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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-56 AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
730 AM EDT WED JUL 27 2006

TO: SUBSCRIBERS:
-FAMILY OF SERVICES /FOS/
-NOAA WEATHER WIRE SERVICE /NWS/
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/
-NOAAPORT
OTHER NWS CUSTOMERS...PARTNERS AND EMPLOYEES

FROM: PAUL HIRSCHBERG
CHIEF...SCIENCE PLANS BRANCH
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED: ADDITION OF NEW GFS-BASED GRIDDED MOS GUIDANCE:
EFFECTIVE AUGUST 15 2006

REFER TO: [TECHNICAL IMPLEMENTATION NOTICE /TIN/ 05-56](#) TRANSMITTED ON JULY
22 2005 AND [AMENDED TIN 05-56](#) TRANSMITTED ON OCTOBER 5 2005.

THIS NOTICE AMENDS TIN 05-56 TO ANNOUNCE THE IMPLEMENTATION DATE OF AUGUST
15 2006 FOR THE NEW GLOBAL FORECAST SYSTEM /GFS/-BASED GRIDDED MODEL
OUTPUT STATISTICS /MOS/ GUIDANCE. OTHER AMENDMENTS TO THE ORIGINAL TIN
INCLUDE:

- FULL CONTIGUOUS U.S. /CONUS/ GUIDANCE COVERAGE /THE INITIAL EXPERIMENTAL
GRIDDED MOS HAD ONLY THE WESTERN THIRD OF THE NATIONAL DIGITAL FORECAST
DATABASE /NDFD/ GRID POPULATED WITH GUIDANCE/.
- GRIDDED PRODUCTS FOR THE 24-HOUR SNOWFALL AMOUNT WILL BECOME AVAILABLE
AT A LATER DATE.

UNTIL THE AUGUST 15 2006 IMPLEMENTATION...EXPERIMENTAL GRIDDED BINARY
VERSION TWO /GRIB2/ PRODUCTS FOR SOME ELEMENTS ARE AVAILABLE ON THE NWS
FILE TRANSFER PROTOCOL /FTP/ SERVER AT /USE LOWER CASE EXCEPT FOR
SL...ST...DF...DC...GT AND AR/:

[FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT.MOSGFS/AR.C
ONUS](ftp://tgftp.nws.noaa.gov/sl.us008001/st.expr/df.gr2/dc.ndgd/gt.mosgfs/ar.conus)

AS OF AUGUST 15 2006...THESE PRODUCTS WILL BE AVAILABLE AT THE UPDATED
OPERATIONAL NWS FTP SERVER LOCATION GIVEN BELOW /USE LOWER CASE EXCEPT FOR
SL...ST...DF...DC...GT AND AR/:

[FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.OPNL/DF.GR2/DC.NDGD/GT.MOSGFS/AR.C
ONUS](ftp://tgftp.nws.noaa.gov/sl.us008001/st.opnl/df.gr2/dc.ndgd/gt.mosgfs/ar.conus)

ATTENTION USERS OF THE MODEL OUTPUT STATISTICS /MOS/ GUIDANCE:

THE NWS WILL PRODUCE NEW GLOBAL FORECAST SYSTEM /GFS/-BASED GRIDDED MODEL OUTPUT STATISTICS /MOS/ GUIDANCE AND DISSEMINATE IT ON THE SATELLITE BROADCAST NETWORK /SBN/...NOAAPORT AND THE NWS FTP SERVER. THESE GUIDANCE PRODUCTS WILL BE IN GRIB2 FORMAT. THE NEW COMMUNICATION IDENTIFIERS FOR THESE PRODUCTS ARE SHOWN IN TABLE 1 BELOW. THE GRIDDED MOS PRODUCTS WILL CONTAIN GUIDANCE ON THE 5 KM NATIONAL DIGITAL FORECAST DATABASE /NDFD/ CONTIGUOUS U.S. /CONUS/ GRID FOR SELECTED ELEMENTS AT PROJECTIONS OF ONE TO SEVEN DAYS IN ADVANCE.

