

NAWIPS 6.5.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.5.0
- **Release Date:** 9 January 2012

Introduction

This document contains the release notes for NAWIPS version 6.5.0. 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.
2. Allow the display of Cryosat data. This work was done by Greg McFadden, OPC.
3. Allow the display of high-resolution OSCAT data. This work was done by Greg McFadden, OPC.
4. Modifications for the Lightning data decoder
 - a. Added functionality to decode binary data directly from the vendor - Vaisala.
 - b. Added the ability to ingest and display ATDNet Lightning data. This work was done by Larry Hinson and Dan Vietor, AWC.
5. Updated the hurricane cone graphic creation to allow the use of "Remnants of" and "Post-Tropical Cyclone". This work was done by Alison Krautkramer, NHC.
6. Updated the location information for the TCV breakpoints. This work was done by Chris Lauer, (formerly of) NHC.
7. Fixed a bug reported by the HPC where GDDIAG would produce a segmentation fault on RHEL 5 when using actual file names instead of model alias names. The problem was traced to an uninitialized variable.
8. Removed unneeded checks on grid size in the functions that add a column to cylindrical grids. This work was done by Keith Brill, HPC.
9. Added local applications from the AWC to the NAWIPS baseline.
10. Fixed a bug reported by the SPC in the application PROB2CAT.

11. Increased the size of a text product that can be displayed by NWX from 150,000 to 250,000 characters.
12. Increased the valid record length for a GEMPAK data file.
13. Updated the SPENES product template based on feedback from NESDIS.
14. Maps and Tables
 - a. Updated the PCCONV table to use the correct input values for the parameter DPRN.
 - b. Updated location information for upper air stations that recently started reporting again. This information was provided by the Jeff Stoudt, NCO/SDM.
 - c. Added the new radar station – LGX, Langley Hill, WA, site #870.
 - d. Updated the Marine MOS station information for NWX.
 - e. Added new radar products for national mosaics and local images.
 - f. Replaced GOES-11 with GOES-15. (This was done when NESDIS performed the actual switch, but is included in this release to baseline the table.)
 - g. Added satellite enhancement tables for GOES-R RGB Airmass and Sounder products.
 - h. 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/bounds/firebnds.tbl, firebnds.tbl.info
- \$GEMTBL/bounds/cwabnds.tbl, cwabnds.tbl.info
- \$GEMTBL/stns/county.tbl, countynam.tbl
- \$GEMTBL/stns/mzcntys.tbl, marinenames.tbl
- \$GEMTBL/stns/firezones.tbl
- \$GEMTBL/stns/zones.tbl
- \$GEMTBL/stns/spcwatch.tbl
- \$GEMTBL/stns/snstns.tbl
- \$GEMTBL/stns/nexrad.tbl
- \$GEMTBL/stns/tcabkpt*.tbl
- \$GEMTBL/sat/imgtyp.tbl
- \$GEMTBL/luts/enhance.tbl, ir_bd.tbl, airmass.tbl, daystrm.tbl, dust.tbl, dymicro.tbl, natural.tbl, ntmicro.tbl, snowfog.tbl
- \$GEMTBL/nwx/marnmos.stn
- \$GEMTBL/parms/pccconv.tbl
- \$GEMTBL/config/datatype.tbl
- \$GEMTBL/config/miscset.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
- \$GEMMAPS/tpznus.nws, hiznus.nws, meznus.nws, loznus.nws
- \$GEMMAPS/tpfzus.nws, hifzus.nws, mefzus.nws, lofzus.nws
- \$GEMMAPS/tpcwa.nws, hicwa.nws, mecwa.nws, locwa.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)