

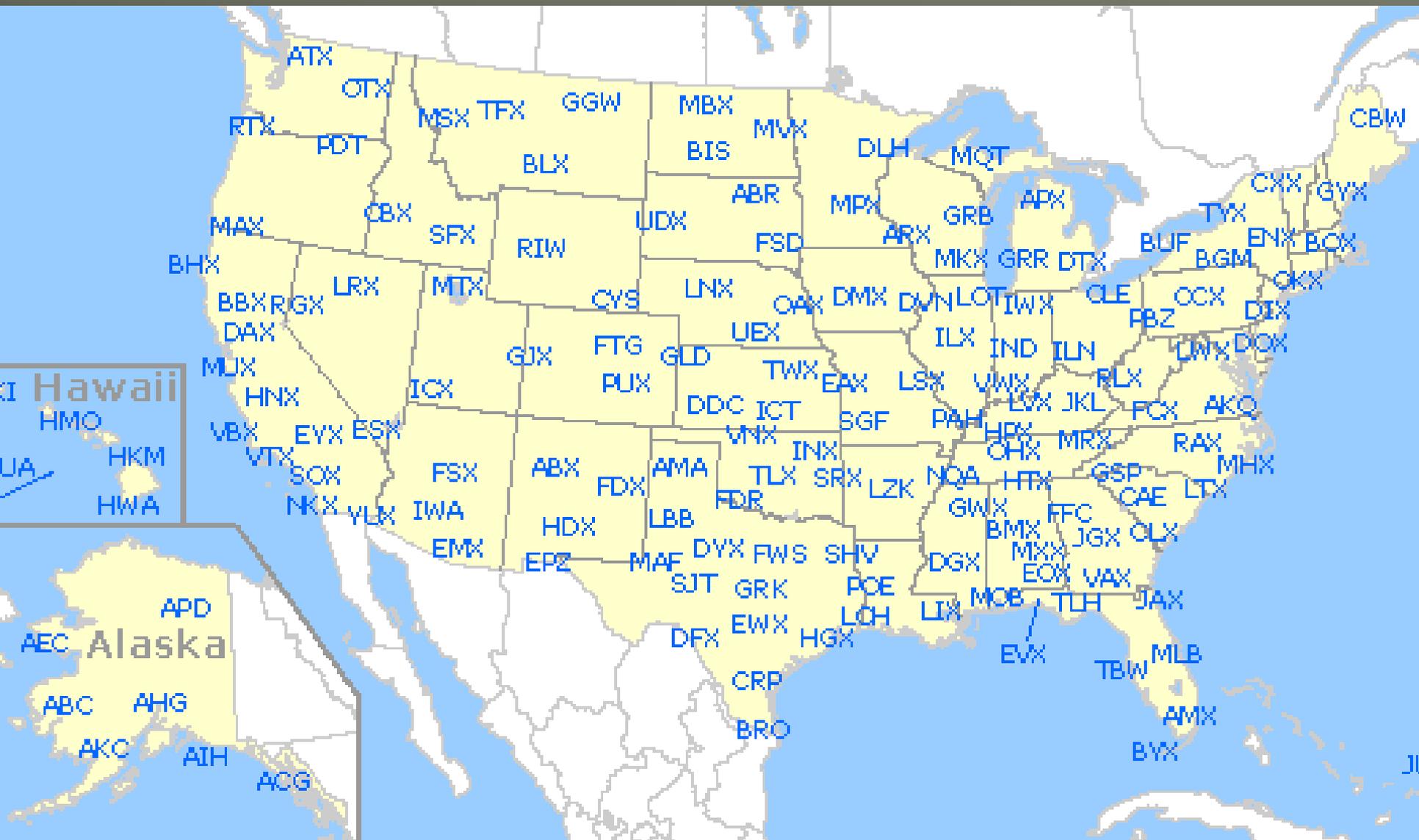
# The Miracle of AIRBORNE NEXRAD RADAR

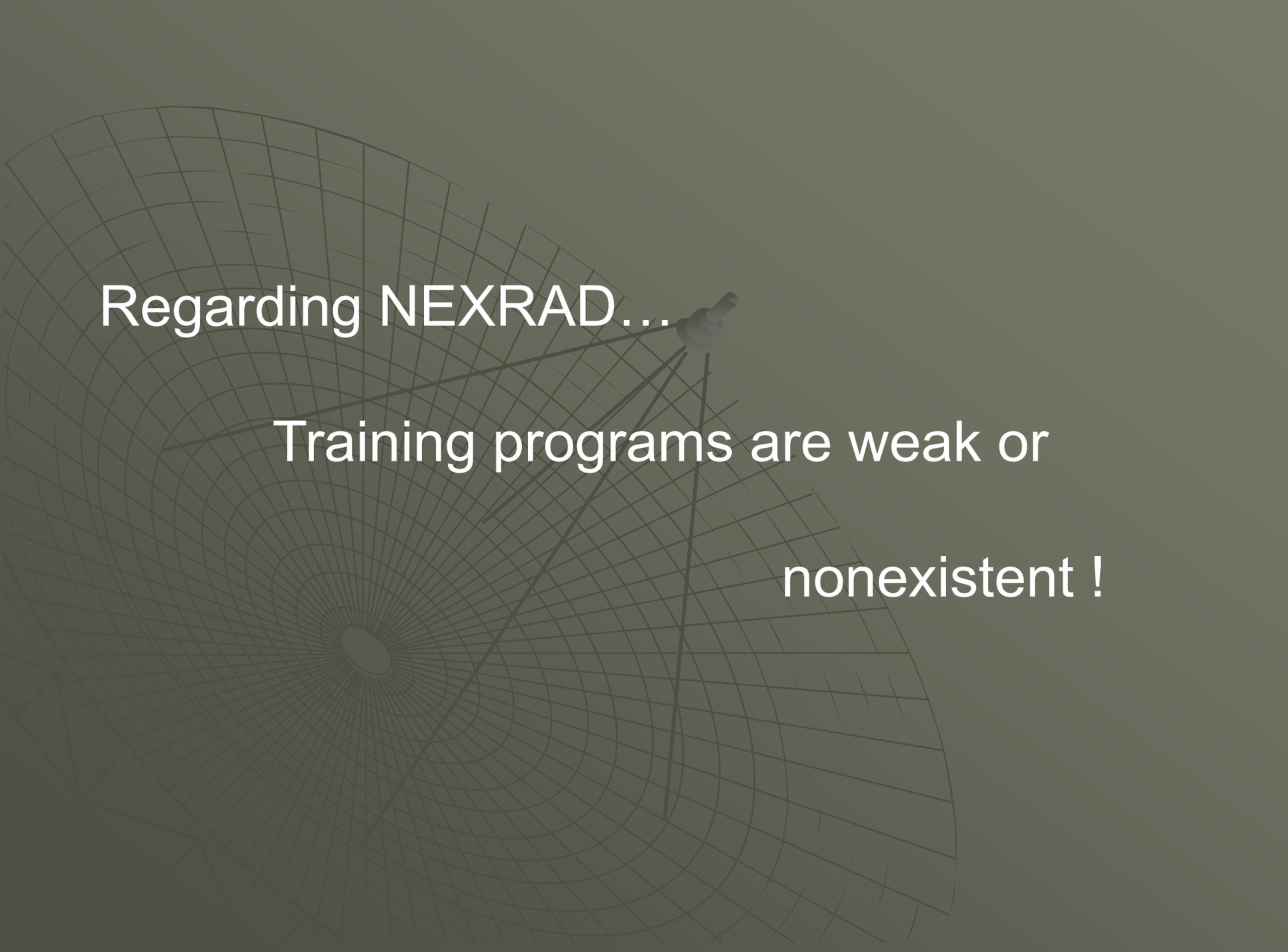
David A. Strahle, MD CFI-AI