GRIDS WILL BE GENERATED FROM THE 0000 AND 1200 COORDINATED UNIVERSAL TIME /UTC/ MODEL RUNS. GUIDANCE WILL BE AVAILABLE FOR THE FOLLOWING ELEMENTS WITH OTHERS TO BE ADDED AT A LATER DATE:

- DAYTIME MAXIMUM AND NIGHTTIME MINIMUM TEMPERATURE
- 2-METER SPOT TEMPERATURE
- 2-METER SPOT DEWPOINT TEMPERATURE
- RELATIVE HUMIDITY
- WIND SPEED
- WIND DIRECTION
- PROBABILITY OF PRECIPITATION /6- AND 12-HOUR/
- PROBABILITY OF THUNDERSTORMS /3-...6- AND 12-HOUR/

A WEBPAGE PROVIDING MORE INFORMATION REGARDING PROJECTIONS AND ELEMENTS FOR WHICH GUIDANCE IS AVAILABLE IS REFERENCED BELOW.

INITIALLY...ONLY THE WESTERN THIRD OF THE NDFD GRID WILL BE POPULATED WITH GUIDANCE. THE OTHER TWO-THIRDS OF THE GRID WILL CONTAIN MISSING VALUES. NWS WILL FILL IN THE REMAINDER OF THE GRID AS THE GUIDANCE BECOMES AVAILABLE.

EXPERIMENTAL GRIB2 PRODUCTS FOR SOME ELEMENTS ARE AVAILABLE ON THE NWS FTP SERVER AT /USE LOWER CASE EXCEPT FOR SL...ST...DF...DC...GT AND AR/:

[FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT.MOSGFS/AR.CONUS](ftp://tgftp.nws.noaa.gov/sl.us008001/st.expr/df.gr2/dc.ndgd/gt.mosgfs/ar.conus)

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED GRIDDED MOS GRIB2 PRODUCTS. EACH GRIB2 PRODUCT HAS A UNIQUE WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADER. LISTED BELOW ARE REPRESENTATIONS OF THE WMO HEADERS. A COMPLETE LIST OF GRIDDED MOS WMO HEADERS IS AVAILABLE AT /USE LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS/GMOSHEADERS.PDF](http://www.nws.noaa.gov/mdl/synop/gmos/gmosheaders.pdf)

WMO HEADING	ELEMENT
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LBUXXX KWBQ	WIND DIRECTION
LCUXXX KWBQ	WIND SPEED
LDUXXX KWBQ	12-HOUR PROBABILITY OF PRECIPITATION
LEUXXX KWBQ	2-METER TEMPERATURE
LFUXXX KWBQ	2-METER DEW POINT TEMPERATURE
LGUXXX KWBQ	DAYTIME MAXIMUM TEMPERATURE

LHUXXX KWBQ NIGHTTIME MINIMUM TEMPERATURE
LJUXXX KWBQ 6-HOUR PROBABILITY OF THUNDERSTORMS
LRUXXX KWBQ RELATIVE HUMIDITY
LSUXXX KWBQ 24-HOUR SNOWFALL AMOUNT
LUUXXX KWBQ 6-HOUR PROBABILITY OF PRECIPITATION
LXUXXX KWBQ 12-HOUR PROBABILITY OF THUNDERSTORMS
LYUXXX KWBQ 3-HOUR PROBABILITY OF THUNDERSTORMS

A WEBPAGE OUTLINING THE GRIDDED MOS GUIDANCE AND THE FTP SERVER STRUCTURE
CAN BE FOUND ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS.HTML](http://www.nws.noaa.gov/mdl/synop/gmos.html)

IF YOU HAVE QUESTIONS ABOUT THESE PRODUCTS OR THE MOS GUIDANCE...PLEASE
CONTACT:

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LINKS TO THE MOS PRODUCTS...ALONG WITH DESCRIPTIONS...CAN BE FOUND AT /USE
LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP](http://www.nws.noaa.gov/mdl/synop)

NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATIONS/ARCHIVE](https://www.weather.gov/notifications/archive)

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