

T-28 Pilot Report

Flight: 575 - CaPE
Date: 08151991
Flight Time: 16:35:00-183:40:00
Pilot: Dan Custis
Controller: Dennis Musil
Location: Melbourne, FL
Mission: Research flight

Computer Time	Video Time	Comments
16:41:00		Rolling
17:08:28		Pen #1 on hdng of 180, 18,000'
		Cloud sw on.
		Very light precip. Ltng.
		Very smooth ride so far.
17:09:15		Mod turb, mod precip, icing, precip static, Ltng
		500' up, Ltng
		RT 500' up.
		---- Coming right to 200°. Still in Pen #1.
		RT. Still in smooth air and appears to be clear to east. Ltng
		RT. Ltng .10 left to 190. Steady on 190.
		Ltng light precip Ltng light turb
		1000' up. Ltng More Ltng Mod precip Hvy precip Ltng
		1000' up. Ltng Mod precip Ltng Mod turb
		500-1000' up Ltng Precip turning to ice Ltng Ltng
		1000' up. Ltng Ltng Ltng Mod turb Mod precip.
		Ltng Icing Ltng Hvy precip Ltng Ltng Light precip
		Ltng Ltng Light precip
		Ltng Mod precip
		RT Mod precip Mod turb Ltng Ltng Mod turb
		1000' up
		1500' up Mod precip
		Still in mod precip turning to light precip now
		Mod turb
17:19:28		Out of cloud Camea is out of film on 1 st pen.
17:21:17		Pen #2 hdng 220, 18,000', in-cloud. Momentarily out of cloud.
17:21:34		Back in shortly on same hdng.
		In-cloud Mod turb Light precip
		1000' up Mod turb Mod rain
		1500' up Severe turb Smooth now with a bit of ice on the airframe
		Light precip Mod turb Mod precip turning to ice Mod turb Ltng Light precip
17:24:39		Out of cloud and in clear. RT
17:30:20		Pen #3, hdng 350
		In cloud Icing Light precip Light turb
		1000' down Now in smooth air with neg turb or precip

	Ltng Light precip turning to mod precip, mod turb
	1000' up severe turbulence, hvy precip
	2000' up Ltng, hdng 350, Pen #3
	10° RT to 360 ltng more ltng mod turb ltng hvy precip turning to ice
	1500' up, 2000' up, still in mod turb, ltng, 10° RT to 010 ltng hvy precip
	1000' up, ltng
17:33:16	Hvy precip, ltng, 1000' up, still 1000-1500' up, hvy precip, RT Right to 020 hdng, still in hvy precip with lightning and mod turb. Ltng light precip now Still in light precip with mod turb, ltng, light turb now RT out of cloud
17:36:16	Pen #3 complete
17:37:52	Storm 8 is in cloud on hdng of 060 for Pen #4. 18,000', light turb, mod turb, ltng Ltng icing ltng light turb icing light precip ltng mod precip ltng ltng ltng Still in light turb light turb light precip 1500' down momentarily in clear, be punching into another cell @ 15 secs
17:41:01	Back in cloud, still on Pen #4, hdng 067, correcting to 060
17:41:30	Icing light turb Momentarily out of cloud, believe I will be re-entering shortly, can't see much ahead due to ice. How does it look Gator?
17:42:20	OK we will call Pen #4 complete. RT.
17:46:07	Be Pen #5 on hdng of 240, 18,000'. Be penetrating shortly
17:47:02	Pen. #5, hdng 240, 18,000'. In-cloud. Light precip with icing light turb RT 20° left to 220 RT momentarily out of cloud
17:49:01	Back in cloud, still on Pen #5. Light turb 500-1000' down, 500' down, 1000' down, 1000' up, 1500' up
17:51:12	Momentarily out of cloud. Penetration complete.
17:55:44	Pen #6 on hdng of 090, alt 16,000' Light precip with icing light turb
17:56:40	Pen complete Coming left at this time
17:59:20	Pen #7, hdng of 020, alt 16,000' Light precip light icing Momentarily out of cloud.
18:00:20	Still in Pen #7 light turb light precip mod precip 1000' up ltng light precip
	Out and in clear
18:01:06	Pen #7 complete
18:07:44	Pen #8 on hdng of 200°, 14,000'. In cloud. 10° left to 190 precip static light precip
	RT in moderate rain hvy rain

	RT 1000' up Out and in clear momentarily, hdng 190
	RT. Back in cloud with light precip
	RT still in light precip light turb mod precip
	1000' up light precip still in light precip
18:11:26	Momentarily out of cloud.
18:11:32	Pen complete
18:17:04	Pen #9 hdng 030, 12,000', light precip 20° left to 010 still in light precip light turb 500' up momentarily out of cloud RT turning right to 030 light turb mod rain hvy rain 500' up still in hvy rain mod turb 500' up mod rain light turb light rain back in mod rain light turb
18:20:32	Out and in clear Completes Pen #9 RT
18:24:51	Logging a pen on return to MelB @ 11,000', hdng 210 Moderate rain mod rain light to mod turb RT
18:25:42	Pen complete Pen # 10 started on hdng of 210 and terminated on 220
18:40	Mission complete

NOTES

Weather

Maintenance

Operations