

NOUS41 KWBC 201805
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-42
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
205 PM EDT TUE MAY 20 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: ENSEMBLE WAVE MODEL CHANGES: EFFECTIVE JUNE 24 2008

EFFECTIVE TUESDAY JUNE 24 2008...BEGINNING WITH THE 1200 COORDINATED
UNIVERSAL TIME /UTC/ RUN...THE NATIONAL CENTERS FOR ENVIRONMENTAL
PREDICTION /NCEP/ WILL INTRODUCE CHANGES TO THE ENSEMBLE WAVE MODEL. THE
MODEL CHANGES INCLUDE:

1. USING THE NEW MULTI-GRID WAVEWATCH-III MODEL TO DRIVE THE ENSEMBLES.
THIS MODEL IS CURRENTLY BEING USED IN THE FORECAST WAVE MODEL AND INCLUDES
UPGRADES TO MODEL PHYSICS.
2. ADDING A 1-DEGREE X 1-DEGREE GLOBAL GRID THAT EXTENDS FROM -80S TO
80N.
3. EXTENDING ENSEMBLE MEMBERS FROM 10 TO 20.
4. EXTENDING FORECASTS FROM FIVE DAYS TO 10 DAYS.
5. INSTEAD OF USING THE SAME RESTART FILE FOR ALL THE ENSEMBLE
MEMBERS...THE ENSEMBLE MEMBERS WILL NOW RETAIN THEIR OWN INDIVIDUAL
RESTART FILES. THIS PROVIDES GREATER VARIABILITY IN THE
ENSEMBLES...MAKING THE STATISTICS MORE MEANINGFUL.
6. PROVIDING ALL OUTPUT FILES IN GRIDDED BINARY VERSION TWO /GRIB2/
FORMAT.

THE COMBINED IMPACT OF THESE CHANGES HAS LED TO AN IMPROVEMENT IN MODEL
PERFORMANCE BECAUSE THERE IS A GREATER SPREAD IN THE WAVE DATA WHICH
ACCURATELY REFLECTS THE SPREAD IN THE WIND ENSEMBLES. THIS CHANGE IN TURN
PROVIDES BETTER STATISTICAL ESTIMATES.

DATA DELIVERY TIMING/CONTENT/VOLUME CHANGES:

NOAAPORT DATA: THESE DATA SETS ARE NOT AVAILABLE ON NOAAPORT.

NWS FILE TRANSFER PROTOCOL /FTP/ SERVER: THESE DATA SETS ARE NOT AVAILABLE ON THE NWS FTP SERVER.

NCEP FTP SERVER: A CONSISTENT FEED OF TEST DATA WILL BECOME AVAILABLE ON MAY 19 2008 IN THE FOLLOWING LOCATION ON THE NCEP FTP SERVER /USE LOWER CASE/:

[FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/WAVE/PARA](ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/wave/para)

FILENAME NAMES AFFECTED BY THIS CHANGE CONTAIN ONE OF THE FOLLOWING QUALIFIERS /USE LOWER CASE/:

MENS
GEP
MEAN
SPREAD
PROBAB

IF YOU HAVE QUESTIONS ABOUT THESE CHANGES...PLEASE CONTACT:

HENDRIK TOLMAN
NCEP/EMC...CHIEF...MARINE MODELING BRANCH
CAMP SPRINGS MARYLAND
PHONE: 301-763-8000 X 7253
EMAIL: HENDRIK.TOLMAN@NOAA.GOV

FOR QUESTIONS REGARDING THE DATAFLOW ASPECTS OF THESE DATA SETS...PLEASE CONTACT THE NCEP/NCO/PMB DATAFLOW HELP DESK AT:

EMAIL: NCEP.PMB.DATAFLOW@NOAA.GOV

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

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/notification/archive)

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