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

Flt ID: 040705I	From: KmCE	To: MMMZ
Flt. No: 04 -038	Blk In: 2048 z	Time On: 2044 z
ETD: 1400 z	Blk Out: 1603 z	Time Off: 1615 z
ETE: 5+00	Blk Time: 4+45 (4.8) Hrs	Flt Time: 4+29 (4.5) Hrs
Sponsoring Org: ~~UCAR~~ NSSL	Program: NAME	Purpose: TRANSIT ~~TO~~ MAZATLAN MEXICO

AOC Flight Crew

Aircraft Commander: Tebeest, K	Data System: ✓ Lynch, T
Co-Pilot: ✓ Silah, M , Strong, T	AVAPS: ✓ Tong, R
Navigator: ✓ Adler, J ,	System Eng: ✓ Barr, J
Flight Eng: ✓ Floyd, D , Klippel, J	A A:
Flight Director: ✓ Meyeault, M, ✓ Damiano, B	A A:
Avionics:	Crew Chief: ✓ Mitchell, R

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Topey, B		

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) *Recco Times* *Fix # Fix Time*

Storm Name:

Mission ID:

Penetration number and time

(See reverse for additional remarks)

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Flight ID: 0407051	Time Off: 1615 Z	Time On: 2044 Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1019.0 mb	3012 1619.9 mb	1011.1 mb	2990 1012.5 mb

ATIS	Time	Observation
Takeoff	1553Z	VRB05KT P6SM 32/23 A3012 PA-172
Land	2000Z	21014KT 12SM FEW030 SCT240 36/31 A2990

	Number	Data Disposition / Date / Quality
Flight Level Tapes	2	
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

1255Z 14006KT P6SM 28/24 A3010 PA-153
1355Z VRB 05KT P6SM 29/24 A3011 PA-162
1555Z VRB 05KT P6SM 32/23 A3012 PA-172
1019.8

2310
10616

Delay #1.- Comms Radio box in CoPilot Seat had static.
Delay #2- Pitot tube overheat in #2 engine. Replaced head

TD2 frozen about 1905-1910Z Switched TD1 at 1917Z TD1 Froze up Shortly Hereafter.

Both Dewpointers operative by 2000Z
2000 21014kt 12sm SCT240 36/31 A2990
FEW 030

NOAA P-3 N43RF
NAME Ferry Flight KMCF-MMMZ

Flight ID: I040705

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	2 (EdgeTech)
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO3042.CON

Notes:

There was one time/data gap during this flight which occurred from 193341Z-193400Z.

Dewpoint sensor #2 (DW2) was replaced with Dewpoint Sensor #1 (DW1) between 2039Z and 2046Z.

Radar altimeter 159 was replaced with 232 during the following times: 160621-161621Z, 163101-164130Z, and from 204350Z-204700Z. Following the replacement, spikes were removed from Radar Altimeter 159 at 163346Z and 163757Z.

The King Liquid Water Probe was inoperative during the entire mission.

All other instruments worked optimally during the 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	1019.0mb	1011.1 mb
Corrected Tower Pressure	1019.9mb	1012.5 mb

