

NOUS41 KWBC 021110
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-24
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
712 AM EDT TUE MAY 2 2006

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER
WIRE SERVICE /NWS/ SUBSCRIBERS...EMERGENCY MANAGERS
WEATHER INFORMATION NETWORK /EMWIN/ SUBSCRIBERS
...NOAAPORT SUBSCRIBERS...OTHER NATIONAL WEATHER SERVICE
/NWS/ CUSTOMERS AND PARTNERS...NWS EMPLOYEES

FROM: PAUL HIRSCHBERG
CHIEF...SCIENCE PLANS BRANCH
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ADDITION OF REAL TIME MESOSCALE ANALYSIS GRIDS:
EFFECTIVE AUGUST 1 2006

EFFECTIVE TUESDAY AUGUST 1 2006...BEGINNING AT 1500 COORDINATED
UNIVERSAL TIME /UTC/...THE NATIONAL CENTERS FOR ENVIRONMENTAL
PREDICTION /NCEP/ WILL BEGIN THE DISSEMINATION OF A NEW PRODUCT:
REAL TIME MESOSCALE ANALYSES /RTMA/ VIA NOAAPORT AND NATIONAL
DIGITAL GUIDANCE DATABASE /NDGD/.

RTMA CONSISTS OF A SET OF GRIDDED SURFACE ANALYSES CORRESPONDING
TO THE SIX PARAMETERS LISTED BELOW IN TABLE 1. THE TEMPERATURE..
DEWPOINT...AND U AND V COMPONENT WIND GRIDS WILL EACH ALSO BE
ACCOMPANIED BY AN ESTIMATED ERROR GRID.

AS THE NAME SUGGESTS THE RTMA GRIDS ARE INTENDED FOR DISTRIBUTION
IN NEAR REAL TIME. THUS NCEP EXPLOITS ALL READILY AVAILABLE
SATELLITE...RADAR...RAIN GAGES... ASOS... MESONET...AND OTHER
SENSOR DATA IN THE GENERATION OF THESE GRIDS. THE SENSOR DATA ARE
INTERPOLATED TO A 5 KM RESOLUTION CONUS GRID AND ENCODED IN
GRIB2.

NCEP WILL GENERATE ONE SET OF RTMA GRIDS EACH HOUR. EACH HOURLY
GRID SET WILL HAVE A VALID TIME CORRESPONDING TO AN EVEN HOUR
/I.E. 0000...0100...0200...THRU 2300/. THE RTMA GRIDS WILL BE
DISSEMINATED VIA NOAAPORT AND AVAILABLE ON NDGD AT APPROXIMATELY
35 MINUTES AFTER THE VALID TIME HOUR.

THE HOURLY DATA VOLUME WILL BE APPROXIMATELY 5 MEGABYTES /MB/ AND
THE DAILY VOLUME WILL BE APPROXIMATELY 120 MB.

ALL OF THE GRIDS LISTED IN TABLE 1 WILL BE CARRIED ON NOAAPORT.

ALL OF THE GRIDS LISTED IN TABLE 1...EXCEPT FOR U AND V
WINDS...WILL BE AVAILABLE BY AUGUST 1 IN NDGD ON THE NWS FTP
SERVER IN SUBDIRECTORIES OF /USE LOWER CASE LETTERS EXCEPT FOR

SL...ST...DF... DC...GT...AND AR/:

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

THE ADDITION OF WIND SPEED AND DIRECTION TO NDGD IS PLANNED FOR
LATE 2006. A SEPARATE NOTICE WILL BE ISSUED AT A LATER DATE TO
DESCRIBE THIS ADDITION.

TABLE 1: WMO HEADINGS ASSIGNED TO THE RTMA GRIDS

WMO HEADING RTMA PARAMETERS

LTMA98 KWBR: TEMPERATURE AND TEMPERATURE ERROR
LRMA98 KWBR: DEWPOINT TEMPERATURE AND DEWPOINT TEMPERATURE ERROR
LUMA98 KWBR: U WIND COMPONENT AND U WIND COMPONENT ERROR
LVMA98 KWBR: V WIND COMPONENT AND V WIND COMPONENT ERROR
LEMA98 KWBR: PRECIPITATION /NO ERROR GRID/
LAMA98 KWBR: GOES EFFECTIVE CLOUD AMOUNT /NO ERROR GRID/

NCEP IS PREPARING RTMA PRODUCTS IN A TEST MODE AND HOSTING
GRAPHICAL SAMPLES. FOR EXAMPLE...GRAPHICAL SAMPLES OF RTMA AND
RTMA COMPARISONS /WITH NAM...RUC...AND FIRST GUESS PRODUCTS/ FOR
TEMPERATURE...DEWPOINT...AND WIND...CAN BE FOUND AT /USE LOWER
CASE LETTERS/:

[HTTP://WWW.EMC.NCEP.NOAA.GOV/MB/RTMA](http://www.emc.ncep.noaa.gov/mb/rtma)

TEST MODE RTMA PRECIPITATION GRAPHICS ARE AT /USE LOWER CASE
LETTERS/:

[HTTP://WWW.EMC.NCEP.NOAA.GOV/MB/YLIN/PCPANL/STAGE2/IMAGES/
HRAPVNDFD.LATEST.GIF](http://www.emc.ncep.noaa.gov/mb/ylin/pcpanl/stage2/images/hrapvndfd.latest.gif)

NESDIS HOSTS GOES EFFECTIVE CLOUD AMOUNT GRAPHICAL
PRODUCTS...THOUGH FOR A LARGER DOMAIN THAN WILL BE AVAILABLE FOR
RTMA...AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.ORBIT.NESDIS.NOAA.GOV/SMCD/OPDB/GOES/SDPI/HTML/
XDPIECA24.HTML](http://www.orbit.nesdis.noaa.gov/smcd/opdb/goes/sdpi/html/xdpieca24.html)

MORE INFORMATION ON THIS CHANGE...INCLUDING THE NWS CHANGE
REQUEST...CAN BE FOUND AT THE FOLLOWING WEB SITE /USE LOWER CASE
LETTERS/:

[HTTP://WWW.NCO.NCEP.NOAA.GOV/PMB/CHANGES](http://www.nco.ncep.noaa.gov/pmb/changes)

IF YOU HAVE ANY QUESTIONS CONCERNING THESE CHANGES...PLEASE
CONTACT:

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THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ONLINE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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