

FLT ID: H000516	FM: KMCF	TO: KMCF
FLT NO: 00-407	BLK IN: 2007	ATA: 2000
ETD: 1300Z	BLK OUT: 1330Z	ATD: 1342Z
ETE: 2000Z	BLK TIME: 6.6 6:37	FLT TIME: 6.3 (6:18)
SPONSOR ORG: NSF	PROGRAM: FLA BAY OCEAN REMOTE SENSING	PURPOSE: oil spills over FLA BAY

DAO PERSONNEL

AC TAGGART ✓	SYS ENG
CP O'MARA ✓	DATA SYS McMILLAN ✓
NAV ADLER ✓	RADAR
FE MOORE ✓	BT/ODW CARPENTER ✓
RADIO	CLD PHYS
FD DAMIANO ✓	DOPPLER
SHEPHERD ✓	

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
FEDORE ✓	PI	ETL
FALLS ✓	ASST. PI	ETL
IRISOV ✓	ASST. PI	CIRES (CU)
EUBANK ✓	OZONE	
MILLER ✓	OZONE	

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

NO J-W, KING not working right - 135 - 117-150
 BAL DWI 1354Z TT.2 > TT.1 by .5 at 10K at 113 PQ

135506
 DWI click

LUG
 2 ERR

U.S. DEPT. COMM./NOAA/ORO - DATA SECTION WORK FORM NO.2 DROWFZ FILE

FLT ID: 14000516 TIME OFF: 1342Z TIME ON: 2000Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1017.3	30.07 / 1017.8	1014.6	30.00 ^{1015.4}

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

2

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

H000516

TIME	LAT	CON	TRK	HD	WD	WS	TA	TD	PA	GA	SP	PS			
135300	2742	8241	260	265	351	21	6.0	-17.4	3027	3187	1017.6	698.6	CLR	103.7	
141500	2824	8408	312	315	82	14	20.8	18.0	350	403	1017.7	972.9	-CLD	65.5	
141915	start E-W over buoy												buoy		
142045	2830	8431	272	273	79	15	20.3	19.1	336	391	1018.4	973.7	buoy	63.2	
142230	end E-W leg														
142450	start SW-NE leg														
142700	end leg SW-NE leg														
142900	start NW-SE leg														
142930	2834	8432	151	149	77	14	20.4	18.3	343	397	1018.2	972.7	-CLD	67.8	
143025	2830	8430			77	14					1018.2				
143210	end NW-SE leg														
152451	Begin leg 1 from A'														
152640	X2542	8118	240	242	340	5.5	21.1	13.9	826	897	1016.9	918.0	PTA'		
153710	X2523	8154	240	241	315	3.7	20.2	8.0	826	892	1017.6	917.8	End Leg 1/A'		
15	X2532	8154	58	57	318	3.9	20.5	12.1	827	899	1017.3	917.8	Begin Leg 2/A'		
155110	X2548	8122											End Leg 2/A'		
155520	X2538	8116	240	242	14	4.9	21.1	13.7	826	897	1016.8	917.7	Begin Leg 3/A'		
160215	2525	8141	240	242	14	4.6	20.7	14.1	823	895	1017.1	918.2			
160510	X2520	8150											END 3/A'		
161424	X2524	8154			1500' RA								Begin 4/A'		
161910	2532	8138	60	58	355	10.7	23.1	17.3	395	439	1016.2	966.6			
162540	X2543	8118											END 4/A'		
1626	Clear to 3000 RA														
162945	X2534	8113											Begin 1/A''		
163710	2521	8139	240	242	359	4.7	20.5	13.5	839	911	1017.2	946.5			
163940	X2517	8147											END Leg 1/A''		
164245	X2522	8150											Begin Leg 2/A''		
165210	X2539	8116											END Leg 2/A''		
165700	X2527	8110											Begin Leg 3/A''		
170010	2522	8122	242	242	75	2.9	21.1	13.0	839	909	1016.8	916.4			
170640	X2511	8144											END Leg 3/A''		
170950	X2517	8147			1500' RA								Begin Leg 4/A''		
171300	2523	8136	060	060	335	4.4	24.5	14.0	403	446	1015.8	965.7	CLR-HWZ		
172007	2535	8113											END Leg 4/A''		
172401	2525	8108											Begin Leg 1/A		
173335	2508	8141											END Leg 1/A		
173602	2512	8143											Begin Leg 2/A		
174555	2529	8110											END Leg 2/A		
174925	2520	8105											Begin Leg 3/A		
175110	2517	8112	242	244	031	8.6	21.5	13.9	823	892	1016.6	918.2			
175845	2505	8138											END Leg 3/A		
180100	2509	8140			1500' RA								Begin Leg 4/A		
180930	2523	8110	061	061	298	3.5	25.6	16.9	395	431	1015.4				
181025	2524	8108											END Leg 4/A		
1810	Clear to 3000 RA														
182120	2504	8111	At Pt "D"		3000 RA								Begin Leg 1/0		
182313	2504	8102	090	089	334	5.2	21.6	14.8	838	900	1015.7	916.4	Tcu to N		
183255	2504	8025											END Leg 1/0		
183520	2459	8025											Begin Leg 2/0		
184700	2459	8111											END Leg 2/0		
185110	2509	8111											Begin Leg 3/0		
190239	2509	8025											END Leg 3/0		
1903	Descent to 1500' RA														
190555	2504	8025			1500 RA								Begin Leg 4/0		
191600	2504	8104	268	270	311	5.1	25.7	14.6	403	435	1013.8	965.2			
191800	2504	8111	END Scene - HDG Home												END leg 4/0

