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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 NWS PARTNERS...USERS AND EMPLOYEES

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

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 FILE TRANSFER PROTOCOL /FTP/ SERVER. THESE GUIDANCE PRODUCTS WILL BE IN BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF METEOROLOGICAL DATA /BUFR/...AMERICAN STANDARD CODE FOR INFORMATION INTERCHANGE /ASCII/ AND GRIDDED BINARY VERSION TWO /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 WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS IS AVAILABLE AT /USE LOWER CASE/:

[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 ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM /AWIPS/ IDENTIFIER.

WMO HEADING	AWIPS ID
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FOUS11 KWNO	LAVUSA

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
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LAUXXX KWNO	2-HOUR PROBABILITY OF THUNDERSTORMS
LBUXXX KWNO	2-HOUR 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 MOS RUN. ADDITIONAL CYCLES...FOR A TOTAL OF 24...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 FIVE KM NATIONAL DIGITAL FORECAST DATABASE /NDFD/ CONTIGUOUS U.S. /CONUS/ GRID AT PROJECTIONS OF ONE TO 25 HOURS IN ADVANCE...AND IS VALID AT GRID POINTS OVER THE CONUS 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 WEBPAGE 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 WEBPAGE REFERENCED BELOW /USE LOWER CASE/:

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

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

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

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

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