

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

FLT ID: 970801H	FM: KMCF/KOPF	TO: KOPF
FLT NO: 97-050	BLK IN: 1504Z/2142Z	ATA: 1501Z/2135Z
ETD: 1400Z/1630Z	BLK OUT: 1353Z/1633Z	RTD: 1406Z/1639Z
ETE: 1445Z/2200Z	BLK TIME: 6.4	FLT TIME: 5.8
SPONSOR ORG: NOAA	PROGRAM: HRO. VME	PURPOSE: HRO FERRY P.V.

OAO PERSONNEL

AC ATLANTIC R KENNEDY, P ✓ *	SYS ENG McMILLAN, S ✓ *
CP ATLANTIC TAGGART, B ✓ */KENNEDY, P ✓ *	DATA SYS CARPENTER, D ✓ *
NAV RATHBUN, D ✓ *	RADAR BARR, J ✓ *
FE BAST, G ✓ *	BT/ODW
RADIO ROGERS, M ✓ *	CLD PHYS
FD CZ424K, S ✓ *	DOPPLER MCWHINTER, D ✓ *

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
GAMACHE, J ✓ *		
BLACK, M ✓ *		
LEIGHTON, P ✓ *		
HOUSTON, S ✓ *		
DORST, N ✓ *		

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

BALANCE OPTR 1408Z 1825Z

1420Z

~1708Z

~1702Z

DW1 seems too WARM & DW2

DW3 LOOK MORE REALISTIC

SWITCHED TO DW2 1730Z

DW2 SPIGES ~182400

TTZ OUT ~1900 - 2105 DUE TO CAL SWITCH FLIPPED

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

FLT ID: 970801H

TIME OFF: 1406Z

TIME ON: 2135Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1018.4 / 1018.3	(30.10 / 1018.9) ³⁰⁰	1018.8 / 1009.3	30.11 / 29.90

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

970801 H

[illegible]

HURR. GUILLERMO FERRY TO P.V.

Flight #1 H970801

<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	CO2973.CON

Notes:

Downward spikes in radar altimeter are a result of overflying land (2015:00-2128:00).

Radar altimeter (RA-159) had a spike at takeoff (1639:35-1641:35) and was replaced with RA-232. RA-159 was set to zero at landing due to spike (2135:24-2143:00).

Dewpoint #2 (DW2) was replaced by DW3+5.0 from 1754:20-1811:00 and replaced by DW3+7.0 from 1811:01-1824:30 due to several spikes. DW2 was replaced by DW1 due to large oscillations 2124:05-2143:00.

Static pressure (PSF) had five (5) spikes removed and patched 1813:00-1816:00 and two (2) spikes removed and patched 1824:00-1824:30.

Dynamic pressure (PQF1) has two (2) spikes removed and patched 1813:36-1814:30 and one (1) spike removed and patched 1823:41-1824:15.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1018.3	1019.0
Corrected tower pressure	1009.3	1012.5

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

970801A

1845:31 - 2105:00 TT2 OUT DUE TO FLIPPED SWITCH

1704:00, 0.5, 0.1 25 57.5 -82 4.0
 1757:00, 1.3, -0.1 25 31.5 -86 48.6
 1842:00, 1.2, -0.2 23 29.9 -90 19.1
 1921:00, 2.5, -0.2 21 42.6 -94 5.2
 2007:00, 2.6, 0.0 22 7.7 -98 3.5
 2051:00, 4.3, -0.5 21 33.4 -101 59.2
 2143:00, 4.9, -0.9 20 40.9 -105 14.8

1631:41

1632:10

1811:00 ^{x5}
₊₉

1754:20 - 1824:30 REPLACE DW2 W/DW3 DUE TO SEVERAL SPIKES X
 2124:25 - 2143:00 REPLACE DW2 W/DW1 DUE TO LARGE OSCILLATION X
 1639:25 - 1641:35 REPLACE RA159 W RA 232 DUE TO RA-159 NOT ON X
 2015:00 - 2128:00 ~~RA159~~ DIPS ARE A RESULT FROM OVERFLYING LAND X
 2135:24 - 2143:00 SET RA-159 → 0 DUE TO SPIKE X
 1813:00 - 1816:00 5 SPIKES PSF ✓ REMOVED - PATCHED X
 1824:00 - 1824:30 2 SPIKE PSF ✓ " " X
 1813:36 - 1814:30 2 SPIKES PQF1 ✓ REMOVED - PATCHED
 1829:41 - 1824:15 1 SPIKE PQF1 ✓ " "

5.75

①

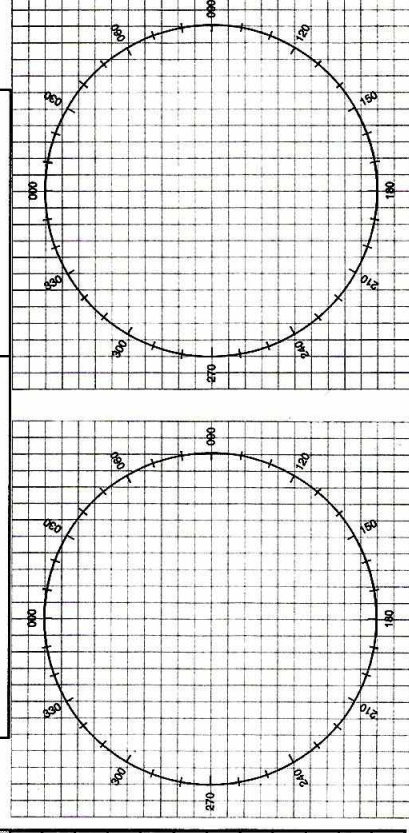

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
FERRY TO PUERTO V.
YYMMDDL FLT I.D.
970801H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
163121
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
214300
HHMMSS TAKE OFF TIME
163901
* 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
CO2973.CON
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POSITION REPORT

FREQ	ALT	HDG	OTHER
14N	108		RSW V7 DHP
			DHPAS09 EL10M UAS09
			CONAL WJ14 TAM
			W046 TFM J25 GOL
11342			WJ14 PVR
			MIAS MANAGE MARCE
	1838	2539	
	701		

[illegible][illegible]

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 AREA D 2 AIRCRAFT WITH

- WE ARE A P-3 AIRCRAFT
- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

ENDURANCE REMAINING