3115

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

AOCWF1

Flt ID: ~~07-024~~ 070820I	From: KMCF	To: KMCF
Flt No: 07-024	Blk In: 1932Z	ATA: 1922Z
ETD: 17Z	Blk Out: 1642Z	ATD: 1708Z
ETE: 2+30	Blk Time: 2+50 (2.8)	Flt Time: 2+14 (2.2)
Sponsor Org: NOAA-AOC	Program: PUP NAV UPGRADE	Purpose: TEST FLT

AOC Personnel

AC:	CHOY, B	Sys Eng:	LYNCH, T
CP:	GRIMONTE, A	Data Sys:	SMITH, J
Nav:	BISHOP, J	Radar:	
FE:	FLOYD, B	GPS/BT:	
FD:	FLAHERTY, P / ALMEIDA, R	Cld Phys:	
Avionics:	SANS SOUCI, D		

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

POWER GLITCH AT 1656 - T/O ABORTED

1752 - DUPT SWITCH

IP 2859 8259.7

FIVE 2 PROBLEMS 1655

POWER GLITCH 1656

173140 RA HIGH + WAVERING, SLP HIGH

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

AOCWF2

Flt ID: 070820I	Time Off: 1708Z	Time On: 1922Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1017.5	3008	1015.7	3003

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		
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

1555Z 10010KTSG18 10SM 32/24 3008

1855Z 09013KT 10SM 35/23 3003

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
		BISHOP	CHOY	FLAHERTY	1700	20 AUG 2007

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	N 27-51 W 82-31		348	4W	344	Ø	344	250	L	✓	20K	250	Ø Ø	Ø Ø				
2	28-59 82-54		094	4W	090	Ø	090	250	✓	✓	20.0	250	71 71	+17 +17				
3	28-59 82-29		275	5W	270	Ø	270	250	✓	✓	20.0	250	22 93	+05 +22				
4	28-59 82-59		163	4W	159	Ø	159	250	✓	✓	20.0	250	27 120	+06 +28				
5	27-52 82-31		/	4W	/	Ø	/	250	✓	✓	20.0	250	72 192	+17 +46				

INS PERFORMANCE

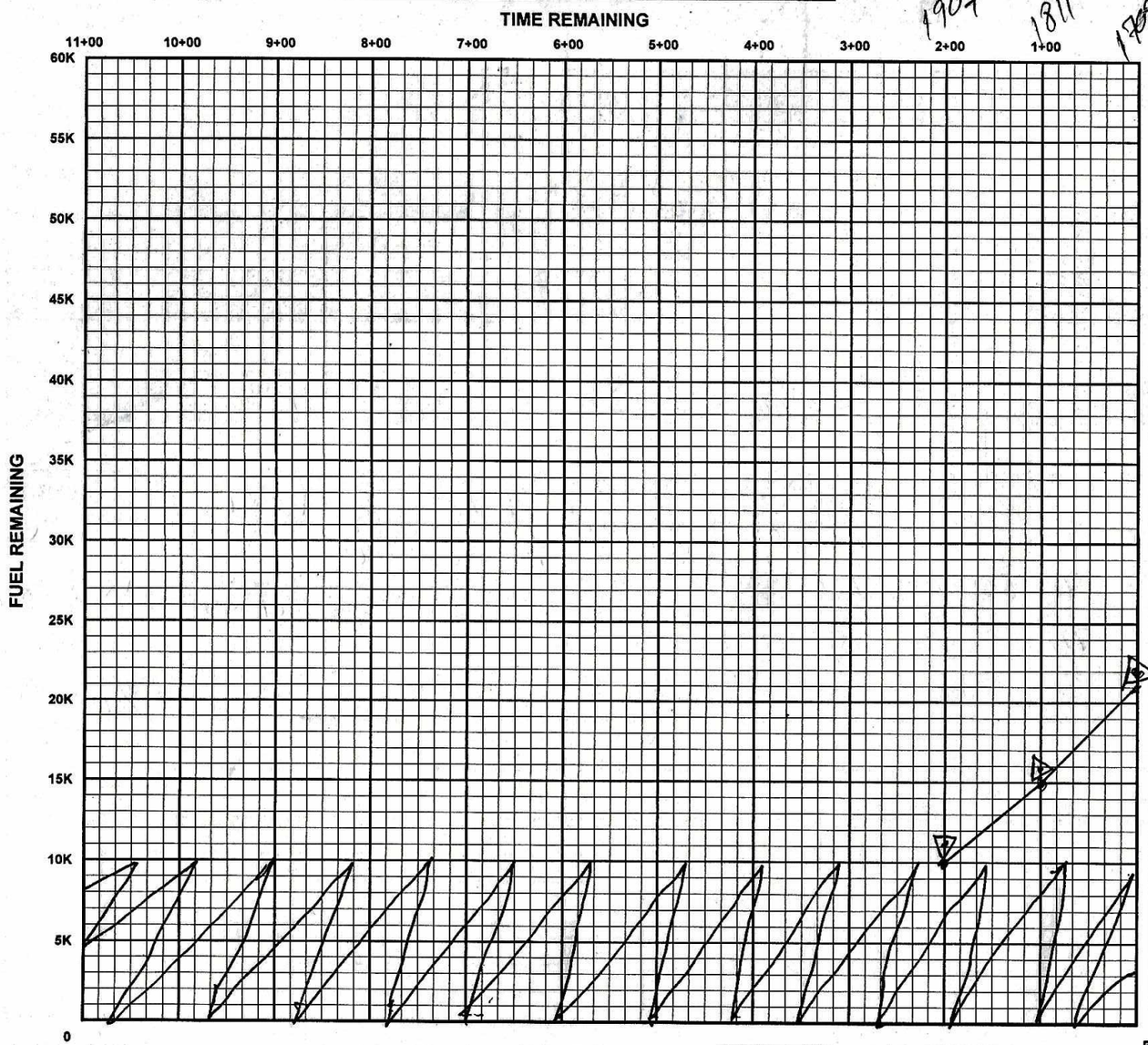
	INS 1	INS 2
BEGIN ALIGN TIME	/	/
ALIGN STATUS (0-5)	/	/
END NAV TIME	1930	1930
START NAV TIME	1500	1500
DELTA T	4+30	4+30

TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	-0.5	-1.4
DELTA LON	+0.3	+0.2
RGS	/	/
RADIAL ERROR	Ø.56	1.4Ø

REMARKS

RANGE CONTROL GRAPH



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

ENROUTE FUEL	
ENROUTE TIME	2+00
ENROUTE FUEL (6K, 5K, 4.5K RULE)	11.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	21.0
ACTUAL RAMP FUEL	22.0

6.5
2.5

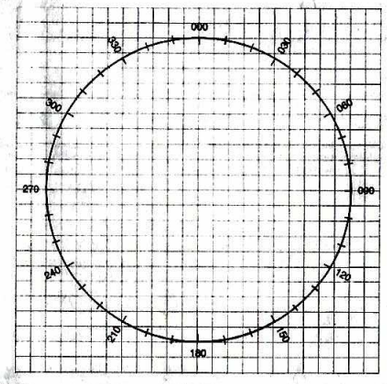
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN	4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)		
ENROUTE TIME (TO DEPARTURE)		
BURN RATE (LBS/HR)	4500	5500
FUEL REQUIRED		
RESERVE AT DEPARTURE		
PSR FUEL		

CEX - TRUE BEARING METHOD	INS1	INS2	WET
COMPASS TYPE			
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX - ERB METHOD	INS1	INS2	WET
COMPASS TYPE			
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 / D	
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

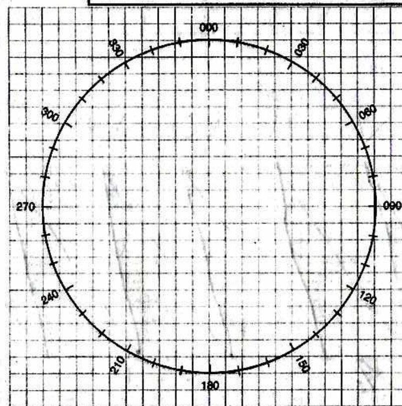
"F" FACTOR				
PRESS ALT	200	250	300	350
10,000	1.0	1.0	.99	.99
20,000	.99	.98	.97	.97
30,000	.97	.96	.95	.94
40,000	.96	.94	.92	.90

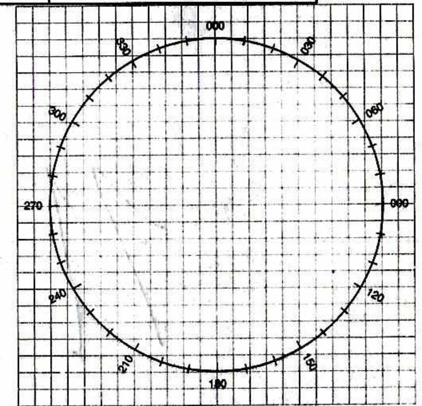
TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

