

NOUS41 KWBC 241433
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-14
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
935 AM EST THU MAR 23 2006

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER
WIRE SERVICE /NWS/ 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: ADDITION OF NEW GFS-BASED LOCALIZED AVIATION MOS
PROGRAM GUIDANCE: EFFECTIVE JULY 25 2006

EFFECTIVE JULY 25 2006...BEGINNING WITH THE 1500 COORDINATED
UNIVERSAL TIME /UTC/ RUN... NWS WILL PRODUCE NEW SHORT RANGE...
1-25 HOUR...GLOBAL FORECAST SYSTEM /GFS/ -BASED LOCALIZED
AVIATION MOS PROGRAM /LAMP/ GUIDANCE AND DISSEMINATE IT ON THE
SATELLITE BROADCAST NETWORK /SBN/...NOAAPORT...AND THE NWS FTP
SERVER. THESE GUIDANCE PRODUCTS WILL BE IN BUFR... ASCII...AND
GRIB2 FORMAT. THE NEW COMMUNICATION IDENTIFIERS FOR THE BUFR
PRODUCTS...ASCII PRODUCTS...AND GRIB2 PRODUCTS ARE SHOWN BELOW IN
TABLES 1...2...AND 3 RESPECTIVELY. A COMPLETE LIST OF GRIDDED
LAMP WMO HEADINGS IS AVAILABLE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/GFSLAMP/DOCS/LAMPHEADERS.PDF](http://www.nws.noaa.gov/mdl/gfslamp/docs/lampheaders.pdf)

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED LAMP
PRODUCTS IN BUFR FORMAT. LISTED BELOW ARE THE WMO HEADINGS.

WMO HEADING	REGION
JSMF10 KWNO	LAMP BUFR PACIFIC REGION
JSMF11 KWNO	LAMP BUFR NORTHEAST REGION
JSMF12 KWNO	LAMP BUFR SOUTHEAST REGION
JSMF13 KWNO	LAMP BUFR NORTH CENTRAL REGION
JSMF14 KWNO	LAMP BUFR SOUTH CENTRAL REGION
JSMF15 KWNO	LAMP BUFR ROCKY MOUNTAINS REGION
JSMF16 KWNO	LAMP BUFR WEST COAST REGION
JSMF17 KWNO	LAMP BUFR ALASKA

TABLE 2: COMMUNICATION IDENTIFIER FOR THE GFS-BASED LAMP
PRODUCTS IN ASCII FORMAT. LISTED BELOW IS THE WMO HEADING AND
AWIPS IDENTIFIER.

WMO HEADING	AWIPS ID
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TABLE 3: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED LAMP GRIDDED THUNDERSTORM PRODUCTS IN GRIB2 FORMAT. EACH GRIB2 PRODUCT HAS A UNIQUE WMO HEADER. LISTED BELOW ARE REPRESENTATIONS OF THE WMO HEADINGS.

WMO HEADING ELEMENT

LAUXXX KWNO 2-HR PROBABILITY OF THUNDERSTORMS
LBUXXX KWNO 2-HR CATEGORICAL FORECASTS OF THUNDERSTORMS
OCCURRING

GFS-LAMP GUIDANCE WILL BE GENERATED AT 0300...0900...1500...AND 2100 UTC BASED ON THE 1800... 0000...0600...AND 1200 UTC GFS MODEL AND GFS MODEL OUTPUT STATISTICS /MOS/ RUN. ADDITIONAL CYCLES...FOR A TOTAL OF 24 CYCLES...WILL BE ADDED AT A LATER DATE. GUIDANCE WILL BE AVAILABLE FOR THE FOLLOWING WEATHER ELEMENTS:

- 2-M TEMPERATURE
- 2-M DEWPOINT
- WIND DIRECTION
- WIND SPEED
- WIND GUST SPEED
- PROBABILITY OF PRECIPITATION OCCURRING ON THE HOUR
- PROBABILITY OF PRECIPITATION /6 AND 12 HOUR/
- OCCURRENCE OF PRECIPITATION ON THE HOUR CATEGORICAL FORECASTS
- PROBABILITY OF THUNDERSTORMS /2 HOUR/
- THUNDERSTORM OCCURRENCE CATEGORICAL FORECASTS /2 HOUR/
- CONDITIONAL PRECIPITATION TYPE CATEGORICAL FORECASTS
- TOTAL SKY COVER CATEGORICAL FORECASTS
- CEILING HEIGHT CATEGORICAL FORECASTS
- CONDITIONAL CEILING HEIGHT CATEGORICAL FORECASTS
- VISIBILITY CATEGORICAL FORECASTS
- CONDITIONAL VISIBILITY CATEGORICAL FORECASTS
- OBSTRUCTION TO VISION CATEGORICAL FORECASTS
- PRECIPITATION CHARACTERISTICS CATEGORICAL FORECASTS

THE THUNDERSTORM GUIDANCE WILL BE AVAILABLE IN GRIDDED FORMAT ON THE 5 KM NATIONAL DIGITAL FORECAST DATABASE /NDFD/ CONUS GRID AT PROJECTIONS OF 1 TO 25 HOURS IN ADVANCE...AND IS VALID AT GRID POINTS OVER THE CONTIGUOUS UNITED STATES AND NEAR OFFSHORE WATERS. IT WILL BE AVAILABLE IN THE NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/. THIS GUIDANCE WILL BE AVAILABLE IN GRIB2 FORMAT.

THE GUIDANCE VALID AT STATIONS IS AVAILABLE OVER 1522 STATIONS IN THE UNITED STATES...INCLUDING ALASKA...HAWAII...PUERTO RICO...AND THE UNITED STATES VIRGIN ISLANDS. THIS DATA WILL BE AVAILABLE IN BOTH BUFR AND ASCII TEXT BULLETIN FORMAT.

A WEB PAGE CONTAINING DETAILED INFORMATION REGARDING AVAILABLE PROJECTIONS...ELEMENTS...AND CATEGORIES IS PROVIDED BELOW.

DETAILS REGARDING THE DATA AVAILABILITY ON THE NWS FTP SERVER
WILL BE AVAILABLE IN THE FUTURE ON THE WEB PAGE REFERENCED BELOW
/USE LOWER CASE LETTERS/.

[HTTP://WWW.NWS.NOAA.GOV/MDL/GFSLAMP/DOCS/GFSLAMP_INFO.SHTML](http://www.nws.noaa.gov/mdl/gfslamp/docs/gfslamp_info.shtml)

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

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JUDY.GHIRARDELLI@NOAA.GOV

LINKS TO THE GFS-LAMP PRODUCTS...ALONG WITH DESCRIPTIONS...CAN BE
FOUND ONLINE AT /USE LOWER CASE LETTERS/:

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

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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