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TECHNICAL IMPLEMENTATION NOTICE 08-10
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1215 PM EST WED FEB 13 2008

TO: SUBSCRIBERS:
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OTHER NWS USERS...PARTNERS AND EMPLOYEES

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

SUBJECT: ADDITION OF GFS-BASED MOS THUNDERSTORM GUIDANCE FOR ALASKA:
EFFECTIVE MAY 1 2008

ON MAY 1 2008...THE NWS WILL PRODUCE NEW GLOBAL FORECAST SYSTEM /GFS/-
BASED MODEL OUTPUT STATISTICS /MOS/ THUNDERSTORM GUIDANCE FOR ALASKA. THE
GUIDANCE WILL BE ADDED TO THE ALASKA SHORT RANGE /MAV/ AND EXTENDED RANGE
/MEX/ TEXT AND BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF
METEOROLOGICAL DATA /BUFR/ PRODUCTS.

THE NEW MOS THUNDERSTORM GUIDANCE FOR ALASKA WILL REFLECT PROBABILITIES
BASED ON A 48 KILOMETER POLAR STEREOGRAPHIC GRID. THE MAV GUIDANCE WILL
BE GENERATED FROM THE 0000...0600...1200 AND 1800 COORDINATED UNIVERSAL
TIME /UTC/ MODEL RUNS...AND WILL CONTAIN 6- AND 12-HOUR THUNDERSTORM
PROBABILITIES FOR PROJECTIONS OUT TO 84 HOURS IN ADVANCE. THE MEX
GUIDANCE WILL BE GENERATED FROM THE 0000 AND 1200 UTC MODEL RUNS AND WILL
CONTAIN 12- AND 24-HOUR PROBABILITIES OUT TO 156 HOURS IN ADVANCE. THE
COMMUNICATION IDENTIFIERS FOR THESE PRODUCTS ARE LISTED IN TABLE 1.

THE MOS THUNDERSTORM PRODUCTS ALSO WILL BE PROVIDED IN GRIDDED BINARY
VERSION TWO /GRIB2/ FORMAT AS PART OF THE NATIONAL DIGITAL GUIDANCE
DATABASE /NDGD/. SEE [TECHNICAL IMPLEMENTATION NOTICE /TIN/ 07-82](#) FOR
ADDITIONAL INFORMATION.

NOTE THAT THE ALASKA THUNDERSTORM GUIDANCE WILL ONLY BE VALID DURING THE
WARM SEASON PERIOD FROM MAY 1 THROUGH SEPTEMBER 30. AS A RESULT...THE T06
AND T12 LINES IN THE MAV AND THE T12 AND T24 LINES IN THE MEX TEXT
PRODUCTS WILL BE MISSING DURING THE PERIOD OF OCTOBER 1 THROUGH APRIL 30.

THIS CHANGE WILL HAVE NO IMPACT ON THE THUNDERSTORM GUIDANCE FOR THE CONUS
CURRENTLY PROVIDED IN THE GFS MOS TEXT AND BUFR PRODUCTS.

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED MOS PUBLIC WEATHER TEXT AND BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF METEOROLOGICAL DATA /BUFR/ PRODUCTS FOR ALASKA:

TEXT WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS/ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM /AWIPS/ IDS:

SHORT RANGE GFS TEXT:

FOAK37 KWNO/MAVAJK

FOAK38 KWNO/MAVAFC

FOAK39 KWNO/MAVAFG

EXTENDED RANGE GFS TEXT:

FEAK37 KWNO/MEXAJK

FEAK38 KWNO/MEXAFC

FEAK39 KWNO/MEXAFG

JSML37 KWNO /SHORT RANGE GFS BUFR PRODUCT/

JSMT37 KWNO /EXTENDED RANGE GFS BUFR PRODUCT/

TECHNICAL DOCUMENTS DESCRIBING THE MAV AND MEX PRODUCTS ARE AVAILABLE ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/TPB/MDLTPB05-07.PDF](http://www.nws.noaa.gov/mdl/synop/tpb/mdltpb05-07.pdf)

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/TPB/MDLTPB05-03.PDF](http://www.nws.noaa.gov/mdl/synop/tpb/mdltpb05-03.pdf)

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/TPB/MDLTPB05-04.PDF](http://www.nws.noaa.gov/mdl/synop/tpb/mdltpb05-04.pdf)

FOR QUESTIONS ABOUT THESE ALASKA MOS THUNDERSTORM PRODUCTS...PLEASE CONTACT:

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

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

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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