

NOUS41 KWBC 272005
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-17
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
305 PM EST MON MAR 27 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: ENHANCEMENTS OF GFS-BASED MOS THUNDERSTORM PRODUCTS: EFFECTIVE
APRIL 25 2006

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

ON TUESDAY APRIL 25 2006...DURING THE 1200 COORDINATED UNIVERSAL TIME
/UTC/ MODEL CYCLE...NWS WILL REPLACE THE EQUATIONS USED TO GENERATE THE
GLOBAL FORECAST SYSTEM /GFS/-BASED MOS GUIDANCE FOR THUNDERSTORM
PROBABILITIES OVER THE CONTIGUOUS UNITED STATES /CONUS/. THE NEW
THUNDERSTORM GUIDANCE WILL REFLECT PROBABILITIES BASED ON A 40 KILOMETER
LAMBERT CONFORMAL GRID RATHER THAN THE PREVIOUSLY USED 48 KILOMETER POLAR
STEREOGRAPHIC GRID. THE GUIDANCE IS AVAILABLE IN TEXT AND BINARY
UNIVERSAL FORM FOR THE REPRESENTATION OF METEOROLOGICAL DATA /BUFR/
MESSAGES AND WILL NOW ALSO BE AVAILABLE IN THE EXTENDED-RANGE 1200 UTC
MESSAGES. THESE THUNDERSTORM PRODUCTS WERE REDEVELOPED TO PREPARE FOR THE
GRIDDED MOS SUITE OUTLINED IN TECHNICAL IMPLEMENTATION NOTICE /TIN/ 05-56
/PROVIDED IN A LINK BELOW/.

SHORT-RANGE GFS MOS GUIDANCE IS GENERATED FOUR TIMES A DAY FOR PROJECTIONS
OUT TO 84 HOURS IN ADVANCE. THE EXTENDED-RANGE GFS MOS GUIDANCE IS
GENERATED TWICE A DAY FOR PROJECTIONS OUT TO 192 HOURS IN ADVANCE. THE
COMMUNICATION IDENTIFIERS FOR THESE PRODUCTS ARE LISTED IN TABLE 1.

TABLE 1: WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADING AND ADVANCED
WEATHER INTERACTIVE PROCESSING SYSTEM /AWIPS/ IDENTIFIERS OF THE AFFECTED
GFS MOS GUIDANCE PRODUCTS

WMO HEADING	AWIPS ID	GEOGRAPHIC REGION	TEXT PRODUCTS
FOUS21 KWNO	MAVNE1	NORTHEAST U.S.	
FEUS21 KWNO	MEXNE1	NORTHEAST U.S.	
FOUS22 KWNO	MAVSE1	SOUTHEAST U.S.	
FEUS22 KWNO	MEXSE1	SOUTHEAST U.S.	
FOUS23 KWNO	MAVNC1	NORTH CENTRAL U.S.	
FEUS23 KWNO	MEXNC1	NORTH CENTRAL U.S.	
FOUS24 KWNO	MAVSC1	SOUTH CENTRAL U.S.	

FEUS24	KWNO	MEXSC1	SOUTH CENTRAL U.S.
FOUS25	KWNO	MAVRM1	ROCKY MOUNTAIN U.S.
FEUS25	KWNO	MEXRM1	ROCKY MOUNTAIN U.S.
FOUS26	KWNO	MAVWC1	WEST COAST U.S.
FEUS26	KWNO	MEXWC1	WEST COAST U.S.

BUFR PRODUCTS:

JSML31	KWNO		NORTHEAST U.S.
JSMT31	KWNO		NORTHEAST U.S.
JSML32	KWNO		SOUTHEAST U.S.
JSMT32	KWNO		SOUTHEAST U.S.
JSML33	KWNO		NORTH CENTRAL U.S.
JSMT33	KWNO		NORTH CENTRAL U.S.
JSML34	KWNO		SOUTH CENTRAL U.S.
JSMT34	KWNO		SOUTH CENTRAL U.S.
JSML35	KWNO		ROCKY MOUNTAIN U.S.
JSMT35	KWNO		ROCKY MOUNTAIN U.S.
JSML36	KWNO		WEST COAST U.S.
JSMT36	KWNO		WEST COAST U.S.

A PREVIOUSLY ISSUED TIN REGARDING GRIDDED MOS IS AVAILABLE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/MEDIA/NOTIFICATION/TINS/TIN05-56GFS GRID MOS AAB.PDF](https://www.weather.gov/media/notification/tins/tin05-56gfs_grid_mos_aab.pdf)

LINKS TO THESE 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 OR COMMENTS...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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