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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-56  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1030 AM EDT FRI JUL 22 2005

TO: SUBSCRIBERS:  
-FAMILY OF SERVICES /FOS/  
-NOAA WEATHER WIRE SERVICE /NWWS/  
-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: ADDITION OF NEW GFS-BASED GRIDDED MOS GUIDANCE: EFFECTIVE  
NOVEMBER 29 2005

ATTENTION USERS OF THE MODEL OUTPUT STATISTICS /MOS/ GUIDANCE: NOTE: THIS  
CHANGE IS SUBJECT TO OBTAINING A WAIVER FROM THE TELECOMMUNICATIONS  
OPERATIONS CENTER MORATORIUM ON SYSTEM CHANGES.

ON TUESDAY...NOVEMBER 29 2005...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 FILE TRANSFER PROTOCOL /FTP/ SERVER. THESE GUIDANCE PRODUCTS WILL BE  
IN GRIDDED BINARY VERSION TWO /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/
- 24-HOUR SNOWFALL AMOUNT

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>

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>

WMO HEADING	ELEMENT
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LBXXXX KWBQ	WIND DIRECTION
LCXXXX KWBQ	WIND SPEED
LDXXXX KWBQ	12-HOUR PROBABILITY OF PRECIPITATION
LEXXXX KWBQ	2-METER TEMPERATURE
LFXXXX KWBQ	2-METER DEW POINT TEMPERATURE
LGXXXX KWBQ	DAYTIME MAXIMUM TEMPERATURE
LHXXXX KWBQ	NIGHTTIME MINIMUM TEMPERATURE
LJXXXX KWBQ	6-HOUR PROBABILITY OF THUNDERSTORMS
LRXXXX KWBQ	RELATIVE HUMIDITY
LSXXXX KWBQ	24-HOUR SNOWFALL AMOUNT
LUXXXX KWBQ	6-HOUR PROBABILITY OF PRECIPITATION
LXXXXX KWBQ	12-HOUR PROBABILITY OF THUNDERSTORMS
LYXXXX 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>

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>

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

<HTTPS://WWW.WEATHER.GOV/NOTIFICATIONS/ARCHIVE>

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