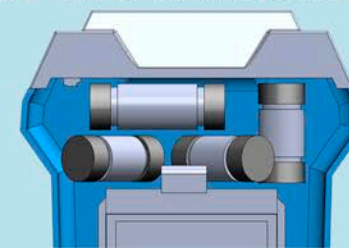


- All current storm detection technology simply averages out the radiated fields over the entire ionization channel and assumes  $\sin \theta = 1$ .
- This produces large average errors (8-15 miles) in location plots.
- Large horizontal channels (cloud to cloud) are missed completely.

**ACTUAL LENGTH OF LIGHTNING IONIZATION CHANNEL IS 6-10 MILES**

NIMBUS™ UNIFORM 4-CHANNEL ANTENNA ARRAY PROVIDES A COMPLETE VIEW OF RADIATION FIELD

- Simultaneous data from 4-channels is necessary to accurately “see” the actual lightning channel.
- Full waveform detection detects polarity and direction.
- Without detecting the direction of the stroke, true signal strength is unknown.



4 Antenna Array

**Tornado and pre-tornado conditions require detection accuracy of less than 1 mile and the ability to see signals much weaker than normal lightning signals.**

Entropy develops technology and products to detect lightning, severe weather and tornado conditions that provide a premium level of data to users and applications that are presently difficult or impossible to harvest from standard weather information sources. When fully developed, the company's NIMBUS™ technology will be integral to the drone industry, will detect seismic events and act as a warning system and automatic disconnect before power surges.

GET YOURS BEFORE THE STORM™

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