NOUS41 KWBC 151937
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-35
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
340 PM EDT THU JULY 15 2010

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

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

SUBJECT:  HORIZONTAL RESOLUTION CHANGES FOR CONUS RTMA ON NDGD
     EFFECTIVE SEPTEMBER 14 2010.

ON TUESDAY SEPTEMBER 14 2010 AT 1200 COORDINATED UNIVERSAL TIME
/UTC/ THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/
WILL CHANGE THE HORIZONTAL RESOLUTION OF THE REAL TIME MESOSCALE
ANALYSIS /RTMA/ FOR THE CONTIGUOUS UNITED STATES /CONUS/ ON THE
NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/.

THE RTMA IS A SET OF GRIDDED SURFACE ANALYSES AND SURFACE
ANALYSIS UNCERTAINLY FIELDS MADE AVAILABLE AT AN HOURLY TEMPORAL
FREQUENCY. THE CONUS RTMA ARE NOW AVAILABLE ON BOTH NOAAPORT AND
NDGD AT A HORIZONTAL RESOLUTION OF 5 KILOMETERS /KM/.  THE CONUS
RTMA WILL CHANGE FROM A HORIZONTAL RESOLUTION OF 5 TO 2.5 KM ON
THE NDGD WITH THE EXCEPTION OF THE GOES EFFECTIVE CLOUD AMOUNT
WHICH WILL REMAIN AT A HORIZONTAL RESOLUTION OF 5 KM.

ONLY THE CONUS RTMA ON THE NDGD WILL CHANGE RESOLUTION...THE
CONUS RTMA AVAILABLE ON NOAAPORT WILL CONTINUE TO BE AVAILABLE
AT A HORIZONTAL RESOLUTION OF 5 KM.  THE 2.5 KM RTMA PRODUCTS
WILL BE ADDED TO NOAAPORT IN THE COMING MONTHS.  A SEPARATE
TECHNICAL IMPLEMENTATION NOTICE /TIN/ WILL BE ISSUED ANNOUNCING
THAT CHANGE.

THE GRIDS LISTED IN TABLE 1 BELOW WILL CHANGE TO A RESOLUTION OF
2.5 KM.  THE GRIDS LISTED IN TABLE 2 WILL CONTINUE TO BE
PROVIDED AT A HORIZONTAL RESOLUTION OF 5 KM.


TABLE 1:  FILENAMES FOR CONUS RTMA AT 2.5 KM ON NDGD

FILENAME        RTMA PARAMETER

DS.TEMP.BIN      TEMPERATURE
DS.UTEMP.BIN     TEMPERATURE ANALYSIS UNCERTAINTY
DS.TD.BIN        DEWPOINT TEMPERATURE

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DS.UTD.BIN       DEWPOINT TEMPERATURE UNCERTAINTY
DS.WSPD.BIN      WIND SPEED
DS.UWSPD.BIN     WIND SPEED ANALYSIS UNCERTAINTY
DS.WDIR.BIN      WIND DIRECTION
DS.UWDIR.BIN     WIND DIRECTION ANALYSIS UNCERTAINTY
DS.PRECIPA.BIN   ACCUMULATED PRECIPITATION
DS.PRESS.BIN     SURFACE PRESSURE ANALYSIS
DS.UPRESS.BIN    SURFACE PRESSURE ANALYSIS UNCERTAINTY
DS.TERRAINH.BIN  MODEL TERRAIN HEIGHT
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TABLE 2:  FILENAMES FOR CONUS RTMA AT 5 KM ON NDGD

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FILENAME         RTMA PARAMETER

DS.SKY.BIN       GOES EFFECTIVE CLOUD AMOUNT
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THE RTMA DATA FOR THE CONUS IS AVAILABLE FROM NDGD AT: /USE
LOWERCASE EXCEPT FOR SL...ST...DF...DC...GT AND AR/:

FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/
GT.RTMA/AR.CONUS

UNDER THE MAIN DIRECTORY FOR THE CONUS RTMA TWENTY-FOUR
SUBDIRECTORIES EXIST ON THE NDGD...ONE FOR EACH HOUR OF THE
DAY...RT.00...RT.01...RT.02...THROUGH RT.23.
EXPERIMENTAL 2.5KM RTMA DATA FOR THE CONUS IS CURRENTLY
AVAILABLE AT /USE LOWERCASE/:
FTP://FTP.EMC.NCEP.NOAA.GOV/MMB/MMBPLL/RTMA/HRES/PARALLEL
NOTE THAT THIS IS EXPERIMENTAL DATA AND MAY NOT BE CONSISTENTLY
AVAILABLE AT ALL TIMES.
THE RTMA DATA FOR CONUS AT 2.5 KM HORIZONTAL RESOLUTION WILL BE
MADE AVAILABLE ONCE THE PROCESSING IS RUNNING IN PARALLEL AT
NCEP IN EARLY AUGUST.  THE DATA WILL BE AVAILABLE VIA HTTP AND
FTP ON THE NCEP SERVER AT:  /USE LOWERCASE/

HTTP://WWW.FTP.NCEP.NOAA.GOV/DATA/NCCF/COM/RTMA2P5/PARA
OR
FTP://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/RTMA2P5/PARA

THERE ARE TWO FILES FOR EACH HOUR LOCATED ON THIS SERVER.  FILES
WITH NAMES SUCH AS RTMA.00Z.2DVARANL_NDFD.GRB2 CONTAIN ALL OF
THE RTMA ANALYSIS FIELDS AND THE ASSOCIATED ERRORS.  FILES WITH
NAMES SUCH AS RTMA.00Z.2DVARGES_NDFD.GRB2 CONTAIN THE FIRST
GUESS FIELDS USED BY THE RTMA.

NCEP WILL CONTINUE TO REFINE THE RTMA.  USERS MAY PROVIDE
FEEDBACK ON THE EXPERIMENTAL RTMA PRODUCTS AT /USE LOWERCASE
EXCEPT FOR RTMA/:

HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=RTMA

FOR QUESTIONS REGARDING THE RTMA PLEASE CONTACT:

GEOFF DIMEGO
NCEP/ENVIRONMENTAL MODELING BRANCH
CAMP SPRINGS MD 20746
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EMAIL: GEOFF.DIMEGO@NOAA.GOV

ALL NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ONLINE AT /USE LOWERCASE/:

HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM

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