ELDORA Flight Summary Report

Project	VORTEX
RAF Project Number	
Flight Director	Roger Wakimoto
ELDORA Scientist	Wen-Chau Lee
ELDORA Operator	Tim Rucker
Observers	
Purpose of Flight	Convections along dry line and upper lever front intersection
Flight Plan	South from OKC to Duncun, collect ground echo data, fly over Wichta Fall for dry line studies (parallel), fly west for the upper level front (stepped up normal to the front), then convection along the front
RAF Flight Number	
ELDORA Flight Number	VORTEX1
Date	04/17/95
Local Time Zone	CDT

Flight Log

Time

LST	GMT	Comments
13:43:45	18:43:45	Takeoff
		Rain in OKC
	18:49	ELDORA up and recording, Tape 950417A
	1859	Above SC
	1901	Switch to 1PRT, about 6 min from Duncun, alt=3120m
	1905	Over Duncun area, alt=10000ft
	1918	end ground echo leg, start descending
	192337	near SC cloud top at 1336m
	1928	in the clear air, alt 780m
	1944	first echo ~20dbz, near dry line alt=700m, nice clear return ~5dbz below 2.5 km
	1949	penetrate the cloud line at 2000 ft, no wind shift
	1950	echo top at 10 km, max 40 dbz
	1955	wind shift from south to northwest at -100Lon, 33.5lat
	1957	climb up to 10000 ft
	2014	photo, dust storm beneath the cold front
	2017	still above cold front, will drop alt, turn and penetrate
	2045	dry line 5km right of aircraft
	2049	turbulence
	2053	T

	2056	Turn 150 heading
	2105	Turn ESE (100) penetrating dry line at 2107
	2108	clear air up to 2km
	2207	through cold front at 4201m heading 100.
	23:30	switch to 2prt_79_58km header ready to sample convection
	2340	storm 2030km R
	2358	good cell, vault, weak echo region, beautiful cell
	0004	turn, heading 210
	0017	turn
	0030	Aft transmitter down for 3 min
	0044	shutdown
	0055	Landing