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PNSWSH

Service Change Notice 22-43 Updated
National Weather Service Headquarters Silver Spring MD
330 PM EDT Thu May 26 2022

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners and Employees

From: Greg Schoor, Acting Chief
 Severe, Fire, Public, and Winter Weather Services Branch

Subject: Updated: Wet Bulb Globe Temperature Grids in the National Digital
Forecast Database Will Transition to Operational Status on
June 1, 2022

Updated to correct link for download of NDFD GRIB2 files.

Effective June 1, 2022 at 1400 Coordinated Universal Time (UTC), the Wet
Bulb Globe Temperature (WBGT) grids in the National Digital Forecast
Database (NDFD) will transition from experimental to operational status.

The WBGT is a composite parameter that estimates the effect of
temperature, humidity, wind chill, and solar radiation on humans. This
parameter is an effective means of assessing heat risk to people involved
in physical outdoor activity as it measures heat stress on the body in
direct sunlight.

NWS will provide gridded forecasts of WBGT in the NDFD for the contiguous
U.S. (CONUS), Hawaii, Guam, and Puerto Rico. CONUS data will be available
hourly out to 36 hours from NDFD issuance time, then every 3 hours out to
72 hours from 0000 UTC Day 1, then every 6 hours out to 168 hours from
0000 UTC Day 1. Data for Hawaii, Guam, and Puerto Rico will be available
every 3 hours out to 72 hours from 0000 UTC Day 1, then every 6 hours out
to 168 hours from 0000 UTC Day 1.

In addition, WBGT is currently planned to be added to the hourly weather
graph. More information will be provided when a completion date is known.

NDFD online graphics will be available operationally at:
<https://digital.mdl.nws.noaa.gov/>

WBGT gridded data for forecast days 1-3 and forecast days 4-7 will be made
available via https and ftp from the following URLs:

tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.conus/VP.001-
003/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.conus/VP.004-
007/ds.wbgt.bin

tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.hawaii/VP.001-003/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.hawaii/VP.004-007/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.guam/VP.001-003/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.guam/VP.004-007/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.puertori/VP.001-003/ds.wbgt.bin
tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndfd/AR.puertori/VP.004-007/ds.wbgt.bin

Please see NWS Product Description Document (PDD) for more details:

https://nws.weather.gov/products/PDD/PDD_OplWetBulbGlobeTemperature_2022.pdf

NDFD GRIB2 files can be downloaded and displayed by the user with software available for download at the following URL:

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

Policy questions related to WBGT can be directed to:

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National Service Change Notices are online at:

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

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