

NAWIPS 6.4.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.4.0
- **Release Date:** 1 June 2011

Introduction

This document contains the release notes for NAWIPS version 6.4.0. The following sections describe the release in detail and provide late-breaking or other information that supplements the main documentation.

This is a minor release with bug fixes, table updates and a few modifications, which are outlined below.

What's New

1. Support for migration to AWIPS2
 - a. Updates to the library were made to support conversion from the legacy VG file format to the AWIPS2 XML-VG file format, and vice versa.
 - b. Updates the functions that allow access to the AWIPS II database for the GEMPAK applications. Removed unneeded functions. Added new functions, tables and header files. Modified many makefiles to accommodate the required list of libraries during the build.
2. Updated the TCA product creation for Pacific Region for situations when a storm crosses from the East Pacific area to the Central Pacific area. The storm needs to continue with an EP designation, but the products need to reference the CP area. Added the ability for the user to override the computed file names.
3. Fixed the display of Redbook and AFOS graphics. Modified the read function to skip the non-Redbook header instead of relying on a hard-coded length value. The display is used for testing the creation of the products.
4. Fixed a bug reported by HPC in GDGRIB2. On 64-bit processors, the parameter name was not found and the application generated an error. Fixed the problem by ensuring that all strings are properly NULL-terminated when passing between Fortran and C.
5. Fixed a bug reported by the Pacific Region where Volcanic Ash International SIGMETs had the wrong lat/lon points.
6. Allow the display of ASCAT Ambiguities 3 and 4. This work was done by Greg McFadden, OPC.
7. Modified the shapefile processing applications and library to work with new shapefiles generated by NWS HQ. Increased the number of keys allowed in the file header. Modified the

keys search function to identify county and marine zone files when processing the combined output files.

8. Added a check for Canadian Ensemble grid analysis times and convert them to 00-hour forecasts.
9. Modified the VGF to Tag and Tag to VGF conversions to change < and > to < and > in the value string.
10. Modified the TCV breakpoint function to split Puerto Rico and the U.S. Virgin Islands into multiple locations. This work was done by Chris Lauer, NHC.
11. Updated TPC2SHP to handle storms that cross 180 degrees longitude. This work was done by Alison Krautkramer, NHC.
12. Add the Great Lakes to the list of states and marine areas in a FROM line for the ARTCC output. This work was done by Larry Hinson, AWC.
13. Maps and Tables
 - a. Updated hurricane breakpoint stations tables for the 2011 season.
 - b. Added two Russian upper air stations.
 - c. Updated information for three Mexican upper air stations.
 - d. Applied regular updates from the NWSHQ for the maps, bounds files and station tables.

List of Modified Tables

- \$GEMTBL/bounds/countybnds.tbl, countybnds.tbl.info
- \$GEMTBL/bounds/mzbnds.tbl, mzbnds.tbl.info
- \$GEMTBL/bounds/mzcntybnds.tbl, mzcntybnds.tbl.info
- \$GEMTBL/bounds/pfzbnds.tbl, pfzbnds.tbl.info
- \$GEMTBL/stns/county.tbl, countynam.tbl
- \$GEMTBL/stns/mzcntys.tbl, marinenames.tbl
- \$GEMTBL/stns/snstns.tbl
- \$GEMTBL/stns/tcabkpt*.tbl
- \$GEMTBL/stns/zones.tbl
- \$GEMTBL/sat/imgtyp.tbl

List of Modified Maps

- \$GEMMAPS/tpcnus.nws, hicnus.nws, mecnus.nws, locnus.nws
- \$GEMMAPS/tpmzcn.nws, himzcn.nws, memzcn.nws, lomzcn.nws
- \$GEMMAPS/tposuo.nws, hiosuo.nws, meosuo.nws, loosuo.nws

Installation Notes

Download Site

The distribution may be found at <http://www.nco.ncep.noaa.gov/sib/nawips>. This Release Notes document is also available at this web site. The link to the download page is located at the bottom of the page. A user id and password are required to access the download area. This will be provided to site administrators via a phone call.

Installation

After getting the necessary compressed tar file from the distribution page, unpack the tar file in your NAWIPS user directory. Please note that the “dot files” have been moved to subdirectories. The sample .cshrc and .profile files are in the sample_files/ subdirectory and show the proper use and locations for these files. Update all users’ .cshrc or .profile as needed.

Build the entire system as follows:

- `cd $GEMPAK/build`
- `external_libs_compile >&! EXTERNAL_BUILD_$NA_OS`
- `cd $NAWIPS`
- `make all >&! MAKE_ALL_$NA_OS`
- `make link >&! MAKE_LINK_$NA_OS`

Repeat this process for each operating system.

System Requirements

The software has been built and tested on the following operating systems:

- Red Hat Enterprise Linux 4 (32 bit)
- Red Hat Enterprise Linux 4 (64 bit)
- Red Hat Enterprise Linux 5 (32 bit)
- Red Hat Enterprise Linux 5 (64 bit)