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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-07 AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
150 PM EST MON JAN 25 2010

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

FROM: TIMOTHY MCCLUNG
CHIEF...SCIENCE PLANS BRANCH
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED: RAPID UPDATE CYCLE CHANGES: POSTPONED TO MARCH 2 2010

AMENDED TO POSTPONE EFFECTIVE DATE FOR IMPLEMENTATION OF RAPID UPDATE
CYCLE CHANGES FROM FEBRUARY 23 TO MARCH 2 2010.

EFFECTIVE TUESDAY MARCH 2 2010...BEGINNING WITH THE 1500 COORDINATED
UNIVERSAL TIME /UTC/ RUN...THE NATIONAL CENTERS FOR ENVIRONMENTAL
PREDICTION /NCEP/ WILL UPGRADE THE RAPID UPDATE CYCLE /RUC/ MODELING
SYSTEM.

THE PRIMARY CHANGE IS TO EXTEND THE OUTPUT FROM THE SYSTEM FOR ALL CYCLES
TO 18 HOURS. CURRENTLY...THE 00...03...06...09...12...15...18 AND 21 UTC
MODEL CYCLES PRODUCE FORECAST GUIDANCE OUT TO 12 HOURS WITH THE OTHER
CYCLES PREDICTING ONLY TO NINE HOURS. WITH THIS CHANGE...ALL GRIDDED
BINARY /GRIB/ AND BINARY UNIVERSAL FORM FOR THE REPRESENTATION OF
METEOROLOGICAL DATA /BUFR/ PRODUCTS WILL BE AVAILABLE HOURLY OUT THROUGH
18 HOURS FOR ALL 24 CYCLES. THE NEW FORECAST HOURS WILL NOT BE AVAILABLE
ON NOAAPORT OR IN THE ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM
/AWIPS/ AT THIS TIME...BUT WILL BE AVAILABLE TO THE PUBLIC AT THE
LOCATIONS LISTED BELOW.

IN ADDITION...THE FOLLOWING CHANGES ARE BEING MADE TO THE RUC
ANALYSIS/PRE-PROCESSING CODE:

1. THE MODEL WILL NOW ASSIMILATE CANADIAN AIRCRAFT /AMDAR/ DATA.
2. A BUG IN THE CLOUD-BUILDING CODE IS CORRECTED THAT WILL IMPACT THE
VIRTUAL POTENTIAL TEMPERATURE IN CLOUDY AREAS. THE IMPACTS OF THIS BUG
WERE GENERALLY SMALL AND CONFINED TO THE ANALYSIS TIME OR FIRST HOUR OF
MODEL INTEGRATION.
3. THE REJECT LIST FOR AIRCRAFT OBSERVATIONS WILL BE UPDATED.
4. THE TIMING OF THE REMOVAL OF SNOW AT GRID POINTS WHERE THE NESDIS SNOW
ANALYSIS DOES NOT SUPPORT ITS PRESENCE /SNOW CLEARING/ WILL BE CHANGED
FROM ONCE PER DAY AT 19 UTC TO TWICE PER DAY AT 17 UTC AND 23 UTC TO MAKE

THE PROCESS MORE EFFICIENT. A LAND-SEA MASK WILL ALSO BE INCORPORATED INTO THIS SNOW CLEARING PROCESS DUE TO THE DIFFERENCE IN RESOLUTION BETWEEN THE NESDIS ANALYSIS AND THE RUC.

DATA DELIVERY TIMING OF THE EXISTING RUC PRODUCTS WILL NOT BE IMPACTED BY THIS IMPLEMENTATION. AN INCREASE IN DATA VOLUMES IS EXPECTED FOR THE ADDITIONAL FORECAST HOURS. THE RUC GUIDANCE IS AVAILABLE AT THE FOLLOWING LOCATIONS /USE LOWER CASE EXCEPT FOR SL...ST...MT AND CY IN THE FIRST URL. THE XX IN THE FIRST URL REPRESENTS THE MODEL CYCLE: A TWO DIGIT NUMBER RANGING FROM 00 TO 23...CORRESPONDING TO MODEL CYCLE IN UTC./:

NWS PUBLIC FILE TRANSFER PROTOCOL /FTP/ SERVER:

[FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.OPNL/MT.RUC.CY.XX](ftp://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.OPNL/MT.RUC.CY.XX)

NCEP PUBLIC FTP SERVER:

[FTP://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/RUC/PROD](ftp://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/RUC/PROD)

NOMADS /NOAA OPERATIONAL MODEL ARCHIVE AND DISTRIBUTION SYSTEM/ SERVER/:

[HTTP://WWW.NOMADS.NCEP.NOAA.GOV](http://WWW.NOMADS.NCEP.NOAA.GOV)

USERS SHOULD ENSURE THEIR DECODERS ARE FLEXIBLE AND ARE ABLE TO ADEQUATELY HANDLE CHANGES IN CONTENT ORDER...PARAMETER FIELDS CHANGING ORDER...CHANGES IN THE SCALING FACTOR COMPONENT WITHIN THE PRODUCT DEFINITION SECTION /PDS/ OF THE GRIB FILES AND ALSO ANY VOLUME CHANGES WHICH MAY BE FORTHCOMING. THESE ELEMENTS MAY CHANGE WITH FUTURE NCEP MODEL IMPLEMENTATIONS. NCEP WILL MAKE EVERY ATTEMPT TO ALERT USERS TO THESE CHANGES PRIOR TO ANY IMPLEMENTATIONS.

FOR QUESTIONS REGARDING THESE MODEL CHANGES...CONTACT:

GEOFF MANIKIN
NCEP/EMC...MESOSCALE MODELING BRANCH
CAMP SPRINGS MARYLAND
301-763-8000 X 7263
GEOFFREY.MANIKIN@NOAA.GOV

OR

STAN BENJAMIN
NOAA EARTH SYSTEM RESEARCH LABORATORY
BOULDER COLORADO
303-497-6387
STAN.BENJAMIN@NOAA.GOV

FOR QUESTIONS REGARDING THE DATAFLOW ASPECTS OF THESE DATA SETS...PLEASE CONTACT:

REBECCA COSGROVE
NCEP/NCO DATAFLOW TEAM
CAMP SPRINGS MARYLAND
301-763-8000 X 7198
NCEP.PMB.DATAFLOW@NOAA.GOV

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

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/notification/archive)

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