

Aeronomy Lab Clouds and Radiation Test Flight

Flight #1: 000502H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	2
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2993.CON

Notes:

Dewpoint (DW1) was not functioning properly due to being "maxed out" from 1647:31-1658:30.

Radar altitude (RA-159) was replaced by RA-232 prior to takeoff due to spikes (1522:01-1826:00). RA-159 was replaced by RA-232 just prior to landing due to spikes (1822:45-1826:00).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1018.5	1017.8
Corrected tower pressure	1019.6	1018.6

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

Flt ID: 000502H	From: KMCF	To: KMCF
Flt No.: 00-39	Blk In: 1832Z	ATA: 1823Z
ETD: 15Z	Blk Out: 1510Z	ATD: 1525Z
ETE: 18Z	Blk Time: 3.22 3.4	Fit Time: 2:58 3.0
Sponsor Org: NOAA/AL	Program: CLOUDS + RAD	Purpose: TEST FLIGHT

AOC Personnel

AC: TAGGART, B ✓	Sys Eng: McMillan, S ✓
CP: O'MARA, F ✓	Data Sys: Hornbrook, C ✓
Nav: NEWMAN, L ✓	Radar: BARR, J
FE: TORREY, RV	GPS/BT:
Avionics:	Cld Phys:
FD: CZYZYK, J ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
DANIEL, J ✓	P.I.	NOAA/AL
LANGFORD, A ✓	MIDAS	"

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

INSTRUMENTATION PROBLEMS w/ MIDAS
NOSE RADAR ATT PROB

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWF2

Flt ID:

~~000502H~~ 000502H

Time Off:

1525Z

Time On:

1823Z

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	1018.5	30.11	1017.8	30.08

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	2	
Radar Tapes	2	
Cloud Physics Tapes		
Video Tapes		
Flt Lvl Data Printout		
AXBT		
AXCP		
AXCTD		
GPS		

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

Form 413-50

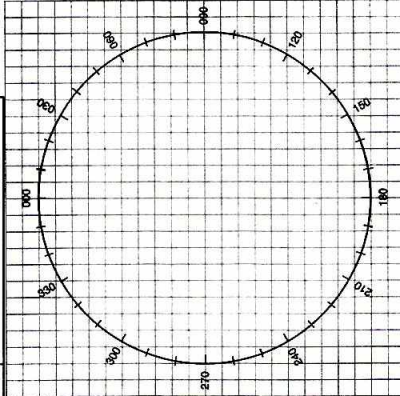
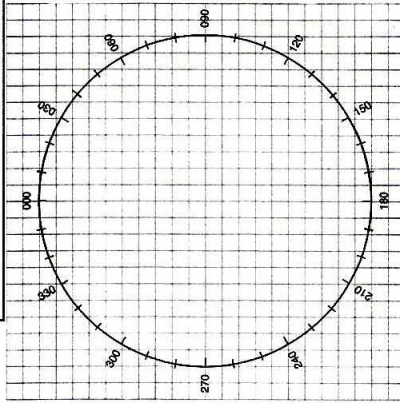
[illegible]

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME			
ALIGN STATUS (0-5)		0	0
END NAV TIME			
START NAV TIME			
DELTA T		5.5	5.5

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT		4.5	2.0
DELTA LON		.5	1.0
RGS		2	0
RADIAL ERROR		1.4	2.7

[illegible]

POSITION REPORT

[illegible]

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N / S _____

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD _____

- NATURE OF EMERGENCY

- ASSISTANCE DESIR
- PILOT INTENTIONS

- FIRST INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]