CLEARANCES			
FREQ	ALT	HDG	OTHER
	4.0	030	
	11.0		
128.05			Jax App

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 ______, 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
1637	ENG																				
1642	Blk/Taxi																				* Taxi Back for Msn Equipt
1708	T/O						329	4W	325	4L	321	257	109	25	11.0	235					Power Failure 032°/22 PTE
1718	X✓	N28-42.9 W082-27.3					329	4W	325	4L	321	257	109	25	11.0	235					032°/22 KTE
1814	△	28-59.3 82-53.3	28-59.2 82-53.4	+.1 -.1	28-59.4 82-53.5	-.1 -.2	094	4W	090	2L	088	237	100	016	10.0	253					
1922	L A/ID @ MACDILL AFB																				
		27-50.9 82-29.6	27-51.4 82-29.3	-.5 +.3	27-53.3 82-29.4	-.4 +.2															

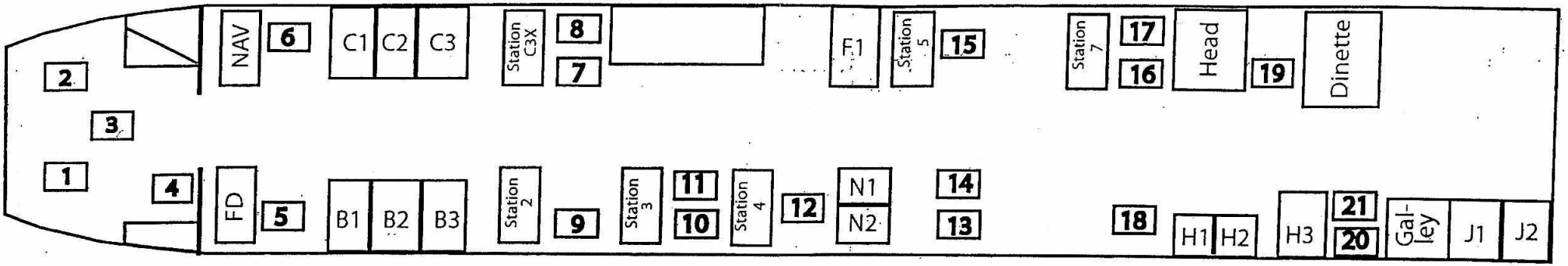
070820I	LAT	LON	TA	TD	TK	SHD	RA	PS	SP	WD	WS	WZ	SFWS	COMMENTS
152350	27.51.00	-82.29.52	-.9	-64.2	.0	.0	1.0	250.7	250.7	.3	42.3	-4.0	0.0	test
163241	27.50.94	-82.29.58	35.6	22.3	90.0	135.6	1.0	1017.7	1017.8	126.0	5.6	1.2	0.0	test
164559	27.50.76	-82.29.76	37.4	21.1	269.9	269.6	1.0	1017.4	1017.6	313.0	3.8	-3.1	0.0	
164927	27.50.76	-82.30.96	35.2	21.3	270.1	269.8	1.0	1017.4	1017.5	90.4	6.3	2.0	0.0	taxi
165933	27.50.58	-82.31.50	33.4	40.0	179.7	184.0	1.0	1017.2	1017.3	116.1	4.4	.9	0.0	taxi again after power glitch
170145	27.50.22	-82.31.92	35.6	21.7	59.3	309.9	1.0	1017.4	1017.5	20.8	1.5	-.1	0.0	dewpointer 2 back
170850	27.51.24	-82.31.02	31.3	20.9	40.9	44.6	93.0	1006.1	1016.5	83.4	8.4	1.8	0.0	off
172005	28.24.30	-82.39.54	9.9	-20.0	321.5	324.7	3627.0	672.8	1023.6	109.6	12.2	2.0	0.0	over water
172134	28.29.64	-82.44.34	8.2	-11.0	321.6	324.4	4017.0	642.6	1023.1	109.9	12.2	2.2	0.0	climbing to 20k
172719	28.51.12	-82.54.48	-5.1	-38.0	327.3	329.0	6044.0	496.5	1017.7	119.2	9.4	1.9	5.2	setting 29.92
172859	28.57.78	-82.58.86	-9.0	-36.0	330.6	332.8	6620.0	465.8	1028.1	122.7	8.0	2.1	6.2	sonde launch
173018	29. 2.34	-82.56.70	-8.9	-35.1	83.0	86.1	6625.0	464.3	1025.0	133.4	6.8	2.0	6.2	starting 20k leg eastward
173212	29. 3.12	-82.46.86	-9.2	-26.3	85.0	87.7	6601.0	464.8	1024.0	122.2	7.6	2.3	6.2	ovr land
173550	28.59.04	-82.29.04	-8.1	-11.3	101.4	103.0	6599.0	464.8	1019.6	128.4	8.0	1.9	6.2	end leg
173803	29. 3.12	-82.20.94	-8.5	-8.9	147.2	147.3	6634.0	465.0	1024.6	117.4	8.2	1.8	6.2	ine2 jump
173932	28.59.28	-82.25.02	-8.1	-4.9	271.9	270.7	6640.0	464.9	1023.3	119.2	8.2	2.4	6.2	ine1 jump
174015	28.59.28	-82.29.04	-8.7	-4.8	268.8	267.5	6613.0	464.6	1021.4	116.1	7.7	2.2	6.2	start 20k leg westward
174216	28.59.22	-82.40.44	-8.7	-2.6	270.3	268.9	6650.0	464.6	1025.3	119.3	7.4	2.3	6.2	switching RA's to new HG9
174255	28.59.22	-82.44.10	-9.2	-.4	269.6	268.3	0.0	464.6	464.6	120.6	7.8	2.2	6.2	water
174558	28.59.40	-83. 1.56	-9.1	10.7	271.3	269.9	0.0	464.7	464.7	120.8	7.3	1.9	6.2	end leg - still no RA
175100	28.59.94	-83. 6.48	-9.1	17.2	92.7	94.5	6608.0	464.9	1013.1	122.8	8.4	1.9	4.9	new RA, no dpt2
175150	28.59.58	-83. 2.22	-9.2	17.0	94.7	96.2	6604.0	464.8	1012.9	120.7	8.6	2.1	4.9	switching over to dwpt 1
175230	28.59.34	-82.58.86	-9.2	23.0	93.5	95.2	6603.0	464.8	1007.7	118.2	9.8	2.2	4.9	starting 20k east le\g
175519	28.59.34	-82.44.52	-9.5	-35.7	88.8	90.9	6615.0	464.6	1026.5	130.7	8.5	2.5	4.9	land
175815	28.59.16	-82.29.04	-8.9	-42.5	89.9	91.4	6595.0	464.5	1022.1	124.9	7.6	2.0	4.9	end 20k leg eastward
180356	28.59.22	-82.28.62	11.5	-9.2	271.1	270.1	3309.0	697.3	1021.5	113.7	10.2	1.8	4.9	starting 10k leg westward

