

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

Flt ID: <b>040906I</b>	From: <b>KNEW</b>	To: <b>KOPF</b>
Flt. No: <b>04-59</b>	Blk In: <b>1717 Z</b>	Time On: <b>1707Z</b>
ETD: <b>1500Z</b>	Blk Out: <b>1445 Z</b>	Time Off: <b>1453Z</b>
ETE: <b>+</b>	Blk Time: <b>2+32      2.5 Hrs</b>	Flt Time: <b>2+14      2.2 Hrs</b>
Sponsoring Org: <b>NOAA/NHC</b>	Program: <b>Hurr 2004</b>	Purpose: <b>REPO St. Croix</b>

**AOC Flight Crew**

Aircraft Commander: <b>TEBEEST, R</b>	Data System: <b>LYNCH, T</b>
Co-Pilot: <b>SILAH, M   CHOY, B</b>	AVAPS: <b>TONG, R</b>
Navigator: <b>SIEGEL, P   ADLER, J</b>	System Eng: <b>SMITH, J</b>
Flight Eng: <b>FLOYD, D   KLIPPEL, J</b>	A A:
Flight Director: <b>SHEPHERD, T</b>	A A:
Avionics:	Crew Chief: <b>MITCHELL, R</b>

**Participating Scientists / Visitors**

Name (Last, First)	Activity on Aircraft	Affiliation
<b>Dodge, P</b>	<b>PI</b>	<b>NOAA/HRD</b>
<b>Black, M</b>	<b>PI</b>	<b>1</b>

<b>Remarks (Storm Name, Mission ID, Recco Times, Fix Times)</b>	<u>Recco Times</u>	<u>Fix #</u> <u>Fix Time</u>
<u>Storm Name:</u>		
<u>Mission ID:</u>		
<u>Penetration number and time</u>		

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Flight ID: *040906I*      Time Off: *1453 Z*      Time On: *1707 Z*

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<i>1008.5 mb</i>	<i>29.80 mb</i>	<i>1010.5 mb</i>	<i>29.86 mb</i>

ATIS	Time	Observation
Takeoff	Z	
Land	Z	

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

**Remarks:**

*1 NE I - Alt. tude only today* *2554*  
*- Data tapes started ~1446* *8017*  
*- Laptop shut down @ T.O. - got hot; changed battery* *1744 TISX*  
*6442*

*KOPF 1453Z 18018624 10SM SCT032 BKN 039*  
*MET A 2985 PK WIND 18026/1429*  
*TISX TEMP 1620 -SHRA SCT020 BKN040*  
*FM 2300 190/10 68m FEW 025*

