

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  
OTHER NWS PARTNERS...USERS AND EMPLOYEES

FROM: JASON TUELL  
SCIENCE PLANS BRANCH CHIEF  
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 5 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 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 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 LOWERCASE LETTERS/:

FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/WAVE/PARA

FILENAMES AFFECTED BY THIS CHANGE CONTAIN ONE OF THE FOLLOWING QUALIFIERS /USE LOWERCASE LETTERS/:

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 X7253  
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

NWS TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE LETTERS/:

HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM

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