NAWIPS 6.8.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.8.0
- **Release Date:** 7 November 2012

Introduction

This document contains the release notes for NAWIPS, version 6.8.0. 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. RDFS and RDFV are resolution dependent filters for scalar and vector inputs. Both functions are specific applications of the weighted filter, GWFS. This work was done by Keith Brill, HPC.
    b. PVR3 is a 3-dimensional potential vorticity calculation for a level. This was done by Chris Melick, SPC.
    c. NMAX and NMIN find neighborhood maxima and minima given a radius of influence. This was done by Chris Melick, SPC.
3. Aviation-related modifications and additions. All of these were done by Larry Hinson, AWC.
    a. Modified the rendering and placement of text labels for the SIGWX elements for High and Mid Level charts.
    b. Fixed the SIGWX BUFR Encoder to process a jet element that may not contain a flight level.
    c. Fixed the encoding of Tropical Cyclones and Radiation events in the SIGWX BUFR applications.
4. Added OSCAT Ambiguities to the list of scatterometer data. This was done by Greg McFadden, OPC.
5. Added the ability to plot ASCAT data from both the operational source and an experimental source for comparison.

6. Increased the number of times per GEMPAK file to allow the display of the ESTOFS data which is hourly from F00 to F180.
7. Set the value for IJSKIP=NO in the Graph-to-Grid PGEN function. This bug was found by the HPC after using the changes from the previous release which fixed the implementation of IJSKIP.
8. Added a check for the "MTN WAVE" qualifier on turbulence in AIREPS. At the request of the AWC, the modification was done to not apply the MTN WAVE severity to the turbulence.
9. Added the parameter SNEW – new snowfall total – to the available parameters in the METAR decoder.
10. Updated the NESDIS phone number in the SPENES product.
11. Removed the "NNNN" from the NESDIS Volcanic Ash product so that the product may be sent via the NCEP PDS.
12. Restored PROB2CAT to the 6.2.0 version. The SPC reported that recent changes (6.5.0) did not improve the quality of the output and that 6.2.0 was better.
13. Added the utility NDINFO to scan the header of a NIDS-formatted radar image. The utility will display the requested information from the available values in the header.
14. Maps and Tables
    a. Applied regular updates from the NWSHQ for the maps, bounds files and station tables.
    b. Added data type table entries and color enhancement tables for displaying GOES-14 related data. This information was provided by the OPC.
    c. Updated the station number for the Seattle/Tacoma NEXRAD site.
    d. Added a map file for the HPC to indicate the area or responsibility for the Alaska Desk.

List of Modified Tables

- $GEMTBL/luts/testir.tbl, testwv.tbl
- $GEMTBL/bounds/countybnds.tbl, countybnds.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/pfzbnds.tbl, pfzbnds.tbl.info
- $GEMTBL/bounds/cwabnds.tbl, cwabnds.tbl.info
- $GEMTBL/sat/imgtyp.tbl
- $GEMTBL/stns/countynam.tbl, county.tbl
- $GEMTBL/stns/mzcntys.tbl, marinenames.tbl
- $GEMTBL/stns/firezones.tbl
- $GEMTBL/stns/zones.tbl

List of Modified Maps

- $GEMMAPS/tpcnus.nws, hicnus.nws, mecnus.nws, locnus.nws
- $GEMMAPS/tpfzus.nws, hifzus.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/tpcwa.nws, hicwa.nws, mecwa.nws, locwa.nws
- $GEMMAPS/akarea.hpc

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)