FLORIDA BAY

Page 2 of 2

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

Form 413-50

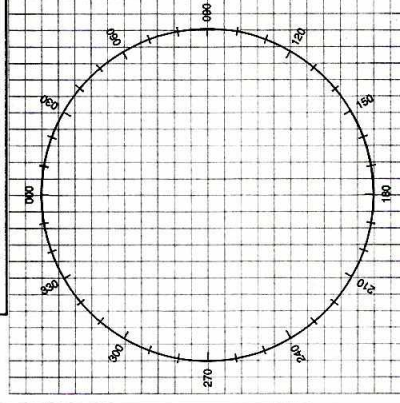
[illegible]

21/12

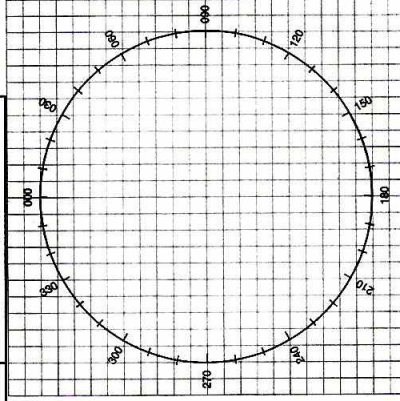
CLEARANCES

[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 _____

- HEADING _____ TRUE/MAG _____
AT _____ KTS TRUE/INDICATED _____

- 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

[illegible]

1241

INTL 290°T

27K
1342
251
1533

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION
Tampa Area

MISSION
FLORIDA BAY

NAVIGATOR
NEWMAN ADLER

AIRCRAFT COMMANDER
TAGGART

FLIGHT DIRECTOR
DAMIANO

SCHEDULED / ACTUAL TAKEOFF Z
1300Z / 1342

DATE OF TAKEOFF
16 MAY 00

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
9	BOUY APPROACH 28 20.3N 081 15.0												100	250	24	+34		
1	BOUY 28 20.3N 081 15.0												14	180		+25	+59	1432
2	CYPRES 26 09.2 081 46.7												203	290		+42	1441	
3	A 25 25 081 08												59			+15	1456	Begin turn @
4																175	2491	1525
5																155	3446	end 1628
6																155	4441	
7																1610	5441	
8	MACDILL															right		
													163	434		444	6425	1342-40
	#1									#3								2007 LAND
1	GPS 420 BOUY 25 44.0 081 14.0	A"	8			2534 08113			A	1525 08106	1		0	2504 8111	1			
2	25 23.0 081 54.5		2			2517 08147				2509 08144	2			2507 8025	2			
3	25 36.0 081 09.0		3			2522 08150				2513 08144	3			2459 8025	3			
4	25 15.0 081 49.0		4			2538 08116				2529 08110	4			2457 8111	4			
5	25 27.0 081 04.0		5			2529 08110				2520 08105	5			2509 8111	5			
6	25 06.0 081 44.0		6			2513 08114				2504 08138	6			2507 8025	6			
7	25 31 081 55.0																	180
8	25 47 081 22																	170
3	25 39 081 16																	125
4	25 22 081 50																	15
																		450

INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1200	1200
ALIGN STATUS (0-5)	0	0
END NAV TIME	2010	2014
START NAV TIME	1320	1324
DELTA T	6.9	6.9

