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Technical Implementation Notice 11-10, Amended
National Weather Service Headquarters Washington DC
937 AM EST Wed Nov 9 2011

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-NOAA Weather Wire Service
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From: Timothy McClung
Chief, Science Plans Branch
Office of Science and Technology

Subject: Amended: Change to Wave Model Products:
Effective November 29, 2011

Amended to reschedule the implementation to Tuesday November 29, 2011. In addition, this change will not affect the output from the hurricane wave model as originally stated. References to the hurricane wave model and associated output files have been removed from this TIN.

Effective on Tuesday, November 29, 2011, beginning with the 1200 Coordinated Universal Time (UTC) run, the National Centers for Environmental Prediction (NCEP) will modify the spectral output grid products from the Multi-grid Global Wave Model.

This model is run using WAVEWATCH-III v3.14. Recent upgrades of the model to v3.14 increased the spectral resolution of the model from a 25x24 spectral domain (frequency and direction) to a 50x36 domain. For backward compatibility, however, the spectral output from the model was kept at 25x24. This upgrade will change the spectral output to match the internal model domain.

The key changes are as follows:

1. The frequency spectrum will now start from 0.035 (instead of 0.0412)
2. The logarithmic increment will now be 1.07 (as opposed to 1.1). i.e., the next frequency will be 7% higher as opposed to 10% higher earlier.
3. There will be 50 frequency components as opposed to the earlier 25 frequency components (with the highest resolved frequency being 0.963 as opposed to 0.406 earlier)
4. There will be 36 directional components as opposed to the

24 directional components earlier. This means that the directional resolution will now be 10 degrees as opposed to 15 degrees earlier

The spectral output files from these models are disseminated via the NCEP server at

<http://www.ftp.ncep.noaa.gov/data/nccf/com/wave/prod/>
and
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/wave/prod/>

The following files will be affected:

akw.txxz.spec_tar
enp.txxz.spec_tar
multi_1.txxz.spec_tar
wna.txxz.spec_tar

where xx is the model cycle.

This change will not affect the non-spectral output files from these models. The spectral products that are changing are not available on NOAAPORT or in AWIPS.

Sample output files reflecting this spectral resolution change are available at:

<ftp://polar.ncep.noaa.gov/pub/waves/devop/>

Details about the NCEP Multi-grid Wave Model are online at:

<http://polar.ncep.noaa.gov/waves/index2.shtml>

For questions regarding these model changes, please contact:

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For questions regarding the dataflow aspects of these data sets, please contact:

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NWS National Technical Implementation Notices are online at:

<http://www.nws.noaa.gov/os/notif.htm>

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