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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-07  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
320 PM EST FRI JAN 15 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: RAPID UPDATE CYCLE CHANGES:  
EFFECTIVE FEBRUARY 23 2010

EFFECTIVE TUESDAY FEBRUARY 23 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

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