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PNSWSH

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

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

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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