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**0.9 DEGREE BEAM WIDTH**

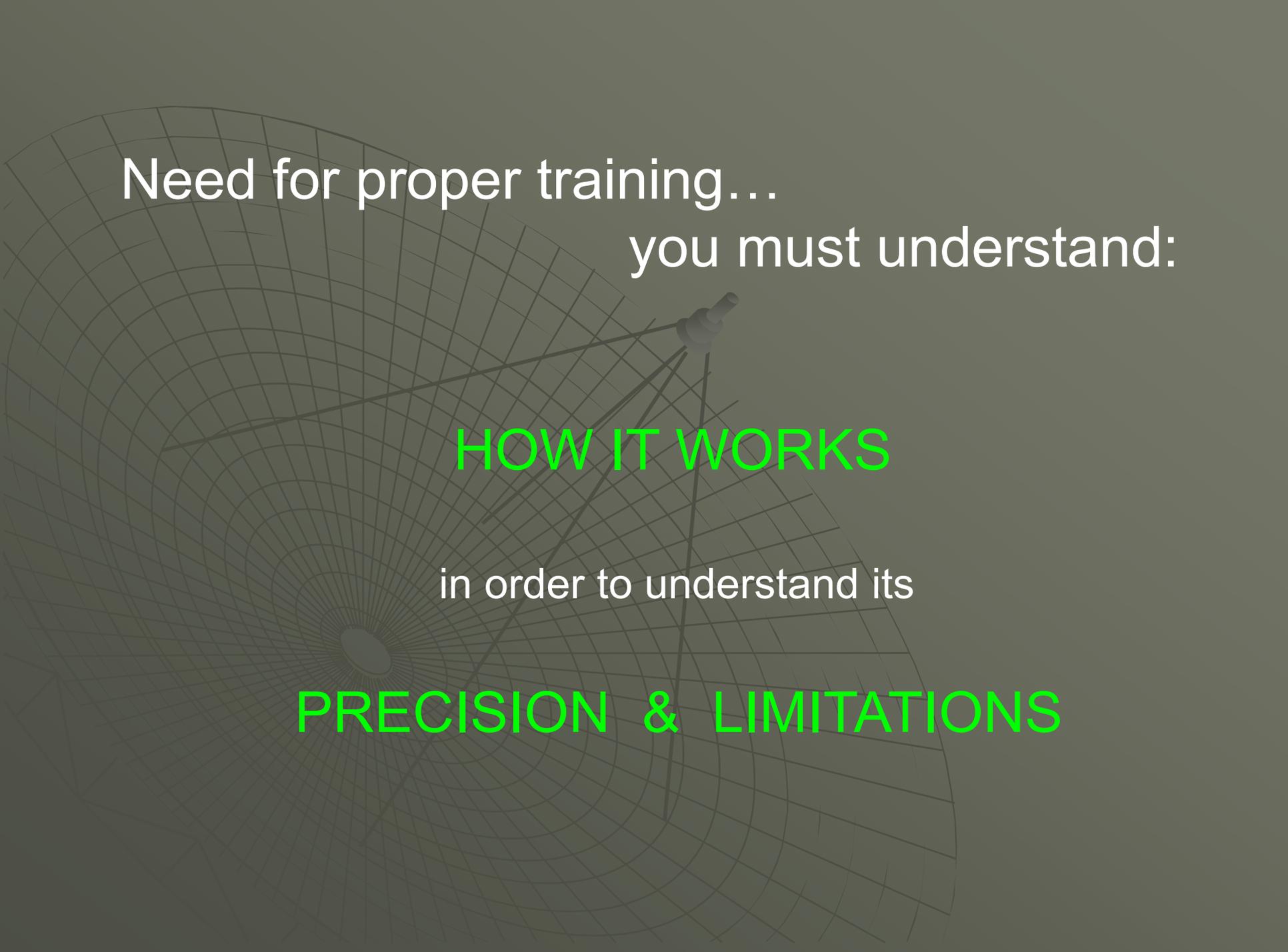




Regarding NEXRAD...

