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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-13 AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
910 AM EDT THU APRIL 1 2010

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

FROM: TIMOTHY MCCLUNG
SCIENCE PLANS BRANCH CHIEF
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED DATE: GLOBAL MULTI-GRID WAVE MODEL CHANGES:
POSTPONED UNTIL MAY 11 2010

AMENDED TO POSTPONE EFFECTIVE DATE FOR IMPLEMENTATION OF THE
GLOBAL MULTI-GRID WAVE MODEL CHANGES FROM APRIL 27 2010 TO
MAY 11 2010.

EFFECTIVE TUESDAY MAY 11 2010...BEGINNING WITH THE 1200
COORDINATED UNIVERSAL TIME /UTC/ RUN...THE NATIONAL CENTERS
FOR ENVIRONMENTAL PREDICTION /NCEP/ WILL UPGRADE THE GLOBAL
MULTI-GRID WAVE MODEL. THE PRIMARY MODIFICATION WILL BE TO
CHANGE THE ISSUANCE TIME OF THE MULTI-GRID WAVE MODEL GRIB2
PRODUCTS DISSEMINATED VIA NOAAPORT...AWIPS...THE NCEP FTP
SERVER AND NCEP'S REAL-TIME NOMADS SERVER. MODEL PRODUCTS FOR
ALL PROJECTIONS ARE CURRENTLY DISSEMINATED AT APPROXIMATELY
4 HOURS 30 MINUTES AFTER MODEL CYCLE TIME...WITH ALL
PROJECTIONS AVAILABLE IN ONE OUTPUT FILE PER MODEL GRID.

STARTING ON MAY 11...THE GRIB2 PRODUCTS WILL BE DISSEMINATED
THROUGHOUT THE RUN OF THE MODEL AS EACH FORECAST HOUR
COMPLETES. PRODUCTS WILL BEGIN TO BE DISSEMINATED AT
APPROXIMATELY 3 HOURS 30 MINUTES AFTER MODEL CYCLE TIME WITH
THE LAST FORECAST PROJECTION DISSEMINATED AT 4 HOURS 30
MINUTES AFTER MODEL CYCLE TIME. ON THE FTP SERVERS AND
NOMADS...EACH FORECAST HOUR WILL NOW BE PROVIDED IN A
SEPARATE FILE FOR EACH MODEL GRID.

THERE WILL BE NO CHANGE IN DISSEMINATION TIME FOR THE POINT-
BASED OUTPUT PRODUCTS DISSEMINATED VIA NOAAPORT AND AWIPS.
THOSE PRODUCTS WILL CONTINUE TO BE DISSEMINATED AT 4 HOURS
30 MINUTES AFTER MODEL CYCLE TIME.

ADDITIONAL CHANGES TO THE MULTI-GRID WAVE MODEL INCLUDE:

-INCREASE THE SPECTRAL RESOLUTION OF THE MODEL TO 50 BINS IN

FREQUENCY AND 36 BINS IN DIRECTION. THIS RESOLUTION CHANGE ONLY AFFECTS THE INTERNAL COMPUTATIONS OF THE MODEL. NO OUTPUT PRODUCTS WILL CHANGE RESOLUTION.

-EXTEND THE WAVE DATA COVERAGE ON THE GLOBAL GRID FROM 77.5N TO 82.5N. THE GLOBAL OUTPUT GRID WILL REMAIN THE SAME. THE NUMBER OF POINTS ON THAT GRID WITH NON-MISSING DATA VALUES WILL INCREASE. A VERY SMALL INCREASE IN DATA VOLUME IS EXPECTED DUE TO THIS CHANGE.

-CHANGES WILL BE MADE TO ELIMINATE SMALL INSTABILITIES IN THE CORNER OF THE COASTAL PACIFIC GRID /WC_4M/.

MORE DETAILS ABOUT THE NCEP MULTI-GRID WAVE MODEL ARE AVAILABLE AT /USE LOWERCASE/:

[HTTP://POLAR.NCEP.NOAA.GOV/WAVES/INDEX2.SHTML](http://POLAR.NCEP.NOAA.GOV/WAVES/INDEX2.SHTML)

A CONSISTENT PARALLEL FEED OF DATA IS AVAILABLE ON THE NCEP FTP SERVER FROM THE PARALLEL MODEL RUNNING ON THE NCEP CENTRAL COMPUTING SYSTEM. THE PARALLEL DATA IS AVAILABLE VIA THE FOLLOWING URL /USE LOWERCASE/:

[FTP://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/WAVE/PARA](ftp://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/WAVE/PARA)

NCEP ENCOURAGES ALL USERS TO ENSURE THEIR DECODERS ARE FLEXIBLE AND CAN HANDLE CHANGES IN CONTENT...PARAMETER FIELDS CHANGING ORDER...CHANGES IN THE SCALING FACTOR COMPONENT WITHIN THE PRODUCT DESCRIPTION SECTION /PDS/ OF THE GRIB FILES AND VOLUME CHANGES. THESE ELEMENTS MAY CHANGE WITH FUTURE NCEP MODEL IMPLEMENTATIONS. NCEP WILL MAKE EVERY ATTEMPT TO ALERT USERS TO THESE CHANGES PRIOR TO ANY IMPLEMENTATION.

FOR QUESTIONS REGARDING THESE MODEL CHANGES...PLEASE CONTACT:

HENDRIK TOLMAN
NCEP/MARINE MODELING AND ANALYSIS BRANCH
CAMP SPRINGS MARYLAND
301-763-8000 X 7253
HENDRIK.TOLMAN@NOAA.GOV

FOR QUESTIONS REGARDING THE DATAFLOW ASPECTS OF THESE DATA SETS... PLEASE CONTACT

REBECCA COSGROVE
NCEP/NCO DATAFLOW TEAM
CAMP SPRINGS MARYLAND 20746
301-763-8000 X 7198
NCEP.LIST.PMB-DATAFLOW@NOAA.GOV

NWS NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWERCASE/:

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

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