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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-42 AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
825 AM EDT FRI AUG 27 2007

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: AMENDED: CHANGES TO GFS-BASED MOS AND LAMP PRODUCTS: EFFECTIVE
SEPTEMBER 11 2007

AMENDED TO SAY THE 12-HOUR MEAN TOTAL SKY COVER GUIDANCE WILL NOT BE
REPLACED.

THE ORIGINAL VERSION OF THIS TECHNICAL IMPLEMENTATION NOTICE
/TIN/...TRANSMITTED JUNE 21 2007...STATED THE REPLACEMENT OF THE 12-HOUR
MEAN TOTAL SKY COVER GUIDANCE IN THE EXTENDED-RANGE GLOBAL FORECAST SYSTEM
/GFS/ MODEL OUTPUT STATISTICS /MOS/ TEXT PRODUCT WITH 12-HOUR MEAN OPAQUE
SKY COVER DERIVED FROM THE HOURLY OPAQUE CLOUD GUIDANCE. DURING
TESTING...IT WAS DETERMINED THAT THE POST-PROCESSING TECHNIQUE USED TO
DERIVE THE 12-HOUR MEAN OPAQUE SKY COVER GUIDANCE PRODUCED LESS SKILLFUL
GUIDANCE THAN THE 12-HOUR MEAN TOTAL SKY COVER GUIDANCE CURRENTLY BEING
DISSEMINATED. AS A RESULT...WE WILL NOT REPLACE THE EXISTING 12-HOUR SKY
COVER GUIDANCE UNTIL SUCH TIME AS A FULL REDEVELOPMENT OF THE GUIDANCE CAN
BE DONE. A NEW TIN WILL BE ISSUED WHEN THE REPLACEMENT DOES OCCUR.

EFFECTIVE TUESDAY SEPTEMBER 11 2007...BEGINNING WITH THE 1200 COORDINATED
UNIVERSAL TIME /UTC/ CYCLE...THE NWS WILL MAKE TWO CHANGES TO THE GFS-
BASED MOS SYSTEM. ONE OF THESE CHANGES IS TO THE GFS-BASED LOCALIZED
AVIATION MOS PROGRAM /LAMP/ PRODUCTS.

CHANGE 1:

STATIONS WILL BE ADDED TO THE GFS-BASED MOS VISIBILITY...OBSTRUCTION TO
VISION AND PROBABILITY OF PRECIPITATION CHARACTERISTIC GUIDANCE FOR THE
0000...0600...1200 AND 1800 UTC CYCLES. THIS WILL BRING THE NUMBER OF
STATIONS WITH GUIDANCE FOR THESE ELEMENTS TO 1593. A LIST OF THE STATIONS
AVAILABLE IN THE MOS GUIDANCE IS AVAILABLE AT /USE LOWER CASE/:

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

GFS-LAMP WILL BEGIN PRODUCING VISIBILITY...CONDITIONAL VISIBILITY AND
OBSTRUCTION TO VISION GUIDANCE AT THESE STATIONS FOR THE
0000...0600...1200 AND 1800 UTC CYCLES...AND PRECIPITATION CHARACTERISTIC
GUIDANCE FOR ALL EIGHT CYCLES. A FULL DESCRIPTION OF THIS CHANGE IS

AVAILABLE AT /USE LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/LAMP/GFSLAMP/DOCS/CHANGE NOTICE 06202007.SHTML](http://www.nws.noaa.gov/mdl/lamp/gfslamp/docs/change_notice_06202007.shtml)

THESE CHANGES WILL SLIGHTLY ALTER THE FORMAT OF THE MAV AND LAV TEXT PRODUCTS BECAUSE NEW LINES CONTAINING THIS GUIDANCE WILL BE ADDED TO THE EXISTING BULLETINS TO ACCOMMODATE THESE CHANGES. THE COMMUNICATION IDENTIFIERS FOR THE TEXT AND BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF METEOROLOGICAL DATA /BUFR/ PRODUCTS AFFECTED BY THIS CHANGE ARE SHOWN IN TABLE 1 BELOW.

