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TECHNICAL IMPLEMENTATION NOTICE 05-45
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
850 AM EDT FRI JUN 17 2005

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

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

SUBJECT: ADDITION OF NEW EXTENDED-RANGE GFS-BASED MOS BUFR PRODUCTS:
EFFECTIVE OCTOBER 11 2005

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

ON TUESDAY...OCTOBER 11 2005...NWS WILL PRODUCE NEW EXTENDED-RANGE GLOBAL FORECAST SYSTEM /GFS/ BASED BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF METEOROLOGICAL DATA /BUFR/ PRODUCTS CONTAINING MOS GUIDANCE. THIS PRODUCT IS FOR SIX TO 192 HOURS FROM THE 0000 AND 1200 COORDINATED UNIVERSAL TIME /UTC/ MODEL RUNS.

THE NEW COMMUNICATION IDENTIFIERS FOR THESE PRODUCTS ARE SHOWN IN TABLE 1. A WEBPAGE PROVIDING MORE INFORMATION REGARDING PROJECTIONS AND AVAILABLE GUIDANCE ELEMENTS IS REFERENCED BELOW. THESE PRODUCTS EVENTUALLY WILL REPLACE EXISTING EXTENDED-RANGE GFS-BASED MOS BUFR PRODUCTS. THE NEW BUFR PRODUCTS CONTAIN GUIDANCE FOR MORE ELEMENTS AND PROJECTIONS THAN EXISTING PRODUCTS...INCLUDING TEMPERATURE...DEWPOINT...WIND SPEED AND WIND DIRECTION FOR 3-HOUR INTERVALS TO 192 HOURS. AN OVERLAP OF AT LEAST NINE MONTHS WILL OCCUR TO ALLOW USERS TIME TO SHIFT TO THE NEW PRODUCTS. NWS WILL SEND NOTIFICATION BEFORE REMOVING THE OLD PRODUCTS.

THESE NEW BUFR PRODUCTS WILL BE AVAILABLE DURING BOTH THE 0000 AND 1200 UTC FORECAST CYCLES. THE OLD PRODUCTS WILL ONLY BE AVAILABLE FOR THE 0000 UTC CYCLE. A SIMILAR CHANGE IS SCHEDULED FOR THE EXTENDED RANGE GFS MOS TEXT PRODUCT. SEE [TECHNICAL IMPLEMENTATION NOTICE 05-42](#) FOR FURTHER INFORMATION ON THE TEXT MESSAGE.

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE NEW EXTENDED-RANGE GFS-BASED MOS BUFR PRODUCTS

WMO HEADING	REGION
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JSMT30 KWNO	PACIFIC REGION
JSMT31 KWNO	NORTHEAST CONTIGUOUS U.S. /CONUS/
JSMT32 KWNO	SOUTHEAST CONUS
JSMT33 KWNO	NORTH CENTRAL CONUS
JSMT34 KWNO	SOUTH CENTRAL CONUS
JSMT35 KWNO	ROCKY MOUNTAIN CONUS
JSMT36 KWNO	WEST COAST CONUS
JSMT37 KWNO	ALASKA

A WEBSITE OUTLINING ELEMENTS AND PROJECTIONS AVAILABLE IN THE EXTENDED-RANGE GFS-BASED BUFR PRODUCTS AS WELL AS THE ASSOCIATED BUFR TABLE B CAN BE FOUND AT /USE LOWER CASE/:

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

A LIST OF SITES IN THE BUFR PRODUCTS AND A MAP OF THE GEOGRAPHIC REGIONS CAN BE FOUND AT /USE LOWER CASE/:

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

FOR QUESTIONS ABOUT THESE PRODUCTS OR MOS GUIDANCE...CONTACT:

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

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

NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATIONS/ARCHIVE](https://www.weather.gov/notifications/archive)

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