Flight Director: Marty Mayeaux
Phone #: (813) 828-3310 ext. 3086

N43RF Hurricane / CBLAST '04 Flight Performance Log

Mission NAMG FERRY Flt ID 040705 i

SED Crew LYNCH, TONG, BARR

Pre-Flight 1200 Z Take-Off 1615 Z Landing 3044 Z

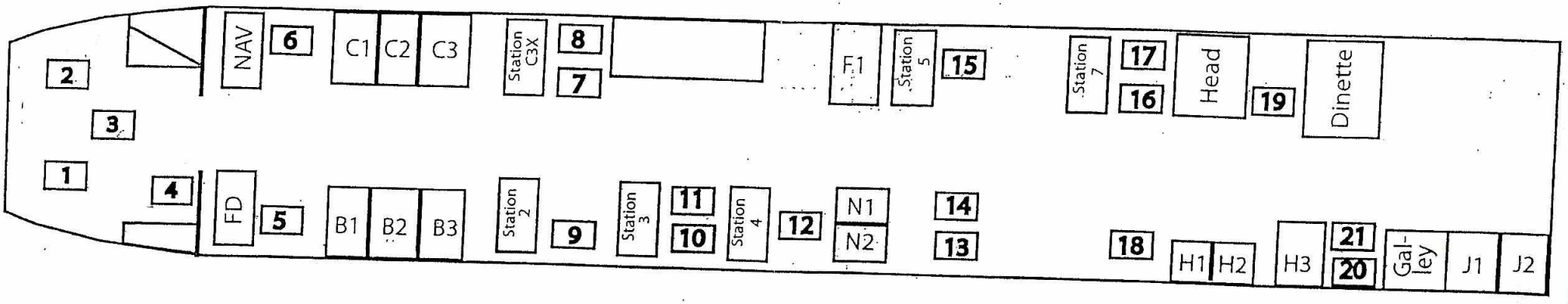
	System			Pre-Flight	In-Flight			Post-Flight			
NAV	GPS FM: 1			RT				LAT	LON	GS	RE
	INE #1 Time On: 13:20 Aligned to :			RT				+67	-.1	1	2
	INE #2 Time On: 13:20 Aligned to :			RT				44.1	-1.9	2	4
	Diff GPS			RT							
RADAR	MARS Data	Start	Stop	Ready?	HRD?			# DATs ? — Given To:			
	MARS			—	Y / (N)						
	MARS Data / Tape Status				LFRec	TARec	EOF's				
	MARS LU8 Clean			—							
	MARS LU9 Clean			—							
	RADAR R/T SN Tail 202 / 102 LF 102			—	Mod Switches ON			Mod Switches (OFF)			
	Nose			RT				Power OFF			
PMS	FSSP Ref VDC: Covers OFF			NI				Covers (ON)			
	Cloud Mono Covers OFF			|				Covers (ON)			
	CIP Covers OFF			|				Covers (ON)			
	SEA Data DAT	Start	Stop	Ready?	#DATS	Errors	Disk Write	Given To:			
	DAT Clean?			⊥			Y / N				
TEMP		Cal High	Cal Low					Cal High		Cal Low	
	Temp #1	+30.6	-30.5	RT				30.6		-30.2	
	Temp #2			RT				Power (OFF)			
	Temp #3			NI				Power (OFF)			
	Dewpoint (#1) (#2) (#3) (TDL)			TL				Power (OFF)			
PRES	(Attack) / (Slip Angle) (AP) (DAP) (BP) (DBP)			TL				Power (OFF)			
	Differential PQ1 PQ2 PQ3 PQ4			TL				Power (OFF)			
	Absolute (PS1) (PS2) (CBPS)			TL				Power (OFF)			
FLTLVL	Apn-159 SN: SH-1			TL				Power (OFF)			
	Apn-232 SN: 1699			TL				Power (OFF)			
	Liquid Water J&W ~~King~~			RT	28V WOW : ON ?			Power (OFF)			
	Radiometer (CO2) (SST)			TL	28V WOW: ON ?			Power (OFF)			
RAMS	RAMS Data	Start	Stop	Ready?	Errors 8:		Errors 9:	# DATs ? 2 Given To:			
	CPU: (A) B	1606	2048	RT				Power (OFF)			
	RAMS Data / Tape Status				Slow Rec		Fast Rec	Disk Records: 1053			
	RAMS (LU8) Clean			RT							
	RAMS (LU9) Clean			RT							
	Flight Director Laptop			TL				Power (OFF)			
	Network			NU							
	ASDL Mission #: W0704A Name: TRAIN				Freq: Block:			Power (OFF)			
	C.I. Printer	Start	Stop	Ready?	Paper Bin Stores			Given To:			
	PRATE: 30	1606	2048	RT	0% 25% 50% 75% (100%)			Power (OFF)			
MISC	Exterior Walk Around (Plugs) (Covers)			RT				Plugs Covers			
	SATCOM W/S Inmarsat GlobalStar							Power (OFF)			
	AXBT Internal # Loaded : 60			TL				# Launched : —			
	AXBT External # Loaded :			—	28V WOW			# Launched : —			
	AVAPS # On Board : 40			TL				# Dropped : —			
	Video Cameras	Start	Stop	Ready?	Cameras		Mode	# Tapes ? Given To:			
	VHS SVHS			NU	(N) (L) (R) D		2 / 12	Lens Cap ? : —			
	FCU B C D			TL				UPS (OFF)			
USER	SFMR ~~HRD~~ AOC			TL				Accelerometers			
	NASA SRA			NU				#1 (2 G) : 8202			
	ARL BAT Probe, SST & IRGA			NU				#2 (2.5 G) : 6687			
	UW PDA			NU				#3 (3 G) : 5967			
	Scripps MASS, Laser Alt, IR Cam & Sono			NU				#4 (3.5 G) : 2892			
	RSMAS Licor			TL							

Please Note any Discrepencies

Item #	Zulu Time	Problem Description	Initials	Status
1		ICS jackbox @ Stg 5 has loose jack for headset	TL	
		Prov #2 ?	RT	

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 040705I



1. Tebeest, R — PILOT
2. Strong, T — COPILOT
3. Floyd, D — FLIGHT ENGINEER
4. Damiano, B — STATION 1
5. Mayeaux, M — FLIGHT DIRECTOR
6. Adler, J — NAVIGATOR
7. ~~Tofey, B~~ — STATION C3X
8. _____ — STATION C3X
9. _____ — STATION 2
10. BARR, J — STATION 3
11. Silah, M — STATION 3
12. Lynch, T — STATION 4
13. Barr, J — PROJECT SEAT
14. _____ — PROJECT SEAT
15. Tang, R — STATION 5
16. Kippel, J — STATION 7
17. Tofey, B — STATION 7
18. Mitchell, R — STATION 8
19. _____ — DINETTE
20. _____ — GALLEY
21. _____ — GALLEY

