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Public Information Statement 24-11
National Weather Service Headquarters Silver Spring MD
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From: Judy Ghirardelli, Chief
 Decision Support Division
 Meteorological Development Laboratory

Subject: Soliciting Comments on the Proposed Upgrade of LAMP and Gridded LAMP Guidance and the Discontinuation of Web Station Plots through March 25, 2024

The Decision Support Division (DSD) of the Meteorological Development Laboratory (MDL) is proposing to implement Localized Aviation Model Output Statistics (MOS) Program (LAMP) and Gridded LAMP (GLMP) Version 2.6 in Summer 2024. Additionally, MDL/DSD is proposing to discontinue a legacy webpage that displays LAMP station forecast images. The NWS is seeking public comments on these proposed changes through March 25, 2024. If approved, a Service Change Notice (SCN) will be issued at least 30 days prior to the implementation of these changes with more detailed information.

LAMP/GLMP v2.6 will include the following enhancements/changes in support of the National Blend of Models (NBM) and other NWS initiatives:

1) Addition of station-based guidance for ceiling height and visibility valid for 15-minute periods out to six hours, updated every 15 minutes (96 cycles per day). This will include guidance for the lowest category ceiling height and lowest category visibility condition that is forecast to occur during each 15-minute period. The guidance will be produced in a text bulletin format that displays ceiling height and visibility categories valid for 15-minute periods out to six hours for 1841 contiguous U.S. (CONUS) stations. If approved, the 15-minute guidance in text bulletin format will be made available on NCEP Web Services (NOAA Operational Model Archive and Distribution System (NOMADS)) when LAMP v2.6 is implemented in Summer 2024. There are no plans to disseminate the 15-minute text guidance over the Satellite Broadcast Network (SBN) at this time.

2) Addition of GLMP guidance for ceiling height and visibility valid for 15-minute periods out to six hours, updated every 15 minutes (96 cycles per day). This will include probabilistic and deterministic guidance for the lowest ceiling height and lowest visibility condition that is forecast to occur during each 15-minute period. The guidance will be produced in gridded binary version two (GRIB2) format on the NBM CONUS domain for the

following variables:

1. Deterministic ceiling height (m)
2. Probability of ceiling < 500 ft (%)
3. Probability of ceiling < 1,000 ft (%)
4. Probability of ceiling <= 3,000 ft (%)
4. Deterministic visibility (mi)
5. Probability of visibility < 1 mi (%)
6. Probability of visibility < 3 mi (%)
7. Probability of visibility <= 5 mi (%)

If approved, the 15-minute GLMP guidance will be made available in GRIB2 format on NCEP Web Services (NOMADS) when GLMP v2.6 is implemented in Summer 2024. There are no plans to disseminate the 15-minute GLMP guidance over the SBN at this time.

3) Minor bug fixes that will include: A) Addition of a post-processing check for GLMP wind gusts to prevent negative values from occurring on the grid; B) An adjustment to the LAMP advection model to prevent large visibility values from advecting over the station in rare cases of high winds; and C) Removal of a problematic mesonet station (TRJHS) from the GLMP temperature/dewpoint analysis.

4) Discontinuation of the legacy station forecast images webpage that displays station point guidance for various LAMP elements, located at the following address: <https://www.nws.noaa.gov/mdl/gfslamp/stnplots.php>.

This information can mostly be found elsewhere, specifically in the LAMP meteograms at <https://www.nws.noaa.gov/mdl/gfslamp/meteoform.php> and from the GLMP image viewer at <https://www.nws.noaa.gov/mdl/gfslamp/glmp.php>.

The webpage above which is being proposed for discontinuation is a legacy webpage that was introduced before Gridded LAMP was developed and is currently hosted on a server that will soon be decommissioned. Given that the information can be found elsewhere and the level of effort that would be needed to transition this webpage to a new server, NWS is proposing discontinuation of the station page. If approved, the discontinuation of the legacy station plot webpage will be effective prior to the June 2024 web server decommissioning and will be announced via a future SCN. The other LAMP and Gridded LAMP webpages will be transitioned to a new server, and details about that will be found in the future SCN.

Expected benefits of this LAMP upgrade include:

- 1) The addition of station-based and gridded guidance for ceiling and visibility valid for 15-minute periods out to six hours, updating every 15 minutes (96 cycles per day), will provide higher temporal resolution guidance for ceiling height and visibility to aviation users.
- 2) The addition of a post-processing check for GLMP wind gusts and the removal of the problematic station from the GLMP temperature and dewpoint analyses will improve the quality of the gridded guidance for users.

3) The adjustment to the LAMP advection model will limit unreasonable temperature/dewpoint LAMP station forecasts, particularly for stations in Hawaii.

The website below contains additional information about the LAMP/GLMP v2.6 upgrade and links to sample prototype guidance:

<https://vlab.noaa.gov/web/mdl/experimental-lamp>

Note that data on the experimental LAMP webpage is subject to outages when the development Weather and Climate Operational Supercomputing System (WCSS) machine is unavailable for maintenance or if input data is otherwise unavailable. Also note that these experimental web pages will be available through the user evaluation for feedback purposes only and will not be continued thereafter.

For providing comments on the above changes to LAMP and Gridded LAMP guidance, please use the feedback form which can be accessed via this link:

<https://forms.gle/mD4iYREyBGJSN8of8>

Alternatively, you can provide comments by sending an email with "Feedback on Proposed LAMP/GLMP v2.6 Upgrade" in the email subject to:

Judy Ghirardelli
Email: judy.ghirardelli@noaa.gov
Meteorological Development Laboratory
Decision Support Division Chief
Silver Spring, MD
and/or

Phil Shafer
Email: phil.shafer@noaa.gov
Meteorological Development Laboratory
Decision Support Division
LAMP Team Lead
Silver Spring, MD

The NWS and MDL will evaluate all comments on the proposed changes to determine whether to proceed with the upgrade.

Links to LAMP products and descriptions can be found at:

<https://vlab.noaa.gov/web/mdl/lamp>

National Public Information Statements are online at:

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

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