Scope

The release includes the following changes:

- Table updates for new and missing surface observation stations
- Fix and other updates requested by AWC for SIGWX issue resolutions
- Change to Volcanic Ash Advisory wording requested by SAB
- Migration of development and test activities to new unified compute environment in order to improve reliability and efficiency

Tickets

The following tickets are included in this version:

1. NAWIPS-238 Update surface observation tables with new stations added:
   a. METAR - 179 (83 missing Canadian stations reported by WPC + 96 new reported by Unidata/UCAR)
   b. SYNOP - 126
   c. BUOY - 22
   d. CMAN - 21
2. NAWIPS-241 Change text in Volcanic Ash Advisory (VAA) products from "SUMMIT ELEV" to "SOURCE ELEV" (SAB)
3. NAWIPS-245 Migrate NAWIPS Development, Test, and Release activity from Old to New Compute Farm
4. NAWIPS-249 Incorporate N-AWIPS Software Updates for Support of Automated SIGWX Products 2024 (AWC)
5. NAWIPS-250 Configure LDM server on New Compute Farm
6. NAWIPS-251 Increase limit of 30 names in $GEMTBL/config/forecasters.tbl (SPC)
7. NAWIPS-254 Update to the bufrprefs.tbl for SIGWX BUFR Generation (AWC)

Note: There are no updates to forecast zone boundaries since the v7.18.0 release earlier this year, so the related maps and bounds files are still current.

Known Issues, Limitations, and Restrictions

N/A

System Requirements

Operating Systems Supported
- 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 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

* NOTE: This is the final RedHat 7 Linux supported version. All future releases will require RHEL 8.

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