NAWIPS 6.2.0 Release Notes

Product Release Information

- **Product:** NAWIPS
- **Release Number:** 6.2.0
- **Release Date:** 28 September 2010

Introduction

This document contains the release notes for NAWIPS version 6.2.0. 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. Added two new applications for use at NCEP/NCO to create output for the AMS DataStreme web site. The applications are variations of the surface and upper air listing applications. SNDSLIST is similar to SNLIST and SFDSL604 is similar to SFL604. Both new applications present the data in a modified format suited to the needs of DataStreme.
2. Modified the WOU decoder – dcwou – to handle products generated at Scott AFB. Scott AFB is the operational backup for the SPC and when they issue the WOU an extra line is added to the product header. The decoder was changed to skip this line when trying to find the date string in the header.
3. Fixed a problem with the SPC application PROB2CAT. The application was not handling certain situations where outlook areas were at the boundary of the area of responsibility.
4. At the request of the SPC, the total number of frames in NMAP2 was increased from 120 to 480.
5. Increased the local arrays in SNTSER to use the global value for the maximum number of times in a file (200) instead of a locally defined value of 100.
6. Modified the functions that convert between the NAWIPS Vector Graphics format and the AWIPS2 XML format. The modifications allow for the conversion of more elements and attributes.
7. Increased the size of the internal arrays for creating the Tropical Cyclone VTEC (TCV) product. The arrays were not large enough to handle the numerous, small segments for Hurricane Earl impacting the Northeast US coastline.
8. Fixed a problem reported by the AWC where the existence of SFC freezing lines was not reflected in the range of levels in the AIRMET product. Modified the application GDFRZL to create a unique range for every run through the process, and then merge all of the ranges at the end.

9. Changed the NHC Cone Graphic to replace the distance scale with a disclaimer about the size of the storm not being related to the cone size. Also modified the legend to show the minutes of the advisory instead of always defaulting to “00”.
10. Fixed the format of the SIGMET products to conform to the ICAO standard. Removed the FIR ID from the second line and removed the phrase “AREA BOUNDED BY” from all SIGMET product types.
11. The following are a set of changes submitted by the AWC and are related to GAIRMET support and creation:
    a. Produce the G-AIRMET flat files necessary to support NMAP2 and GPMAP related displays of the G-AIRMET referenced in proposals (1) New GAIRM 3-Hour Display for NMAP2, and (2) GPMAP Changes required to support 3-hour G-AIRMET snapshots. The decoder is a set of 2 PERL scripts.
    b. Add new NMAP2 MISC/GAIRM display functionality to render the 3-hour snapshot information associated with G-AIRMET forecasts.
    c. A problem was identified with the NMAP2 software crashing when editing VGF files produced by the dcccfpvgf2010 encoder software with Auto-Placement turned on. The solution is to encode the CCF Areas/Lines with a group type number of 8 into the VGF files.
    d. Create a G-AIRMET VGF generator that reads ASCII text files containing Freezing Level and Multi-Freezing Level information derived from AIRMET text and renders them in a G-AIRMET VGF format.
    e. Create an XML to VGF encoder that will read XML documents describing SIGMET hazards, and convert them to VGF files containing GFA SIGMET hazards.
    f. Create an application to read Non-Convective NMAP2 From-Lines for input and produce a listing of the affected States, Great Lakes, Adjacent Coastal Waters, and ARTCC regions.
    g. Fixed a problem with GPMAP filling CCFP line objects as if they were an area object. Initialized the fill flag for all types, and then set it properly for each area object.
12. Added a new ensemble grid diagnostic – ENS_SSUM – to compute the non-weighted sum of the values of a scalar field over a set of ensemble members. This change was submitted by the HPC.
13. Modified the application that generates the NESDIS Satellite Precipitation Estimate product to add a new section to the product template.
14. Added make files for building SNMAP and SNPROF directly with the GIF driver.
15. Fixed a problem with the dropsondes from the new tropical aircraft. The new aircraft have different identifiers that the decoder did not recognize.
16. Fixed the line wrapping for the HPC high resolution surface front product.
17. Added the display of OceanScat data to GPMAP and NMAP2. This addition was submitted by the OPC.
18. Maps and Tables
    a. Fixed the location of Yuma Proving Grounds (K1Y7). The error in location was reported to the SDM by the Phoenix WFO.

b. At the request of the HPC, set Yuma MSAS (KNYL) as a replacement for Yuma Airport (KYUM) for the Daily Weather Map.
c. Added more Gulf of Mexico platforms to the surface station table.
d. Updated the radiosonde station locations based on information from the NWS Upper Air Operations office.

19. Reorganized the version log files to group them by major version number. The old format v5 files have been placed in a V5 directory. The new log files for V6 are output listings from the development subversion repository.

List of Modified Tables

- $GEMTBL/stns/snstns.tbl
- $GEMTBL/stns/snstns_land.tbl
- $GEMTBL/stns/snworld.tbl
- $GEMTBL/stns/stns_ll90.tbl
- $GEMTBL/stns/sfstns.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 4 (32 bit)
- Red Hat Enterprise Linux 4 (64 bit)
- Red Hat Enterprise Linux 5 (32 bit)