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Public Information Statement, Comment Request
National Weather Service Headquarters Washington DC
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From: Tim McClung
 Chief, Science Plans Branch
 Office of Science and Technology

Subject: Soliciting Public Comments through July 30, 2014 on Experimental High-Resolution Model Output Statistics (HRMOS) Probabilistic Quantitative Precipitation Forecast (PQPF) Guidance

Through July 30, 2014, NWS is seeking user feedback on the experimental Global Forecast System (GFS)-based High Resolution Gridded Model Output Statistics (HRMOS) probabilistic quantitative precipitation forecast (PQPF) guidance.

The experimental HRMOS PQPF guidance provides gridded probabilities for multiple precipitation exceedance thresholds for 6- and 12-hour periods in the 12-156 hour range over the continental United States (CONUS). Predicted precipitation amounts are for 4-km square boxes of the 4-km Hydrologic Rainfall Analysis Project (HRAP) grid, which is Polar Stereographic. PQPFs on this grid are interpolated to the CONUS 2.5 km National Digital Forecast Database (NDFD) grid, which is Lambert Conformal Conic, for dissemination. For the 6-hour periods, the precipitation exceedance thresholds are 0.10, 0.25, 0.50, 0.75, 1.00 and 2.00 inch and greater; for the 12-hour periods, 3.00 inch and greater is an additional threshold.

The enhanced spatial resolution of HRMOS PQPFs results from application of archived Stage IV quantitative precipitation estimates and high-resolution precipitation climatology and topography data. Dynamic interaction of the climotopographic data with GFS model output predictors results in enhanced spatial resolution in the HRMOS PQPFs. Further information about this experimental guidance is online at:

<http://www.weather.gov/mdl/hrqpf/pgpfmain.php>, which contains links to graphical PQPF maps:

<http://www.weather.gov/mdl/hrqpf/pgpfgridded.php>

downloadable gridded binary, version two (GRIB2) files:

<http://www.weather.gov/mdl/hrqpf/pgpfdownload.php>

publications:

<http://www.weather.gov/mdl/hrqpf/pgpfpublications.php>

and a user feedback form:

<http://www.nws.noaa.gov/survey/nws-survey.php?code=HRQPF> which users are encouraged to complete.

If you have technical comments or questions, please contact:

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