

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

FLT ID: 971002H	FM: CYVT	TO: CYVT
FLT NO: 98-01	BLK IN: 2136Z	ATA: 2128Z
ETD: 1245Z	BLK OUT: 1233Z	ATD: 1244Z
ETE: 2119Z	BLK TIME: 9:03 9.1	FLT TIME: 8:44 8.7
SPONSOR ORG: NOAA/AL	PROGRAM: NARE/OZONE	PURPOSE: FERRY HOME

OAO PERSONNEL

AC MCKIM, G	SYS ENG McMILLAN, S
CP TAGGART, B	DATA SYS MCNAMARA, R
NAV BATHBUN, D	RADAR
FE TORREY, R, BAST, G	BT/ODW
RADIO	CLD PHYS
FD CZYZYK, S	DOPPLER MCWHIRTER, DV

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HUBLER, G		
HUEY, G		
RYEASON, T		
FRIED, A		
KUSTER, B		
STROUD, C		
PARRISH, D		

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

RA-159 OUT AT TAKEOFF

DW#3. PROBS, MIRROR CLEARED WORKING AGAIN 1309Z 27 52

LYMAN ALPHA DIED 1315Z, UP AGAIN 1325Z 82 30

EVERYTHING IS FROZEN 1320Z -

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

FLT ID: 971002H

TIME OFF: 1244Z

TIME ON: 2128Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	995.4	29.87	1010.8	29.88

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

971002 H

TIME	LAT	ION	TK	HD	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
124400													TAK OFF THROUGH FOG / CLOUD TOP 1500
124445	47 35	52 41											LEVEL 4K
124825	47 24	52 48	209	206	12.7	10.1	178	25.8	1243	NA	872.6	NA	LEVEL 4K
1259													DESCEND
130513	46 37	53 32	217	212	15.0	14.6	172	27.4	908	906	909.0	1010.1	ALZ CAPE PINE
130612													CLIMB IN CLOUD
1323													
133010	46 20	55 18	257	246	-7.5	-10.1	209	69.1	4889	4909	548.4	992.9	LEVEL 16K
1333													SWIFT IN CLOUD + SNOW
140650	45 45	58 22	251	237	-11.1	-11.6	196	88.5	4957	4890	543.3	990.3	STILL CLING
1410000	45 41	58 38											IN CLEAR
141900													CLIMB
142340	45 25	59 43	258	248	-17.5	-38.1	210	66.0	5798	5693	485.0	987.2	LEVEL 17K
143445	45 17	60 44											DESCEND
143845	45 11	61 04	244	238	-11.5	-30.2	213	64.7	4965	4804	542.7	982.3	LEVEL 16K
144640	44 57	61 41											DESCEND
145005	44 53	62 01	256	251	-6.6	-46.1	223	47.6	3723	3599	638.9	994.1	LEVEL 12K
150450	44 36	63 15											DESCEND
150920	44 31	63 37	253	252	-8.2	-13.4	250	26.8	2480	2361	748.6	1005.6	LEVEL 8K
151815	44 20	64 19											DESCEND
152210	44 15	64 38	251	253	-1.7	-4.0	270	24.5	1234	1117	973.8	1003.6	LEVEL 4K
153410	44 01	65 31											DESCEND
153640	43 57	65 42	247	249	6.3	-0.5	289	15.0	251	186	982.6	1005.8	1K LEVEL
154325	43 45	66 09											300 FT ALZ
154940	43 23	66 17											CLIMB
155130	43 17	66 20	198	204	2.5	-1.2	283	20.0	645	625	938.1	1013.0	LEVEL 2K
160210	42 40	66 51											CLIMB
160845	42 17	66 47	199	204	0.4	-10.8	270	19.0	2450	2406	LEVEL	8K	CLOUD LAYER 4K
161700	41 47	66 00											DESCEND
162110	41 32	67 09	206	203	4.0	-0.4	305	14.6	633	637	939.5	1015.4	LEVEL 2K
163705	40 39	67 35											DESCEND
163940	40 37	67 43	216	220	9.3	-1.3	295	13.7	69	92	1005.1	1016.2	LEVEL 300
164715	40 08	68 00											CLIMB
164915	40 02	68 04	203	207	4.8	-1.7	303	21.6	617	640	940.9	1017.3	LEVEL 2K
170000	39 25	68 23											CLIMB
1702													CLOUD LAYER 4-5K
170435	39 11	68 34	234	241	2.6	-12.2	284	34.9	2467	2464	750.8	1010.1	LEVEL 8K
171725	38 41	69 22											DESCEND
172105													CLOUD TOP 4500
172430	38 26	69 49	236	239	7.9	3.0	320	14.8	624	653	941.3	1018.0	LEVEL 2K
173500													DESCEND
173710	37 50	70 26	212	215	13.6	4.8	341	11.0	49	91	1007.7	1018.3	LEVEL 300 FT
174710	37 19	70 50											CLIMB
174915	37 13	70 54	211	214	8.9	4.0	355	13.5	633	673	939.5	1018.5	LEVEL 2K
180500	36 24	71 35											DESCEND
180815	36 14	71 43	208	210	17.8	8.7	358	11.8	51	84	1007.0	1017.7	LEVEL 300 FT
181735	35 45	72 07											CLIMB
181950	35 39	72 13	219	220	13.0	6.8	19	11.2	610	657	941.7	1017.9	LEVEL 2K
183315	34 58	72 50											DESCEND
183515	34 52	72 55											300 FT
184240	34 26	73 10	206	207	7.8	-32.7	347	3.4	2455	2528	751.1	1012.2	LEVEL 8K
1851													SWIFT CLOUD
190215	33 22	74 00											CLIMB
191100	32 57	74 30	227	229	-6.6	-32.6	255	11.6	4899	5001	547.6	1012.1	LEVEL 16K

