

T-28 Pilot Report

Flight: 670
Date: 06271995
Flight Time: 15:10 – 16:30
Pilot: Tom Root
Controller: Dennis Musil
Location: Loveland, CO
Mission: Research flight

Computer Time	Video Time	Comments
15:10		Take-off
15:20:49		DEN Cntr has trouble picking up transponder
15:24:47		Hdng 300°; alt 14 kft
15:25:27		Hdng 285-295°; alt 14 kft
15:26:21		In-cloud Pen #1
15:26:25		Smooth; no rain
15:27:13		Hdng 280°; 2000 ft/min updraft took aircraft to 15.3 kft
15:28:20		Getting a little hail; ltng nearby
15:29:19		Reversing course
15:20:24		Out-of-cloud
15:32:45		In-cloud, Pen #2; hdng 280°; IAS 135 kts; climbing to alt 14 kft
15:33:40		Cloud-cloud ltng; mdt turb
15:33:59		Out-of-cloud on west side; light hail
15:37:42		Downdrafts 2000 ft/min
15:41:19		280° hdng; 14 kft alt climbing to 15.2 kft
15:42		Turn right to go N
15:43:46		Out-of-cloud
15:45:08		In-cloud Pen #3; heading S
15:46:01		Marble-size hail
15:47		No icing; right turn to reverse course
		Hdng 010 – 350°; 15 kft alt; golf-ball - quarter-size hail
15:50:58		Out-of-cloud
		Right turn to 180°; cleared for 15-17 kft altitude block; at 16 kft
15:53:20		In-cloud, Pen #4; hdng 190°
15:54:29		Hdng 210°; hail pea-to-marble size; updraft 2000 ft/min
15:55:02		Light hail
15:57:33		Out-of-cloud
		Go left to easterly hdng; climb to 17 kft; turn to northerly heading
15:59:08		In-cloud, Pen #5; to 020° hdng; 17 kft alt
16:00:01		Constant quarter-size hail with occasional golf-ball size
16:00:30		Constant soft hail; hddng 020°; 17 kft altitude
16:00:42		Continuous mdt turb and hail
16:02:36		Left to hdng 170°
16:03:09		2000 ft/min downdraft
16:03:24		Hdng 170°; alt 17 kft
16:05:09		Icing in cloud; ¾ in buildup; wet snow

16:07:09		Out-of-cloud
		Pe-to-marble-size soft hail
16:07:22		In-cloud, Pen #6
16:08:37		Out-of-cloud; Right turn to 010°
16:09:24		17 kft alt
16:11:21		In-cloud, Pen #7
		Heavy wet snow mixed with rain
		Fuel vent frozen over; indicating 10 min station time available; descending to melt ice off of vent
		No time to continue storm passes once vent cleared
		RTB
16:30		land

NOTES

Weather

High-base storms going by noon. Decide to launch at 14:30 with many cells around from which to choose. Storms continued into evening with more wind than rain. Typical storms produced 1-2 CG ltng events per minute.

Maintenance

Operations

Original waypoint was Gill VORTAC. Observed hail was soft/slushy