

NOUS41 KWBC 091929
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-40
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
330 PM EDT FRI JUN 9 2006

TO: FAMILY OF SERVICES /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...NWS EMPLOYEES

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

SUBJECT: IMPACT ON ETA BASED MOS GUIDANCE WITH IMPLEMENTATION OF
NON-HYDROSTATIC MESOSCALE MODEL ON JUNE 13 2006

REFER TO: TECHNICAL IMPLEMENTATION NOTICE /TIN/ 05-68 AMENDED
TRANSMITTED ON MARCH 20 2006

ATTENTION USERS OF THE MOS GUIDANCE:

EFFECTIVE JUNE 13 2006...BEGINNING WITH THE 1200 COORDINATED
UNIVERSAL TIME /UTC/ RUN...THE NWS WILL REPLACE THE FORECAST
MODEL CURRENTLY RUN IN THE NORTH AMERICAN MESOSCALE /NAM/ SYSTEM.
THE 12 KM HORIZONTAL RESOLUTION ETA MODEL IS CURRENTLY USED IN
THIS SYSTEM. THE MODEL WILL BE REPLACED WITH A 12 KM HORIZONTAL
RESOLUTION WEATHER RESEARCH AND FORECASTING /WRF/ VERSION OF THE
NON-HYDROSTATIC MESOSCALE MODEL /NMM/.

RECENT VERIFICATIONS INDICATE THAT THE CURRENT SYSTEM OF ETA-
BASED MODEL OUTPUT STATISTICS /MOS/ EQUATIONS...WHEN APPLIED TO
OUTPUT FROM THE WRF VERSION OF THE NMM...PRODUCES GUIDANCE THAT
IS CONSIDERABLY LESS ACCURATE THAN THE CURRENTLY OPERATIONAL ETA
MOS GUIDANCE.

TO ALLOW USERS TO TRANSITION TO MOS GUIDANCE BASED ON THE GLOBAL
FORECAST SYSTEM /GFS/... THE NWS WILL RUN AN INTERIM 32 KM ETA
MODEL OVER THE NAM DOMAIN DURING THE 0000 AND 1200 UTC FORECAST
CYCLES. FORECASTS FROM THIS ETA RUN WILL BE USED AS INPUT TO THE
ETA MOS. NO DIRECT MODEL OUTPUT FROM THIS INTERIM VERSION OF THE
ETA MODEL WILL BE TRANSMITTED OR MADE AVAILABLE ON NWS SERVERS.

THIS IMPLEMENTATION OF THE INTERIM ETA MODEL AND SUBSEQUENT
MODIFICATION TO THE ETA MOS GUIDANCE WILL OCCUR ON JUNE 13 2006
WHEN THE WRF IS IMPLEMENTED. NO DELAY IN THE TIME OF TRANSMISSION
OF THE ETA-BASED MOS PRODUCTS IS EXPECTED. THE QUALITY OF THE ETA
MOS GUIDANCE IN THIS RECONFIGURATION IS EXPECTED TO BE ABOUT THE
SAME AS THAT PRODUCED BY THE CURRENT ETA MOS SYSTEM.

THE EFFECTIVE DATE OF THIS CHANGE IS SOONER THAN SPECIFIED BY NWS POLICY. REDUCING THE NORMAL ADVANCE LEAD TIME WAS APPROVED DUE TO THE RECENT UNDERSTANDING OF THE NEGATIVE IMPACT THAT THE NCEP MODEL CHANGE ON JUNE 13 2006 WOULD HAVE ON THE WRF MOS.

SAMPLE VERIFICATIONS CAN BE FOUND AT THE URL LISTED BELOW /USE LOWER CASE LETTERS/:

[HTTP://WWW.WEATHER.GOV/MDL/SYNOP/WRFMOSEVAL.HTM](http://www.weather.gov/mdl/synop/wrfmoseval.htm)

THE FOLLOWING PUBLIC WEATHER ALPHANUMERIC MESSAGES...MARINE MESSAGES...AND BUFR PRODUCTS ARE AFFECTED BY THIS CHANGE:

TABLE 1. COMMUNICATION IDENTIFIERS FOR THE ETA-BASED MOS PUBLIC WEATHER TEXT PRODUCTS.

WMO HEADING	AWIPS ID
FOAK47 KWNO	METAJK
FOAK48 KWNO	METAFC
FOAK49 KWNO	METAFG
FOPA40 KWNO	METPA0
FOUS44 KWNO	METNE1
FOUS45 KWNO	METSE1
FOUS46 KWNO	METNC1
FOUS47 KWNO	METSC1
FOUS48 KWNO	METRM1
FOUS49 KWNO	METWC1

TABLE 2. COMMUNICATION IDENTIFIERS FOR THE ETA-BASED MOS MARINE TEXT PRODUCTS.

WMO HEADING	AWIPS ID
FQAK47 KWNO	MMEAK1
FQPA40 KWNO	MMEHI1
FQUS41 KWNO	MMENE1
FQUS42 KWNO	MMESE1
FQUS43 KWNO	MMEGL1
FQUS44 KWNO	MMEGF1
FQUS45 KWNO	MMENW1
FQUS46 KWNO	MMESW1

TABLE 3. COMMUNICATION IDENTIFIERS FOR THE ETA-BASED MOS BUFR MESSAGES

WMO HEADING
JSML10 KWNO
JSML11 KWNO
JSML12 KWNO
JSML13 KWNO
JSML14 KWNO

JSML15 KWNO
JSML16 KWNO
JSML17 KWNO

TECHNICAL PROCEDURES BULLETINS DESCRIBING THE ETA MOS PUBLIC WEATHER TEXT PRODUCTS ARE AVAILABLE AT THE URL LISTED BELOW /USE LOWER CASE LETTERS/

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

A DESCRIPTION OF THE MOS MARINE TEXT MESSAGE CAN BE FOUND AT THE URL LISTED BELOW /USE LOWER CASE LETTERS/

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

MORE INFORMATION ABOUT THE BUFR MESSAGES CAN BE FOUND AT THE URL LISTED BELOW /USE LOWER CASE LETTERS/

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

IF YOU HAVE QUESTIONS ABOUT THESE PRODUCTS OR THE MOS GUIDANCE... PLEASE CONTACT:

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

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

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

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE ON THE INTERNET AT /USE LOWER CASE LETTERS/

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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