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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-99 AMENDED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
142 PM EST THU JAN 8 2009

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

FROM: JASON TUELL
CHIEF...SCIENCE PLANS BRANCH
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: AMENDED: GLOBAL FORECAST SYSTEM CHANGES: EFFECTIVE
FEBRUARY 24 2009

REFER TO: TECHNICAL IMPLEMENTATION NOTICE /TIN/ 08-99 TRANSMITTED
ON DECEMBER 22 2008

AMENDED TO DELAY THE EFFECTIVE DATE FROM FEBRUARY 10 2009 TO
FEBRUARY 24 2009. THE CHANGE WILL ALLOW ADDITIONAL TIME FOR
SUBJECTIVE EVALUATION. THE ORIGINAL NOTICE...WITH THE REVISED
DATE...IS BELOW:

EFFECTIVE TUESDAY FEBRUARY 10 2009...BEGINNING WITH THE 1200
COORDINATED UNIVERSAL TIME /UTC/ RUN...THE GLOBAL ANALYSIS
SYSTEM WILL BE MODIFIED TO INCLUDE CHANGES IN THE OBSERVATIONS
USED IN THE ANALYSIS AND IN THE FORMULATION OF THE ANALYSIS.
THESE CHANGES ARE EXPECTED TO IMPROVE PERFORMANCE OF THE
GLOBAL FORECAST AND ASSIMILATION SYSTEM.

THE CHANGES TO THE GLOBAL ANALYSIS SYSTEM /A GLOBAL
APPLICATION OF THE GRID-POINT STATISTICAL INTERPOLATION /GSI/
SYSTEM/ INCLUDE:

1. INCLUSION OF METOP IASI DATA
2. USE OF VARIATIONAL QC
3. CHANGE IN LAND/SNOW/ICE SKIN TEMPERATURE VARIANCE
4. FLOW DEPENDENT REWEIGHTING OF BACKGROUND ERROR VARIANCES
5. ADDITION OF BACKGROUND ERROR COVARIANCE INPUT FILE
6. REDUCTION OF NUMBER OF AIRS WATER VAPOR CHANNELS USED
7. USE OF NEW VERSION AND COEFFICIENTS FOR COMMUNITY
RADIATIVE TRANSFER MODEL
8. MODIFICATION OF HEIGHT ASSIGNMENT FOR HEIGHT BASED WIND
OBSERVATIONS
9. MODIFICATION OF SURFACE LAND USE FILE TO REMOVE A FEW
PERMANENT /~12/ GLACIAL POINTS TO IMPROVE SURFACE
TEMPERATURE FORECASTS OVER THOSE POINTS.

DATA DELIVERY TIMING WILL NOT BE IMPACTED BY THIS IMPLEMENTATION.
THE GFS DELIVERY TIME WILL NOT CHANGE.

TEST DATA WILL BE AVAILABLE ON 22 DECEMBER VIA THE NCEP FTP
SERVER AT THE FOLLOWING LOCATIONS /USE LOWERCASE LETTERS/:

FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/GFS/PARA/GFS.YYYYMMDD

FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/GFS/PARA/GDAS.YYYYMMDD

THERE WILL BE NO CHANGE IN THE FORMAT OR CONTENT OF THE DATA
VIA ALL DISSEMINATION ROUTES THAT INCLUDE NOAAPORT...THE NWS
PUBLIC FTP SERVER AND THE NCEP PUBLIC FTP SERVER.

FOR QUESTIONS CONCERNING THESE CHANGES...PLEASE CONTACT:

JOHN H. WARD
NCEP...GLOBAL MODELING BRANCH
CAMP SPRINGS MARYLAND
301-763-8000 X7185
JOHN.WARD@NOAA.GOV

OR

JOHN DERBER
NCEP
CAMP SPRINGS MARYLAND
301-763-8000 X7740
JOHN.DERBER@NOAA.GOV

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

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

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