



Thunderstorm Lightning Tracking Software LTS2005



In discharge display mode, the individual lightning locations are shown as + or - for identifying positive or negative polarity and are color coded in time intervals. The marker size can be adjusted to represent the event's amplitude in kiloamps (kA).

Features

- Live looping with new lightning locations updated during each loop
- E-mail warnings and all clears
- Create multiple warning areas of any size or shape
- Displays stroke or flash cloud-to-ground lightning data
- Displays cloud data where available
- Forecasted cell locations shown in cell display mode
- Audible, visual, and e-mail warnings when alarm conditions are met
- Return to normal state and all-clear e-mail sent when alarm conditions expire

Vaisala Thunderstorm Lightning Tracking Software LTS2005 displays real-time lightning in easy-to-use formats for monitoring thunderstorm cell development, assessing severity, and forecasting storm path and intensity. LTS2005 issues audible, visual and e-mail warnings and all clears.

Benefits

- Customization of map layers
- Query individual lightning events
- Import map files compatible with MapInfo®
- Easily define and modify areas
- Create .avi files for review of historic lightning
- Password protected system settings
- Optional ASCII output for use in other programs
- Optional automatic image capture/save
- Ability to use corporate logo

Nowcasting and Warning Applications

LTS2005 is designed for operations responsible for accurate forecasting and nowcasting over large areas ranging from several hundred to thousands of square kilometers:

- Meteorological and hydrometeorological agencies
- Air traffic management
- Electric power companies
- Forestry and land management agencies
- International airports
- Telecommunications networks
- Defense

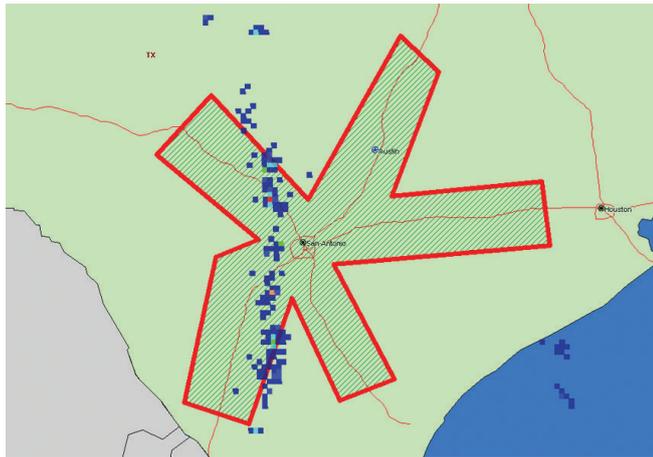
LTS2005 is also appropriate for smaller operations focused on lightning risk management.

Easy-to-interpret display modes, system settings, warning area definitions, and online help files can be handled by operators who are not trained as meteorologists.

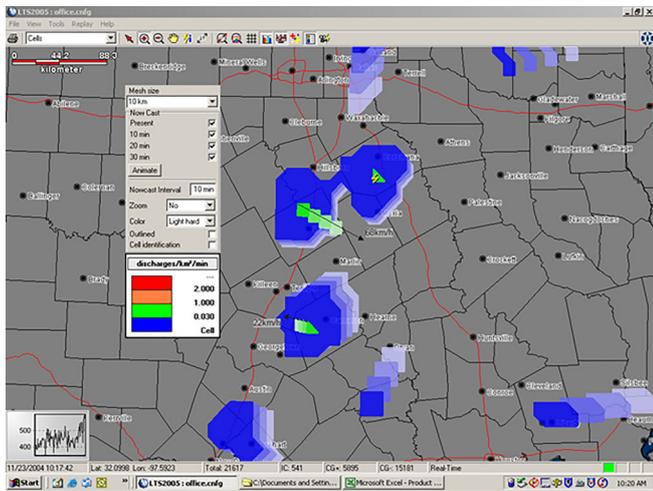
Technical Data

System Configuration

Operating system	Windows® 7 Windows® 10
Communications interfaces	TCP/IP
Satellite receiver with term server	
Contact your Vaisala Sales Representative for recommended system configurations along with turnkey installations that include workstations, communications, and data services.	



In density display mode, storm intensity can be assessed by mapping the lightning density. Warning areas can be created in any size or shape.



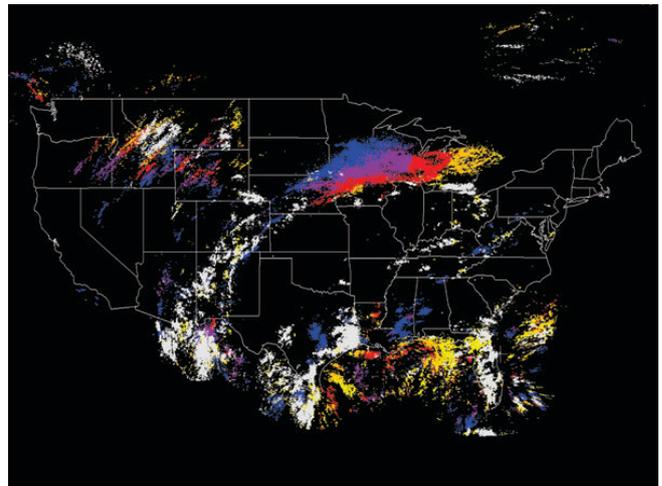
In cell display mode, LTS2005 estimates the contours of cells based on lightning activity. The forecasted locations of the cells can be shown for continuous assessment.

Lightning Data Source

- U.S. National Lightning Detection Network®
- Canadian Lightning Detection Network
- Global Lightning Dataset GLD360
- Or from any lightning detection network that uses Vaisala Thunderstorm Total Lightning Processor and preceding central processors CP8000 or CP7000LP (IMPACT) and CPS (SAFIR)

Support Services

Training and technical support services are available for maintaining optimal software and systems performance. Contact your Vaisala Sales Representative for service agreement information.



Cloud-to-ground lightning data from Vaisala U.S. National Lightning Detection Network® is used by weather forecasters and operations managers to closely monitor thunderstorm development, strength, and paths for more accurate severe weather forecasting and for issuing warnings. Since 1989, the NLDN has reported more than 300 million lightning discharges (cloud-to-ground and cloud-to-cloud) that occur every year, creating a comprehensive archive of lightning data used for statistical and forensic analysis.

