

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

FLT ID: 970920H	FM: CYT	TO: CYT
FLT NO: 97-054	BLK IN: 2121Z	ATA: 2114Z
ETD: 1130Z	BLK OUT: 1138Z	RTD: 1143Z
ETE: 2030Z	BLK TIME: 9.43 9.7	FLT TIME: 9:31 9.5
SPONSOR ORG: NOAA/AL	PROGRAM: NARE/OZONE	PURPOSE:

OAO PERSONNEL

AC MCKIM, G ✓	SYS ENG McMILLAN, S ✓
CP TAGGART, B ✓	DATA SYS MCNAMARA R ✓
NAV RATHBUN, D ✓	RADAR
FE BAST, G	BT/ODW
RADIO	CLD PHYS
FD CZYZK, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HUBLER, G ✓		
JAKOUBEK, R ✓		
FRIED, A ✓		
HENRY, B ✓		
KUSTER, B / NEUMAN, A ✓		
RYERSON, T ✓		
MACKEY, M ✓		
WILLIAMS, J ✓		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
 Plot TA, TP, PA 1415Z-1425Z

TIME ON: 21147

WX STN

DATA	DISPOSITION	DATE	QUALITY
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

ODW

VERT

RATE

REMARKS

OUTFLOW SE

Flight #8 H970920

<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	CO2974.CON

Notes:

Radar altimeter (RA-159) had a spike at takeoff 1143:33-1144:18 and was replaced by RA-232. RA-159 was set to zero at landing (2113:27-2117:00). Dips in RA-159 were due to overflying land (1149:00-1159:00, 1205:00-1223:00, 1225:00-1228:00, and 2047:00-2104:00).

Dewpointer #2 (DW2) was frozen 1831:00-1838:30 and was replaced by DW3.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	994.6	990.6
Corrected tower pressure	1011.2	1008.1

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

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970920H

TIME	LAT	LONG	TK	HD	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
192600													
193130	44 27	56 09	297	287									LEVEL SK
193440	44 32	56 22											CLIMBT
194130	44 43	56 53	297	291	17.3	16.6	228	25.0	202	178	988.1	1009.9	9K ✓
1940-													LEVEL 600 FT
195030	45 00	57 30											IN + OUT CLOUD
195045													ALS TURN + CLIMB
201125	45 51	55 31	60	57	-20.6	-24.7	258	53.4	7332	7618	800 FT-1000 FT TOP	1002.9	OUT OF CLOUDS
202535	46 31	53 49											LEVEL 24 K
207800	46 37	53 31	003	356	14.7	12.7	228	35.8	1121	1056	884.3	999.6	✓ + CIRCLE BAPE PINE + LEVEL

970920 H

RENAV

134800	0.3, -0.1	44	54.0	-57	2.1
142500	0.0, 0.0	43	38.7	-54	2.4
150300	0.0, -0.2	42	20.0	-51	9.9
155000	-0.6, 0.7	40	30.7	-47	38.7
162700	-0.7, 0.3	39	4.9	-45	9.9
171300	-1.0, 1.3	39	48.7	-46	25.7
175600	-1.3, 0.5	41	22.9	-49	22.8
184300	-1.2, 1.6	42	56.0	-52	37.9
192700	-1.9, 0.9	44	19.2	-55	48.0
201600	-1.5, -1.9 1.9	46	4.1	-54	58.7
204900	-1.9, 1.6	46	41.0	-53	30.2
212100	-1.2, 3.2	47	37.3	-52	44.2

RA-159 SPIKE @ TAKEOFF REPLACE W/232 ~~1143:33~~ 1144:48 X
 RA-159 ~~DTRG OVERFLIGHTING LAND~~ 2113:27 - 2121:00 X
 RA-159 SPIKE @ LANDING SET TO ZERO FROM $\nearrow$
 OIPS 1149:00 - 1159:00 X
 1205:00 - 1223:00 X
 1225:00 - 1228:00 X
 2047:00 - 2104:00 X
 PQFZ SPIKE. 1828:01 - 1829:06
 DWZ FROZEN 1831:00 - 1838:30 REPLACE W/DW3 ✓

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
OUTFLOW SE
YYMMDDL FLT I.D.
970920H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
114001
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
211700
HHMMSS TAKE OFF TIME
114300
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
8
* -----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
CO2974.CON
*****

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Science Cove

9/20/97

jabonber, R

~~11~~ Fried, A

HENRY HENRY, B

length, B

Alkuman, A

Ryerson, T

Hübner, G

Mackey Mackey, Mike

Williams, D.

13-782	500 SHEETS, FILLER	5 SQUARE
12-381	50 SHEETS EYE-EASE	5 SQUARE
12-382	100 SHEETS EYE-EASE	5 SQUARE
12-389	200 SHEETS EYE-EASE	5 SQUARE
12-392	100 RECYCLED WHITE	5 SQUARE
12-399	200 RECYCLED WHITE	5 SQUARE



11/10/19

Week 2

1. Introduction

2. ~~Background~~

3. ~~Methodology~~

4. ~~Results~~

5. ~~Conclusion~~

6. ~~References~~

7. ~~Appendix~~

8. ~~Summary~~

9. ~~Final Report~~

DATE : 9/22/97
TO : Chief, AOC Flight Operations
FROM : Pilot/Flight Director, Aircraft N42RF ON 2121 BLOCKTIME
SUBJECT: Hazardous Duty OFF 1138 9.7

PURPOSE OF FLIGHT: NARE / OUTFLOW SE

Hazardous Duty Pay is required for flight made on 9/20/97
(DATE)

Request based on HAZARDOUS GASES + CHEMICALS ONBOARD

Personnel on board authorized Hazard Pay:

