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PNSWSH

PUBLIC INFORMATION STATEMENT...TECHNICAL IMPLEMENTATION NOTICE 03-43
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
200 PM EST FRI OCT 17 2003

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

FROM: J. PAUL DALLAVALLE
CHIEF...STATISTICAL MODELING BRANCH
METEOROLOGICAL DEVELOPMENT LABORATORY
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ENHANCEMENTS TO GLOBAL FORECAST SYSTEM /GFS/ MODEL OUTPUT
STATISTICS /MOS/ GUIDANCE...INCLUDING ADDITION OF SNOWFALL AMOUNT
GUIDANCE: EFFECTIVE DECEMBER 16 2003

SEE ALSO [TECHNICAL IMPLEMENTATION NOTICE /TIN/ 03-44](#)
[CORRECTED](#)...TRANSMITTED NOVEMBER 24 2003...FOR ADDITIONAL MOS CHANGES
BEING IMPLEMENTED DECEMBER 16 2003.

NOTE: THE FOLLOWING CHANGES HAVE NO DIRECT IMPACT ON NOAA WEATHER WIRE
SUBSCRIBERS.

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

ON TUESDAY...DECEMBER 16 2003...WITH THE 1200 COORDINATED UNIVERSAL TIME
/UTC/ MODEL CYCLE...THE NWS WILL MAKE CHANGES TO THE GLOBAL FORECAST
SYSTEM /GFS/-BASED MOS GUIDANCE. CHANGES WILL BE MADE TO TRANSITION FROM
SEPARATE AVN- AND MEDIUM RANGE FORECAST /MRF/-BASED MOS SYSTEMS TO A
UNIFIED GFS-BASED MOS SYSTEM WITH SHORT- AND EXTENDED-RANGE PRODUCTS. THE
SHORT-RANGE GFS MOS WILL BE ISSUED AT ALL FOUR CYCLES. THE EXTENDED-RANGE
GFS MOS WILL BE ISSUED ONLY AT THE 0000 UTC CYCLE. ALL PRODUCTS THAT ARE
CURRENTLY AVAILABLE WILL CONTINUE TO BE AVAILABLE WITH SOME SLIGHT
ADJUSTMENT TO THE FORMAT. AS PART OF THESE CHANGES...THE SHORT-RANGE GFS
MOS GUIDANCE WILL BE DISSEMINATED APPROXIMATELY 10 MINUTES LATER THAN THE
CURRENT DISSEMINATION TIMES. IN ADDITION...SNOWFALL AMOUNT GUIDANCE WILL
BE ADDED TO THE TEXT PRODUCTS ISSUED UNDER THE COMMUNICATION HEADINGS
LISTED IN TABLE 1.

CHANGES TO THE TEXT PRODUCTS DUE TO THE TRANSITION TO A UNIFIED GFS MOS
WILL CONSIST OF A CHANGE TO THE FIRST LINE OF THE MAV/MEX MOS AND CANADIAN
MOS TEXT PRODUCTS. REFERENCES TO AVN MOS WILL BE CHANGED TO GFS MOS AND
REFERENCES TO MRF MOS CHANGED TO GFSX MOS. IN ADDITION...ALL FORECASTS
FOR MAXIMUM AND MINIMUM TEMPERATURE...SPOT TEMPERATURE...DEW
POINT...PROBABILITY OF PRECIPITATION...PRECIPITATION AMOUNT AND
PROBABILITY OF THUNDERSTORMS FOR SIX THROUGH 72 HOURS WILL NOW BE
IDENTICAL IN THE SHORT-RANGE AND EXTENDED-RANGE TEXT PRODUCTS.

ON THE SAME EFFECTIVE DATE...CATEGORICAL FORECASTS OF SNOWFALL AMOUNT WILL BE AVAILABLE IN THE GFS MOS TEXT PRODUCTS FOR 24-HOUR PERIODS ENDING AT APPROXIMATELY:

- 36...60...84...108 AND 132 HOURS AFTER 0000 UTC
- 30 AND 54 HOURS AFTER 0600 UTC
- 24...48 AND 72 HOURS AFTER 1200 UTC
- 42 AND 66 HOURS AFTER 1800 UTC.

SNOWFALL AMOUNT FORECASTS WILL BE AVAILABLE FROM SEPTEMBER 1ST THROUGH MAY 31ST. THE SNOWFALL AMOUNT CATEGORIES ARE AS FOLLOWS:

- 0 = NO SNOW OR A TRACE EXPECTED
- 1 = > A TRACE TO < 2 INCHES EXPECTED
- 2 = 2 TO < 4 INCHES
- 4 = 4 TO < 6 INCHES
- 6 = 6 TO < 8 INCHES
- 8 = 8 INCHES OR MORE

EXAMPLES OF BOTH GFS MOS TEXT PRODUCTS WITH THE TRANSITIONAL CHANGES AND THE SNOWFALL ADDED ARE AVAILABLE AT THE URLS LISTED BELOW /USE LOWER CASE/:

SHORT-RANGE GFS MOS:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/TIN/GFSSHORT.HTM](http://www.nws.noaa.gov/mdl/synop/tin/gfsshort.htm)

EXTENDED-RANGE GFS MOS

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/TIN/GFSEXTENDED.HTM](http://www.nws.noaa.gov/mdl/synop/tin/gfsextended.htm)

TABLE 1. COMMUNICATION IDENTIFIERS FOR THE ALPHANUMERIC BULLETINS OF GFS-BASED MOS GUIDANCE. THE ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM /AWIPS/ IDS ARE MAVXXX AND MEXXXX...WHERE THE FINAL XXX DENOTES THE GEOGRAPHIC REGION FOR WHICH THE GUIDANCE IS VALID.

WMO HEADING /SHORT RANGE/	AWIPS ID	WMO HEADING /EXTENDED RANGE/	AWIPS ID
FOPA20 KWNO	MAVPA0	FEPA20 KWNO	MEXPA0
FOUS21 KWNO	MAVNE1	FEUS21 KWNO	MEXNE1
FOUS22 KWNO	MAVSE1	FEUS22 KWNO	MEXSE1
FOUS23 KWNO	MAVNC1	FEUS23 KWNO	MEXNC1
FOUS24 KWNO	MAVSC1	FEUS24 KWNO	MEXSC1
FOUS25 KWNO	MAVRM1	FEUS25 KWNO	MEXRM1
FOUS26 KWNO	MAVWC0	FEUS26 KWNO	MEXWC0
FOAK37 KWNO	MAVAJK	FEAK37 KWNO	MEXAJK
FOAK38 KWNO	MAVAFC	FEAK38 KWNO	MEXAFC
FOAK39 KWNO	MAVAFG	FEAK39 KWNO	MEXAFG
FOCN20 KWNO	MAVCND	FECN21 KWNO	MEXCND

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

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

IF YOU HAVE ANY QUESTIONS ABOUT THESE CHANGES TO THE MOS GUIDANCE
SYSTEM...PLEASE CONTACT:

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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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