

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

FLT ID: 970402H	FM: KPAX	TO: KPAX
FLT NO: 97-035	BLK IN: 2140Z	ATA: 2128Z
ETD: 1500Z	DLK OUT: 1502Z	RTD: 1516Z
ETE: 2100Z	BLK TIME: 6:38 6.7	FLT TIME: 6:12 6.2
SPONSOR ORG: NESDIS	PROGRAM: ADEUS	PURPOSE: ^{SAI} OVERFLIGHT

OAO PERSONNEL

AC MCKIM ✓	SYS ENG PRADAS ✓
CP KENDL ✓	DATA SYS SMITH ✓
NAV STRONG	RADAR
FE MORREY TORREY ✓	DT/ODW
RADIO ROGERS MCWHIRTER ✓	CLD PHYS
FD CZYZYK ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
WILKERSON	PI	NESDIS
CHANG	SCIENTIST	↓
DONNELLY ✓	↓	UMASS
CARSWELL	↓	↓
LI	↓	↓
BANCROFT, G ✓	↓	NMC
BOWMAN ✓	↓	↓

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

1600Z	CALANCE/CALIBRATE	#DW3
1601Z	"	"
1621Z	"	#DW2
	"	#DW1

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

FLT ID: 97024

TIME OFF: 1516Z

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1022.9	30.26	1018.8	30.13

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

GPS

7

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

ADEOS 1997

Flight #2 H970402

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2972.CON

Notes:

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

Radar altimeter (RA-159) had a spike at takeoff (1516:33-1516:43), the spike was removed and patched. RA-159 was set to zero after landing due to a spike (2127:50-2131:00).

Dewpoint (DW1) was balanced and patched from 1620:50-1623:00. DW1 was replaced by DW3+2 from 1620:20-1622:30.

Dewpoint #1 (DW1) exceeded ambient temperature several times due to precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1022.9	1018.8
Corrected tower pressure	1024.7	1020.3

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

970402H

TIME	LOT	LON	TK	HD	TA	TD	WD	WS	PA	GA	SP	PS	REMARKS
151630													TAKE OFF
152600	3819	7543	78	70	2.1	-29.2	353	34.1	1413	1478	852.8	1022.9	SK
153900													BUOY 41009
155336	3815	7343	105	94	-0.2	-34.3	356	40.2	1463	1499	894.4	1021.2	DROP 1
15552													OVER PASSES
161058	3805	7225	69	59	-2.4	-34.1	345	43.3	1478	1481	848.1	1019.8	DROP 2 BAD
161221	3807	7226	68	59	-3.6	-23.8	344	38.1	1477	1483	848.0	1019.7	DROP 3
162100													BALANCE OPTR
163530	3836	7243	66	58	-6.6	-19.9	346	36.2	1526	1494	842.6	1016.5	BUOY 414004
170315													START PATTERNS
171335	3905	6846	342	343	-7.0	-23.0	343	52.7	1580	1498	837.3	1010.9	DROP 4
180728	3751	6945	215	224	-5.3	-21.8	342	32.7	1580	1525	837.9	1013.9	DROP 5
182607	3651	7043	219	228	-7.7	-26.8	343	34.5	1570	1552	837.6	1016.7	DROP 6
184620	3546	7141	216	225	-2.0	-4.2	325	34.6	1497	1510	846.0	1019.6	DROP 7
190627	3440	7238	228	239	2.0	-16.4	341	42.3	1496	1523	846.3	1019.8	BUOY 41001
191956	3441	7239	140	137	1.4	-22.8	345	41.7	1490	1529	846.5	1019.9	BUOY 41001
193521	3442	7234	47	41	0.1	-20.7	340	29.2	1495	1531	845.9	1019.5	BUOY 41001
194935	3441	7237	318	321	2.3	-26.1	324	32.3	1481	1515	847.1	1020.0	BUOY 41001
201416	3535	7347	321	323	2.8	-19.3	335	38.4	1485	1531	846.9	1020.4	GULF STREAM
202511	3601	7416	313	319	3.3	-15.8	345	41.0	1486	1536	847.1	1020.5	GULF STREAM
203933	3634	7456	311	317	3.1	-16.4	353	28.9	1484	1541	847.2	1021.7	BUOY 44014

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
ADEOS - FLIGHT #2
YYMMDDL FLT I.D.
970402H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
151301
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
213100
HHMMSS TAKE OFF TIME
151600
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
02
* -----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]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDY)
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
* ----- 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)
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
CO2972.CON
*****
CI>

