crest information.
- Pre-positioning rapid deployment stream gages for backup gage support.

Top 5 flood recovery priorities/challenges

- Development of a "community" hydraulic model for the lower MS River. Enhancement of current "community" model to account for backwater and floodway operations.
- Short- and long-range ensemble river forecast information.
- Better understanding of partner/customer operations and requirements to enhance delivery of decision support services.
- Common operating picture (e.g., flood inundation mapping, one-stop shop location for water information).
- Model performance









General Expectations

- MS River Interagency Fusion Cell will continue to address collaborative flood forecast priorities/challenges outlined in this presentation
- Recent interagency MOU signed by NOAA, COE, and USGS will help identify/pool resources to address certain priorities/challenges (e.g., data interoperability, flood mapping, common operating picture).
- Integrated Water Resources Science and Services (IWRSS) initiative – possible funding source in the future.









Contact Information

Email - <u>ben.weiger@noaa.gov</u> Phone No. - 817-978-1100, ext. 118 Cell number - 817-966-4185







