

## **RAXPOL DEPLOYMENT SUMMARY**

DATE: 23 APRIL 2014

CREW: HOWIE, KYLE, ZACH

LOCATION: SOUTHWEST OKLAHOMA

TOTAL NUMBER OF DEPLOYMENTS: 2

**SUMMARY:** RaXPol departed Norman at approximately 1900 UTC and headed southwest on I-44 towards Lawton with an initial target near Altus, OK. Storms began to fire in the Texas panhandle, and would propagate eastward into Oklahoma. After careful consideration of three potential plays, it was decided to head north out of Duke, OK towards a multicellular cluster that showed signs of organizing. For a short time, the storm-of-interest developed a hook-like feature, but new convection near and south of the cell would not allow this to persist. Deployment 1 lasted approximately 45 minutes during which time a weak vortex couplet was observed, although the storm never gained a tremendous amount of organization during this time. After deployment 1, we headed east (and north) on highway 9 towards Rocky. It was noted beforehand that this would be a short deployment in order to avoid potential hail nearing our location (WSR-88D showed dBZ values in excess of 65 headed towards our location). High winds and heavy rain were observed during this time. According to SPC storm reports, downed power lines and ~80mph winds were observed 3.0 miles north of our location. Scanning ceased at 0018 UTC for return to Norman.

### **DEPLOYMENT 1:**

LAT: 34.958374° LON: -99.502602°

6.1 Miles North of Mangum, OK

Scanning strategy 1 -- Began 2239 UTC

0°-20°/1° increments, 60 km range, 150 m resolution, 500 µm PRI

Scanning strategy 2 – Began 2246 UTC

0°-20°/1° increments, 30 km range, 150\_75 m resolution, 250 µm PRI

Scanning strategy 3 – Began 2255 UTC

0°-40°/1° increments, 30 km range, 150\_75 m resolution, 250 µm PRI

Scanning strategy 4 – Began 2256 UTC

0°-20°/1° increments, 30 km range, 150\_75 m resolution, 250 µm PRI

Scanning strategy 5 – Began 2259 UTC

0°-20°/1° increments, 27 km range, 30/15m resolution, 200 µm PRI

### **DEPLOYMENT 2:**

LAT: 35.116589° LON: -99.064428°

3 Miles South of Rocky, OK

Scanning strategy 1 -- Began 0000 UTC

0°-20°/1° increments, 27 km range, 30/15m resolution, 200 µm PRI

Scanning strategy 2 – Began 0004 UTC

0°-20°/1° increments, 60 km range, 150\_75 m resolution, 500 µm PRI

Scanning strategy 3 – Began 0009 UTC

0°-20°/1° increments, 30 km range, 150\_75 m resolution, 250 μm PRI

**NOTES:**

- Reflectivity values were roughly 20 dBZ higher than should be on the iRadar display, showing no change from last time. Check again for additional software updates.

-Downed power poles and estimated 80mph winds were reported at Rocky, OK at time of deployment 2.