NAWIPS 6.7.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.7.0
- **Release Date:** 27 June 2012

Introduction

This document contains the release notes for NAWIPS, version 6.7.0. 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. Updated the help file for GDFILE to explain how to specify an ensemble member name on a model alias.
3. Aviation-related modifications and additions. All of these were done by Larry Hinson, AWC.
    a. Added a moist adiabatic option to the NMAP cloud height algorithm.
    b. Added ASDI aircraft tracking data to NMAP. This data is presented color-coded the height of the observation or by the age of the data.
    c. Increased the parameter that specifies the number of GAIRM reports in a directory.
    d. Fixed the SIGWX BUFR encoder to correctly encode the Cloud Distribution Code value.
    e. Fixed the SIGWX BUFR encoder to correctly encode the Radiological Hazard type.
4. Increased the array size for the number of Winter Storm reports in a directory.
5. Increased the number of times per GEMPAK file to allow the display of the ESTOFS data which is hourly from F00 to F180.
6. Reduce the value that controls the auto skip feature for grids. The larger value was not allowing grid points to be skipped until the grid was excessively large. The new value will allow some grid point skipping when the user selects a large geographical region and the grid has a large number of points, and the user sets "IJSKIP = YES".
7. Updated the Shapfile converter functions for the new Predictive Service Areas maps.
8. Fixed unpacking of the GRIB2 optional section 2. If Section 2 only had a header, the memory allocation of 0 bytes would fail on AIX.

9. Increased the size of the string that holds all of the times for a model forecast, when restoring from an SPF in NMAP.
10. Maps and Tables
    a. Applied regular updates from the NWSHQ for the maps, bounds files and station tables.
    b. Applied regular updates to the Predictive Service Areas maps, bounds files and station tables.
    c. Added data type table entries and color enhancement tables for displaying GOES-R related data. This information was provided by the OPC.
    d. Added and updated tables to support decoding and displaying ESTOFS grid data. This information was provided by OPC.
    e. Replaced the RUC2 model with the RAP model in the appropriate tables.
    f. Updated the GRIB2 tables for new parameters.

List of Modified Tables

- $GEMTBL/grid/g2varswmo3.tbl, g2vcrdwmo3.tbl, g2varsncep1.tbl
- $GEMTBL/luts/37rgb.tbl, 89rgb.tbl, fogcira.tbl, rainbow.tbl, WVCIMSS.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/npsabnds.tbl, npsabnds.tbl.info
- $GEMTBL/bounds/osmzbnds.tbl, osmzbnds.tbl.info
- $GEMTBL/bounds/pfzbnds.tbl, pfzbnds.tbl.info
- $GEMTBL/config/datatype.tbl
- $GEMTBL/config/miscset.tbl
- $GEMTBL/config/prmlst.tbl
- $GEMTBL/nmap/mapovl.nmap
- $GEMTBL/nmap/mod_res.tbl
- $GEMTBL/nmap/nmap_cldhgt.tbl
- $GEMTBL/nsharp/nsharp_models.tbl, nsharp_pfc.tbl
- $GEMTBL/sat/imgtyp.tbl
- $GEMTBL/stns/countynam.tbl, county.tbl
- $GEMTBL/stns/mzcntys.tbl, marinenames.tbl
- $GEMTBL/stns/firezones.tbl
- $GEMTBL/stns/zones.tbl
- $GEMTBL/stns/npsa.tbl

List of Modified Maps

- $GEMMAPS/tpcnus.nws, hicnus.nws, mecnus.nws, locnus.nws
- $GEMMAPS/tpfzus.nws, hifzus.nws, mecnus.nws, locnus.nws
- $GEMMAPS/tpmouo.nws, himouo.nws, memouo.nws, lomouo.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/tpnpsa.nws, hinpsa.nws, menpsa.nws, lonpsa.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)