

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)

FILENAMES 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](mailto: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](mailto: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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