

NOUS41 KWBC 221936  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-99  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
236 PM EST MON DEC 22 2008

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: GLOBAL FORECAST SYSTEM CHANGES: EFFECTIVE  
FEBRUARY 10 2009

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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