

NOUS41 KWBC 151630
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-11
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1130 AM EST FRI FEB 15 2008

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

FROM: PAUL HIRSCHBERG
CHIEF...SCIENCE PLANS BRANCH
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: GREAT LAKES WAVE MODEL IMPLEMENTATION: EFFECTIVE MARCH 25 2008

EFFECTIVE TUESDAY MARCH 25 2008...AT 1200 COORDINATED UNIVERSAL TIME
/UTC/...THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ WILL
IMPLEMENT THE GREAT LAKES WAVE MODEL /GLWM/ INTO OPERATIONS.

PARALLEL DATA IS AVAILABLE ON THE NCEP FILE TRANSFER PROTOCOL /FTP/
SERVER. THIS DATA CAN BE USED TO EVALUATE THE MODEL DURING PARALLEL
OPERATIONS. PLEASE SEND FEEDBACK TO JOHN.WARD@NOAA.GOV.

THE DATA IS AVAILABLE AT /USE LOWER CASE/:

[FTP://FTP.NCEP.NOAA.GOV/PUB/DATA/NCCF/COM/WAVE/PARA/WAVE.YYYYMMDD/GLW.GRL.
TCCZ.GRIB2](ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/wave/para/wave.yyyymmdd/glw.grl.tccz.grib2)

WHERE CC /LOCATED BETWEEN THE T AND Z/ IS 00 OR 06 OR 12 OR 18.

THE GLWM MODEL WILL USE THE THIRD GENERATION WIND WAVE MODEL WAVEWATCH III
THAT IS CURRENTLY USED TO DRIVE THE MULTI-GRID GLOBAL WAVE FORECAST MODEL.
GLWM WILL CONSIST OF A SINGLE GRID FOR THE GREAT LAKES AT A RESOLUTION OF
THREE MINUTES IN LONGITUDE AND 2.1 MINUTES IN LATITUDE. GLWM WILL CONSIST
OF FOUR CYCLES PER DAY WHICH ARE 00Z...06Z...12Z AND 18Z. EACH CYCLE WILL
BE RUN USING THE NAM HOURLY WINDS OUT TO 84 HOURS. A PARTITIONING
ALGORITHM IS USED TO PROPERLY PARTITION THE ENERGY SPECTRA. FIELD OUTPUT
WILL BE PROVIDED IN GRIDDED BINARY VERSION TWO /GRIB2/ FORMAT ON AN HOURLY
TEMPORAL RESOLUTION AND WILL INCLUDE THE FOLLOWING FIELDS:

WIND SPEED AND DIRECTION
WIND VELOCITIES /U AND V/
SIGNIFICANT WAVE HEIGHT
MEAN WAVE DIRECTION
PEAK PERIOD
PEAK PERIOD...WAVE DIRECTION AND SIGNIFICANT WAVE HEIGHT OF PARTITIONED
SPECTRA.

SPECTRA ARE CURRENTLY PARTITIONED INTO A WAND WAVE COMPONENT...A PRIMARY SWELL COMPONENT AND A SECONDARY SWELL COMPONENT. MORE PARTITIONED FIELD COMPONENTS CAN BE ADDED TO THE OUTPUT PARAMETERS.

IF YOU HAVE ANY QUESTIONS...PLEASE CONTACT:

HENDRIK L. TOLMAN
CHIEF...MARINE MODELING BRANCH
NCEP/EMC
PHONE: 301-763-8000 X 7253
EMAIL: HENDRIK.TOLMAN@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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