



Scope

The release includes the following changes:

- Fix bug (race condition) in lightning decoder leading to spurious and/or mislocated lightning flashes appearing near the equator and prime meridian.

Tickets

The following tickets are included in this version:

1. NAWIPS-259 - OPC reports spurious lightning strikes being shown along equator and prime meridian

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: Starting with release v7.20.0, RHEL 8 will be required.

Remote Centers Deployment Instructions

STEP	ACTION
0	Obtain an updated copy of the lightning decoder source code separately, by requesting a Secure File Transfer from SDB. (The only bug fix in v7.19.1 is in one of these restricted-distribution source files.)
1	Save a copy of the lightning decoder software and keys to a temporary folder (\$TEMP1 \$TEMP2): cp \$GEMPAK/source/programs/dc/lgtdecode/* \$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 \$GEMPAK/source/programs/dc/lgtdecode cp \$TEMP1/* \$GEMPAK/source/programs/dc/lgtdecode 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