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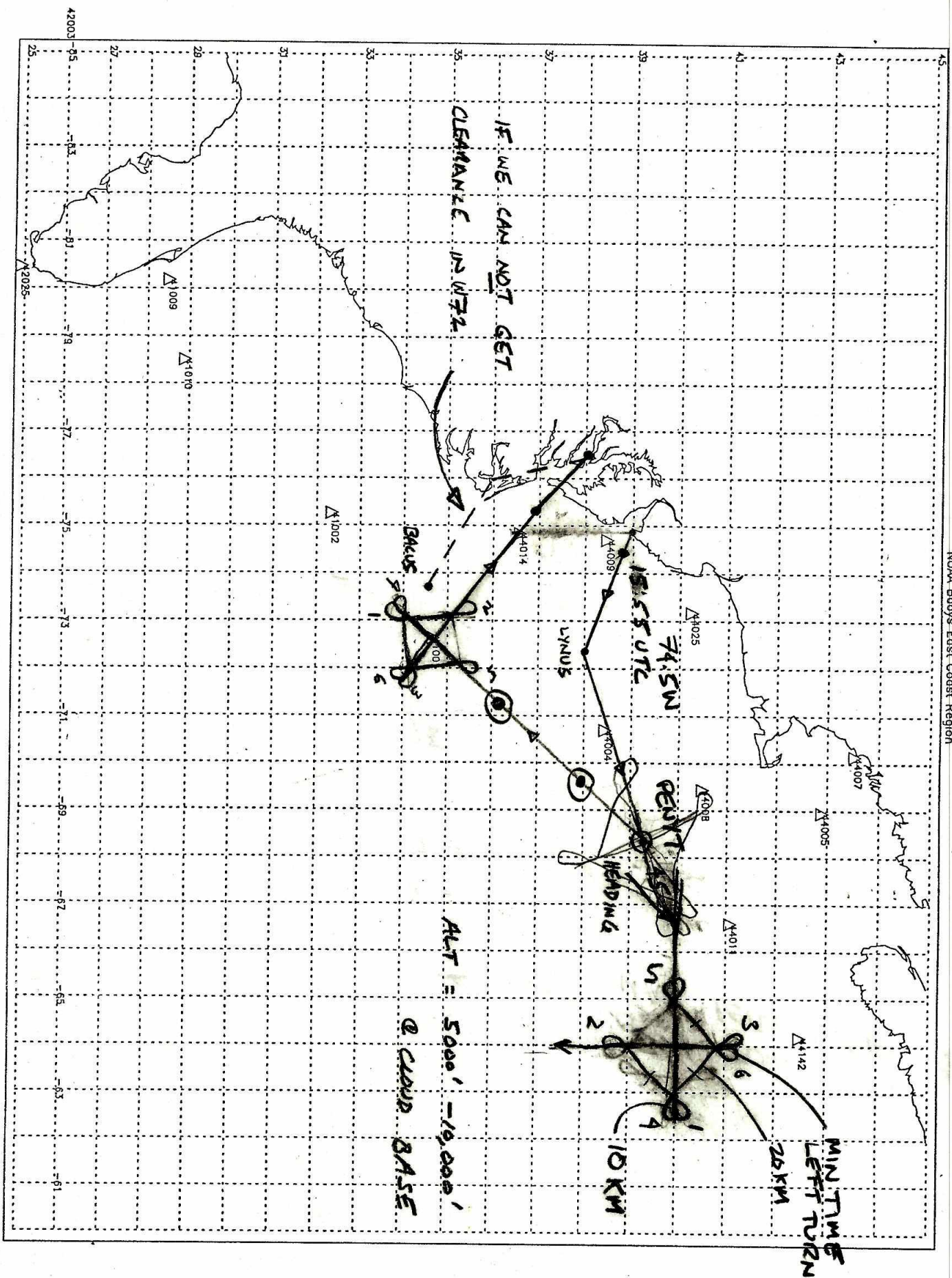
H970402

RENAV

165500, -1.3, -0.2	38 59.9 -69 17.2
180700, -3.1, 1.2	37 53.6 -69 44.5
185200, -3.6, 1.4	35 26.9 -71 57.1
205600, -4.6, 3.0	37 10.7 -75 49.6
213100, -5.3, 1.8	38 17.1 -76 25.1

RA-159 SPIKE @ TAKEOFF 1516:33 - 1516:43 PATCHED ✓
@ LANDING 2127:50 - 2131:00 SET TO ZERO ✓

BALANCE OPTR 1620:50 - 1623:00 PATCHED ✓
✓ PATCHED 1620:20 - 1622:30 DW1 = DW3 + 2 ✓
GLITCH SPIKE IN PRFZ @ 1614:50 - 1615:20



