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PNSWSH

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

TO FAMILY SERVICE /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...AND NWS EMPLOYEES

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

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 03-44...TRANSMITTED  
OCTOBER 17 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 6 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-HR 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  
AND 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 LETTERS/...

#### SHORT-RANGE GFS MOS

<http://www.nws.noaa.gov/mdl/synop/tin/gfsshort.htm>

#### EXTENDED-RANGE GFS MOS

<http://www.nws.noaa.gov/mdl/synop/tin/gfsextended.htm>

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

WMO HEADING	AWIPS ID	WMO HEADING	AWIPS ID
/SHORT RANGE/		/EXTENDED RANGE/	
FOPA20 KWNO	MAVPA0	FOPA20 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 LETTERS/...

<http://www.nws.noaa.gov/mdl/synop/products.shtml>

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

PAUL DALLAVALLE  
MDL/SILVER SPRING MARYLAND  
PHONE 301-713-0023 EXT. 135  
E-MAIL PAUL.DALLAVALLE@NOAA.GOV

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE  
ONLINE AT /USE LOWER CASE LETTERS/...

<http://www.nws.noaa.gov/om/notif.htm>

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