

Overview

PULSERADSM SOLUTION



A WEATHER VISUALIZATION AND NOWCASTING SYSTEM BASED ON TOTAL LIGHTNING DETECTION

Radar is an invaluable tool in weather forecasting, alerting and research; however, gaps in coverage exist due to geographic limitations of the technology.

Forget what you've heard about radar. No matter how remote your locations are, our PulseRad radar alternative will find you and give you an interactive map of convective weather. We're changing up the radar game, especially for areas of the world that lack the financial and technical resources to deploy, operate and maintain traditional radar.

BENEFITS



Low cost solution for developing countries with growing economies that lack the infrastructure to maintain traditional radar

EARTH NETWORKS⁻

KEY FEATURES

- Earth Networks Total Lightning Network[®] (ENTLN)
- Interactive Storm Map
- Dangerous Storm Indicator
- Flood and Drought Assessment
- Flexible System Design

RADAR ALTERNATIVE FOR THE MOST REMOTE AREAS

PulseRad is the first practical radar alternative capable of coverage on a national and continental scale. The system generates imagery that is comparable to radar and updates up to four times faster than traditional radar. With its extended range, PulseRad provides enhanced coverage over areas that radar may not capture, such as mountainous and oceanic regions.



EARTH NETWORKS TOTAL LIGHTNING NETWORK®

- World's largest lightning network
- Comprehensive measurement of both in-cloud (IC) and cloud-to-ground (CG) lightning
- Establishes accurate correlation between lightning activity and radar reflectivity

INTERACTIVE STORM MAPS

- Proxy radar maps showing convective weather
- Adjustable algorithms to global climate zones (mountains, tropical, subtropical) within a forecast area

DANGEROUS STORM INDICATOR

- Highlights the potential for dangerous storms that may contain damaging winds, large hail, increased lightning and tornadoes
- Available in places where traditional radar coverage is limited or non-existent

FLOOD AND DROUGHT ASSESSMENT INDICATOR

- Real-time monitoring for potential flooding and drought
- Visual indicator of storm motion, potential flooding and drought
- Provides a complete picture of rainfall rates and accumulated precipitation

FLEXIBLE SYSTEM DESIGN

- Leverages easily configurable lightning sensors scalable to any geography to provide gap-filling
- Extended range coverage
- Offers reduced operational complexity and low life cycle cost

CONNECT WITH US

For more than 20 years Earth Networks has operated the world's largest and most comprehensive weather observation, lightning detection, and climate networks.

Our observations inform and alert consumers, enterprises and governments around the world, providing them with advanced environmental intelligence for decision making and safety.

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