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

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

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. 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 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 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>
<thead>
<tr>
<th>WMO HEADING</th>
<th>AWIPS ID</th>
<th>GEOGRAPHIC REGION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUS21 KWNO</td>
<td>MAVNE1</td>
<td>NORTH EAST U.S.</td>
</tr>
<tr>
<td>FEUS21 KWNO</td>
<td>MEXNE1</td>
<td>NORTH EAST U.S.</td>
</tr>
<tr>
<td>FOUS22 KWNO</td>
<td>MAVSE1</td>
<td>SOUTH EAST U.S.</td>
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<tr>
<td>FEUS22 KWNO</td>
<td>MEXSE1</td>
<td>SOUTH EAST U.S.</td>
</tr>
<tr>
<td>FOUS23 KWNO</td>
<td>MAVNC1</td>
<td>NORTH CENTRAL U.S.</td>
</tr>
<tr>
<td>FEUS23 KWNO</td>
<td>MEXNC1</td>
<td>NORTH CENTRAL U.S.</td>
</tr>
</tbody>
</table>
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 NORTH EAST U.S.
JSMT31 KWNO NORTH EAST U.S.
JSML32 KWNO SOUTH EAST U.S.
JSMT32 KWNO SOUTH EAST 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 TECHNICAL INFORMATION NOTICE REGARDING
GRIDDED MOS IS AVAILABLE AT /USE LOWER CASE LETTERS/:

HTTP://WWW.NWS.NOAA.GOV/OM/NOTIFICATION/OLD/TIN05-56AAA_GFS_MOS_DELAY.TXT

LINKS TO THESE 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 OR COMMENTS PLEASE CONTACT:

KATHRYN HUGHES
MDL/SILVER SPRING MARYLAND
PHONE: 301 713 0023 EXT. 130
E-MAIL: KATHRYN.HUGHES@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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