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

AOCWF1

Flt ID: 040304I	From: kmcf	To: kmcf
Flt No: 04 - 19	Blk In: 1315Z	ATA: 1304Z
ETD: 10:00Z	Blk Out: 0938Z	ATD: 0955Z
ETE: 4:00	Blk Time: 3.37 (3.6)	Flt Time: 3:09 (3.2)
Sponsor Org: NRL	Program: SAR Pod	Purpose: Infrared Camera Test

AOC Personnel

AC: Silah	Sys Eng:
CP: Strong	Data Sys: Lynch
Nav: Adler	Radar:
FE: Floyd	GPS/BT:
FD: Mayeaux / Damiano	Cld Phys:
Avionics: Tony	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Marmorino, G	PI	NRL
Judd, P	IR Camera	NRL

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

Standby Gyro Problem / corrected
Using Nav 2
Scientific system crash around 0940Z. Right before takeoff
1031Z - Problem w/ video feed on IR Camera. orbited. Corrected at 1051Z and flew overland North of Cape

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AOCWF2

Flt ID: 04030411	Time Off: 0955	Time On: 1304

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1021.8	3018	1022.7	3021

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

Video

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

Remarks

NOAA P-3 N43RF
SAR POD PROJECT

Flight ID: 040304I

Sensor or system	Number or Name
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	2 (Edge Tech)
Altitude (for vertical wind)	Radar Altimeter 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	CO3041.CON

Notes:

No data was recorded from 095201Z-101200Z due to tape initialization problems after a data system crash at 0940Z. Also, there were two time/data gaps during this flight. These occurred at 101211Z-101300Z, and 111151Z-111200Z.

From 103001Z-104600Z there were oscillations in a number of the position parameters including groundspeed. These occurred during an extended orbit while waiting for the infrared camera to initialize.

From 130330Z-130700Z, Radar Altimeter 232 was used in place of Radar Altimeter 159.

The King Liquid Water sensor was not operating during this flight.

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.

	Takeoff	**Landing**
Aircraft Static Pressure	1021.8 mb	1022.7 mb
Corrected Tower Pressure	1021.3 mb	1022.3 mb

Flight Director: Martin Mayeaux (813) 828-3310 ext. 3086

Flight ID: 040304I

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Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
100149	2758	8004	78	83	143	18.5	15.6	11.6	847	913	1017.6	915.5	91.3	CIR takeoff
104950	2846	8033	329	330	152	20.1	17.6	13.6	509	601	1022.4	953.6	101.7	CIR
110700	2839	8021	87	93	[2000 ft West to East Leg]									Leg Start 1
111230	2839	8156			Ended By Rain									Leg End 1
					[2000 ft East to West Leg]									
111730	2830	8001	270	267	141	18.0	17.8	13.7	507	606	1027.2	954.1	80.4	Start leg 1
112230	2830	8024												End leg 1
					[2000ft West to East leg Redo]									
112800	2813	8021	93	98										Start leg 2
113303	2813	7959			No Feature → Head South									End leg 2
					[2000 Ft East to west leg Redo]									
114047	2752	8009	269	266										Start leg 2
114530	2757	8031												End leg 2
					[2000 ft West to East Leg over Bay]									
115515	2830.2	8022.4	90	95	155	17.3	17.8	12.7	504	603	1023.3	954.3	71.9	Start leg 1
120120	2830.2	7958												End leg 1
120500	2830.2	8003	273	270	149	17.3	18.0	12.6	504	606	1023.6	954.3	74.4	Start leg 2
120954	2830.2	8022.4												End leg 2
121332	2830.2	8022.1	90	93		[1000 ft]								Start leg 1
121923	2830.2	7958												End leg 1
						[500 ft]								
122315	2830.2	8004	270	267	157	19.1	22.1	16.4	55	150	1024.1	1006.4	73.1	Start leg
122747	2830.2	8022.4												End leg
						End of Science								

MISSION LOG

PAGE ___ OF ___

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

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

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF	SAR POD #3	ADLER	SICAH	DAMIANO MATERNY	1000 / 0955	04MAR04

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	KMCF																	
1	LAL																	
2	ODALL 2806 08110																	
3	MLB																	
4	MLB 030/30																	
5																		
6																		
7																		
8	BUOY 28 30.2 080 11.1																	
					TIME	FUEL	FF											
					0145	34.0												

INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	0800	0800
ALIGN STATUS (0-5)	0	0
END NAV TIME	1304	1304
START NAV TIME	0927	0927
DELTA T	3+37	3+37

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	+5.7	-.4
DELTA LON	-.6	+.2
RGS	3	0
RADIAL ERROR	6	0

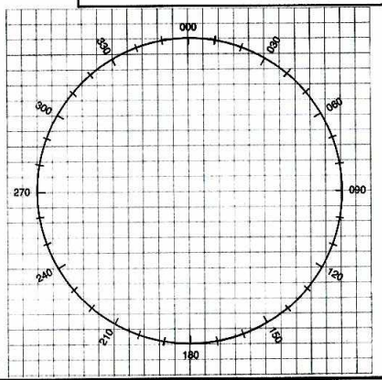
REMARKS

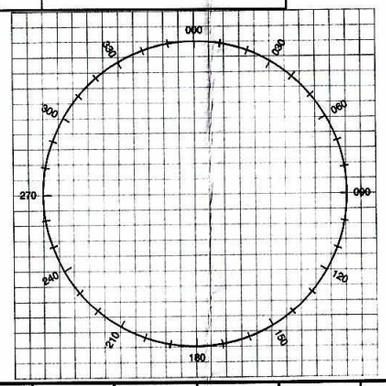
MISSION LOG

PAGE ___ OF ___

CLEARANCES

FREQ	ALT	HDG	OTHER
			36039
			3000
			LAL
			3019





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
0935	ENG										/	/									
0939	TAXI																				
0939	BLOCK										/	/									
0955	T/O																				
0957	X✓	27 52.9 082 26.4	27 52.8 082 26.2	+.1 +.2	27 52.9 082 26.2	+0 +.2				7L	073	196	135	35	300	216					
1043	△	28 44.9 080 26.6	28 43.9 080 27.0	+1.0 +.4	28 45.0 080 26.8	-.1 -.2				—	CIRCLING		FOR	REPAIRS		—					
1149	△	28 10.4 080 26.5	28 07.6 080 26.5	+2.8 +0	28 10.7 080 26.4	-.3 +.1				3L	000	241	125	15	2000	232					
1239	△	28 07.5 080 57.2	28 02.3 080 57.6	+5.2 -.4	28 07.5 080 57.2	+0 +0				3R	245	230	165	15	3500	218					
1304	LAND	KMCF																			
		27 51.0 082 29.6	27 45.3 082 30.2	+5.7 -.6	27 51.4 082 29.4	-.4 +.2															