

## T-28 Pilot Report

Flight: 558 CaPE  
Date: 07121991  
Flight Time: 14:07 – 16:09:15  
Pilot: Dan Custis  
Controller: Dennis Musil  
Location: Melbourne, FL  
Mission: Research flight

(Sound significantly degraded except for GATOR – didn't have my headphone plug in all the way!)  
 (Synchronization between Dan's times and DAS times looks good)

Computer Time	Video Time	Comments
14:07		Takeoff
14:10		FM test 14:10-14:11
14:48:45		Pen #1 heading S
~14:49		Some precip static
~14:50		Some precip static
		Light precip
		Light turbulence
14:53:15		Out-of-cloud
15:05:03		Hdg 200; 18.5 kft
:16		In-cloud Pen #2
		IAS 130
		Come 10° right
		(can hear ATC talking to Lear)
		Another 5 miles to break out
		Turb, ice, precip
		Will drop to 16 kft and reverse to N for next leg. Should turn left
15:09:35		Out-of-cloud
15:14:10		Pen #3
		Turb, fairly heavy precip
		(can hear muffled sound briefly on windscreen)
		10° left
15:18:08		End of pen #3
15:22:14		Pen #4
		210° hdg, 15 kft, IAS 150
		Mod precip, light turbulence
		In-the-clear, then back in
15:26:56		Out-of-cloud pen #4
		Drop to 13 kft
		Turn to left, completely left
		Roll out to 030°
		Into cloud, turb and precip as rolls out at 13 kft (actually has block 13-15 kft)
15:29:49		Pen #5, hdg 030
		Check weather at MLB, wants ceiling and visibility
		up another 30 min

		Light turb and updraft
		In light precip
		Drop to 11 kft after right turn
15:34:36		Even though still in precip, will turn and head back S
15:42:31		Hdg 200°, 11 kft, p-static
15:42:53		Pen #6
		Mod precip, light turb
		500' up
~15:45		Mod precip
15:46		Light to mod precip, light turb 20-30 minutes left
~15:46:30		Precip picked up, turb, then broke out
		Try to get 9 kft and reverse course
15:47:38		End Pen #6 (still in precip)
~15:48:30		In orbit
		Do 90/270, roll out on 020
~15:50		Out of 10 kft
15:52:09		Hdg 020
15:52:20		In-cloud, pen #7
		Light/mod turb
		Mod precip
~15:53:40		2 bursts of p-static
~15:54:20		Deviate 10° left
		Also, one ltng flash about this time
~15:56		Mod rain
~15:57		10° right
~15:58		Time for one more pen if ATC doesn't delay
		Try 90/270 and drop to 7 kft
15:58:40		Out-of-cloud, pen #7
16:05:29		In cloud, pen #8
		190°, 7 kft
		Try for 8-10 miles
~16:08:45		3 miles to edge of echo
~16:09:15		Tape ran out

## ***NOTES***

Weather

Maintenance

Operations