CHANGE 2:

THE CLIMATOLOGICAL MAXIMUM AND MINIMUM TEMPERATURE VALUES CURRENTLY INCLUDED IN THE GFS-BASED MOS EXTENDED-RANGE MEX TEXT PRODUCTS WILL BE REPLACED WITH CLIMATOLOGICAL VALUES DERIVED FROM THE GRIDDED PARAMETER-ELEVATION REGRESSIONS ON INDEPENDENT SLOPES MODEL /PRISM/ NORMALS. THIS DATA IS AVAILABLE COURTESY OF A COOPERATIVE VENTURE BETWEEN OREGON STATE UNIVERSITY AND THE UNITED STATES DEPARTMENT OF AGRICULTURE-NATURAL RESOURCES CONSERVATION SERVICE. THE PRISM NORMALS ARE CREATED USING DATA FROM 1971 TO 2000. CLIMATOLOGICAL MAXIMUM AND MINIMUM TEMPERATURES WILL BE AVAILABLE FOR ALL SITES IN THE MEX TEXT PRODUCT THAT ARE LOCATED IN THE CONTIGUOUS UNITED STATES AND ALASKA. THE COMMUNICATION IDENTIFIERS FOR THE MEX TEXT PRODUCTS ARE SHOWN IN TABLE 2 BELOW.

TABLE 1. COMMUNICATION IDENTIFIERS FOR THE GFS-BASED MOS AND LAMP TEXT AND BUFR PRODUCTS AFFECTED BY STATION UPDATES. NOTE THAT THE 69 NEW STATIONS ARE CURRENTLY IN THE BUFR PRODUCTS. THE ONLY CHANGE WILL BE THAT THE GUIDANCE VALUES FOR THE ELEMENTS LISTED ABOVE WILL NO LONGER BE SET TO MISSING.

WMO HEADING	AWIPS ID	WMO HEADING
MOS TEXT PRODUCTS		MOS BUFR PRODUCTS
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FOUS21 KWNO	MAVNE1	JSML31 KWNO
FOUS22 KWNO	MAVSE1	JSML32 KWNO
FOUS23 KWNO	MAVNC1	JSML33 KWNO
FOUS24 KWNO	MAVSC1	JSML34 KWNO
FOUS25 KWNO	MAVRM1	JSML35 KWNO
FOUS26 KWNO	MAVWC0	JSML36 KWNO
FOAK37 KWNO	MAVAJK	JSML37 KWNO
LAMP TEXT PRODUCT		LAMP BUFR PRODUCTS
FOUS11 KWNO	LAVUSA	JSMF11 KWNO
		JSMF12 KWNO
		JSMF13 KWNO
		JSMF14 KWNO
		JSMF15 KWNO
		JSMF16 KWNO
		JSMF17 KWNO

TABLE 2. COMMUNICATION IDENTIFIERS FOR THE GFS-BASED MOS MEX EXTENDED-RANGE PUBLIC WEATHER TEXT PRODUCTS AFFECTED BY THESE CHANGES

WMO HEADING	AWIPS ID
FEPA20 KWNO	MEXPA0
FEUS21 KWNO	MEXNE1
FEUS22 KWNO	MEXSE1
FEUS23 KWNO	MEXNC1
FEUS24 KWNO	MEXSC1
FEUS25 KWNO	MEXRM1
FEUS26 KWNO	MEXWC0
FEAK37 KWNO	MEXAJK
FEAK38 KWNO	MEXAFC
FEAK39 KWNO	MEXAFG

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

REBECCA COSGROVE
MDL/SILVER SPRING MARYLAND
PHONE: 301-713-0023 EXT. 124
EMAIL: REBECCA.COSGROVE@NOAA.GOV

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

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOF](http://WWW.NWS.NOAA.GOV/MDL/SYNOF)

IF YOU HAVE ANY QUESTIONS ABOUT THE LAMP GUIDANCE...PLEASE CONTACT:

JUDY GHIRARDELLI
MDL/SILVER SPRING MARYLAND
PHONE: 301-713-0056 EXT. 194
EMAIL: JUDY.GHIRARDELLI@NOAA.GOV

LINKS TO THE GFS-LAMP PRODUCTS...ALONG WITH DESCRIPTIONS...CAN BE FOUND 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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