NOUS41 KWBC 151940
PNSWSH

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

TO:       SUBSCRIBERS:
          -FAMILY OF SERVICES
          -NOAA WEATHER WIRE SERVICE
          -EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
          -NOAAPORT
          OTHER NWS PARTNERS...USERS AND 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 FIVE KILOMETERS /KM/.  THE CONUS RTMA WILL CHANGE FROM A
HORIZONTAL RESOLUTION OF FIVE TO 2.5 KM ON THE NDGD WITH THE EXCEPTION OF
THE GEOSTATIONARY ORBITING ENVIRONMENTAL SATELLITE /GOES/ EFFECTIVE CLOUD
AMOUNT...WHICH WILL REMAIN AT A HORIZONTAL RESOLUTION OF FIVE 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 FIVE 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 FIVE KM.

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

FILENAME           RTMA PARAMETER
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DS.TEMP.BIN        TEMPERATURE
DS.UTEMP.BIN       TEMPERATURE ANALYSIS UNCERTAINTY
DS.TD.BIN          DEWPOINT TEMPERATURE
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

TABLE 2: FILENAMES FOR CONUS RTMA AT 5 KM ON NDGD

FILENAME           RTMA PARAMETER
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DS.SKY.BIN         GOES EFFECTIVE CLOUD AMOUNT
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THE RTMA DATA FOR THE CONUS IS AVAILABLE FROM NDGD AT: /USE LOWER CASE 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 LOWER CASE/:

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 LOWER CASE/:

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 LOWER CASE 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 MARYLAND
PHONE: 301-763-8000 X 7221
EMAIL: GEOFF.DIMEGO@NOAA.GOV

NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE

END
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