

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

FLT ID: 960408H	FM: 004	TO: 004
FLT NO: 96-012	BLK IN: 0059	ATA: 0055
ETD: 1500Z	BLK OUT: 1520 9.7	ATD: 1526
ETE: 00Z	BLK TIME: 9+39/9.9	FLT TIME: 9+39/9.5
SPONSOR ORG: NOAA/AL	PROGRAM: OZONE 96	PURPOSE: Aerosols

OAO PERSONNEL

AC KENNEDY ✓	SYS ENG ROLES ✓
CP PLAYER ✓	DATA SYS DELGADO ✓
NAV RATHBUN ✓ 82	RADAR
FE WADE ✓	BT/ODW
RADIO	CLD PHYS
FD WHITE ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HUBLER/HOCOCAC	OZONE 96	CU-CIREJ
RYERSON/SHERIDAN	Air Chemistry	11
GOLDAN/TRAINER	↓	NOAA/AL
JOHNSON/WILLIAMS	↓	11
WERT	↓	CU
ZHOU	↓	NY Stat DPH

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

35 31 010/ 29.89
+3 -0.5 1012mb

"J" 300 33000K 10 3732 00/5 29.96
+3 00 1014mb

960408 H

START 15160131

END 005800

BAD BLOCKS

1532:08

1532:10

1740:47

:50

0005:45

:50

~~AV#2~~ AV#1 used

HD 1646 - 1919

Fix APN 159 spike @ T/O

INE#1 w/GPS

160000 -0.4 +0.3

170000 -0.6 +0.5

180000 -1.9 +0.9

190000 -2.3 +1.5

200000 -1.9 +3.0

210000 -2.5 +2.7

220000 -1.6 +4.2

230000 +0.3 +5.0

006000 +0.5 +5.0

005800 +0.8 +5.7

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
OZONE FLIGHT 9
YYMMDDL FLT I.D.
960408H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
151631
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
005800
HHMMSS TAKE OFF TIME
152601
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
09
* -----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]
1
* -----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
CO2962.CON
*****

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OZONE 96 FLT #9

FLIGHT #09 H960408

TYPE OF DATA -----	SENSOR OR OPTION -----
INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	APN-159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2962.CON

Notes:

There were six time/data gaps: 1532:08 1532:10 1740:47
1740:50 0005:45 0005:50

Dewpoint temperature (TD) calculation on standard tape is +0.5 C higher than printout from aircraft due to a -0.5 C offset inadvertantly present onboard the aircraft.

Downward spikes in radar altimeter values were generated from overflying land.

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.

	Takeoff -----	Landing -----
Aircraft static pressure	1011.0mb	1014.5mb
Corrected tower pressure	1012.0mb	1014.0mb

Flight Meteorologist: Sean White: (813) 828-3310 ext. 3072

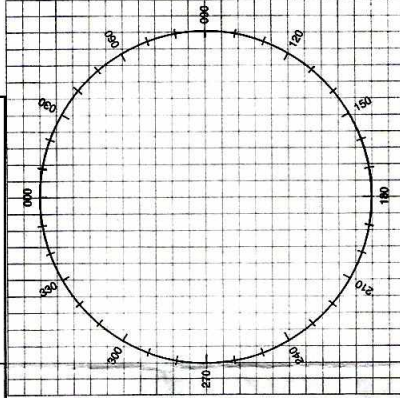
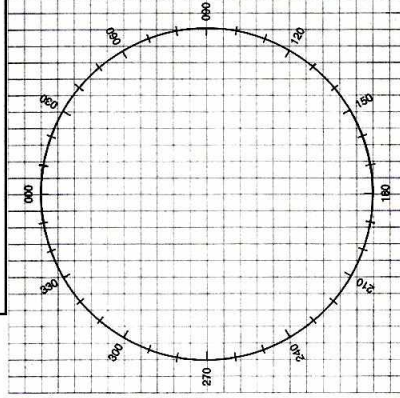
[illegible]

CLEARANCES

[illegible]

MISSION LOG

PAGE OF



POSITION REPORT

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

- POSITION _____ **N / S**

- HEADING _____ TRUE/MAG _____

-AT_____KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE
- WE ARE A B-3 AIRCRAFT WITH

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

• WE HAVE _____ ENDURANCE _____

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1513																				ENGINE START
1519																				TAXI
1525	GPS	4125.0	4125.3	-0.3	4124.8	+0.2														TAKOFF
1548	FM1	6949.0	6948.8	+0.2	6949.3	-0.3		039	6R	045	229	290	24	9K	218					
1616		4237.9	4236.6	-1.3	4236.7	+0.1		066	8L	048	232	156	34	7K	225					
1644		6800.9	6800.3	+0.6	6800.6	-0.3		051	12L	039	222	130	47	7K	226					
1725		4349.2	4350.1	-0.9	4347.8	+1.4		044	6L	038	195	030	20	1K	217					
1819		6606.7	6606.2	+0.5	6606.0	+0.2		048	4L	044	205	143	22	25K	293					
1855		4542.6	4544.0	-1.4	4540.0	+2.6		048	4L	044	255	100	22	18K	267					
1915		6350.2	6349.3	+0.9	6350.2	-0.9		046	1R	047	270	030	21	25K	290					
1952		4810.6	4812.6	-2.0	4806.7	+3.9														
2026		6051.4	6050.2	+1.2	6051.1	+0.3		243	1R	244	210	LV		1K	207					
2109		5113.4	5116.0	-2.6	5107.6	+5.8		219	2R	221	226	065	16	4K	212					
2152		5622.8	5621.0	+1.8	5624.5	-1.7		210	5R	215	218	103	20	1K	211					
2209		5132.4	5134.6	-2.2	5126.0	+6.4		210	5R	215	218	103	20	1K	211					
2250		5608.4	5605.6	+2.8	5610.1	-1.7		210	5R	215	218	103	20	1K	211					
2312		5124.2	5126.4	-2.2	5116.9	+7.3		210	5R	215	218	103	20	1K	211					
2359		5631.9	5629.1	+2.8	5637.1	-5.2		210	5R	215	218	103	20	1K	211					
		4927.4	4929.3	-1.9	4920.2	+7.2		210	5R	215	218	103	20	1K	211					
		5919.8	5916.0	+3.8	5925.4	-5.6		210	5R	215	218	103	20	1K	211					
		4724.0	4725.3	-1.3	4716.2	+7.8		210	5R	215	218	103	20	1K	211					
		6150.1	6145.8	+4.3	6158.0	-7.9		210	5R	215	218	103	20	1K	211					
		4436.8	4436.6	+0.2	4428.4	+8.4		210	5R	215	218	103	20	1K	211					
		6524.2	6519.5	+4.7	6533.2	-9.0		210	5R	215	218	103	20	1K	211					
		4330.2	4330.1	+0.1	4322.1	+8.1		210	5R	215	218	103	20	1K	211					
		6704.0	6658.9	+5.1	6713.8	-9.8		210	5R	215	218	103	20	1K	211					
		4129.5	4129.0	+0.5	4122.1	+7.4		210	5R	215	218	103	20	1K	211					

BRINDSTONE	2155
CHARRISTONE	2226

PAGE OF

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

$$\begin{array}{r} 8741 \\ 0+58 \\ \hline 9+39 \end{array}$$