*1750 19017624 2200*

Mission Repo Ferry - OPA → TISX Flt ID 0A0906 I

SED Crew Lynch, Tony, Smith

Pre-Flight 13:30 Take-Off 14:52 / 18:26 Landing 17:06 / 21:55

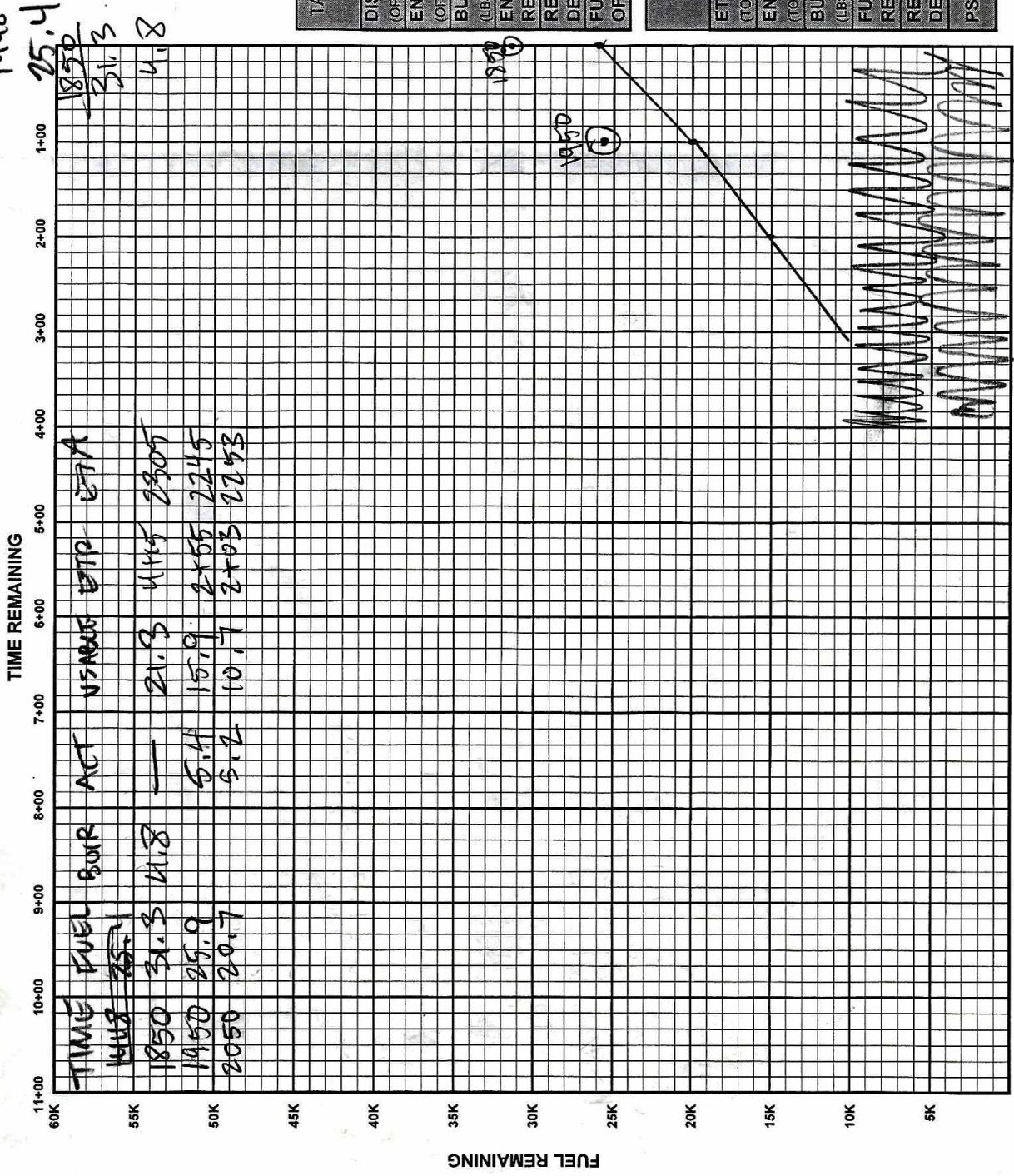
System		Pre-Flight		In-Flight			Post-Flight			
NAV	GPS	FM: 1		TL			LAT	LON	GS	RE
	INE #1	Time On: 13:30	Aligned to: 1	TL			439	-01	5	4
	INE #2	Time On: 13:30	Aligned to: 0	TL			-59	139	1	7
	Diff GPS			TL						
RADAR	MARS Data	Start	Stop	Ready?	HRD?		# DATs ? 0 Given To: →			
	MARS			TL	Y/N					
	MARS Data / Tape Status				LFRec	TARec	EOF's			
	MARS LU8	Clean		NY						
	MARS LU9	Clean		NY						
RADAR R/T SN	Tail 202/102	LF 102	TL	Mod Switches ON			Mod Switches OFF			
Nose			TL				Power	OFF		
PMS	FSSP Ref VDC:	Covers	OFF	NY			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	430.6	-30.5	TL			30.7	-30.2		
	Temp #2			TL			Power	OFF		
	Temp #3			TL			Power	OFF		
PRESS	Dewpoint	#1 #2 #3 (TDL)		TL			Power	OFF		
	Attack / Slip Angle	AP BP DAP DBP		TL 3			Power	OFF		
	Differential	PQ1 PQ2 PQ3 PQ4		TL			Power	OFF		
FLTLVL	Absolute	PS1 PS2 QPS		TL			Power	OFF		
	Apn-159 SN:	66-024		TL			Power	OFF		
	Apn-232 SN:	1761		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: 54			
	CPU: A	B	14:45	21:53	Y	0	Power	OFF		
	RAMS Data / Tape Status				Slow Rec	Fast Rec	Disk Records: 2594			
	RAMS LU8	Clean		TL	2594	2594/				
	RAMS LU9	Clean		TL	2594	2594/				
	Flight Director Laptop			TL			Power	OFF		
	Network			NY						
	ASDL Mission #:	Name:		NY	Freq:	Block:	Power	OFF		
C.I. Printer	Start	Stop	Ready?	Paper Bin Stores			Given To: 54			
PRATE: 60	14:46	21:53	TL	0%	25%	50%	75%	100%	Power	OFF
MISC	Exterior Walk Around	Plugs	Covers	RT			Plugs	Covers		
	SATCOM	WIS Inmarsat	GlobalStar	JS			Power	OFF		
	AXBT Internal	# Loaded:	0	NY			# Launched:	0		
	AXBT External	# Loaded:	0	NY	28V WOW		# Launched:	0		
	AVAPS	# On Board:	2 36	JAS			# Dropped:	0		
	Video Cameras	Start	Stop	Ready?	Cameras	Mode	# Tapes ?	Given To:		
VHS SVHS			NY	(L) (R) (D)	2 / 12	Lens Cap ?	✓			
USER	FCU	- B R D -					UPS	OFF		
	SFMR	HRD	AOC	TL			Accelerometers			
	NASA SRA			NY			#1 (2 G):	8203		
	ARL BAT Probe, SST & IRGA						#2 (2.5 G):	6687		
	UW PDA						#3 (3 G):	5967		
Scripps MASS, Laser Alt, IR Cam & Sono						#4 (3.5 G):	2892			
RSMAS Licor				TL						







RANGE CONTROL GRAPH



ENROUTE FUEL

ENROUTE TIME	2+00
ENROUTE FUEL (5K 5K 4.5K RULE)	11K
RESERVE AT DESTINATION	10K
REQUIRED RAMP	21K
ACTUAL RAMP FUEL	25.4

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

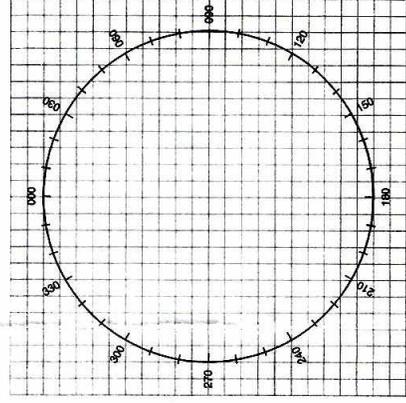
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX - ERB METHOD

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

CEX SIGHT

GMT	
GHA	
CORR	
GHA	
LONG +W	
-E	
EXACT LHA	
LAT	
BODY	
DEC	
HC ID	
CORR	
HC	
Z	
ZN	



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

TRUE AIRSPEED CROSS-CHECK

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	TAS	ITAS

DISTANCE REMAINING

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