

NOUS41 KWBC 221435 AAA
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-56...AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
800 AM EDT WED OCTOBER 5 2005

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

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

SUBJECT: AMENDED: ADDITION OF NEW GFS-BASED GRIDDED MOS
GUIDANCE: EFFECTIVE DATE OF NOVEMBER 29 2005
POSTPONED

REFER TO: TECHNICAL IMPEMETATION NOTICE /TIN/ 05-56
TRANSMITTED ON JULY 22 2005

AMENDED TO POSTPONE EFFECTIVE DATE FOR ADDING GFS-BASED GRIDDED
MOS GUIDANCE FROM NOVEMBER 29 2005 UNTIL FURTHER NOTICE DUE TO
TELECOMMUNICATIONS OPERATION CENTER MORATORIUM ON SYSTEM
CHANGES. A FOLLOW-UP TIN WILL BE ISSUED WHEN A NEW IMPLEMENTATION
DATE IS SET. NOTE THAT EXPERIMENTAL DATA FOR SOME PRODUCTS IS
CURRENTLY AVAILABLE ON THE NWS FTP SERVER AS DESCRIBED BELOW.

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

THE NWS WILL PRODUCE NEW GLOBAL FORECAST SYSTEM /GFS/ -BASED
GRIDDED 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/ CONUS GRID FOR
SELECTED ELEMENTS AT PROJECTIONS OF 1 TO 7 DAYS IN ADVANCE.
GRIDS WILL BE GENERATED FROM THE 0000 AND 1200 UNIVERSAL
COORDINATED 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 WEB PAGE 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 LETTERS EXCEPT FOR
SL...ST...DF...DC...GT...AND AR/:

FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT.MO
SGFS/AR.CONUS

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

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

WMO HEADING ELEMENT

LBUXXX KWBQ WIND DIRECTION
LCUXXX KWBQ WIND SPEED
LDUXXX KWBQ 12-HR 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-HR PROBABILITY OF THUNDERSTORMS
LRUXXX KWBQ RELATIVE HUMIDITY
LSUXXX KWBQ 24-HR SNOWFALL AMOUNT
LUUXXX KWBQ 6-HR PROBABILITY OF PRECIPITATION
LXUXXX KWBQ 12-HR PROBABILITY OF THUNDERSTORMS
LYUXXX KWBQ 3-HR PROBABILITY OF THUNDERSTORMS

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

[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:

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

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

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ON THE INTERNET AT THE /USE LOWER CASE LETTERS/...

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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