

CRH SSD
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CENTRAL REGION TECHNICAL ATTACHMENT 86-13

ANOTHER TEXTBOOK CASE OF A SUPERCCELL SIGNATURE

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On the evening of April 26, 1986, severe thunderstorms moved through eastern Nebraska. Fig. 1 shows an intense thunderstorm southwest of Lincoln at about 8:10 p.m. CST, which was moving northeast at about 30 knots. A pendant echo was forming on the southeast edge of the storm in the area of strong low level inflow. Fig. 2 shows an RHI scan that revealed a well developed bounded weak echo region (BWER) inside the curl of the pendant. The highest echo top was over the BWER and just outside the area of the strongest low level reflectivity gradient.

This signature maintained itself for about one hour as it moved northeast across Lancaster County, including the Lincoln area. Wind gusts reached 63 mph at the Lincoln Airport and 1 1/2 inch hail was observed in parts of town. Three sightings of funnel clouds were reported but there were no reports of damage. A wind gust of 75 mph was reported further northeast at Ashland as the top began collapsing.

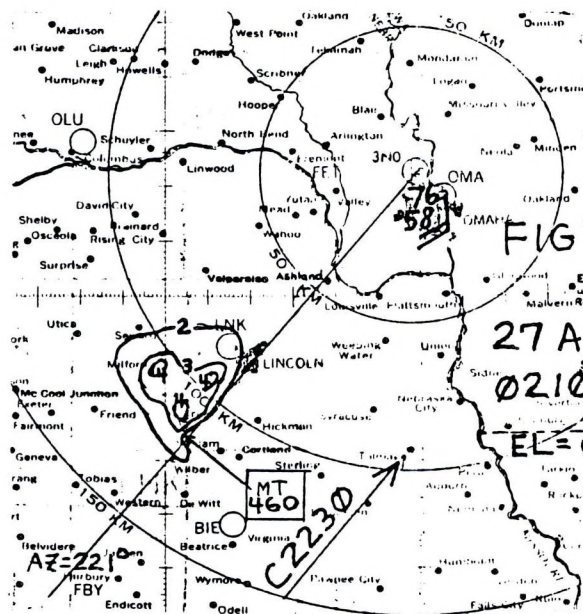
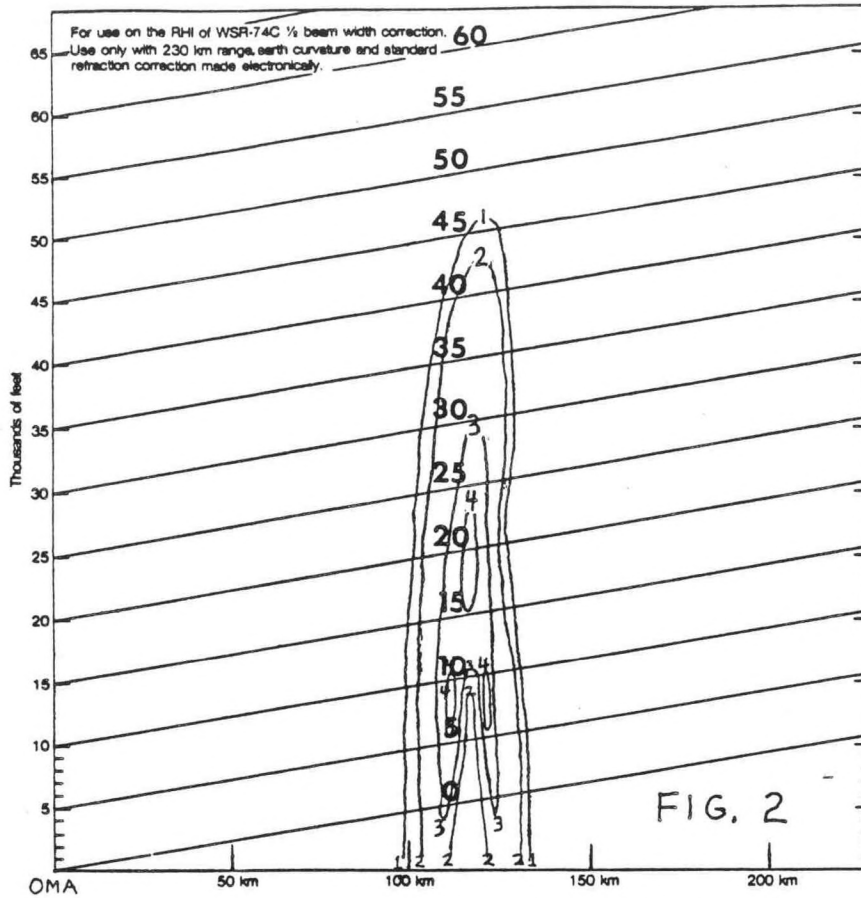


Fig. 1. Omaha radar chart for 0210 GMT 27 April 1986, contoured for VIP levels. Elevation angle 0.5°.



27 APR 86 0210Z AZ 221°

Fig. 2. RHI scan from Omaha radar for 0210 GMT 27 April 1986.