971002H

[illegible]

FERRY TO TAMPA

Flight #13 H971002

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	2
Altitude (for vertical wind)	RA-232
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2974.CON

Notes:

Dips in radar altimeter were due to overflying land (1243:00-1309:00 and 1521:00-1543:00).

There were two (2) time gaps 2106:21-2106:30 and 2107:01-2116:40.

Dewpointer #2 (DW2) was frozen 1535:59-1605:00 and 1618:45-1721:00 and was replaced by DW1. DW1 was frozen intermittently (1228:00-1243:00).

Dewpoint exceeded ambient temperature due to heavy precipitation.

Lyman Alpha Hygrometer was frozen 1320:00-1415:00 due to icing.

Heavy icing 1300:00-1410:00 may have degraded some of the instrumentation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	995.4	1010.8
Corrected tower pressure	1011.5	1011.9

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

TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE

FERRY TO TAMPA

YYMMDDL FLT I.D.

971002H

HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
124001

HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
213300

HHMMSS TAKE OFF TIME
124400

* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
13

* -----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
2

* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
2

* ----- 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)
2

* -----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

971002A

RENAV

SMALL TIME GLITCH FIXED
NO DATA LOSS

132600, -0.2, 0.1	46 22.8	-54 57.3
141800, 0.0, 0.2	45 30.5	-59 15.3
151000, 0.1, 0.5	44 29.7	-63 40.5
155700, 0.1, 0.6	42 58.5	-66 28.2
164500, 0.4, 0.2	40 15.2	-67 54.9
173100, 0.7, 0.4	38 8.0	-70 8.8
181500, 1.2, -0.4	35 52.6	-71 59.0
191200, 1.8, -0.5	32 54.0	-74 33.8
200400, 2.8, -1.3	30 7.8	-77 32.1
205500, 3.7, -1.9	28 7.4	-80 48.0
213600, 3.9, -1.5	27 50.9	-82 29.6

1953:42

44

45

46

48

50

52

54

55

56

57

58

59

1954: 00

2106:20

BAD BLOCK

2106:21

2106:30

2107:01

2116:40

RA-159 BROKE

RA-272 HAS DIPS DUE TO OVERFLYING LAND

1243:00 - 1309:00 X

1521:00 - 1543:00 X

DW2 (1+3) ICED MAY BE EMBEDED

1325:00 - 1412:00

DW2 FROZEN REPLACE W/DW1

1535:59 - 1605:00 X

1618:45 - 1726:00 X

BPR FROZEN 1325:00 - 1523:00

APR FROZEN 1325:00 - 1523:00

HEAVY ICING 1300:00 - 1410:00 X

LW DIED 1320 - 1415 X

DATE : 10/2/97

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N42RF ON 2136 BLOCKTIME

OFF 1233 9.1

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: NARE/OZONE

Hazardous Duty Pay is required for flight made on 10/2/97
(DATE)

Request based on HAZARDOUS GASES/CHEMICALS ONBOARD

Personnel on board authorized Hazard Pay:

<u>CZYZYK, S</u>	
<u>MCWHIRTER, D</u>	
<u>MCNAMARA, R</u>	
<u>McMILLAN, S</u>	
<u>TORREY, R</u>	
<u>BAST, G</u>	

PILOT/FLIGHT DIRECTOR: [Signature]

APPROVED: _____ DISAPPROVED: _____

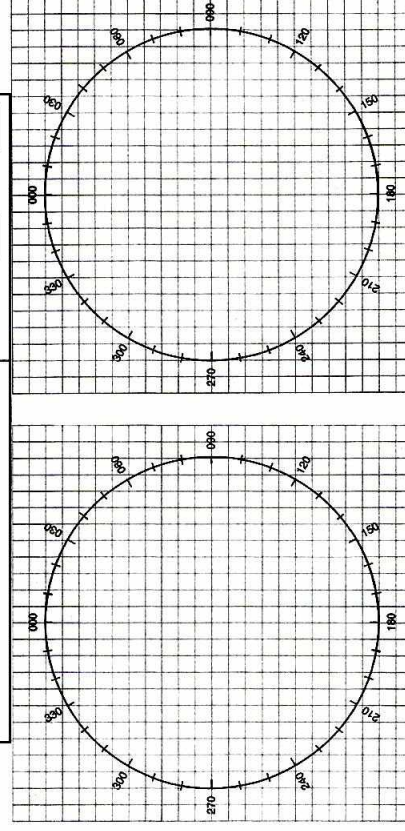
CHIEF, AOC FLIGHT OPERATIONS: _____

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
THIS IS 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

[illegible]