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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
SCIENCE PLANS BRANCH CHIEF
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED DATE: 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 9 HOURS. WITH
THIS CHANGE ALL GRIB AND 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 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 LOWERCASE 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 FTP SERVER:

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

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

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 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 20746
301-763-8000 X 7198
NCEP.PMB.DATAFLOW@NOAA.GOV

NWS NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWERCASE/:

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

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