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

FLT ID: ~~970304H~~ EINN	FM: EINN	TO: KPVD
FLT NO: 97-028	BLK IN: 2018	ATA: 2011
ETD: 1000	BLK OUT: 0935	ATD: 0945
ETE: 10+00	BLK TIME: 10.7	FLT TIME:
SPONSOR ORG: NOAA	PROGRAM: FASTEX	PURPOSE: Transit

OAO PERSONNEL

AC KENNEDY, P ✓	SYS ENG LYNCH, T ✓
CP TAGGART, B ✓	DATA SYS McMILLAN, S ✓
NAV STRONG, T ✓	RADAR BARR, J ✓
FE TORREY, R/WADE, S ✓	DT/ODW OFFUTT, D ✓
RADIO ROGERS, M ✓	CLD PHYS
FD WHITE, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
SHEPHERD, T ✓	Science	NSSL
KINNEY, B ✓	Mech	AOC

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

1007.5 210/21G31

1515 140/9 10m 190 OCV 4/-1 30.39

1751 170/12 10 170 OVC 4/1 30.33

1900 "Y" 190/8 10 170 OVC 4/1 30.29↓

1025.3

2000Z " 180/8 10 190 OVC 4/2 30.25↓

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

FLT ID: 970301H TIME OFF: 0945 TIME ON: 2011

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1007.2	1007.5	1020.5	1025.3

	NO	DATA DISPOSITION/DATE/QUALITY
1/SEC FLT LVL TAPES	4	
FAST FLT LVL TAPES	4	
RADAR TAPES	4	
~~DOPPLER TAPES~~		
ODW CASSETTES		
HARD COPIES	4	305
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

FASTEX TRANSIT FLIGHT

FLIGHT #13 H970223

TYPE OF DATA	SENSOR OR OPTION
INE	1
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	PA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2971.CON

Notes:

There were four time/data gaps 1004:31 1004:50 1010:41 1010:50.

Downward spikes in radar altimeter data are a result of overflying land.

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	1007.7 mb	1020.5 mb
Corrected tower pressure	1007.5 mb	1025.3 mb

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

CI>

```
TITLE (MAX 21 CHARACTERS) -- EX  HURRICANE PAINE
FASTEX TRANSIT FLIGHT
YYMMDDL  FLT I.D.
970301H
HHMMSS START TIME   -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
094231
HHMMSS END TIME     999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
201500
HHMMSS TAKE OFF TIME
094500
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
13
* -------LOGICAL UNIT OF INPUT DATA (I1)  5, 8 OR 9 FOR TAPE DRIVE
8
* -------LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
8
* -------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
2
* --------- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* --------- DEWPOINT 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)
0
* ---------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
CO2971.CON
*****************************************************************
CI>
```

970301H

Start: 0942:~~00~~ 31
End: 2015:00

Bad Blocks
1004:31
1004:50
1010:41
1010:50

RA 159 w/232
0944:41-0945:10
2010:01-2015:00

RA 159 w/232
0944:41-0945:10
1620:01-2015:00

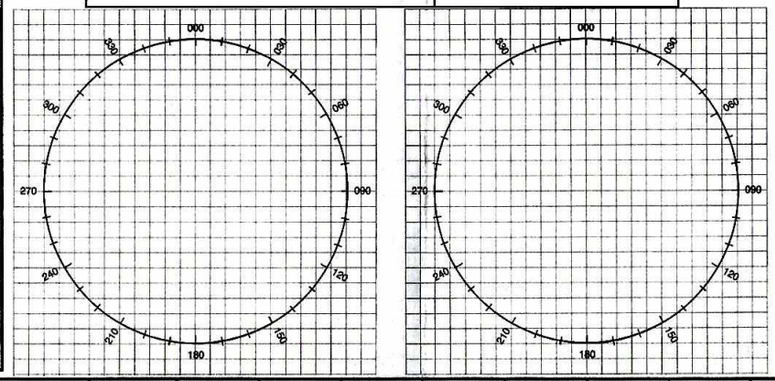
Form 413-50
- 63

970301H

Time	LA	LO	TA	TD	WD	WS							
0932							ENG		58.8K				
0935							BLK						
0945	LA	LO	TA	TD			TOFF						
1017	53 19.3	11 37.0	-21.1	-24.2	230	82.0	LEVEL 20K						
1232	56 4.4	27 14.8	-44.3	-62.1	200	17.3	LEVEL 24K						
1443	55 8.9	45 0.7	-52.4	-61.8	288	60.3	LEVEL 26K						
1527	54 1.2	49 59.4	-51.8	-60.5	276	58.8	~~D~~ > Gander						
1613	50 57.1	53 4.1	-48.4	-57.9	301	86.7	~~D~~ > PVD						
1624	50 36.8	54 1.8	-51.8	-62.6	304	90.9	LEVEL 28K						
2011							LND						
2018							BLK						

CLEARANCES			
FREQ	ALT	HDG	OTHER

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
THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N / S _____ E / W AT _____ Z
- 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 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
1023	G	53-27.5 12-14.0	53-27.3 12-14.0	+.2 0	53-27.2 12-14.2	+.3 -.2			275	14R	289	229	229	84	20.0	300	1	103	+27	1050	FM 1
1153	G	56-04.6 22-00.2	56-03.9 22-00.0	+.7 +.2	56-04.4 22-00.3	+.2 -.1			264	7R	271	262	218	53	20.0	300	3	247	1+02	1255	FM 1
1253	G	56-02.1 30-47.7	56-01.4 30-47.0	+.7 +.7	56-02.3 30-47.1	-.2 +.6			273	0	273	300	200	7	24.0	305	4		H02	1355	FM 1
1502	G	54-46.1 47-15.4	54-38.8 47-15.0	+7.3 +.4	54-41.7 47-13.5	-1.6 +1.9			255	6L	249	256	280	60	24.0	309	5			1526	FM 1
1800	G	46-51.7 62-46.3	46-49.0 62-44.2	+1.7 +1	46-56.9 62-35.5	-5.2 +9.8			252		234	255	300	100	28.0	310	PVD		2H0		FM 1
1907	G	43-54.0 67-52.4	43-50.4 67-53.4	+3.6 -1.0	44-00.5 67-41.5	-6.5 +10.9															
2015	V	41-43.9 71-25.5	41-39.3 71-27.1	+4.6 -1.6	41-52.0 71-11.7	-8.1 +13.8															

northstar Aviation