Flight ID: 040705I

Page ___ of ___

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

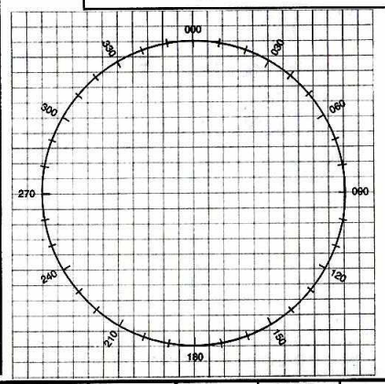
Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
161544	2753	8229	75	77	198	3.6	26.9	20.5	290	359	1019.2	976.4	56.6	take off
165753	2724	8529	262	261	110	13.7	-10.5	-22.4	6126	6513	1016.3	463.7	79.0	
173034	2654	8837	261	261	108	10.5	-11.1	-21.2	6127	6506	1017.2	463.8	81.6	
175631	2631	9108	260	259	112	13.9	-11.1	-25.5	6121	6500	1017.8	464.1	82.6	BKN Cumulus
182640	2557	9403	259	257	153	14.8	-9.8	-37.9	6118	6497	1014.3	464.3	83.1	
185122	2543	9626	274	275	122	8.9	-9.3	-29.1	6115	6489	1012.0	464.3	84.3	
192539	2547	9949	272	274	72	10.2	-8.0	-32.6	5806	6192	976.3	464.4	83.6	
195547	2451	10238	249	250	72	14.5	-8.1	-30.7	6113	4603	814.6	464.4	84.0	
202828	2330	10526	240	242	25	16.1	-6.2	-4.8	5697	3582	768.2	498.3	78.3	TS

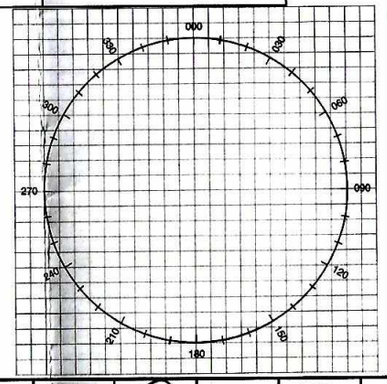
IRID 00697 or 00698

MISSION LOG

PAGE ___ OF ___

CLEARANCES			
FREQ	ALT	HDG	OTHER
			AS file direct CIGAR
			↗4K ↗12K 28
			↗200
			29.90 / 29.90
			14K V 26





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
1604 1600	TAKI ZNB																				
1603 1615	BLOCK T/O																				
1617	X ✓	27 53.0 082 26.8	27 52.8 082 26.4	+.2 +.4	27 52.4 082 26.8	+.6 +0				2L	078	189	130	10	↗1600	199					075/14 lamp
1711	△	27 14.2 086 42.3	27 13.6 086 42.6		27 13.7 086 43.4						262	317	090	15	20000	300					
1821	△	26 04.5 093 28.2	26 03.7 093 28.3	+.8 -.1	26 03.3 093 29.2	+1.2 -1.0				2R	259	315	130	15	20K	305	CHAN		+19 +02.4	1843	
1913	△	25 42.8 098 33.0	25 47.1 098 32.8	+.7 +.2	25 43.9 098 33.9	+1.9 -.9				1L	268	322	070	15	20K	305					
2020	△	23 58.2 104 51.3	23 56.9 104 51.5		23 55.4 104 53.1					2L	237	328	025	15	20K	309					
2044	△	2 AMP	MMT																		
		23 10.0 106 16.3	23 08.3 106 16.9	+1.7 -.1	23 05.9 106 18.2	+4.1 -1.9															

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
MMMZ	REPO TO MMMZ	ADLER	TEREST	MATEAUX	1400 / 1615	SJUC04

86W

135.77 HOUSTON OR ARTC

124.5 MRY

130.7 NY

13 SOB

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
1	CIGAR 27 29.6 084.7												124	+29 +29	1650		1651	
2	MAEKO 26 10 8 097 50												439	1+32	1615	1833	1823	
3	CLONN 25 38 095 37												148	+31		1946	1842	27 20N 086 00W 1709Z
4	MAM 25 46.3 097 31.4												109	+23	1905	1909		
5	MTT 25 46.4 100 04.2												139	+29	1934	1938		20K MAEKO 1815Z CLONN
6	SLW 026 32.8 100 59.6												47	+10	1944	1948		
7	DGO 24 08.3 104 31.0												213	+43	2027	2031		
8	MMMZ 23 09.6 106 16.3												112	+23	2050	2054		
9	KMCF																	

TIME	FUEL	FF	CALC FF	END	LAND
1610	36.8			6.0	2130
1710	31.4	4.7	5.4	5.20	
1810	21.4	4.6	4.6 5.0		

INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1200	1200
ALIGN STATUS (0-5)	0	0
END NAV TIME	2044	2044
START NAV TIME	1404	1404
DELTA T	6+40	6+40

TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	+1.7	+4.1
DELTA LON	-.1	-1.9
RGS	1	2
RADIAL ERROR	2	4.

REMARKS

1654
122
1726

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER