U.S. Dept of Commerce / NOAA / Aircraft Operations Center AOC WP-3

Flt ID: H010922	From: KMCF	To: KMCF
Flt No: 01 - 43	Blk In: 0043Z	ATA: 0033Z
ETD: 1530Z	Blk Out: 1531Z	ATD: 1551Z
ETE:	Blk Time: 9:12 (9.2)	Flt Time: 8:42 (8.7)
Sponsor Org: NASA	Program: CAMEX	Purpose: FLY ~~TO~~ TO TS HUMBERTO

AOC Personnel

AC: TENNESEN	Sys Eng: DELGADO
CP: TAGGART	Data Sys: McMILLAN
Nav: NEWMAN	Radar:
FE: BAST	GPS/BT: CARPENTER
FD: D'AMIANO	Cld Phys:
Avionics: ROGERS	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, M	PI	HRD
BLACK, R	PMS	
GAMACHE, J	RADAR	
MARKS, F	ASST. PI	
DODGE, P	RADAR	
GOLDENBERG, S	HAPS	
LANDSEA, C	OBS	
HUDSON, J	CCN	DRI

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

305-218-8218 (ANTHONY ER2)

Bal DW1 1623Z, 2146Z

Bal DW2 1624Z,

AF fix 1824Z
28°40' 66°43' 998mb

1819Z 29°16', inbound 68°25-
1855Z 28°56', 66°38'

AF 2011Z 28°50', 66°44' 998mb

1940Z 29°00', 66°44'

Teal 44
18Z NHC fix, KLWC went out
28°30' 67°00'
Sat on taxiway for 1 hr after landing until thunderstorm passed the field

U.S. Department of Commerce / NOAA / Aircraft Operations Center

Flt ID: H010922	Time Off: 1551Z	Time On: 0033Z

	A/C (Takeoff)	Wx Station (Takeoff)	A/C (Land)	Wx Station (Land)
Pressure	1016.4	30.03	1015.0	

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes	1	
Video Tapes	4	
AXBT	18	
AXCP		
AXCTD		
Dropsondes	21	

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

CAMEX (TD #10)

Flight #1 010922H

Sensor or system	Number or Name
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	RA159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2012.CON

Notes:

There was one time/data gap: 192621Z - 192640Z.

Several small spikes were noted in the output from fuselage static pressure, PSF, during the following periods: 1707Z - 1712Z and 1845Z - 1850Z. The spikes were removed and patched over.

The dynamic slip pressure (DBP) output experienced some problems during the period 212835Z - 213045Z. Corrections were made to the data using the following equation,

DBP = PQF1 + 6.5, where PQF1 is fuselage dynamic pressure

During periods of heavy precipitation, the dewpoint temperature, TD, was greater than ambient temperature, TA.

The King Liquid Water probe stopped working at 20:13:20Z.

All other instruments worked optimally during the flight.

	Takeoff	Landing
Aircraft static pressure	1016.4mb	1015.1mb
Corrected tower pressure	1016.5mb	1015.7mb

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 Director: A. Barry Damiano, (813) 828-3310 ext. 3073

1705 35 53 → 40

Flight ID: [redacted] H010922

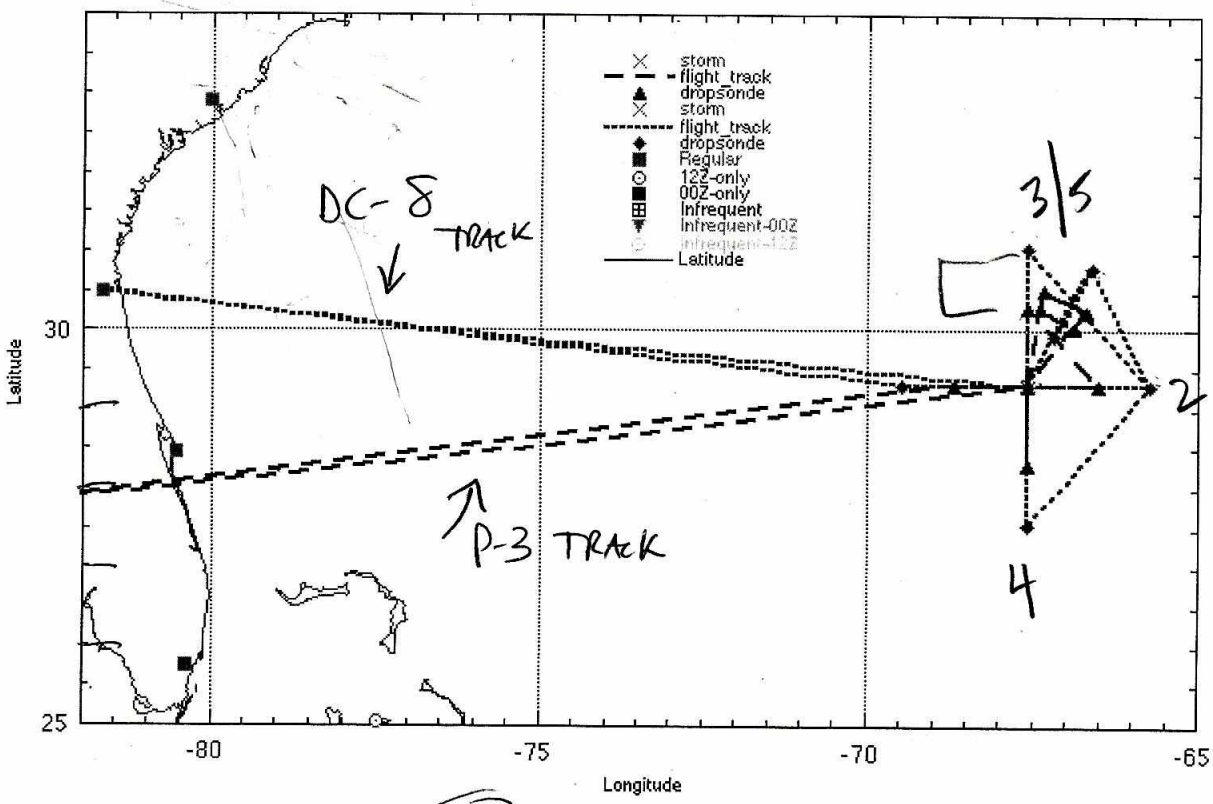
U.S. Dept. of Commerce/NOAA/Aircraft Operations Center — Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
161600	2804	8042	72	74	198	5	-2.0	-5.2	4547	4816	1017.7	573.7	76.9	ABV CLD
163200	2819	7920	79	82	191	5	-1.4	-33.3	4671	4959	1016.9	563.7	69.1	CLR
172100	2847	7508	84	85	38	3	-1.7	-19.6	4737	5027	1016.5	559.4	79.7	CLR
175900	2904	7153	87	87	28	4								CLR
181000	2901	7046	95	95	36	5	-4.1	-13.4	5033	5326	1015.3	537.9	82.4	CLR
183700	2851	6816	92	91	333	11	-3.8	-10.3	5031	5322	1013.5	537.9	84.9	BLW CLD
184259	2850	6741	91											XBT
184308	2850	6741	81	88	9	19	2.5	-3.6	4509	4522	1009.1	595.3	94.9	(54) DROP
185050	2849	6658												XBT
185056	2848	6658												(11) DROP
185831	2857	6623			171	39								XBT
190656	2858	6541			183	31								(38) DROP
190700	2858	6541			182	30								XBT
190828	2902	6539												80 DROP
190840	—													(24) DROP
192500	2956	6643												XBT
192503	2956	6643												(21) DROP
192800	2956	6640	184	185	101	25	2.7	1.1	3761	3957	1014.0	635.9	77.8	DTN CLD
193735		6643												XBT
39	2914	6643												(40) DROP
194005				CNTR										XBT
1940??	2900	6644												DROP
195017	2819	6646												XBT
195020	2819	6646												(15) DROP
195628	2840	6648												XBT
195630	2840	6648												(26) DROP
200734	2922	6635												(23) DROP
201718	2932	6622	47	55	136	34	4.1	5.9						NO PTH (56) DROP
203639	2909	6611												XBT
203642	2909	6611												NO W DROP
205936	2923	6614												XBT
204346	2943	6614												(28) DROP
204350	2943	6614												XBT
20430														— DROP
204838	2940	6634												XBT
204843														DROP
205542	2914	6645												(25) DROP

Flight ID: H010922

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center — Form 414-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
210800	2853	6603	87	93	206	25	5.2	3.6	3771	3953	1008.5	635	71	BTN CLD
211938	2935	6618			132	49								(25) DROP
212120	2942	6624												(60) DROP
212552	3000	6635	332	335	115	19	4.0	3.9	3746	3947	1012.7	637.0	76.4	(22) DROP
213111	3021	6649												XBT
213118	3021	6649	329											(9) DROP
213543	3039	6701	329	334	66	21								XBT
214010	3058	6713												XBT
214415	3115	6728	275	277	59	13	-6.4	-35.3						XBT
215044	3110	6806	262	263	55	12	-6.5	-23.1						XBT
220700	3057	6943	260	262	358	13	-6.8	-24.2	5634	5970	1013.1	496.0	85.7	[redacted] CLD ABV
223800	3030	7245	259	261	350	7	-6.8	-37.6	5634	5969	1013.6	495.9	86.4	CLR
232700	2937	7728	255	256	334	3	-7.1	-36.5	5632	5971	1014.8	496.0	88.5	CLR



TEAM 44

(DC-8) 1630Z FROM KNIP (NAS JAX)

TAKEOFF – (P3) 1530Z FROM MACDILL (KMCF) AFB

ALTITUDE OUT ≈ 15000'

ALTITUDE IN ≈ 16-18,000'

SQUAWK FOR P-3: I'LL CALL IT IN

ETA FOR P-3 IN THE VICINITY OF HOBEE INTERSECTION ≈ 2300Z

P-3 CALL SIGN NOAA 43

DC-8 CALL SIGN NASA 817

ER-2 NASA 809

NASA 817 IP 69°28'

29°19' 67°35'