LEFT TURN
MAX
PERFORMANCE

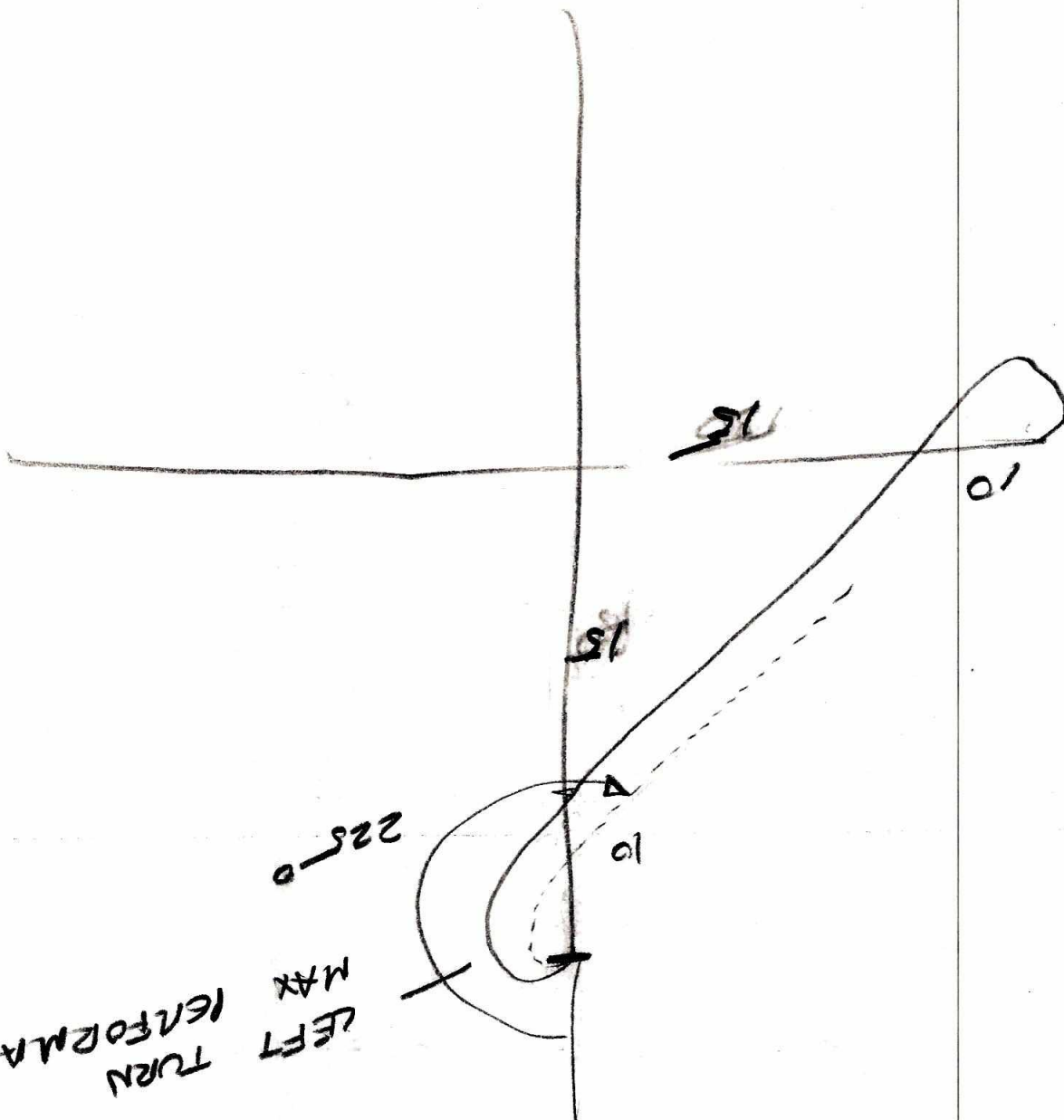
225°

10

15

10

15

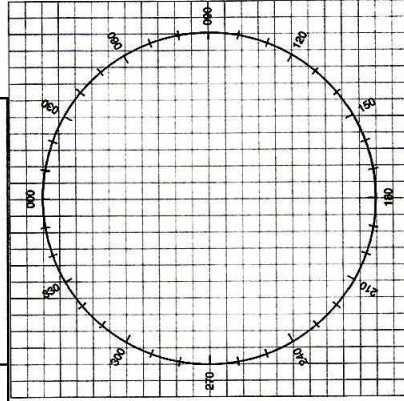


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PAGE ____ OF ____

POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION



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 V

- NATURE OF EMERGEN

- ASSISTANCE DESIRÉE

- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

[illegible]