

NAWIPS 6.0.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.0.0
- **Release Date:** 20 April 2010

Introduction

This document contains the release notes for NAWIPS version 6.0.0. The following sections describe the release in detail and provide late-breaking or other information that supplements the main documentation.

This is a major release with bug fixes, table updates and one main modification which are outlined below.

What's New

1. Support for migration to AWIPS2
 - a. Created a new library to allow the GEMPAK applications to access the AWIPS2 database. These new functions are accessed at the lowest level of data reading and are therefore transparent to the user. There is a sample table – `datatypedb.tbl` – which shows the syntax required to reference the database.
 - b. Library changes were made to support conversion from the legacy VG file format to the AWIPS2 XML-VG file format, and vice versa.
2. Graphical Area Forecast support (GFA)
 - a. Added the ability for the type of smearing algorithm utilized to be selected in the `prefs.tbl`.
 - b. Added an “Add Point” action for all multi-point objects.
 - c. Updated the BUFR output for GFA. Fixed problems with a missing bottom flight level.
3. Fixed SIGBUFR for the AWC Significant Weather charts. Added missing variable initialization and fixed the logic for closing the output files.
4. Tropical product support
 - a. Updated the TPC Cone graphic creation to match the new TCP format.
 - b. Updated the Danger graphic to match the new TCP format.
 - c. Modified the format of the legend on the Cone graphic. Removed the inset box and placed all of the legend information below the map.
 - d. Fixed a bug when canceling an advisory (TCA).
5. Updated the Enhanced Thunderstorm and Fire Weather Outlooks for the SPC.

6. Added the ability to read and display the new NWS 8-bit radar images. The legacy images contain 4-bit data values. The new format has compressed 8-bit data and a number of changes to the context of the header values.
7. Modified the way that PROB2CAT processes line segments which cross the outer boundary of the forecast area.
8. Fixed an error in the wet-bulb temperature grid calculation. The function collects the grids needed for the calculation, but never checked if the grids were actually retrieved before computing the result. The check for missing data was added in this release.
9. Added vertical witness lines to the options in SFGRAM.
10. Added the ability to load a VG file from the command line. See the command line help for NMAP2 by typing "nmap2 -h".
11. Changed the ID for the Oakland FIR from KZOA to KZAK in the SIGMET product creation.
12. Changed the shape of the "B" special symbol. Made an optional NOAA logo which does not have the curved text around the outside edge. The new logo is NOAANOTX.
13. Maps and Tables
 - a. Updated the NMAP2 restore files for the Hysplit (VAFTAD) volcanic ash grid display.
 - b. Updated maps, bounds and station table for the Predictive Service Areas.
 - c. Updated the Eastern Pacific Track Error table for 2010. The values were provided by the TPC.
 - d. Updated maps, bounds and station table for the Public Zones and Fire Zones.
 - e. Updated the locations and elevations for many Canadian stations in the surface station tables.
 - f. Updated the location for Guam (PGUM) in the surface station tables.
 - g. Updated the severe weather watch permanent cluster table.
 - h. Added fire weather grid parameters to the GRIB2 tables.
 - i. Applied the annual NWS updates to the upper air station tables.

Installation Notes

Download Site

The distribution may be found at <http://www.nco.ncep.noaa.gov/sib/nawips>. This Release Notes document is available. 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.

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 (RHEL) 3 (32 bit)
- RHEL 4 (32 bit)
- RHEL 4 (64 bit)
- RHEL 5 (32 bit)