

## T-28 Pilot Report

Flight:  
Date: 06201999  
Flight Time: 16:05 – 17:53 MDT  
Pilot: Tom Root  
Controller: Andy Detwiler  
Location: Loveland, CO  
Mission: Research flight

Computer Time	Video Time	Comments
16:05		Take-off
16:10		Tom climbing toward storm on Wyoming border N of CHILL.
		T-28 computer clock 4 sec behind CHILL clock
16:21		Tom orbiting while waiting for Convair and Sabreliner to climb to higher altitudes
16:27		Tom level at 20 kft. Peak reflectivities < 55 dBZ
16:33		Convair and Sabreliner still lining up. Can distinguish 4 reflectivity cores in storm complex.
		Sabreliner reports splat of hail during pass along east side of storm
		Storm bases are high. Peak reflectivities are mid-50's dBZ at mid-levels and 60 dBZ near the ground
16:41:16		T-28 in-cloud with Convair in trail. Run #1
		Tom reports snow; lgt/mdt turb; icing
16:47:55		T-28 out-of-cloud
16:49:07		Convair out-of-cloud. End Run #1
16:51		T-28 inbound on 145° radial
16:53		In-cloud; Run #2
		Cloud water/2D-C/hail probes all registering
16:56:00		T-28 10° left, then 20° right
16:59:50		T-28 out-of-cloud; T-28 computer 3 sec behind CHILL
17:01:57		End Run #2. Reverse course to N
17:07:15		In-cloud; Run #3
		Icing; lgt/mdt turb
17:09:20		Updraft
17:12		Out-of-cloud
17:14		End Run #3
17:18		Run #4
		Marble-size hail (can hear on audio in downdraft); mdt turb
		2500 ft/min updraft; some hail
17:22:10		Can see break on outer window of camera housing
17:24		T-28 mostly out
17:27		End Run #4
		Turning left to go back through to W
17:30		Back into precip
17:32:31		Start Run #5
		Mdt 2D-C counts; can hear precip on mike; mdt turb
17:36:20		T-28 out-of-cloud; will RTB
		Goes through some precip on way home
17:53		lands

### NOTES

#### Weather

Mountain convection moved out over the plains later than on previous days. Several vigorous thunderstorms developed from 60-100 km NNW of CHILL, around the Colorado-Wyoming state line. Despite weak shear, storms are very steady over a couple of hours.

#### Maintenance

Altimeter is jumpy.

#### Operations

Lots of P-static problems.