

T-28 Pilot Report

Flight: 731
Date: 06141999
Flight Time: 14:20 – 16:04
Pilot: Tom Root
Controller: Andy Detwiler
Location: Loveland, CO
Mission: Research flight

Computer Time	Video Time	Comments
14:20		Take-off
		Climb toward GILL
14:40		Flies through bases of some anvils
14:51		Starting 1 st run to the N from the south end of the line of storms; a little bumpy; icing
14:51:40		ltng
14:52		Pitot ices up
14:52:13		-4 g's
14:53:50		-3 g's
14:55:50		A little bumpy; climbing to 21 kft
14:57		End of 1 st pass
		90/270 turn; de-ice heat on
15:01		Rolling out on hdng 190°.
		Smooth ride; ice on aircraft sublimating
15:05:04		Rain & chop
15:07:03		Hits updraft near end of pass
15:07:40		Smooths out; accel and turb recorded after this looks control-related
15:10		End of pass #2. Ends up too far W. Try to work back.
15:11		Start Pass #3 toward N
		Sabreliner coming S overhead at 35 kft
15:12:50		ltng
15:13:06		ltng
15:14:15		Rain; turb
15:14:40		Pitching down 10° to hold altitude in updraft
		Picking up ice
15:15:40		Updraft; nose-down
15:16:27		bumpy
15:18:20		End of pass #3. Do 180° to right
15:20		Start pass #4 toward S
15:22:05		In tops; brighter
15:22:22		chop
		Looks from radar like he missed strongest parts of storms.
15:23:18		Lgt/mdt turb; no ice
15:23:53		“getting into a little bit here”
15:24:05		1500 ft/min up
15:26:20		Back in updraft agin, 1000 ft/min
15:26:50		Airspeed change (causes big spike in turbulence calculation)
15:27		End of pass #4; extends run to S before turning
15:29		90/270 turn, coming out on heading 350°
		Sabre in same storm, running N at 33 kft
15:30:40		Can see ground
15:31:50		In-cloud, Pass #5
15:34:20		On front edge; in-clear
		Misses old southern-most cell; steers right for new cell
15:37:20		Turn 20° right; Misses 1 st new target on NE heading, but hits the next one.
		Lgt rime
		Turb near end of pass.
15:42		End pass #5
		Reverse course; ATC having trouble picking up transponder

15:46		Begin pass #6
		Things have pretty much fallen apart
15:50		End Pass #6.
		RTB
16:03		T-28 lands. Sabreliner still working.

NOTES

Weather

A typical convective day with storms forming over the mountains and then moving out onto the plains. By 14:00 a N-S line of storms is moving off the mountains Anvil reaching eastward over the plains ahead of the mountain storms. Worked early afternoon storms after they moved out to the CHILL region. Later in the afternoon the strongest convection was east of where these anvils had earlier shaded the plains near the Foothills.

Maintenance

Operations

Convair is down for day. T-28 to work at 20 kft; Sabreliner at 33 kft, initially in different storms. T-28 de-ice inadvertently left off during 1st pass.