TERMINAL ERRORS

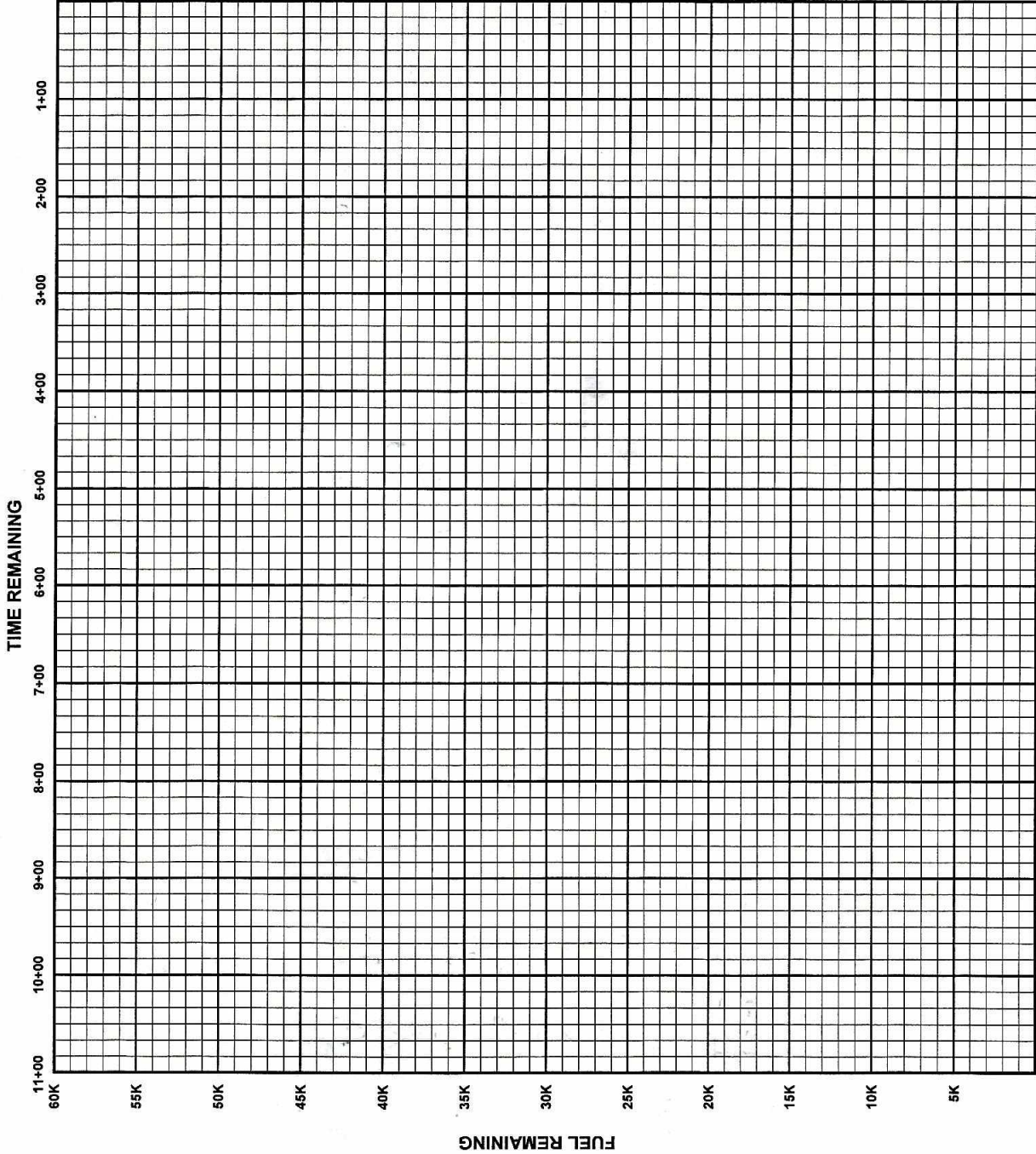
	INS 1	INS 2
DELTA LAT	-5.0	-12
DELTA LON	7.8	-1.7
RGS	3	2
RADIAL ERROR	2	5

REMARKS

WARN 1000
CYR 2080 1600'
10K
4635g
RWP 4

RANGE CONTROL GRAPH

ENROUTE FUEL	
ENROUTE TIME	
ENROUTE FUEL (5K, 5K, 4.5K RULE)	
RESERVE AT DESTINATION	
REQUIRED RAMP	
ACTUAL RAMP FUEL	

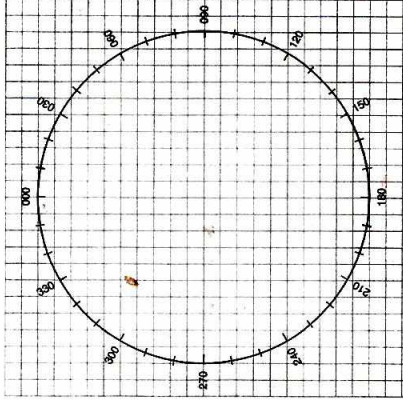


TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500
ENROUTE FUEL REQUIRED	5500
RESERVE AT DESTINATION	
FUEL AT OFFSTA	

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500
FUEL REQUIRED	5500
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD				CEX SIGHT	
COMPASS TYPE	INS1	INS2	WET	GMT	
MCH (READING)				GHA	
- MTH (EXTANT)				CORR	
CE				GHA	
- VAR				LONG +W -E	
DEV				EXACT LHA	
				LAT	
				BODY	
				DEC	
				HC/D	
				CORR	
				HC	
				Z	
				ZN	

CEX - ERB METHOD			
COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			



WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

PRESS ALT		200	250	300	350
10,000		1.0	1.0	.99	.99
20,000		.99	.98	.97	.97
30,000		.97	.96	.95	.94
40,000		.96	.94	.92	.90

TRUE AIRSPEED CROSS-CHECK						
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	ITAS
1355	260	10K	/	/	+14	299

DISTANCE REMAINING

ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)