Training programs are weak or

nonexistent !



Need for proper training...

you must understand:

HOW IT WORKS

in order to understand its

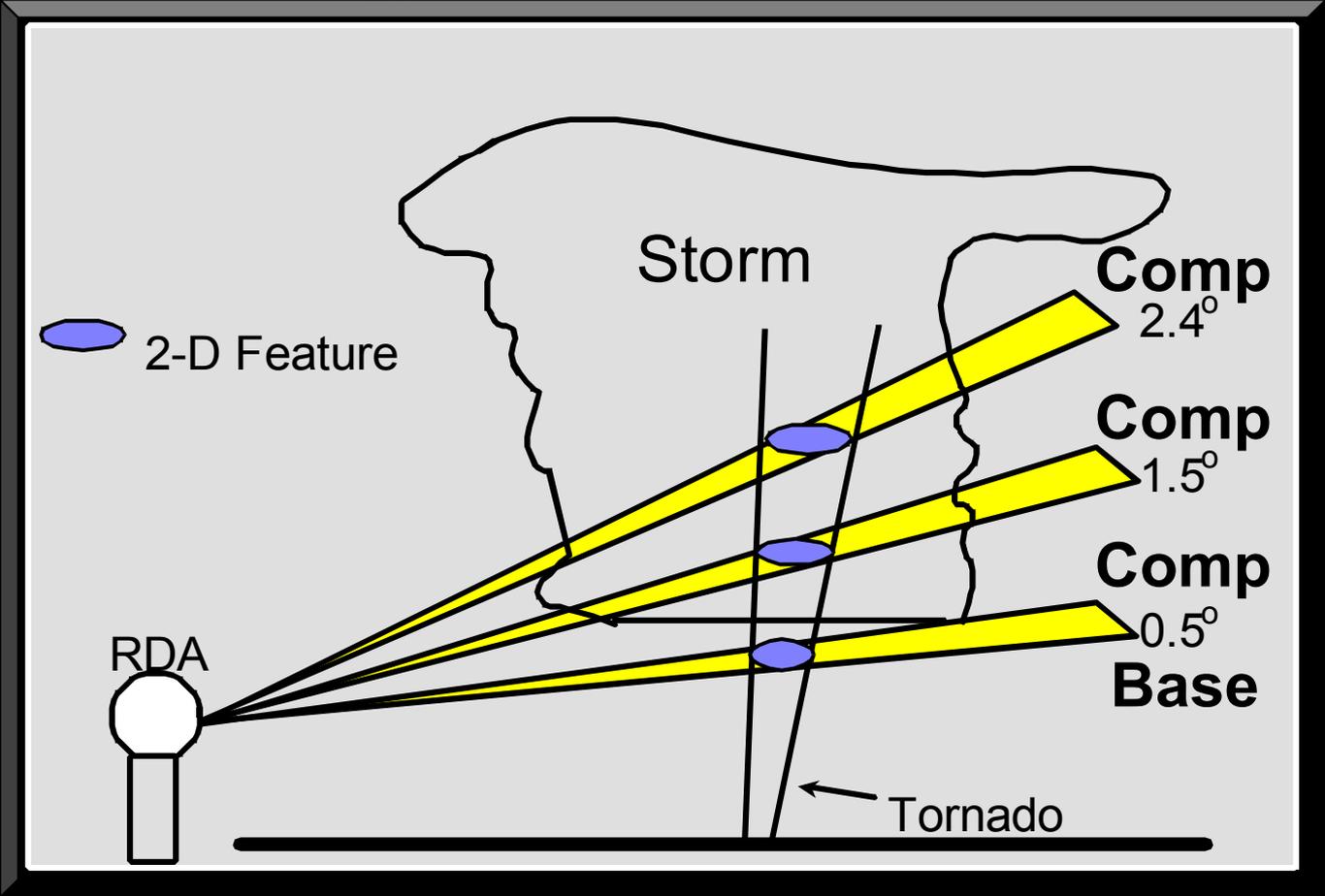
PRECISION & LIMITATIONS



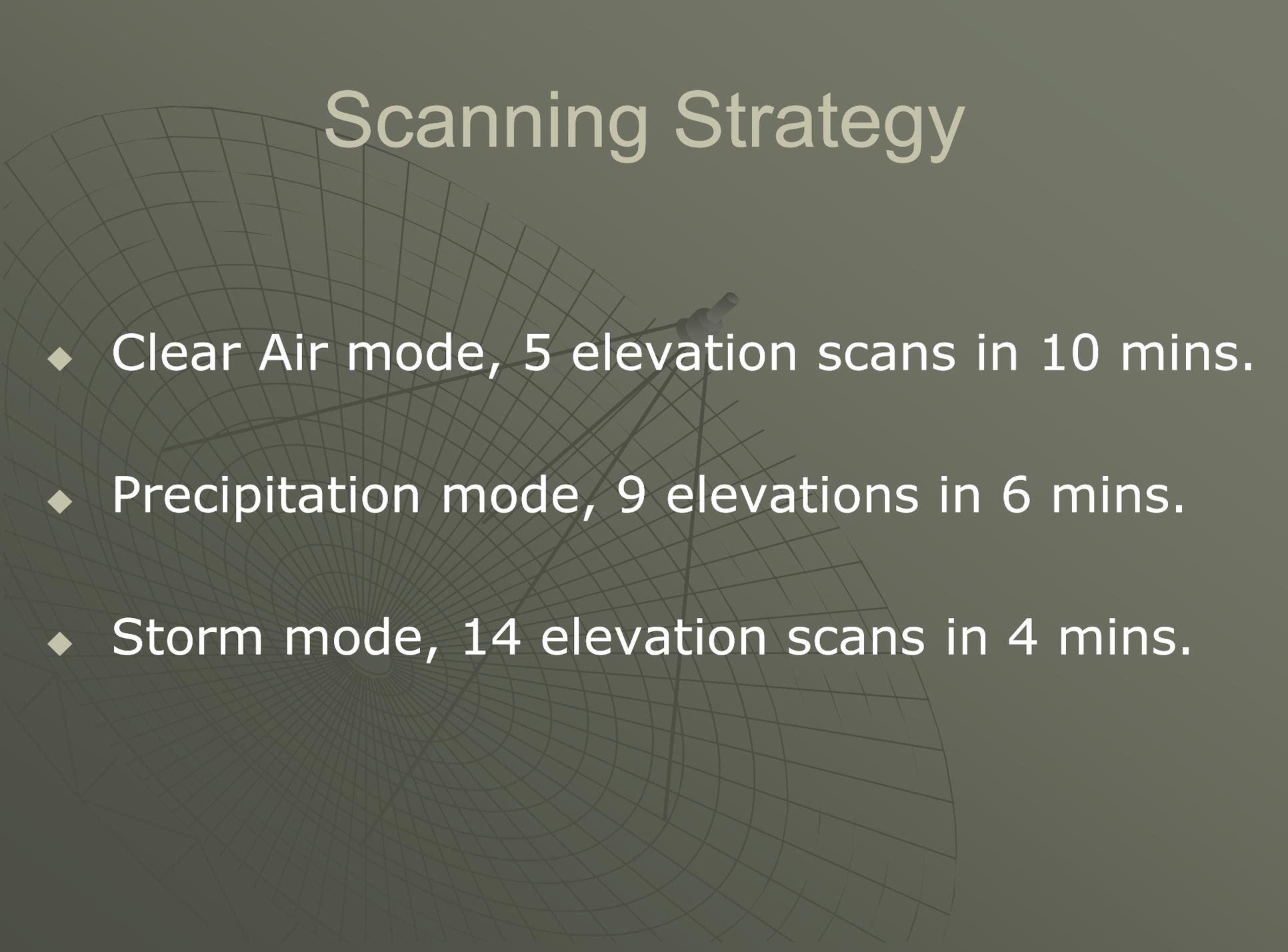
**BASE reflective images would  
NOT work...**

