

## T-28 Pilot Report

Flight: 570 CaPE  
Date: 08071991  
Flight Time: 13:38 – 15:40:50  
Pilot: Dan Custis  
Controller: Dennis Musil  
Location: Melbourne, FL  
Mission: Research flight

Computer Time	Video Time	Comments
13:38:00		Taking off
14:00:32		Pen #1. Hdng 010, 16,000'. RT.
		Penetrating at this time on hdng of 010. RT.
		Storm 8 out. Pretty much under cell. Not much activity
14:02:40		Pen # 1 completed
14:06:03		Pen #2. Hdng 040, 16,000'. RT
14:06:24		Out of cloud. RT.
14:09:51		Pen #3. Hdng 240, 16,000'.
		Entering cloud now.
		Light turb
		mod turb
		mod precip
		RT
		500' up
		700' up
14:10:30		Storm 8 out. RT.
14:13:24		Pen # 4. Hdng 060.
		In cloud.
		Light to mod turb mod rain mod turb
14:13:56		Out of cloud. RT
14:14:20		Pen #5, initial hdng 235.
		In cloud.
		Thru small cell, just entering a larger one @ this time.
		RT.
		Mod rain and light to mod turb.
		800' down. Still in mod rain
14:22:22		Storm 8 out of cloud
14:31:21		Pen # 6, hdng 340, 16,000'.
		In cloud.
		Mod turb light rain
		1000' up Still in light rain
		RT.
		Lined up on 2 echoes.
		Mod turb Out of cloud
		RT
14:32:32		Out of cloud. RT

14:36:48		Rolling out on hdng 150 for Pen #7.
		RT. Coming right to 160
		RT. Mod rain
		1000' up light rain mod rain again
		500' up
		1000' up mod turb
14:37:52		Out of cloud
		RT
		That had pretty good activity, even tough it was a narrow cell.
		RT
14:44:03		Pen #8 on hdng of 330, alt 16,000' (Note: time on handwritten notes says 1433:52)
		Be entering shortly.
		RT. Cloud sw on.
		RT. Light precip, 1000' up mod turb
		500' down light precip, changing to mod precip at this time.
14:45:06		Out of cloud. RT
14:47:07		Pen #9, hdng 150, 16,000'.
		In cloud. -----.
		Smooth ride so far.
		Turning right to 180.
		Picking up light to moderate precip.
		Light turb.
14:48:52		Out of Cloud RT
14:52:50		Pen #10, hdng of 030, alt 16,000'.
		In cloud.
		Mod rain.
		Momentarily out of cloud, be reentering in at :15 sec.
		Hdng now 040.
		Mod rain
		Light turb
		light precip
		Still light precip turning to ice
		Light turb
		Light precip
		Mod precip
14:54:54		Out of cloud
14:56:53		Pen #11, hdg 190, 16,000',
		light turb
		500' up. Light to mod turb.
		Camera switch sw went on @57:20.
		Right to hdg of 220, in mod precip and light to mod turb.
		500' up. Light precip now with light icing.
		RT.
		Out of cloud about 10 sec, now back in.

		Light turb Light precip.
14:59:50		Out of cloud. In the clear.
15:01:40		Going 180 right to hdg of 040. RT.
15:02:41		Pen #12 on hdng of 040, alt 16,000'.
		Enter cloud now, appear to be on NW edge of cloud
		RT.
		Right to 070. No activity.
15:03:48		Exiting cloud
15:09:27		Pen #13. Hdg 250, alt 16,000'. Pos MLB 296/30 on the east side of cell. RT.
15:10:10		In cloud. Very smooth ride. Light precip.
15:11:30		Out of cloud
15:14:58		Pen #14, on hdg of 080, alt 16,000'.
		In cloud. Light precip Light turb
		Mod precip
		Out in clear momentarily, coming left to 060
15:15:31		Rolling out
		Light precip.
		Light turb.
		Light to mod precip.
		Light precip now
15:17:04		Exiting. RT.
15:21:11		Pen #15 on hdg of 250, 14,000'. RT.
		Entering cloud.
15:22:16		Exiting. Smooth flight thru. Either under echo or missed it.
15:25:37		Pen #16 on hdg of 090, 14,000', In cloud now.
15:25:---		Out of cloud. RT.
15:29:28		Pen #17, on hdg of 130, alt 14,000'. Hdg now 135.
15:29:33		In cloud. RT.
		Mod precip and mod turb.
		Light precip
15:31:30		Out now w/buildup at 12-
		Want me to continue hdg.?
		RT
15:33:01		Pen #18 on hdg of 335,
		Mod precip. Mod turb.
		Right to 350. Momentarily in clear.
		Left to 310. Coming further left to 290. Have good visual.
		RT. Hdg 280
15:34:45		Entering another tower.
		1000' down 500 Light rain. Heavier rain
		500' up 1000' up mod precip mod turb
15:35:24		Out and in clear
15:38:27		Pen #19 on hdg of 080.
		In cloud. Mod turbulence. Mod precip. RT.

		Temporarily out of cloud, going back in now. RT.
		Mod precip, Mod turb
		Light precip appear to be clear.
		In light precip. RT
15:40:50		Out and in clear, completed pen #19. RT

**NOTES**

---- = unreadable

Weather

Maintenance

Operations