

T-28 Pilot Report

Flight: 623
Date: 05241994
Flight Time: 09:13 – 10:44 CDT
Pilot: Dan Custis
Controller: Dennis Musil
Location: Norman, OK
Mission: Research flight

Computer Time	Video Time	Comments
		Two areas of morning cloudiness, one north and one south of Norman. Decide to head for southern one, part way between Chickasha and Norman. Tops to 15 kft. Reflectivity to 50 dBZ
09:06		Taxiing
09:13		Take-off in light rain
		Climb to SW; at 45 km S of Will Rogers, turn to west and continue climb
09:26		Gets to 60 km S of Cimarron radar, then heads N
		Running through light cloud, but cloud switch not activated
09:33		Loops around and heads into target cloud at 178°/48 km from Cimarron radar. Up to 0.5 gm ⁻³ LWC; 7°C; no significant updrafts. ATC turns him back at 09:35
		Loops around
09:39		Heads back in-cloud
		Data system crash 09:43:31 – 09:45:46
09:45		Out-of-cloud
		180° turn and climb to 3.8 km
09:50		In-cloud; +1°C; some precip, ~0.5 gm ⁻³ LWC
09:52		Out-of-cloud
		Climb to 4.5 km (-3°C); 180° turn;
09:55		In-cloud; 140°/62 km from Cimarron radar; more precip, same LWC; no significant vertical motion; very strong Ez
09:59		Out-of-cloud
		180° turn
10:02		In-cloud; everything weaker; out-of-cloud
		180° turn
10:08		Going back through to E. Higher LWC; stronger precip; weaker Ez. Storm now 145°/70 km from Cimarron
10:15		Going back through to W. Precip; Stronger Ez
10:22		Going back through to E; cloud collapsing below flight level; no LWC; light precip
		Descends to 3.8 km (+1°C)
10:29		One last pass to W. Light precip; no LWC, weak Ez
		Left de-ice heat on during descent, which improved performance of 2D-P on descent
10:44		landed

NOTES

Weather
Raining at take-off

Maintenance
After the flight, Gary Johnson was able to improve voltage output of 2D-P end diodes by cleaning the probe.

Operations

