

NAWIPS 6.9.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.9.0
- **Release Date:** 29 April 2013

Introduction

This document contains the release notes for NAWIPS, version 6.9.0. 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.
2. Added new grid diagnostic functions.
 - a. Added checks for various precipitation type accumulations. Similar to P__M and P__I for total precipitation, new parameters were added to correspond to other precipitation types: W=Snowfall; I=Ice Pellets; Z=Freezing Rain; A=Rain; H=Hail; G=Graupel; N=Snow Melt; R=Storm Surface Runoff; L=Total Liquid Equivalent. This work was done by Keith Brill, WPC.
3. The following NHC related changes were made.
 - a. Added smoothing for the Track and Cone for the Tropical Cyclone graphic.
 - b. Added an option to set the type of a storm to Post-Tropical Cyclone for the TCA element and resulting TCV text product.
 - c. Updated the track error tables with the 2013 values.
 - d. Initialized the file pointer when creating a KML output file to avoid a segmentation fault.
4. Added new applications contributed by Greg McFadden, OPC. These applications process lightning data and create strike density grids.
5. Updated the NESDIS NWS Chat information in the SPENES product.
6. Added display of Eddy Dissipation Rate (EDR) Aircraft data. This work was done by Larry Hinson, AWC.
7. Added makefiles for GPANOT_VG and NAGRIB2_NC which are required for AWC pre- and post-production.
8. Added the ability to use mixed case file paths in the GEMPAK RESTORE command.

9. Fixed the spacing of the KX and KY values in GDINFO for the case when either is 4 digits. This work was done by Keith Brill, WPC.
10. Fixed a problem when changing a file from input to output in GDDIAG. This work was done by Keith Brill, WPC.
11. Maps and Tables
 - a. Added updated BUFR parameter tables for the MelBUFR library.
 - b. Applied regular updates from the NWSHQ for the maps, bounds files and station tables.
 - c. Added data type table entries and color enhancement tables for displaying VIIRS related data. This information was provided by the Michael Folmer, OPC.
 - d. Added GEMPAK parameter names in the GRIB2 tables for Gust and Maximum Wind and for parameters related to the Global Ensembles.
 - e. Modified the ID for Vero Beach, FL in the VOR point tables. The ID changed from VRB to TRV.
 - f. Added missing application parameters to the GEMGLB.NTS table.
 - g. Added the Alaska Area of Responsibility to the list of available maps in NMAP2.

List of Modified Tables

- \$GEMTBL/bounds/countybnds.tbl, countybnds.tbl.info
- \$GEMTBL/bounds/cwabnds.tbl, cwabnds.tbl.info
- \$GEMTBL/bounds/firebnds.tbl, firebnds.tbl.info
- \$GEMTBL/bounds/mzbnds.tbl, mzbnds.tbl.info
- \$GEMTBL/bounds/mzcntybnds.tbl, mzcntybnds.tbl.info
- \$GEMTBL/bounds/npsabnds.tbl, npsabnds.tbl.info
- \$GEMTBL/bounds/osmzbnds.tbl, osmzbnds.tbl.info
- \$GEMTBL/bounds/pfzbnds.tbl, pfzbnds.tbl.info
- \$GEMTBL/config/mapfil.tbl
- \$GEMTBL/grid/g2varsncep1.tbl, g2vars.tbl, g2varswmo2.tbl, g2varswmo3.tbl
- \$GEMTBL/hcnadv/altker.tbl, eptker.tbl
- \$GEMTBL/luts/ciralwd.tbl, dnbir.tbl, flseclr.tbl, sal.tbl, trueclr.tbl, uwntur.tbl
- \$GEMTBL/melbufr/B3M-000-*-0, B3M-000-*-A, B3M-000-*-B, B3M-000-*-D
- \$GEMTBL/nmap/mapovl.nmap
- \$GEMTBL/pgen/tcainfo.tbl
- \$GEMTBL/sat/imgtyp.tbl
- \$GEMTBL/stns/countynam.tbl, county.tbl
- \$GEMTBL/stns/firezones.tbl
- \$GEMTBL/stns/mzcntys.tbl, marinenames.tbl
- \$GEMTBL/stns/npsa.tbl
- \$GEMTBL/stns/snap.tbl, vors.tbl

- \$GEMTBL/stns/tcabkpt*.tbl
- \$GEMTBL/stns/zones.tbl

List of Modified Maps

- \$GEMMAPS/tpcnus.nws, hicnus.nws, mecnus.nws, locnus.nws
- \$GEMMAPS/tpcwa.nws, hicwa.nws, mecwa.nws, locwa.nws
- \$GEMMAPS/tpfzus.nws, hifzus.nws, mefzus.nws, lofzus.nws
- \$GEMMAPS/tpmouo.nws, himouo.nws, memouo.nws, lomouo.nws
- \$GEMMAPS/tpmzcn.nws, himzcn.nws, memzcn.nws, lomzcn.nws
- \$GEMMAPS/tpnpsa.nws, hinpsa.nws, menpsa.nws, lonpsa.nws
- \$GEMMAPS/tposuo.nws, hiosuo.nws, meosuo.nws, loosuo.nws
- \$GEMMAPS/tpznus.nws, hiznus.nws, meznus.nws, loznus.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}`
- `cd $GEMPAK/utilities/a2conv`
- `make >&! A2CONV_MAKE_${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 5 (32 bit)
- Red Hat Enterprise Linux 5 (64 bit)

The software has been built and tested on the following operating systems, but has not been verified for operational use:

- Red Hat Enterprise Linux 6 (32 bit)
- Red Hat Enterprise Linux 6 (64 bit)