

RAXPOL DEPLOYMENT SUMMARY

DATE: 5 JUNE 2014

CREW: HOWIE, KYLE, ZACH

LOCATION: EASTERN COLORADO

TOTAL NUMBER OF DEPLOYMENTS: 5

SUMMARY: RaXPol departed Boulder, CO at approximately 18Z for Limon, CO via Golden due to road work and traffic issues. Storms began to fire south of Interstate 70, and following a short fuel stop in Limon, RaXPol backtracked to Agate and took highway 153 south for a short deployment. The supercell, which was initially propagating slightly north of east, began to turn rightward with time, and RaXPol ended deployment 1 in order to avoid being overrun by the cell. RaXPol returned to Limon and headed south on highway 71. Deployments 2 and 3 took place along highway 71, 10 and 20 miles south of Limon, respectively, in order to stay ahead of the advancing storm, which by this point was propagating towards the south. The storm, which was supercellular when data collection began, now had linear characteristics, and RaXPol headed west on highway 94 in order to avoid the core of the storm. Deployment 5 took place at the location of deployment 2, although a weak storm was observed and quickly abandoned. RaXPol returned to Boulder for the evening shortly after 0100 UTC.

DEPLOYMENT 1:

LAT: 39.330622° LON: -103.954978°

~ 20 miles west of Limon, CO

Scanning strategy 1 -- Began 2142 UTC, Ended 2146 UTC
0°-20°/1° increments, 50 km range, 75 m resolution, 500 μm PRI

Scanning strategy 2 – Began 2146 UTC, Ended 2153 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 μm PRI

DEPLOYMENT 2:

LAT: 39.084901° LON: -103.703289°

~ 10 miles south of Limon, CO

Scanning strategy 1 -- Began 2234 UTC, Ended 2240 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 μm PRI

Scanning strategy 2 – Began 2240 UTC, Ended 2248 UTC
0~ 20 miles west of Limon, CO
RHIs 0°-70°, 30 km range, 30 m resolution, 250 μm PRI

DEPLOYMENT 3:

LAT: 38.938999° LON: -103.705547°

~ 20 miles south of Limon, CO

Scanning strategy 1 -- Began 2304 UTC, Ended 2308 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 μm PRI

DEPLOYMENT 4:

LAT: 38.852182° LON: -103.749687°

~ 30 miles south of Limon, CO

Scanning strategy 1 -- Began 2327 UTC, Ended 2359 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 μm PRI

Scanning strategy 2 -- Began 2359 UTC, Ended 0015 UTC
0°-20°/1° increments, 50 km range, 75 m resolution, 500 μm PRI

DEPLOYMENT 5:

LAT: 39.084901° LON: -103.703289°

~ 10 miles south of Limon, CO

Scanning strategy 1 -- Began 0103 UTC, Ended 0109 UTC
0°-20°/1° increments, 30 km range, 75 m resolution, 250 μm PRI

NOTES: