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PNSWSH

Public Information Statement 18-01 Updated
National Weather Service Headquarters Silver Spring MD
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From: Brian Gross, Acting Director
 NCEP/Environmental Modeling Center

Subject: Updated: Soliciting Public Comments on the Proposed Upgrade of
the NLDAS Operational System through April 9, 2018

Updated to change the day latency in the North American Land Data
Assimilation System (NLDAS) v2.0 from 4.5 (as noted in the original PNS)
to 3.5.

The Environmental Modeling Center (EMC) is proposing to upgrade the NLDAS
during summer of 2018. The NWS is seeking comments on this proposed
change through April 9, 2018.

On February 1, 2018, EMC began disseminating experimental real-time NLDAS
v2.5 products to users. This was announced in an evaluation letter that
was distributed on February 7, 2018.

The official evaluation page is located at:

Real-time data:
EMC NLDAS output (NLDAS 2.5):
ftp://ldas.ncep.noaa.gov/experimental_NLDAS2.5/dev

National Centers for Environmental Prediction (NCEP) Central Operations
(NCO) operational output (NLDAS 2):
<ftp://www.ftp.ncep.noaa.gov/pub/data/nccf/com/nldas/prod/>

Near real-time graphical imagery from the NLDAS v2.0 (NLDAS drought
monitor) is available at:
<http://www.emc.ncep.noaa.gov/mmb/nldas/drought/>

Real-time graphical imagery from the NLDAS v2.5 (NLDAS drought monitor) is
available at:
<http://www.emc.ncep.noaa.gov/mmb/nldas/NLDAS2/drought/>

Historical data archive:
NLDAS v2.5:
ftp://ldas.ncep.noaa.gov/experimental_NLDAS2.5/dev

NLDAS v2.0:

EMC LDAS website: ftp://ldas.ncep.noaa.gov/nldas2/nco_nldas

The North American Land Data Assimilation System (NLDAS v2.0) is being upgraded to real-time NLDAS v2.5. The purpose of NLDAS v2.5 is to close the 3.5-day latency in NLDAS v2.0. To achieve this goal, the NLDAS team uses the newly upgraded NAMv4 (North American Mesoscale forecast system version 4) and its associated analysis component, which runs at an hourly cadence, as the meteorological forcing backbone to NLDAS v2.5. The precipitation data come from global Climate Prediction Center (CPC) gauge-based daily precipitation, stage II hourly precipitation and NAMv4 forecast hourly precipitation, respectively. The technical details can be seen in Section 2.3.1 of NCEP LDAS white paper:

[http://www.emc.ncep.noaa.gov/mmb/nldas/White Paper for Next Phase LDAS final.pdf](http://www.emc.ncep.noaa.gov/mmb/nldas/White_Paper_for_Next_Phase_LDAS_final.pdf)

Expected benefits from this upgrade will provide actual real-time products to governmental agencies, academia and private enterprises.

The NWS will evaluate all comments to determine whether to proceed with this upgrade. If approved, a Service Change Notice (SCN) will be issued giving 30 days' notice of the implementation date.

Send comments on this proposal by April 9, 2018 to:

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National Public Information Statements are online at:

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

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