



NAWIPS v7.15.1 Release Notes



Application Name: NAWIPS
Application Version: v7.15.1
Release Date: September 30, 2022



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Introduction

NAWIPS v7.15.1 release notes. Highlights of this release:

- Integration of additional compiler and certain other changes required to support the WCOSS supercomputer and RHEL 8 Operating System transition projects into a single source code base..
- Fix two additional WCOSS2 platform-specific bugs affecting MAG.
- Update satellite imagery table with new GOES-18 entries.
- Updates to NAWIPS maps/bounds data tables for zone changes effective September 13, 2022.

This release note covers the following Requests for Change.

RFC NUMBER	RFC DESCRIPTION	Release Date
N/A (no release to local NCWCP Centers anticipated)	NAWIPS v7.15.1 release	September 30, 2022

System Requirements

Operating Systems Supported

The supported operating systems for installing the product are:

- RedHat 6 Linux 64 bit Version 2.6.32-754.3.5
- RedHat 7 Linux 64 bit Version 3.10.0-957.27.2
- RedHat 8 Linux 64 bit Version 4.18.0-348.12.2

System requirements

- Operating system:
 - RHEL 6.10: RedHat Linux 64 bit version 2.6.32-754.15.3.el6.x86_64
 - RHEL 7.6: RedHat Linux 64 bit version 3.10.0-957.21.3.el7.x86_64
 - RHEL 8.5 RedHat Linux 64 bit version 4.18.0-348.12.2.el8_5.x86_64
- Number of physical processors: 1
- RAM: 12G
- Graphics:





- NVIDIA Quadro P1000 4GB video memory, or
- NVIDIA Quadro K2200 4GB video memory
- Hard drive:
 - 256GB SATA SSD drive
- Network:
 - 1Gbps Ethernet

Fixed Issues

NAWIPS 7.15.1	DESCRIPTION
NAWIPS-145	Get healthy of 64-bit RHEL 8, Part A: Software build
NAWIPS-156	Address slow startup of NAWIPS apps, e.g., nmap2, in RHEL 8
NAWIPS-187	Combine code changes required for WCROSS2 and Intel Fortran migration
NAWIPS-207	Update table file \$GEMTBL/sat/imgtyp.tbl for GOES-18 imagery
NAWIPS-208	On WCROSS2, mag_wave_processor job hangs for gfs-wave_wa-or_sig_wv_ht_18_060 (2022-04-22)
NAWIPS-209	MAG ice-drift plots created on WCROSS2 missing station points
NAWIPS-210	Upgrade external library 'zlib' to v1.2.11 (from v1.2.8), for compatibility with RHEL 8
NAWIPS-211	<p>Implement the following SCNs for various map/bounds table updates effective on September 13, 2022:</p> <ul style="list-style-type: none"> ● SCN22-63: Changes to Fire Weather Zones for NWS Weather Forecast Office Albuquerque, NM ● SCN22-62: Changes to Public and Fire Forecast Zones for WFO Northern Indiana ● SCN22-61: Changes to Public Forecast Zones for WFO Great Falls, MT ● SCN22-60: Changes to Public and Fire Weather Forecast Zones for WFO Juneau, AK ● SCN22-59: In Alaska, NWS is Creating a New Petersburg Borough and Changing the Hoonah-Angoon and Prince of Wales-Hyder Census Areas ● SCN22-57: Changes to Marine Forecast Zones for WFO Portland, OR





Remote Centers Deployment Instructions

STEP	ACTION
1	Save a copy of the lightning decoder software and keys to a temporary folder (\$TEMP1 \$TEMP2): cp \$GEMPAK/source/programs/dc/ltgdecode/* \$TEMP1 cp \$OS_BIN/etc/.kf/* \$TEMP2
2	Download the compressed tar file from the distribution site, http://www.nco.ncep.noaa.gov/sdb/nawips/distribution , and unpack the file in an NAWIPS user directory.
3	Copy the lightning decoder keys over: mkdir \$GEMAK/source/programs/dc/ltgdecode cp \$TEMP1/* \$GEMPAK/source/programs/dc/ltgdecode cp \$TEMP2/* \$OS_BIN/etc/.kf
4	Update all users' .cshrc or .profile as needed
5	Build the new NAWIPS system cd \$GEMPAK/build external_libs_compile >&! EXTERNAL_BUILD_\$NA_OS
6	cd \$NAWIPS make all >&! MAKE_ALL_\$NA_OS make link >&! MAKE_LINK_\$NA_OS
7	cd \$GEMPAK/utilities/a2conv make >&! A2CONV_MAKE_\$NA_OS
8	To install NAWIPS onto AWIPS systems, follow the instructions from this link