C2424K, S

MCMILLAN, S

MCNAMARA, R

BAST, G

PILOT/FLIGHT DIRECTOR: Stanley Smith

APPROVED: _____

DISAPPROVED: _____

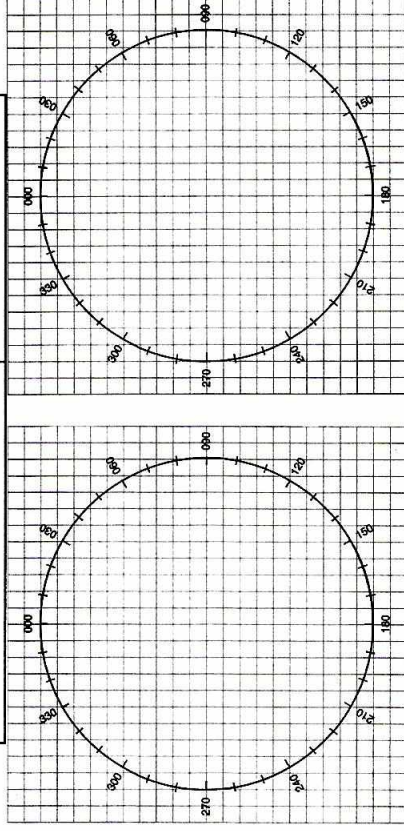
CHIEF, AOC FLIGHT OPERATIONS: _____

CLEARANCES

FREQ	ALT	HDG	OTHER
			1719Z 240/20 V15
			667 13005CAT 12KOVNR
			1700Z 230/15 V6+
			5K5C 12K6NR
			1700-0000 LT RAIN
			0000 230/15 35
			6+ 2KOVNR
			0000-0300 3V 1KOVNR

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

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE _____

T	DIST	TIME
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3	5	5
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DATE	DESCRIPTION	AMOUNT	TOTAL
10/1/20	TAXI	10.00	10.00
10/2/20	TAXI	10.00	20.00
10/3/20	TAXI	10.00	30.00
10/4/20	TAXI	10.00	40.00
10/5/20	TAXI	10.00	50.00
10/6/20	TAXI	10.00	60.00
10/7/20	TAXI	10.00	70.00
10/8/20	TAXI	10.00	80.00
10/9/20	TAXI	10.00	90.00
10/10/20	TAXI	10.00	100.00
10/11/20	TAXI	10.00	110.00
10/12/20	TAXI	10.00	120.00
10/13/20	TAXI	10.00	130.00
10/14/20	TAXI	10.00	140.00
10/15/20	TAXI	10.00	150.00
10/16/20	TAXI	10.00	160.00
10/17/20	TAXI	10.00	170.00
10/18/20	TAXI	10.00	180.00
10/19/20	TAXI	10.00	190.00
10/20/20	TAXI	10.00	200.00
10/21/20	TAXI	10.00	210.00
10/22/20	TAXI	10.00	220.00
10/23/20	TAXI	10.00	230.00
10/24/20	TAXI	10.00	240.00
10/25/20	TAXI	10.00	250.00
10/26/20	TAXI	10.00	260.00
10/27/20	TAXI	10.00	270.00
10/28/20	TAXI	10.00	280.00
10/29/20	TAXI	10.00	290.00
10/30/20	TAXI	10.00	300.00
10/31/20	TAXI	10.00	310.00
11/1/20	TAXI	10.00	320.00
11/2/20	TAXI	10.00	330.00
11/3/20	TAXI	10.00	340.00
11/4/20	TAXI	10.00	350.00
11/5/20	TAXI	10.00	360.00
11/6/20	TAXI	10.00	370.00
11/7/20	TAXI	10.00	380.00
11/8/20	TAXI	10.00	390.00
11/9/20	TAXI	10.00	400.00
11/10/20	TAXI	10.00	410.00
11/11/20	TAXI	10.00	420.00
11/12/20	TAXI	10.00	430.00
11/13/20	TAXI	10.00	440.00
11/14/20	TAXI	10.00	450.00
11/15/20	TAXI	10.00	460.00
11/16/20	TAXI	10.00	470.00
11/17/20	TAXI	10.00	480.00
11/18/20	TAXI	10.00	490.00
11/19/20	TAXI	10.00	500.00
11/20/20	TAXI	10.00	510.00
11/21/20	TAXI	10.00	520.00
11/22/20	TAXI	10.00	530.00
11/23/20	TAXI	10.00	540.00
11/24/20	TAXI	10.00	550.00
11/25/20	TAXI	10.00	560.00
11/26/20	TAXI	10.00	570.00
11/27/20	TAXI	10.00	580.00
11/28/20	TAXI	10.00	590.00
11/29/20	TAXI	10.00	600.00
11/30/20	TAXI	10.00	610.00
12/1/20	TAXI	10.00	620.00
12/2/20	TAXI	10.00	630.00
12/3/20	TAXI	10.00	640.00
12/4/20	TAXI	10.00	650.00
12/5/20	TAXI	10.00	660.00
12/6/20	TAXI	10.00	670.00
12/7/20	TAXI	10.00	680.00
12/8/20	TAXI	10.00	690.00
12/9/20	TAXI	10.00	700.00
12/10/20	TAXI	10.00	710.00
12/11/20	TAXI	10.00	720.00
12/12/20	TAXI	10.00	730.00
12/13/20	TAXI	10.00	740.00
12/14/20	TAXI	10.00	750.00
12/15/20	TAXI	10.00	760.00
12/16/20	TAXI	10.00	770.00
12/17/20	TAXI	10.00	780.00
12/18/20	TAXI		

[illegible]