NAWIPS 6.1.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.1.0
- **Release Date:** 14 June 2010

Introduction

This document contains the release notes for NAWIPS version 6.1.0. 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 one main modification 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. Modified SIGAVGF for the AWC Significant Weather charts. Added a range check on the flight levels associated with turbulence. If the levels are outside of the range for the particular chart being generated, the value is replaced with "XXX".
3. Tropical product support
    a. Updated the NHC Cone graphic creation based on feedback from the NHC.
4. Finished adding 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.
5. Fixed the shape of the "B" special symbol. The HPC reported a problem with the symbol in the PostScript device driver.
6. Based on preliminary testing of gfortran on RHEL 5, a few modifications were made.
    a. Removed the flag "-fdlines-as-comments" from $FFLAGS
    b. Fixed a variable declaration in itxccf.f. A floating point variable was being used to index an array. This was changed to an integer.
    c. Changed the comment character in all appropriate NDFD source to not use a "D". The character was changed from "D" to "C".
7. Maps and Tables
    a. Added 24 Gulf of Mexico platforms to the surface station table.
    b. Added Panama City, FL (ECP) to the surface station table.

c. Updated the Atlantic Pacific Track Error table for 2010. The values were provided by the NHC.
d. Updated the coastal breakpoint locations for 2010. The updated or new locations were provided by the NHC.
e. Updated the imagery tables to support the new 8-bit radar images.
f. Updated the marine, land and fire zones maps and bounds tables.

List of Modified Tables

- $GEMTBL/stns/sfstns.tbl
- $GEMTBL/rad/nidprd.tbl
- $GEMTBL/sat/imgtyp.tbl
- $GEMTBL/hcnadv/altker.tbl
- $GEMTBL/stns/tcabkpt.tbl, tcabkpt_water.tbl, tcabkptlz.tbl

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