



The Weather Network Commercial Services (TWNCS) provides complete weather solutions for a variety of industries including **Transportation, Energy, Natural Resources, Public Safety, Insurance** and **Special Events**. We offer our clients all the resources of Canada's largest private sector meteorological team, leading edge atmospheric visualization and forecasting tools and the ability to deliver the weather story independent of medium.

TWNCS continues to be a leader in bringing **best-in-class** weather solutions to market. We invest heavily each year in developing our technical and meteorological tools to better interpret, analyze and present weather data to our customers. Over the last 20-years TWNCS has a proven track record of providing weather solutions by offering:

- Precision weather forecasting
- Services and products tailored to our clients specific weather sensitivities
- 24/7/365 meteorological and support
- Consultative advice and training

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Lightning Archive Services

Validate past lightning strikes with pinpoint accuracy

The Pelmorex Lightning Detection Network (PLDN) is the only Canadian owned and operated lightning detection network. It has been in operation since 2007 and now consists of 71 sensors located across Canada and the northern United States. The PLDN's state-of-the-art Precision Lightning Sensor (PLS) technology utilizes the timing precision of GPS technology and super-refined triangulation techniques to accurately pinpoint the location of lightning strikes across Canada. This results in a lower false strike rate and increased confidence in strike location relative to important assets.

The lightning stroke data collected by the PLDN has been archived since 2007 and can now be accessed to assist in the validation of past lightning events. Energy companies and other organizations can confirm lightning as the likely cause of past outages or asset damage. Clients with large area physical plants such as electrical distributors can use lightning climatology for system planning purposes. The insurance industry, as well as government and investigative agencies can validate claims. Fire marshals and forestry management services can corroborate the potential cause of fires.

The lightning archive data is available in multiple formats including: CSV, Shapefiles and KML files. The data can be accessed on a daily, weekly or monthly basis.

The data provided for each individual lightning strike includes:

- Date and Time
- Latitude/Longitude
- Polarity (Positive/Negative)
- Amplitude (strike strength measured in ampere's)
- Type (Cloud-to-Cloud/Cloud-to-Ground)

The PLDN provides data for all of Canada year around. Strike location is accurate within +/- 250 metres across the country 18 times out of 20.

Additionally, consultation services are available to assist in interpreting the archive data, provide corroborative storm event analyses and general report preparation.