

## T-28 Pilot Report

Flight: 557 CaPE  
Date: 07111991  
Flight Time: 16:07 – 18:11  
Pilot: Dan Custis  
Controller: Dennis Musil  
Location: Melbourne, FL  
Mission: Research flight

Computer Time	Video Time	Comments
16:07		Take-off
16:18:50 – 16:19:50		J-W test (?)
16:20:13-16:20:50		FM test
		J-W back on
16:41:06		In-cloud, pen #1. Camera on
		IAS 145
		Hdg 160
		Z = 15 kft
		Smooth
		Little bit of precip
:42:47		Cloud switch and camera off
16:45		In-cloud, camera on
16:45:25		Hdg 320
		15 kft
		Little precip, very little convection
		300'/min down
16:47:31		Exit
16:48:25		Small cell
		15 kft
		325° hdg
16:48:52		Pen #3
		Exit/entrance?
		(decrease altitude)
		Nothing real significant on last pen
		Turn right for next pen
16:52:43		Cloud switch off/on?
		Hdg 340 pen #4?
		Alt 15 kft
54:33		Cloud switch/camera off Not much there on last pen
17:04:30		Pen #4 in-cloud
		Hdg 165
		14 kft
		IAS 130
		Pretty smooth
		Some static charge

		Shift to 175°
		IAS 132
17:07:45		
08:07		Light turb
		Turn right, descend to 12 kft
17:09:00		Cloud switch and camera off
17:10:09		Pen #5
		Cloud switch and camera on
		360° hdg, 12 kft
17:10:40		Light precip. Not much
		Will regroup after next pen @ 10 kft
		Out, precip falling from above
17:12:50		
17:13:00		732 frames on camera
		15 mi out of MLB
		More 3 mi. west, go back through at 10 kft and 165°
17:14:16		Out, end of pen #5
17:27:45		Cloud and camera on pen #6
		Hdg 160, alt 10 kft
		IAS 130
		Light precip, light turb
		047°, 15.4 nmi
17:29:40		Very close . Alt 10 kft
17:31:52		Reverse course to right, same altitude
		Very close
		Going right, roll out 340°
17:32:35		Pen #7
17:32:55		Light precip
		Very close
		Out
		Still getting precip outside of cloud
		Carry on for another 3 miles
		Try for 12 kft and repeat cycle going up
17 ??		Out of precip
		Camera off
		Reverse course take 160°
17:46:00		Cloud switch on
		Camera on
		Light precip
17:47:00		Out of cloud, still in precip
		Try for one more pen at 8 kft
17:49:37		Cloud switch off
		Swing 5 mi. east, pickup 160°
		In strongest echo

		Light precip
17:56		Exiting
DME's		#1 MLB #2 Orlando
18:11		

***NOTES***

Weather

Maintenance

Operations