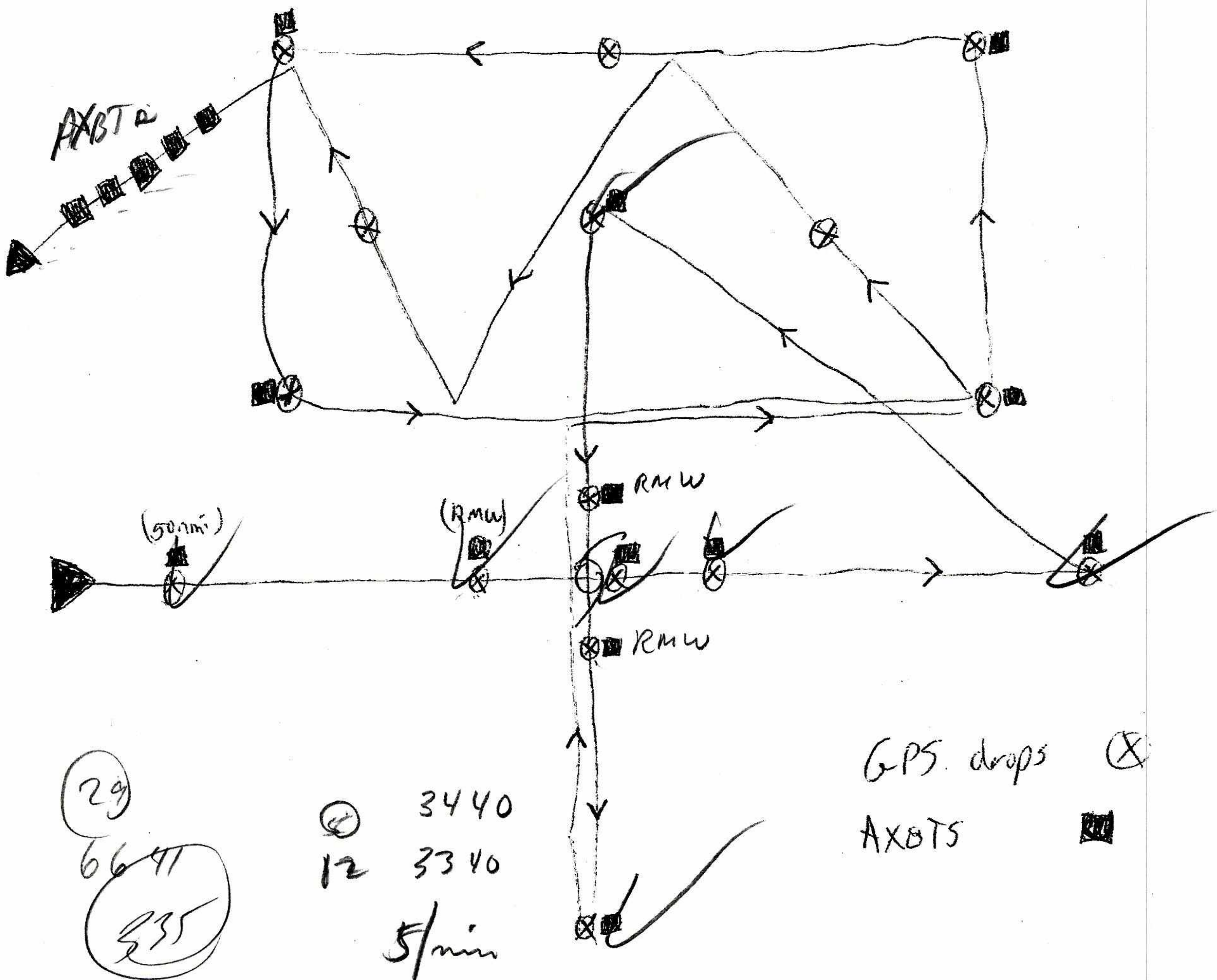
1831Z

3010 N

7510 W

1832 IP

28°44'



29

66 41

335

⊗ 3440

12 3340

5/min

045/50NM

23/0030Z

N42RF AVAPS DropSonde Log

N42RF Project: INVEST Flight ID 090922H

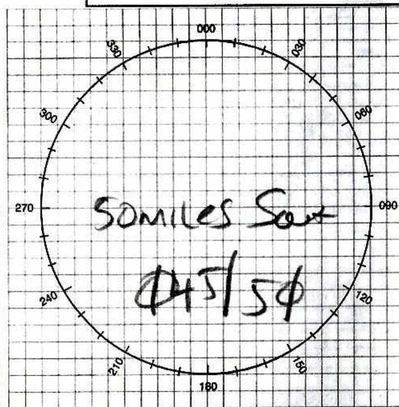
Mission: TD# 10 Flight #: System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☑
1	003 115 194	1	1843	0	54	DWC	OK	✓
2	003 338 084	2	1858		11			✓
3	011 245 403	3	1858		38			✓
4	011 245 178	4	1906		20		delayed launch slotted	
5	003 338 033	1	1908		24		Pickup for drop 4	✓
6	003 135 323	2	1925		21			✓
7	003 338 083	3	1937		40			✓
8	990 845 041	4	1940		24			✓
9	003 438 031	1	1950		15			✓
10	990 415 369	2	1956		26		Weak telemetry	
11	010 748 080	3	2007		23			✓
12	003 115 310	4	2011		56			✓
13	003 475 091	1	2036			MEK	No wind	
14	003 115 204	2	2039		28			—
15	003 115 056	3	2043		30			—
16	003 115 243	4	2048		70			—
17	003 438 005	1	2055		25			—
18	003 148 147	2	2119		35			—
19	010 748 068	3	2121		60		# 20 SKIPPED one #	—
20	003 148 135	4	2125		27		# 21	—
21	003 338 086	1	2131		9		# 22	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
33								

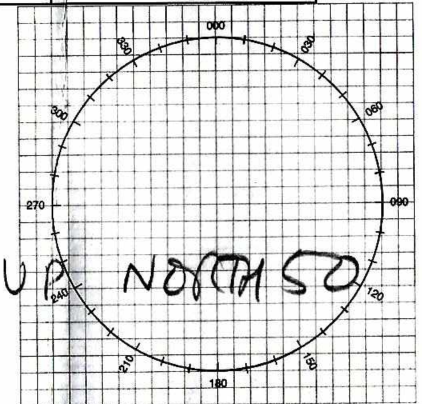
~~299~~ ~~7824~~ 92Y NOAA42

CLEARANCES			
FREQ	ALT	HDG	OTHER

MISSION LOG PAGE ___ OF ___



UP



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 58.0
1531	TAXI																				TAXI 30.03
1554	TOFF																				
1708	A	2842N 7611W	28 41.5 76 10	+.5 +1	2842 7611	0 0	093	7W	086	2L	84	277	160	3	155	277					
1820																					43.1K 25
1824		AF	FIX @		1500'			998	MB												1824 2840
1855			28	56N		66	38W					2850			6640	EYE 4	PASS TO NASA				EYE
2036																					32.1K
2114	Δ	29 06.8 65 59.5	29 03.8 65 57.6	+3.0 +1.9	29 05.0 65 59.4	+1.8 +1			328		328	290	162	27		26					2011 2850N 6644W
2333	Δ	29 29.9 78 05.7	29 25.8 078 03.4	+4.1 +2.3	29 26.3 78 06.5	+3.3 -.8	265	7W	258	0	258	311	182	2	185	312					52 KNOTS
0033																					LAND
0043																					BLOCK

57 ... 6643