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TECHNICAL IMPLEMENTATION NOTICE 10-13 AMENDED  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
910 AM EDT THU APR 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  
CHIEF...SCIENCE PLANS BRANCH  
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED: 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 GRIDDED BINARY VERSION TWO /GRIB2/ PRODUCTS DISSEMINATED VIA  
NOAAPORT...THE ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM  
/AWIPS/...THE NCEP FILE TRANSFER PROTOCOL /FTP/ SERVER AND NCEP/S REAL-  
TIME NOAA OPERATIONAL MODEL ARCHIVE AND DISTRIBUTION SYSTEM /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 LOWER CASE/:

[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 LOWER CASE/:

[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](mailto: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  
301-763-8000 X 7198  
[NCEP.LIST.PMB-DATAFLOW@NOAA.GOV](mailto:NCEP.LIST.PMB-DATAFLOW@NOAA.GOV)

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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