



StrikeNet lightning search area, 15 mile radius around central Hartsville, Tennessee, from midnight CST July 6 to midnight July 7, 2001. No lightning detected in that 24 hour period. Map provided by LightningStorm.com and Global Atmospheric, Inc.

StrikeNet Report 5232 Redo of 5231

Reference: Hartsville TN July 6 2001

Start Time 07/06/2001 00:00:00 CDT

End Time 07/07/2001 00:00:00 CDT

Center Latitude 36.3889

Center Longitude -86.1642

Location 165 Marlene Hartsville TN 37074

Search Radius 15.00 mi

Finding: Lightning WAS NOT detected within the search area and time span.

NLDN says that the accuracy of its data since 1998 for detecting the presence or absence of lightning in a five-mile search radius is 99.03%. "There is a less than 1% chance that the network might miss a storm. By recording eight to nine out of every ten cloud-to-ground lightning flashes, the NLDN achieves high storm detection efficiency. ... A zero strike report is issued only when LightningStorm.com can conclusively state no lightning was detected."

Can lightning cause damage without directly striking the location of loss?

NLDN says yes. "Due to the intense power of a lightning strike, currents can be carried hundreds or thousands of yards, depending on the conducting surfaces. Electric utility, telephone and plumbing lines are widely recognized conductors for carrying surges into facilities.

Controversy:

Professor Michael Kelley, Atmospheric Physicist and Engineer at Cornell University, insists there is a rare phenomenon of "clear sky lightning." However, Nancy Roth, Marketing Supervisor at Global Atmospheric in Tucson, Arizona e-mailed me the following comment:

7/25/01 E-mail: "FYI, there is no such thing as a 'clear sky lightning strike.' Lightning can only be generated in clouds, specifically, clouds with hail (or soft hail) in them. Lightning can travel horizontally 10 miles or more from

its cloud origin to strike the ground, so clouds may not be overhead, but they should certainly be visible. Lightning traveling more than 10 miles would be unusual, but possible."

Website:

<http://www.lightningstorm.com/lightningstorm/products/analysis/faq.jsp>

Credits

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