

NOUS41 KWBC 121354 AAA  
PNSWSH

Technical Implementation Notice 15-01 Amended  
National Weather Service Headquarters Washington DC  
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To: Subscribers:  
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-NOAA Weather Wire Service  
-Emergency Managers Weather Information Network  
-NOAAPORT  
Other NWS Partners and NWS Employees

From: Tim McClung  
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Office of Science and Technology

Subject: Amended: The Nearshore Wave Prediction System (NWPS)  
data will be provided over the Satellite Broadcast  
Network (SBN) and NOAAPORT on or about September 1, 2015  
for WFOs MFL and BOX and to the remaining Eastern and  
Southern Region WFOs by September 30, 2015

Amended data activation date to September 1, 2015, for WFOs MFL  
and BOX and for the remaining ER and SR WFOs by September 30,  
2015

Effective on or about Tuesday, September 1, 2015, NWPS data will  
be added to the SBN and NOAAPORT. The NWPS is run 2-4 times per  
day or on demand, depending on the coastal Weather Forecast  
Office (WFO). There are 37 coastal WFOs. Initially, the NWPS will  
be available to WFOs MFL and BOX and then to the 22 coastal  
Eastern and Southern Region WFOs over the month of September  
2015. Over the next 1-2 years, data for the remaining coastal  
WFOs will be available. The 3-hourly grids will be disseminated  
in GRIB2 format. Grid resolutions will be dependent upon  
individual coastal WFO.

The parameters associated with the messages at these resolutions  
are:

Q - Wind Speed  
R - Wind Direction  
Z - Current speed  
Z - Current direction  
Z - Water level  
C - Wave Height  
D - Water Depth  
J - Peak Frequency/Period  
K - Peak Direction  
Z - Wave Length  
Z - Wave height of swell waves

O - Partitioned swell wave height  
Y - Partitioned swell peak period  
P - Partitioned swell mean direction

Data volume will vary depending on the coastal WFO. The average total data volume is approximately 65 MB per cycle, 2 times per day, for each of the 22 coastal WFOs.

CG grids are described as follows:

CG0 grid - partition output on overall computational domain (low-resolution), for a given WFO

CG1 grid - integral output on overall computational grid, for a given WFO

CG2 grid - integral output on first nested grid, where applicable

CG3 grid - integral output on second nested grid, where applicable

CG4 grid - integral output on third nested grid, where applicable

CG5 grid - integral output on fourth nested grid, where applicable

The sizes of the CG0 grid messages are approximately 8 MB per WFO. The total volume (22 coastal WFOs) is 176 MB per cycle, 2 times per day.

The sizes of the CG1 grid messages are approximately 29 MB per WFO. The total volume is 638 MB per cycle, 2 times per day.

The sizes of the CG2 grid messages are approximately 24 MB per WFO. The total volume is 528 MB per cycle, 2 times per day.

The sizes of the CG3 grid messages are approximately 3 MB per WFO. The total volume is 66 MB per cycle, 2 times per day.

The sizes of the CG4 grid messages are approximately 1 MB per WFO. The total volume is 22 per cycle, 2 times per day.

The sizes of the CG5 grid messages are 3 MB per WFO. The total volume is 66 MB per cycle, 2 times per day.

The total volume (22 coastal WFOs) for all resolution files is approximately 1.5 GB per cycle, 2 times per day.

The following summarizes the generic WMO Headers for the NWPS data: T1T2A1A2iiCCCC, where

T1 = E

T2 specifies the parameters (stated above)

A1 = A for CG0 grid; B for CG1 grid; C for CG2 grid; D for CG3 grid; E for CG4 grid, and F for CG5 grid

A2 specifies forecast hours: A = 00, B=03, C=06, D=09, E=12,

F=15, G=18, H=21, I=24 and 27, J=30 and 33, K= 36 and 39, L = 42 and 45, M=48 and 51, X= 54 and 57, N=60 and 63, Y=66 and 69, O =

72, 75, 78 and 81, P=84, 87, 90 and 93, and Q=96

ii = 88 (specifies surface)

CCCC corresponds to K, appended by the three-letter AWIPS code for the generating 22 coastal WFOs:

BRO - Brownsville, Texas  
CRP - Corpus Christi, Texas  
HGX - Houston/Galveston, Texas  
LCH - Lake Charles, Louisiana  
LIX - New Orleans/Baton Rouge, Louisiana  
MOB - Mobile/Pensacola, Alabama/Florida  
TAE - Tallahassee, Florida  
TBW - Tampa Bay, Florida  
MFL - Miami-South Florida, Florida  
KEY - Key West, Florida  
MLB - Melbourne, Florida  
JAX - Jacksonville, Florida  
SJU - San Juan, Puerto Rico  
CAR - Caribou, Maine  
GYX - Gray/Maine, Maine  
BOX - Boston, Massachusetts  
NYC - New York, New York  
PHI - Mt. Holly, New Jersey  
LWX - Baltimore/Washington, Maryland/Virginia  
AKQ - Wakefield, Virginia  
MHX - Morehead City, North Carolina  
ILM - Wilmington, North Carolina  
CHS - Charleston, South Carolina

The NWPS website is located at:

<http://polar.ncep.noaa.gov/waves/nwps/>

For additional information regarding GRIB2 files, visit:

<http://www.nco.ncep.noaa.gov/pmb/docs/grib2/>

For questions pertaining to NWPS data, please contact:

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National Technical Implementation Notices are online at:

<http://www.weather.gov/os/notif.htm>

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