

NOUS41 KWBC 251854
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 09-42
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
150 PM EDT WED NOV 25 2009

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

FROM: JORDAN ALPERT...ENVIRONMENTAL MODELING CENTER /EMC/
RICK HACKENBERG...NCEP CENTRAL OPERATIONS /NCO/

SUBJECT: REMINDER: 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/

THIS TECHNICAL IMPLEMENTATION NOTICE /TIN/ IS BEING REISSUED TO
REMIND USERS OF THE AVAILABILITY OF THE NCEP NOMADS SERVER AT /USE
LOWERCASE/:

[HTTP://NOMADS.NCEP.NOAA.GOV/](http://nomads.ncep.noaa.gov/)

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

NOMADS IS AN IMPORTANT COMPONENT OF NOAA/S INFORMATION DATA
BASE. 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:

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

[HTTP://NOMADS.NCEP.NOAA.GOV/](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
EMAIL: NCEP.LIST.PMB-DATAFLOW@NOAA.GOV

SCIENCE/DATA QUESTIONS:
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NWS 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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