NAWIPS v7.15.0
Release Notes

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Introduction

NAWIPS v7.15.0 release notes. Highlights of this release:

- Substantial bug fixes and other issue resolutions.
- Cumulative revisions to NAWIPS data tables to support maps/bounds, surface stations, tropical, and other routine periodic updates.
- Integration of compiler, and certain changes required to support the WCOSS supercomputer and RHEL 8 Operating System transition projects.
- Updates to Volcanic Ash Advisory user interface to support the NESDIS Satellite Analysis Branch.

This release note covers the following Requests for Change.

RFC NUMBER	RFC DESCRIPTION	Release Date
[to be assigned]	NAWIPS v7.15.0 release	May 24, 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 *[but please see v7.15.1 for more RHEL 8 compatibility changes -30 Sep 2022 bh]*

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 7.15.0	DESCRIPTION
NAWIPS-141	Fix missing boundary data when converting SPC's outlooks to NDFD grid
NAWIPS-142	Make more UI updates for Volcanic Ash Advisories
NAWIPS-164	Fix xml <--> vgf converters reported by WPC (done and UAT'd by WPC; just need to make sure updated JAR included)
NAWIPS-170	Vetting the impact of SCN 21-22 (IBW tags added to SVR) to DCWARN decoder
NAWIPS-173	Fix AWC non-convective SIGMETs for Blowing Dust
NAWIPS-175	Update surface METAR, SYNOP and maritime tables
NAWIPS-177	Eliminated duplicated MRMS product IDs in the image type tables
NAWIPS-181	Fix marine zone and CWA mismatch for Garrett and Cecil counties
NAWIPS-183	Resolve Arctic GFS Wave projection problem
NAWIPS-184	Error on UGC coding for Severe Thunderstorm Watch
NAWIPS-185	Implement SCN 21-55 for maps/bounds tables update (HFO fire wx zones) effective July 26, 2021
NAWIPS-186	SPC Watch Products (SEL & WOU-final) Incorrectly Formatted When >8 States
NAWIPS-188	CPC products not showing up in AWIPS with the proper headers
NAWIPS-189	Request to add updated GEMPAK routine dcgbul.c to the system library
NAWIPS-190	Implement SCNs 21-62 & -63 for maps/bounds tables update (HNX & OTX public forecast zones) effective Sept 8, 2021
NAWIPS-191	Request to increase bulletin size limit DCMXBF in GEMPAK bridge library
NAWIPS-192	Vetting the impact of PNS 21-59 (upcoming IBW tags in SQW) to DCWARN decoder
NAWIPS-193	Add Pacific offshore zones to map overlays for NHC
NAWIPS-195	Vetting the impact of SCN 21-56 (flood products reformatting, including

	FFW) to DCWARN decoder
NAWIPS-200	Implement the following SCNs for various map/bounds table updates effective on March 22, 2022: • **SCN22-15**: Updated: Changes to Atlantic Offshore Forecast Zones for the Tropical Analysis and Forecast Branch of the National Hurricane Center • **SCN22-14**: Reconfiguration of Fire Weather Zones by WFO Spokane, WA and WFO Pendleton, OR • **SCN22-13**: Reconfiguration of Public and Fire Weather Forecast Zones by WFO San Francisco Bay Area, CA • **SCN22-12**: Changes in Fire and Public Forecast Zones for NWS Weather Forecast Office Melbourne, FL, for Volusia, Brevard, Indian River, Saint Lucie, and Martin Counties in Florida • **SCN22-11**: Changes to Public and Fire Forecast Zones for NWS Weather Forecast Office Little Rock, AR • **SCN22-10**: Changes to Public and Fire Weather Forecast Zones for Weather Forecast Office Los Angeles/Oxnard, CA • **SCN22-09**: Changes to Public and Fire Weather Zones for NWS Weather Forecast Office New Orleans/Baton Rouge, LA • **SCN22-08**: Changes to Fire Forecast Zones for WFO Gray, ME • **SCN22-07**: Changes to Public and Marine Forecast Zones • **SCN22-06**: Changes to Public and Fire Forecast Zones for Weather Forecast Office Greenville-Spartanburg, SC • **SCN22-05**: Changes to the Boundaries of Fire Weather Forecast Zones in Southeast Wyoming (WY) Served by NWS Weather Forecast Office (WFO) Cheyenne, Wyoming (CYS), and West Nebraska Panhandle (NE) • **SCN22-04**: Changes to Marine Zones for NWS Weather Forecast Office Corpus Christi, TX • **SCN22-03**: Changes to Public Forecast Zones for NWS Burlington, VT • **SCN22-02**: Implementing Improved Public and Fire Weather Forecast Zone Coverage for WFO Brownsville/Rio Grande Valley, TX • **SCN22-01**: Changes to Fire Forecast Zones for WFO Burlington, VT, and WFO Albany, NY • **SCN21-104**: Deletion of Valdez-Cordova Census Area and Federal Information Processing Standards (FIPS) Code and Addition of Chugach Census Area and Copper River Census Area with New FIPS Codes • **SCN21-103**: Changes to Marine Zones for WFOs Anchorage and Fairbanks

	• **SCN21-102**: Changes in NWS Public Zones, Fire Weather Zones and County Warning Area and Hydrologic Service Area Boundaries [for all 3 Alaska WFOs – Anchorage/AFC, Fairbanks/AFG, Juneau/AJK]
NAWIPS-203	Update hurricane breakpoints for 2022 season
NAWIPS-204	Update hurricane cone radii for 2022 season

Release Schedules

DATE	ACTION / TIME

5/17/22	Release to NCWCP Local Centers
	        WPC (workstation): 10-12Z
	        OPC: 11-13Z
	        SDM/Data Flow: 14-16Z (DF may validate the upgrade after 17Z)
	        SAB/NESDIS: 14-16Z
	
	Release to Remote Centers, via:
	        http://www.nco.ncep.noaa.gov/sdb/nawips/distribution

5/24/22	WPC (compute farm): 10-12Z SAB/NESDIS: 14-16Z CPC: 19-21Z

NCWCP Workstation Deployment Instructions

STEP	ACTION
1	ssh nawips1@vm-lnx-ncosrv
2	cd .operations
3	vi *_<center> (e.g., opc) <Change the files to source the appropriate account> (i.e., nawips1)

NCWCP Compute Farm Deployment Instructions

STEP	ACTION
1	ssh nawcf1@vm-lnx-sibcf8
2	cd .operations
3	vi *_<center> (e.g., opc) <Change the files to source v7.15.0 >

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 lighting 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](#)	