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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 NATIONAL WEATHER SERVICE
/NWS/ PARTNERS AND OTHER USERS...NWS EMPLOYEES

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

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

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

THE THIRD CHANGE LISTED IN TIN 07-42...TRANSMITTED JUNE 21
2007...STATED THE REPLACEMENT OF THE 12-HR MEAN TOTAL SKY COVER
GUIDANCE IN THE EXTENDED-RANGE GFS MOS TEXT PRODUCT WITH 12-HR
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-HR MEAN OPAQUE SKY
COVER GUIDANCE PRODUCED LESS SKILLFUL GUIDANCE THAN THE 12-HR
MEAN TOTAL SKY COVER GUIDANCE CURRENTLY BEING DISSEMINATED. AS A
RESULT WE WILL NOT REPLACE THE EXISTING 12-HR 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.
CHANGES 1 AND 2 IN TIN 07-42 WILL HAPPEN AS PLANNED ON SEPTEMBER
11 2007.

EFFECTIVE TUESDAY SEPTEMBER 11 2007...BEGINNING WITH THE 1200
UNIVERSAL COORDINATED TIME /UTC/ CYCLE...THE NWS WILL MAKE TWO
CHANGES TO THE GLOBAL FORECAST SYSTEM /GFS/ -BASED MODEL OUTPUT
STATISTICS /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
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 LETTERS/:

[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 LETTERS/:

[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 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
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 CHANGES
2 AND 3.

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
E-MAIL: REBECCA.COSGROVE@NOAA.GOV

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)

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

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

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

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

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