**COMPOSITE radar images were  
required.**

**Lightning Detection Equipment**



# Scanning Strategy

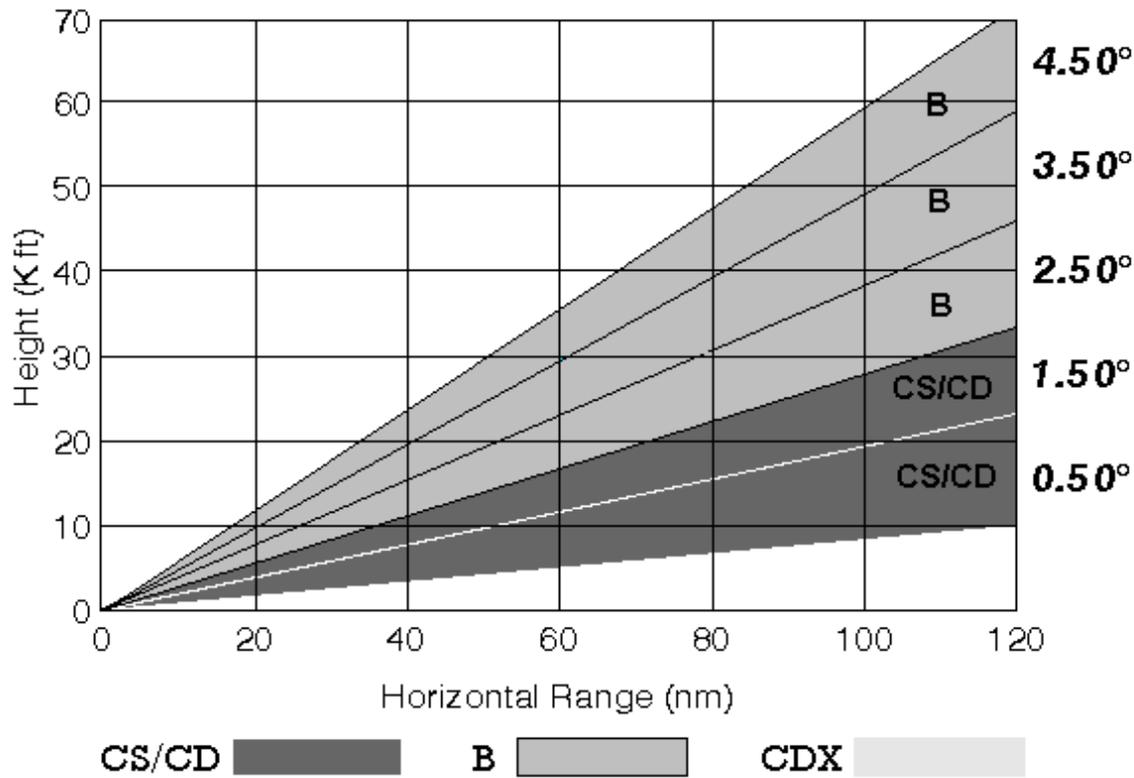


- ◆ Clear Air mode, 5 elevation scans in 10 mins.
- ◆ Precipitation mode, 9 elevations in 6 mins.
- ◆ Storm mode, 14 elevation scans in 4 mins.

