TECHNICAL IMPLEMENTATION NOTICE 06-24...AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
940 AM EDT MON AUG 21 2006

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER WIRE SERVICE /NWWS/ 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: AMENDED: ADDITION OF REAL TIME MESOSCALE ANALYSIS GRIDS: EFFECTIVE AUGUST 22 2006

REFER TO: TECHNICAL IMPLEMENTATION NOTICE /TIN/ 06-24 TRANSMITTED ON MAY 2 2006

AMENDED TO CHANGE EFFECTIVE DATE FROM AUGUST 1 2006 TO AUGUST 22 2006... EXCEPT FOR OCTOBER 17 2006 IMPLEMENTATION OF GOES EFFECTIVE CLOUD AMOUNT PRODUCT. THIS NOTICE ALSO AMENDS TIN 06-24 TO ANNOUNCE REVISED INFORMATION ON THE IMPLEMENTATION OF REAL TIME MESOSCALE ANALYSES /RTMA/ VIA NOAAPORT AND THE NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/.

AMENDMENTS TO THE ORIGINAL TIN INCLUDE:

1. ALL RTMA PRODUCTS WILL BE CLASSIFIED AS EXPERIMENTAL FOR 18 MONTHS FROM THE DATE OF ACTIVATION. THIS EXPERIMENTAL STATUS IS DUE TO ANTICIPATED ONGOING TESTING AND PRODUCT IMPROVEMENTS.

2. THE IMPLEMENTATION DATE FOR ALL RTMA PRODUCTS...EXCEPT THE GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITE /GOES/ EFFECTIVE CLOUD AMOUNT PRODUCT...IS AUGUST 22 2006.

3. THE IMPLEMENTATION DATE FOR THE RTMA GOES EFFECTIVE CLOUD AMOUNT PRODUCT IS OCTOBER 17 2006.

4. THE RTMA ERROR GRIDS ARE NOW REFERRED TO AS THE RTMA ANALYSIS UNCERTAINTY GRIDS.

5. THE U AND V WIND COMPONENT ERROR GRIDS HAVE BEEN REPLACED WITH WIND SPEED AND DIRECTION ANALYSIS UNCERTAINTY GRIDS.

6. THE RTMA GOES EFFECTIVE CLOUD AMOUNT WILL ORIGINATE FROM THE NATIONAL ENVIRONMENTAL SATELLITE... DATA... AND INFORMATION SERVICE /NESDIS/ AND...THUS...WILL HAVE A WMO
HEADING PROCESSING CENTER ID /CCCC/ OF KNES. ALL OTHER RTMA PRODUCTS WILL ORIGINATE FROM THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ AND WILL HAVE A WMO HEADING CENTER ID OF KWBR.

THE AMENDED TIN IS BELOW.

EFFECTIVE TUESDAY AUGUST 22 2006...BEGINNING AT 1500 COORDINATED UNIVERSAL TIME /UTC/...NCEP-PRODUCED RTMA PRODUCTS WILL BEGIN DISSEMINATION VIA NOAAPORT AND NDGD. EFFECTIVE TUESDAY OCTOBER 17 2006...BEGINNING AT 1500 UTC...NESDIS-PRODUCED GOES EFFECTIVE CLOUD AMOUNT PRODUCT WILL BEGIN DISSEMINATION VIA NOAAPORT AND NDGD.

RTMA CONSISTS OF A SET OF GRIDDED SURFACE ANALYSES CORRESPONDING TO THE PARAMETERS LISTED BELOW IN TABLES 1 AND 2. THE TEMPERATURE AND DEWPOINT GRIDS WILL EACH BE ACCOMPANIED BY AN ANALYSIS UNCERTAINTY GRID. FURTHERMORE...WIND SPEED AND WIND DIRECTION UNCERTAINTY GRIDS WILL BE PROVIDED.

AS THE NAME SUGGESTS... THE RTMA GRIDS ARE INTENDED FOR DISTRIBUTION IN NEAR REAL-TIME. THUS NCEP AND NESDIS EXPLOIT ALL READILY AVAILABLE SATELLITE...RADAR...RAIN GAGE...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 AND NESDIS WILL GENERATE ONE SET OF RTMA GRIDS EACH HOUR. EACH HOURLY GRID SET WILL HAVE A VALID TIME CORRESPONDING TO AN EVEN HOUR /E.I. 0000...0100...0200...THRU 2300/. THE RTMA GRIDS WILL BE DISSEMINATED VIA NOAAPORT AND AVAILABLE ON NDGD AT APPROXIMATELY 45 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 AND NDGD. IN ADDITION...THE GRIDS LISTED IN TABLE 2 WILL BE CARRIED ON NOAAPORT ONLY:

TABLE 1: NOAAPORT AND NDGD RTMA GRIDS

WMO HEADING   RTMA PARAMETERS

LTMA98 KWBR:  TEMPERATURE
LTMA98 KWBR:  TEMPERATURE ANALYSIS UNCERTAINTY
LRMA98 KWBR:  DEWPOINT TEMPERATURE
LRMA98 KWBR:  DEWPOINT TEMPERATURE ANALYSIS UNCERTAINTY
LNMA98 KWBR:  WIND SPEED
LNMA98 KWBR:  WIND SPEED ANALYSIS UNCERTAINTY
LNMA98 KWBR:  WIND DIRECTION
LNMA98 KWBR:  WIND DIRECTION ANALYSIS UNCERTAINTY
LEMA98 KWBR:  PRECIPITATION /NO UNCERTAINTY GRID/
LAMA98 KNES: GOES EFFECTIVE CLOUD AMOUNT /NO UNCERTAINTY GRID/

TABLE 2: NOAAPORT-ONLY GRIDS

WMO HEADING RTMA PARAMETERS

LUMA98 KWBR: U WIND COMPONENT /NO UNCERTAINTY GRID/
LVMA98 KWBR: V WIND COMPONENT /NO UNCERTAINTY GRID/

THE NDGD GRIDS WILL BE AVAILABLE 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

THESE RTMA PRODUCTS ARE EXPERIMENTAL AND NCEP WILL CONTINUE TO
DEVELOP AND REFINE THEM. USERS ARE ENCOURAGED TO PROVIDE FEEDBACK
ON THE EXPERIMENTAL RTMA PRODUCTS USING THE BRIEF SURVEY AND
COMMENT FORM AVAILABLE ONLINE AT /USE LOWER CASE LETTERS/:

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

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/MMB/RTMA

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

HTTP://WWW.EMC.NCEP.NOAA.GOV/MMB/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

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

THE EFFECTIVE DATE OF THIS CHANGE IS SOONER THAN SPECIFIED BY NWS
POLICY. THE SHORTER ADVANCE LEAD TIME WAS CAUSED BY THE NECESSITY
TO CONDUCT TESTING AND EVALUATION FOR PRODUCT IMPROVEMENTS TO
BETTER SERVE THE USERS. THE SHORTER LEAD TIME WAS APPROVED
BECAUSE IT IS EXPECTED THAT USERS WILL NOT HAVE TO MAKE MAJOR
ADJUSTMENTS TO ACCOMMODATE THESE CHANGES.
IF YOU HAVE QUESTIONS ABOUT THESE CHANGES...PLEASE CONTACT:

BRENT GORDON
NCEP...PRODUCTION MANAGEMENT BRANCH
CAMP SPRINGS MARYLAND
PHONE: 301 763 8000 X7193
EMAIL: BRENT.GORDON@NOAA.GOV

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

HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM

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