NOUS41 KWBC 151858
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TECHNICAL IMPLEMENTATION NOTICE 09-03
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
158 PM EST THU JAN 15 2009

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

FROM: JORDAN ALPERT
          ENVIRONMENTAL MODELING CENTER

          RICK HACKENBERG
          NCEP CENTRAL OPERATIONS

SUBJECT: OPERATIONAL IMPLEMENTATION ON FEBRUARY 14 2009 OF HIGH
AVAILABILITY APPLICATIONS FOR SERVING DATA FROM THE NOAA OPERATIONAL MODEL
ARCHIVE DISTRIBUTION SYSTEM /NOMADS/ AT THE WEB OPERATIONS CENTER /WOC/

ON FRIDAY FEBRUARY 14 2009...THE NWS NATIONAL CENTERS FOR ENVIRONMENTAL
PREDICTION /NCEP/ WILL START PROVIDING HIGH AVAILABILITY NOAA NOMADS
APPLICATIONS FOR SERVING MODEL DATA ON THE WOC SERVER.

NOMADS IS AN IMPORTANT COMPONENT OF NOAA/S INFORMATION DATABASE. NOMADS
BEGAN AS A PILOT PROJECT DESIGNED TO PROVIDE A SERVICE ORIENTED FRAMEWORK
FOR:

- A DIGITAL ARCHIVE AND REAL TIME DISTRIBUTION OF NOAA/S OPERATIONAL
WEATHER MODELS.
- AN INNOVATIVE DATA ACCESS PHILOSOPHY TO PROMOTE INTEROPERABLE ACCESS
ACROSS THE GEOSCIENCES.
- AN INTEGRATOR OF COMMON WEB SERVICES INFRASTRUCTURE TO SUPPORT THE
DISCOVERY...ACCESS AND TRANSPORT OF DATA.
- REAL-TIME AND RETROSPECTIVE FORMAT INDEPENDENT ACCESS TO CLIMATE...OCEAN
AND WEATHER MODEL DATA.

NWS RECEIVED FAVORABLE COMMENTS ON THE PROPOSAL TO PROVIDE HIGH
AVAILABILITY NOMADS APPLICATIONS FOR SERVING MODEL DATA ON THE WOC SERVER.
NCEP WILL INTRODUCE THE FOLLOWING NOMADS WEB BASED ACCESS APPLICATIONS:

GRIDDED BINARY /GRIB/_FILTER: PROVIDES ACCESS TO BINARY GRIB DATA WITH
SUB-SETTING THROUGH TIME...SPACE AND VARIABLES USING TRADITIONAL BUT
ENHANCED FILE TRANSFER PROTOCOL /FTP/ PROCESSES. DATA ARE PROVIDED IN RAW
GRIB FORMAT ONLINE AND RESULTS ARE REPACKAGED GRIB FILES STREAMED TO THE
USER/S WORKSTATION. WEB INTERFACES COMMUNICATE THE USERS REQUEST AND HTTP
PROTOCOL IS USED TO DELIVER RESULTS.

OPENDAP /GDS/DODS/ SERVER: THE OPEN SOURCE PROJECT FOR A NETWORK DATA ACCESS PROTOCOL /OPENDAP/ IMPLEMENTED UNDER THE GRADS DATA SERVER /GDS/ DISTRIBUTED OCEAN DATA SYSTEM /DODS/ PROVIDES SIMPLE FILE-LEVEL ACCESS/DOWNLOAD VALUES OF ENTIRE FILES OR ONE OR MORE VALUES FROM THE MATRIX OF SERVER GRIB DATA HOLDINGS.

THESE CHANGES ARE MADE TO ADDRESS A GROWING NEED FOR REMOTE ACCESS TO HIGH VOLUME NWP MODEL DATA. A MORE DETAILED DESCRIPTION OF THESE CHANGES IS ONLINE AT /USE LOWER CASE/:

HTTP://NOMADS.NCEP.NOAA.GOV/

AND VIA SERVICE DESCRIPTION DOCUMENT UNDER THE HEADING SERVICE DOCUMENT AT THE ABOVE WEBSITE.

FOR QUESTIONS ON NOMADS...PLEASE CONTACT:

NCEP NOMADS HIGH AVAILABILITY TECHNICAL SUPPORT
NCEP NCO PMB HELPDESK
301-763-8000 X 7198

FOR SCIENCE/DATA QUESTIONS...CONTACT:

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301-763-8000 X 7205

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

HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE

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