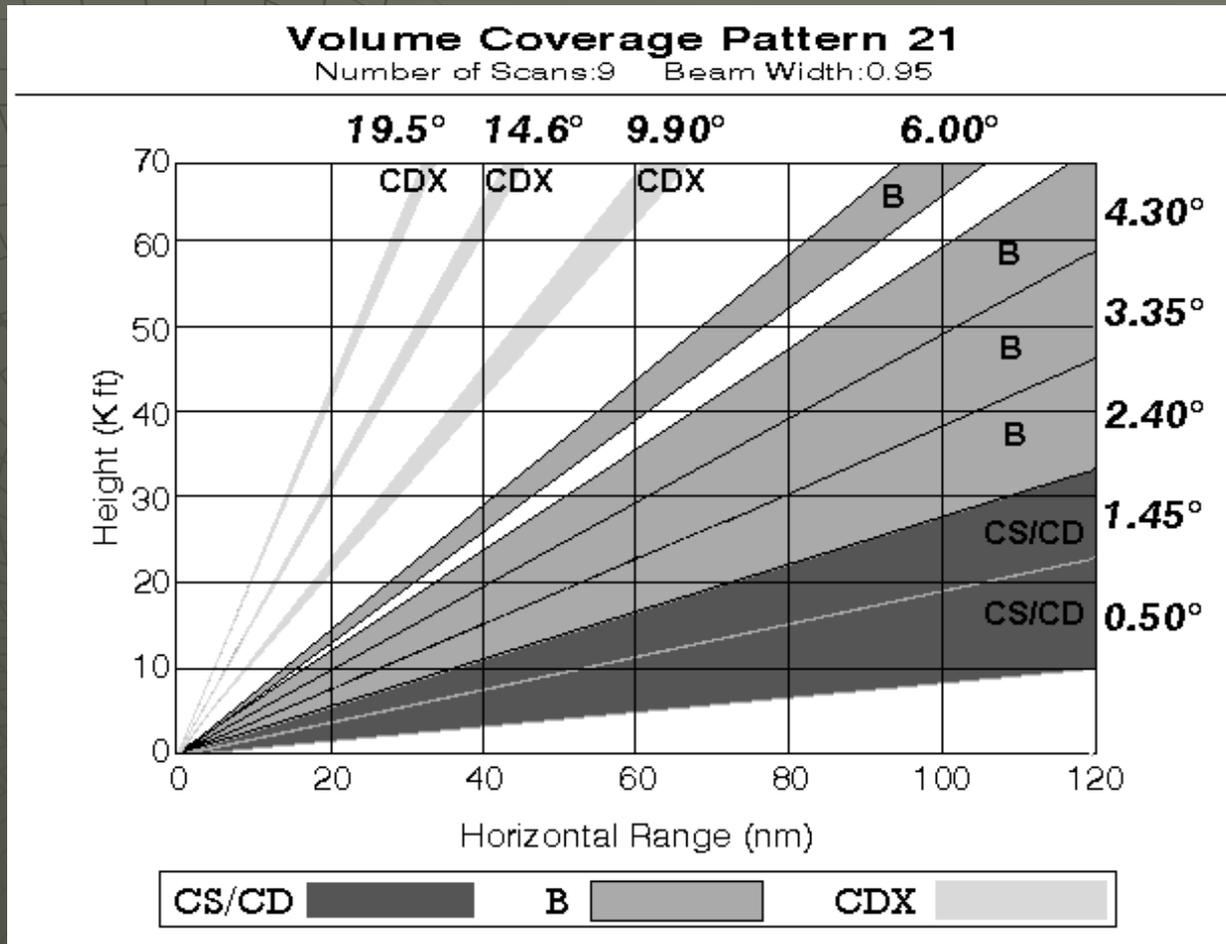
# Scanning Strategy Clear Air Mode

## Volume Coverage Pattern 32

Number of Scans:5 Beam Width:0.95



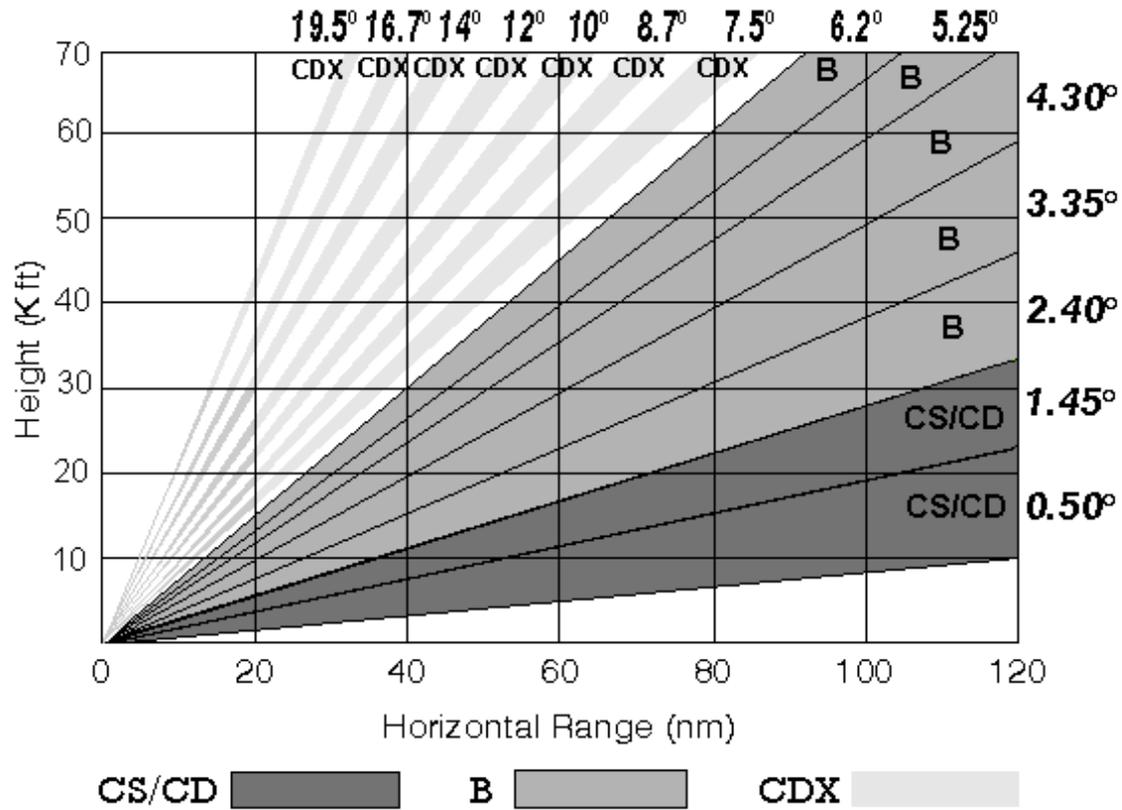
