

RAXPOL DEPLOYMENT SUMMARY

DATE: 6 JUNE 2014

CREW: HOWIE, KYLE, ZACH

LOCATION: NORTHEASTERN COLORADO

TOTAL NUMBER OF DEPLOYMENTS: 3

SUMMARY: RaXPol departed Boulder, CO at approximately 18Z towards an initial target area of NE Colorado (Sterling, CO) via I-76. Reassessment of storms, which had already begun to fire at time of departure, argued that the environment was equally supportive of supercells near Denver instead of far NE Colorado. For this reason, RaXPol made its first deployment 4 minutes north of Hudson, CO, initially observing cells that were firing due to the presence of the “Denver Cyclone”. RaXPol continued on I-76 towards Brush to stay ahead of the cells, and a rather long-lasting landspout was observed during deployment 2, 2 miles north of Brush, CO. Despite scanning while the landspout was on the ground for nearly 10 minutes, RaXPol failed to collect data of the spin up due to its distance from our location (it was nearly 50 miles away). RaXPol moved quickly northward to reposition on the cell which was still tornado warned, but it quickly dissipated. Scanning ceased at 2211 UTC and RaXPol returned to Boulder.

DEPLOYMENT 1:

LAT: 40.119955° LON: -104.604101°

~ 4 miles NE of Hudson, CO

Scanning strategy 1 -- Began 1930 UTC, Ended 1933 UTC
0°-20°/1° increments, 50 km range, 75 m resolution, 500 µm PRI

DEPLOYMENT 2:

LAT: 40.291224 LON: -103.621746°

~ 2 miles N of Brush, CO

Scanning strategy 1 -- Began 2039 UTC, Ended 2054 UTC
0°-20°/1° increments, 50 km range, 75 m resolution, 250 µm PRI

DEPLOYMENT 3:

LAT: 40.184443° LON: -103.585926°

~ 4 miles N of Brush, CO

Scanning strategy 1 -- Began 2114 UTC, Ended 2143 UTC
0°-20°/1° increments, 70 km range, 150 m resolution, 500 µm PRI

Scanning strategy 2 -- Began 2143 UTC, Ended 2210 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 µm PRI

NOTES: