

NOUS41 KWBC DDHHMM
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-35
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
XXXX PM EDT TUE JUL 13 2010

TO: SUBSCRIBERS:
-FAMILY OF SERVICES
-NOAA WEATHER WIRE SERVICE
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
-NOAAPORT
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 UNCERTAINTY 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
 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 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... THERE ARE 24 SUBDIRECTORIES 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 ONLINE AT /USE LOWERCASE/:

FTP://FTP.EMC.NCEP.NOAA.GOV/MMB/MMBPLL/RTMA/HRES/PARALLEL
NOTE THAT THIS IS EXPERIMENTAL DATA AND MAY NOT BE 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 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:

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

NATIONAL TINS ARE ONLINE AT /USE LOWERCASE/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM](http://www.weather.gov/os/notif.htm)

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