# Scanning Strategy Precipitation Mode

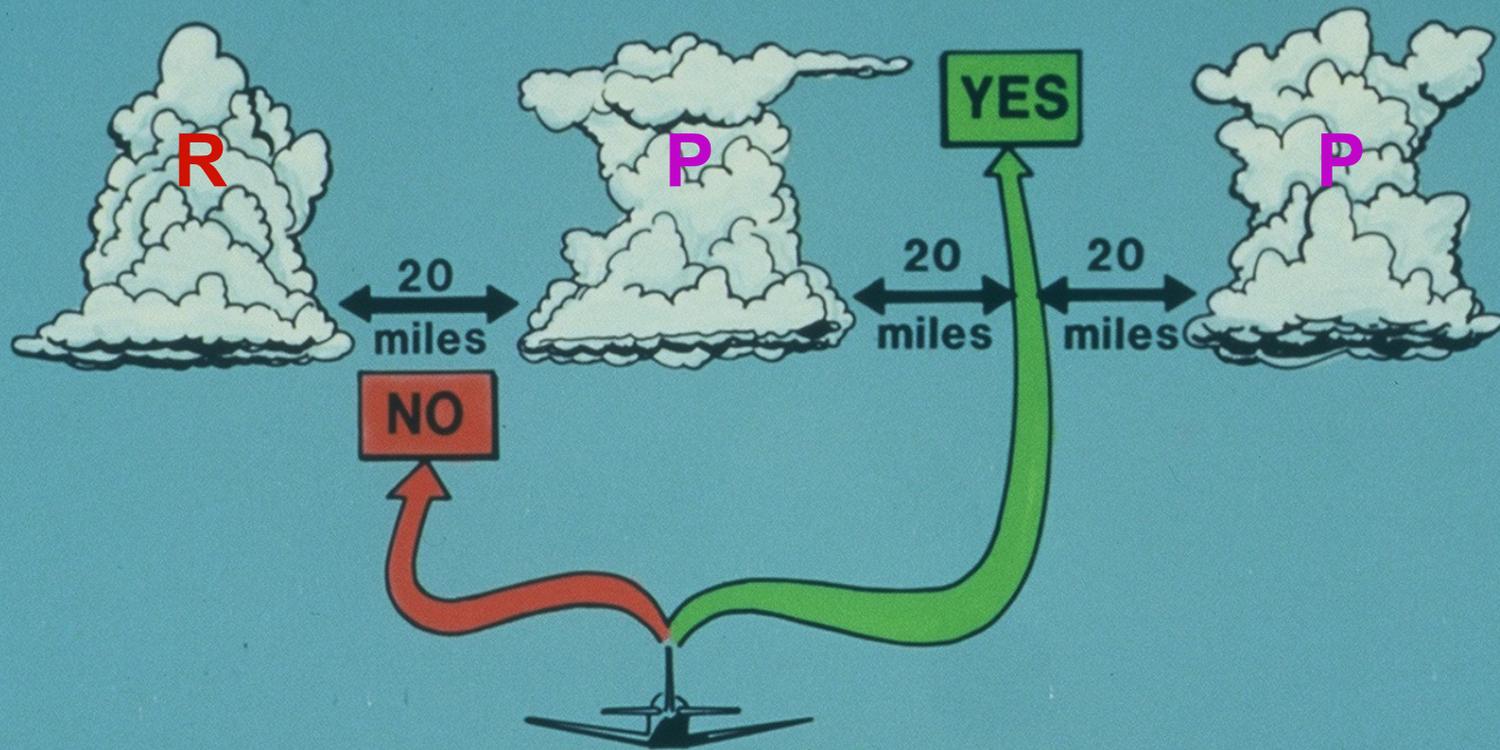


# Scanning Strategy Storm Mode

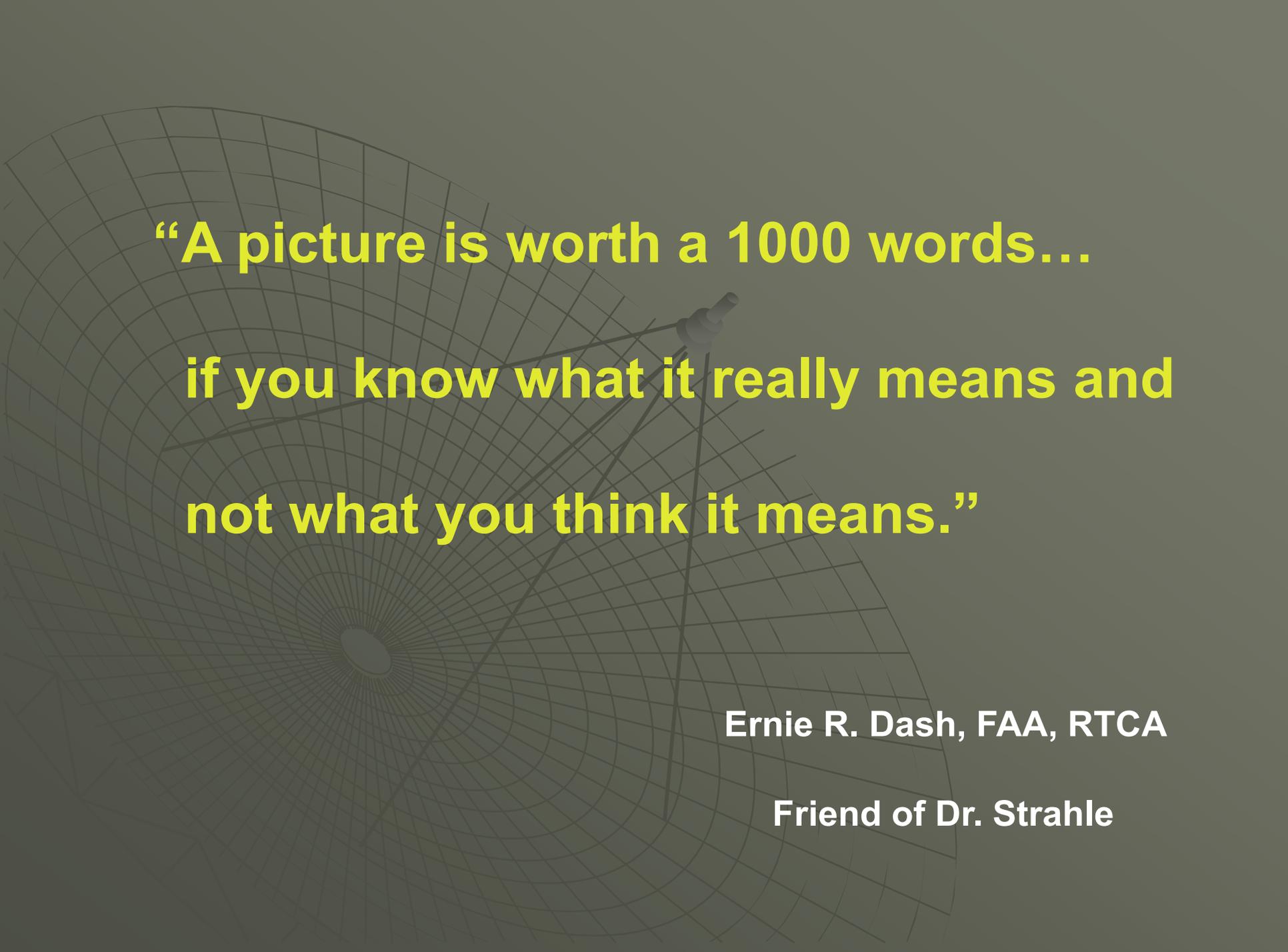
