

NOUS41 KWBC 151624
PNSWSH

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

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER
WIRE SERVICE /NWWS/ SUBSCRIBERS...EMERGENCY MANAGERS
WEATHER INFORMATION NETWORK /EMWIN/ SUBSCRIBERS...
NOAAPORT SUBSCRIBERS...OTHER NATIONAL WEATHER SERVICE
/NWS/ PARTNERS AND OTHER USERS...NWS EMPLOYEES

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

SUBJECT: GREAT LAKES WAVE MODEL IMPLEMENTED...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 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 LETTERS/:

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 3 MINUTES IN LONGITUDE AND
2.1 MINUTES IN LATITUDE. GLWM WILL CONSIST OF 4 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 GRIB2 FORMAT ON AN HOURLY TEMPORAL RESOLUTION AND
WILL INCLUDE THE FOLLOWING FIELDS:

1. WIND SPEED AND DIRECTION
2. WIND VELOCITIES /U AND V/
3. SIGNIFICANT WAVE HEIGHT
4. MEAN WAVE DIRECTION
5. PEAK PERIOD
6. 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 X7253
EMAIL: HENDRIK.TOLMAN@NOAA.GOV

THIS NOTICE AND OTHER TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE ONLINE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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