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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
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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 three hours
out to 72 hours from 0000 UTC Day 1, then every six hours out to 168
hours from 0000 UTC Day 1. Data for Hawaii, Guam and Puerto Rico will be
available every three hours out to 72 hours from 0000 UTC Day 1, then
every six 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 gridded binary version two (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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