## Volume Coverage Pattern 11

Number of Scans: 14 Beam Width: 0.95





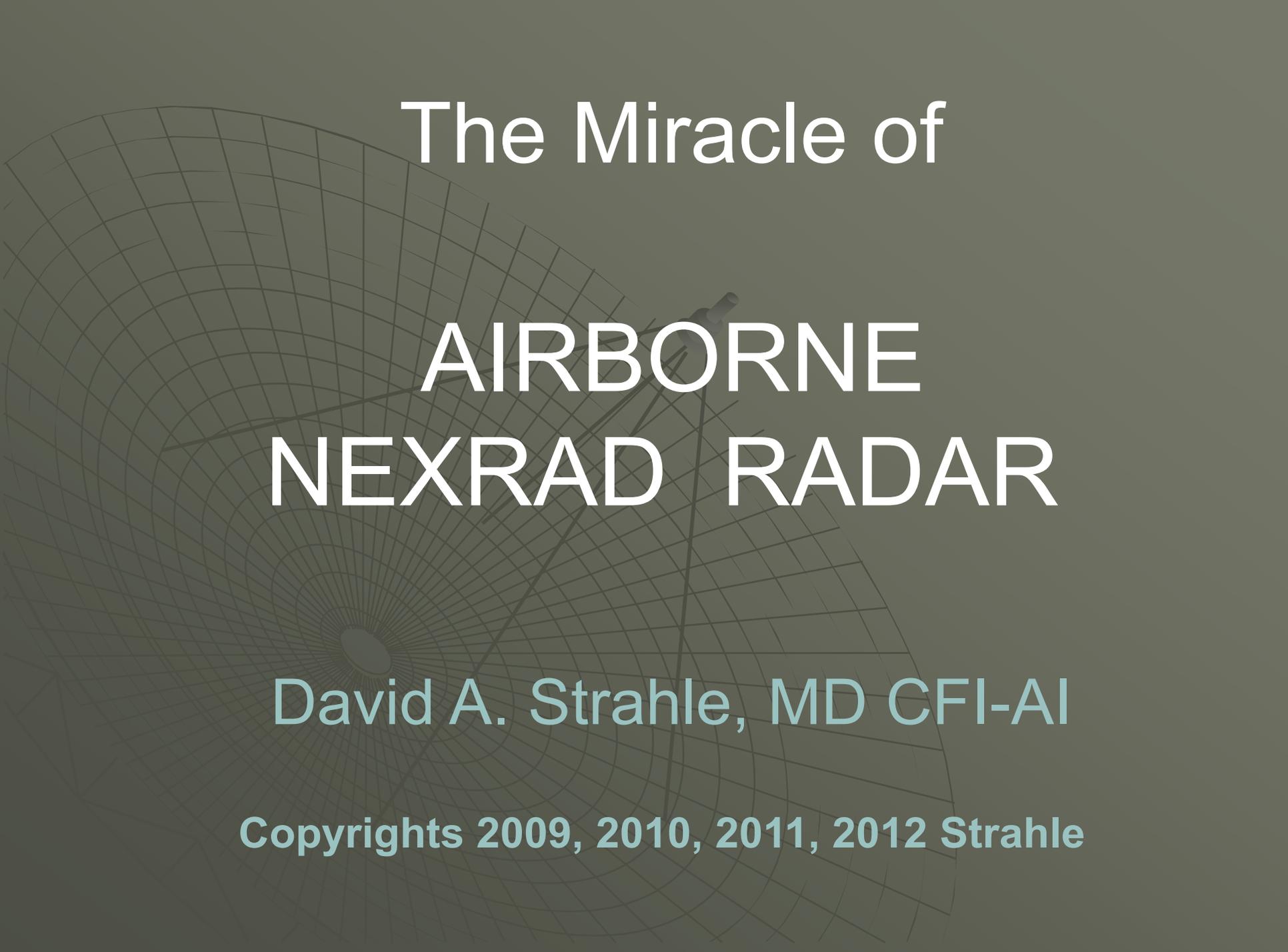
**AVOID FLIGHT WITHIN  
20 MILES OF A THUNDERSTORM**



