

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 970829H	FM: MCF	TO: MCF
FLT NO: 97-056	BLK IN: 1642Z	ATA: 1635Z
ETD: 1400Z	DLK OUT: 1401Z	RTD: 1414Z
ETE: 1630Z	BLK TIME: 2.41 2.7	FLT TIME: 2.21 2.4
SPONSOR ORG: AL	PROGRAM: Ozone/NAKE	PURPOSE: TEST FLIGHT.

OAO PERSONNEL

AC McKim, G	SYS ENG McMillan, J
CP O'MARA, T	DATA SYS ROLES, J
NAV RATHBUN, D	RADAR McNamara, R
FE BAST, G	DT/ODW
RADIO	CLD PHYS
FD CZ4Z4K	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
RYERSON, T	NO/NOY	
HUEY, G	CIMS	
NEUMANN, A	FOCUS CIMS	
FRIED, A	FOCUS TDLAS	
KUSTER, B	FOCUS GC	
WILLIAMS, J	FOCUS RANs	
JOBSON, T	Perovides	
HOLLOWAY, J	CO	

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

RA-159 TURNED ON 1415:10Z KING LW NOT FUNCTIONING PROPERLY

1428:29Z BALANCE DATA

1451:45Z BALANCE DATA

1512Z CHILL TEST DATA

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 F

FLT ID: 970829H

TIME OFF: 1414Z

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1015.6	29.96		

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES		
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

970829H

TIME	LAT	LON	TK	HD	TD	TD	WD	WS	PA	GA	SD	RS	REMARKS
141410													TOKE OFF
142100	2739	8226	216	215	9.7	4.2	99	4.5	2694	2845	724.5	1012.4	8.5K FT ↑
142800													14K START CAL
143700	2718	8243	217	219	0.7	8.5	298	5.7	4283	4496	594.0	1009.2	
143230													TK 270
1450													TURN E
145215	2703	8416	93	93	1.8	-16.0	304	8.9	4271	4486	594.9	1007.7	
150010													ASCEND
150900													TURN W 22K
151230	2710	8254	1260	261	-15.3	-46.0	137	2.0	6742	7098	425.7	1010.8	START LEG
152830	2658	8418											TURN E
153030	2704	8416	91	92	-15.5	-42.1	77	0.6	6729	7086	426.5	1012.2	LEG 2
154530	2701	8256	90	90	-15.6	-43.0	80	6.2	6715	7082	426.7	10140	END LEG ASCEND
160700	2715	8257	40	41	24.3	21.4	127	4.2	459	484	459.3	1013.2	1500 FT

TEST FLIGHT #2

Flight #1 H970829

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	2
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2974.CON

Notes:

There was one time gap 1426:51-1437:20 due to data system reboot.

Radar altimeter (RA-159) had a spike at landing and was set to zero (1634:58-1642:00).

Dewpointer #2 (DW2) had a spike due to balancing replaced and patched. (1510:00-1519:00).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1015.6	1014.6
Corrected tower pressure	1013.6	

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

```

TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
OZONE TEST FLIGHT #2
YYMMDDL FLT I.D.
970829H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
141731
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
163900
HHMMSS TAKE OFF TIME
141400
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
1
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
9
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
1
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPONT TEMPERATURE PROBE (I1) [1 OR 2]
2
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
1
* -----PRINTOUT RATE SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2974.CON
*****

```

Science Crew for Test Flight
8/29/97

Total seats available : 8

NO/NO_y : Ryerson, T.

CIMS : Huey, G. ; Neuman, A.

TDLAS : Fried, A.

in-situ GC : Kuster, W.

PAN's : Williams, J.

Peroxides : Johnson, B.

pod CO : Holloway, J.

MCKIM

OMARA

TORREY

RATHBUN

CZYZYK

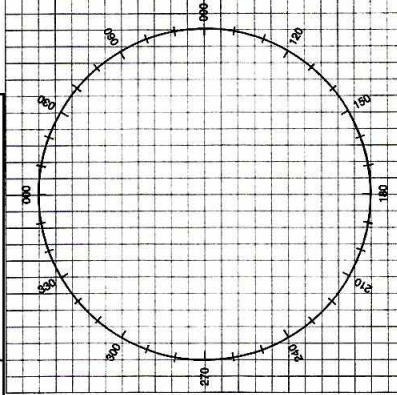
McMILLAN

McNPMARA

ROLES

[illegible]

POSITION REPORT



- PILOT INTENTIONS

6. NEXT POSITION

[illegible]

512-05/12 82/620