

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.1 OROWF1 FILE

FLT ID: 960406H	FM: OQU	TO: OQU
FLT NO: 96-011	BLK IN: 0257✓	ATA: 0252
ETD: 1200L/1700Z	BLK OUT: 1717✓	RTD: 1725
ETE: 02302	BLK TIME: 9+40/9.7	FLT TIME: 9 + 27/9.5
SPONSOR ORG: NOAA/AL	PROGRAM: NARE	PURPOSE: OZONE 96

DAO PERSONNEL

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

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31 MCFADDEN ✓	Proj, Mysv	AOC
HOLLOWAY / HUBLE		CU-CIRES
RYERSON / SHERIDAN		CU-CIRES
KWTER / JOHNSON		NOAA/AL
FRIED		NCAR
WILLIAMS		NOAA/AL
ESCHOU		NY State D&H

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

"E" P.V.D 1500Z M30 OVC 10. 47.31 050/9 30.05
 30.03" 18°C - 1°C. 1017mb
 2200Z site
 20 SCT 40 Bkn 1 - 3 040/10 30.11
 "O" 19 SCT 29 SCT M60 Bkn 40 3831 050/12 30.06
 30.05
 1017mb

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OROWF2 FIL

FLT ID: 96-011

TIME OFF: 1725

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE		1017ms		1017ms

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

960406 H

Time	LAT	LONG	TA	TD	WD	WS	PS	SP	REMARKS
1725	0000	6.2	0.2	040	8	1011	998		T/O
1743	4176	59.0	overcast						Base 2700' 4800' TOPS
1759			-5.7	-13.9	311	17			gives way to BRN/SGT at CUP
1803:45			-5.0	-10.8	328	11.6			back to OVC desc below
1814	4215.0	6835.0	1.7	-5	032	16.5			5000' TOPS 3900' 60's
1833:00	4235.2	6731.7	1.3	-1	047	15.5			level @ 500'
1848:25	4236.4	6628.1	2.4	-13.6	052	15.4			climb base 1000' tops
1858	4355.9	6552.7	-6.3	-7.7	074	16			tops ~ 6800'
1903:01			-8.2	-9.5	062	11.3			descend tops 7200'
1911:34			-15.7	-42.1	377	14.8			multiple levels (clds) no exist
1918:00	4432.9	6451.7	16.4	41.4	324	17			climb to 13k
1922			-22.9	-47.6	311	25.5			level 17k
1933			-24.7	-54.2	334	28.1			descend multiple layers
1948			-2.9	-5.2	048	25.8			* level 1000'
2033	4851.4	6022.8	2.1	-9.2	047	29.7			climb 25k in clv
2052	4987.7	5929.2	40.2	-50.9	074	37.5			level 25k
2106:36			2 gentle / 1 steep		063	42.3			(3 revolutions) rolls govt/stld
2118:00	5015.7	5750.2	-37.4	-57.4	055	44.2			descend to 18k
2133:07	5037.3	5643.3	25.2	-40.0	043	44.2			descend to 12k
2148:07	5134.1	5503.3	13.0	-32.9	037	33.9			descend to 8k
2203:00			mod icing						level @ 6k
2210:53			-11.5	-0.0	356	24.0			all approx. iced covered
2218:25									MT site
2228:03			-2.1	-9.4	029	16.9			climb 1000' AS C
2203:00	5110.0	6016.7			029	15			positive cone
2218:05	5123.3	6146.5	1.0	-11.6	036	15.5			climb 26k
0018:04	4946.5	5943.7	42.2	-57.1	107	25.8			descend 8k
0033:58	4691.6	5877.2	-46.9	063	15				climb 12k
0035			very low RH < 39%						appears to be veg @ 12k
0048:01	4320.5	6850			021	14.2			climb 16k
0103:11	4421.1	6596			306	14.7			climb 20k
0118:04	4328.4	6919.9	-27.8	-50.6	263	27.6			climb 26k
0132:56	4424.1	6939.1	-36.6	-42.3	257	29.6			descend 18k
0203:00			-22.4	-26.7	271	34.8			climb 25k > 26k
0212:30			-36.0	-47.7	256	81.1			descend 500' 16k
0220			Attach #2						more-up same as 2203
0235									TOPS 4500'

0252 5.2/-10.4 058/11 1016.8 WD 200 → 080
LWD

H960406. PNR

START TIME 171839

STOP TIME 025600

800 BLOCK

220 FOUNP

REPLACE XPNV159 → 232

RA - 1725:05

1726:30

18:20:58

18:21:00

20:29:27

20:29:30

22:38:54

22:39:00

00:49:03

00:49:10

FIX #1	42	1.0	-68	54.7	-0.6	+0.2
#2	44	.8	-65	52.6	-0.9	+0.2
#3	46	51.4	-62	27.1	-1.5	+0.4
#4	49	18.3	-59	15.9	-1.6	+1.3
#5	51	33.1	-56	.4	-1.9	+1.4
#6	51	12.3	-60	-1.2	-2.3	+3.0
#7	48	18.8	-64	59.0	-1.8	+3.6
#8	44	40.3	-68	54.2	-0.9	+3.4
#9	41	11.6	-70	53.5	-0.6	+4.5
#10					-0.1	+5.0

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
OZONE FLIGHT 8
YYMMDDL FLT I.D.
960406H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
171831
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
025600
HHMMSS TAKE OFF TIME
172501
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
08
* -----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 #8

FLIGHT #08 H960406

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 eight time/data gaps: 1820:58 1821:00 2029:27 2029:30
2238:54 2239:00 0049:03 0049:10

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.