**“A picture is worth a 1000 words...  
if you know what it really means and  
not what you think it means.”**

**Ernie R. Dash, FAA, RTCA**

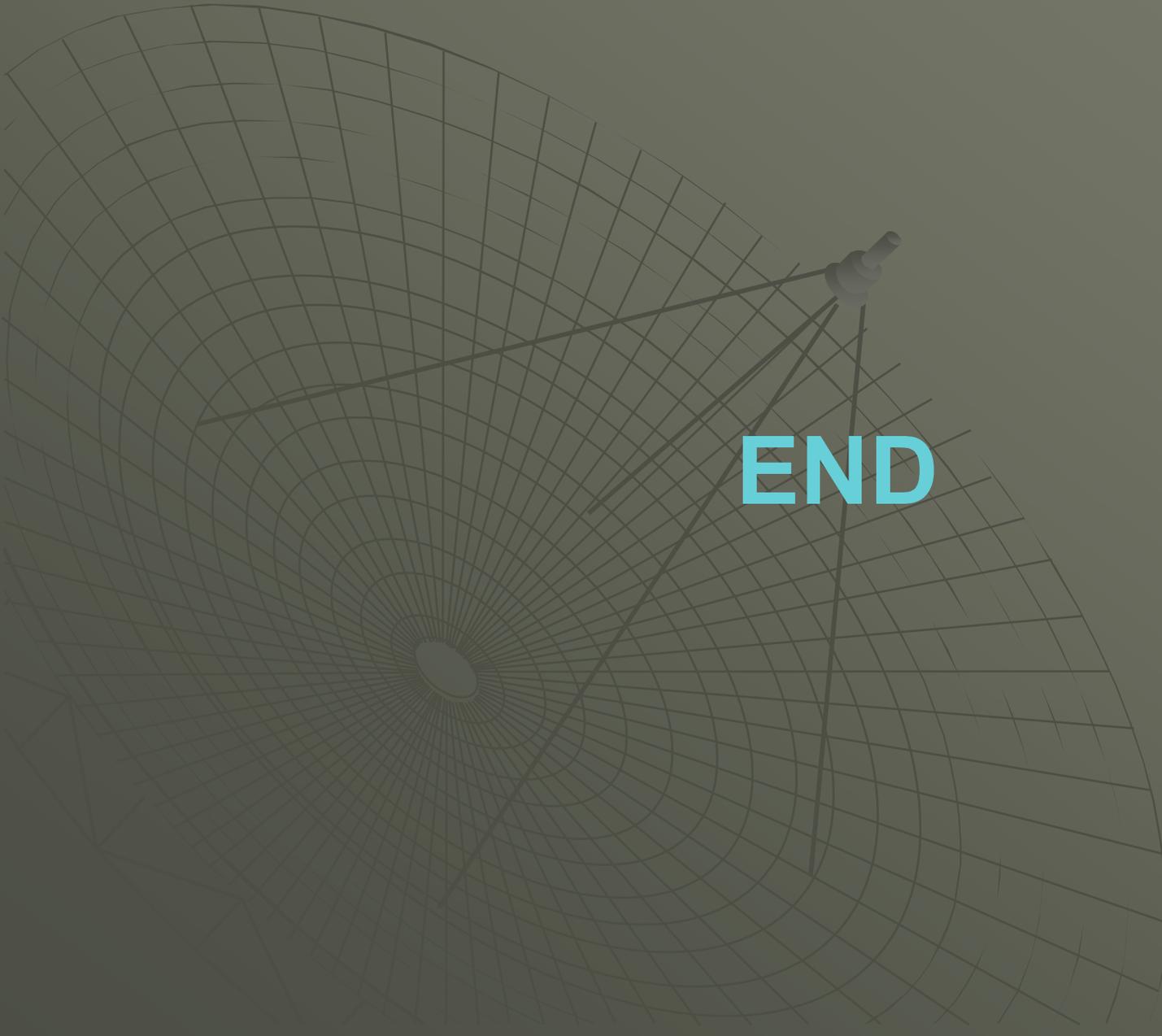
**Friend of Dr. Strahle**



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**END**