Radar altimeter APN159 was replaced by APN232 from 1725:05 through
1726:30 (takeoff).

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	1015.7mb	1016.5mb
Corrected tower pressure	1017.0mb	1017.0mb

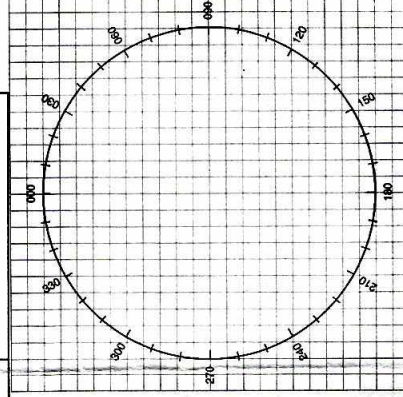
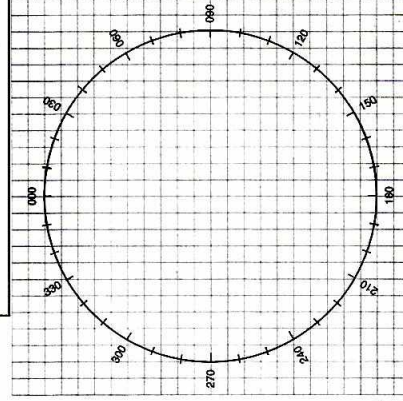
Flight Meteorologist: Sean White: (813) 828-3310 ext. 3072

CLEARANCES

[illegible]

MISSION LOG

PAGE OF



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 EMERGEN

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING _____

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1713																					ENG START
1717																					TAKZ
1724	GPS	4123.3	4123.4	-1	4123.2	-1			109	1R	110	233	302	17	8K	217					TAREOFF
1736	FM1	7034.1	7034.0	+1	7034.3	-2															
1804		41219.2	41220.0	-8	41219.0	+1.2			048	1L	047	191	056	19	500	210					
		6834.9	6834.4	+5	6833.8	+1.1															
1842		4317.7	4318.6	-9	4318.3	-1.6			054	0	054	236	239	4	5K	231					
		6700.5	6700.2	+3	6659.6	+1.9															
		4349.5	4349.4	-9	4349.2	-1.7															
1855		6606.5	6606.2	+3	6606.0	+1.5			042	3L	039	213	122	11	5K	210					
		4430.1	4431.2	-1.1	4430.7	-1.6															
1911		6516.4	6515.9	+1.5	6515.8	+1.6			034	2R	036	235	320	8	13K	234					
		4509.1	4510.2	-1.1	4509.4	-1.3															
1924		6430.9	6430.1	+8	6429.6	+1.3			037	4R	041	263	294	20	17K	261					
1950		4628.5	4629.9	-1.4	4629.2	-1.7			042	2L	044	192	058	24	1K	215					
		6254.9	6254.3	+6	6252.7	+2.2															
		4749.9	4751.5	-1.6	4751.6	-1.7			047	1L	046	174	054	36	1K	210					
2026		6114.8	6114.2	+6	6113.2	+1.6															
		4912.6	4914.2	-1.6	4913.5	-1.9			048	4L	044	267	081	39	25K	298					
2058		5924.0	5922.7	+1.3	5921.6	+2.4															
		5044.3	5046.4	-2.1	5046.5	-2.2			048	1L	047	224	053	34	18K	257					
2128		5705.5	5704.8	+7	5702.3	+3.2															
		5130.6	5132.2	-1.6	5131.9	-1.3			261	6L	255	219	004	23	1K	212					
2222		5623.4	5621.6	+1.8	5620.0	+3.4															
		5114.0	5116.3	-2.3	5116.9	-2.9			263	3L	262	226	047	16	1K	212					
2256		5940.9	5938.1	+2.8	5935.9	+3.0															
		4938.9	4940.2	-1.3	4940.5	-1.6															
2341		6331.4	6328.5	+2.9	6327.4	+4.0			207	6R	213	334	074	46	26K	302					
		4617.5	4619.2	-1.7	4619.9	-2.4															
0036		6719.5	6715.5	+4.0	6715.2	+6.3			217	1R	218	234	050	18	8K	216					

$$\begin{array}{r} 2143 \\ 3743 \\ \hline 9876 \end{array}$$

2209

7K cloud for