180602	28.59.16	-82.39.72	12.2	-17.0	270.4	269.0	3316.0	700.3	1026.0	108.7	9.8	1.7	4.9	data glitches (sfc press....dvalue, etC)
180756	28.59.16	-82.49.38	12.5	-16.9	267.9	266.2	3277.0	700.3	1021.2	110.8	10.2	1.5	4.9	radar altitude problems - breaker reset - SFCPRESS still high
181053	29. 1.68	-83. 2.52	12.3	-16.6	345.3	349.5	3262.0	700.4	1019.9	120.6	10.9	2.0	4.9	end leg 1810
181448	28.59.34	-82.58.44	12.6	-16.6	87.6	89.4	3280.0	700.2	1021.2	115.7	9.2	1.6	4.9	start 10k leg eastward
181739	28.59.28	-82.45.84	12.3	-16.5	91.1	92.6	3273.0	700.2	1020.9	114.7	8.7	2.2	4.9	land
182108	28.59.70	-82.30.48	12.4	-5.1	48.5	52.0	3088.0	716.9	1023.3	130.0	7.5	1.6	4.9	leg ended - descending to 5k
182457	28.59.22	-82.34.14	17.3	4.3	271.9	271.4	2150.0	800.0	1022.9	110.7	5.3	1.7	4.9	staring 6500' leg westward
182657	28.59.10	-82.43.38	17.4	4.9	271.0	269.9	2148.0	799.8	1022.2	120.8	6.4	1.5	4.9	water
183016	28.59.10	-82.59.10	17.6	4.5	268.5	267.4	2148.0	799.8	1022.1	118.0	5.8	1.9	4.9	end leg
183227	28.52.62	-83. 3.30	19.8	4.1	186.3	185.0	1853.0	827.3	1021.4	103.6	4.4	1.9	.8	descending to 5500' PA
183526	28.52.08	-83. 0.90	20.2	5.2	352.9	355.4	1808.0	831.3	1020.9	120.5	5.9	1.6	1.5	starting comparison
183917	29. 0.48	-83. 5.88	20.4	3.1	183.6	181.4	1802.0	831.4	1020.3	116.2	4.0	1.5	3.1	
184104	28.53.70	-83. 5.82	19.6	3.9	179.9	176.9	1815.0	831.0	1021.8	96.2	5.9	2.0	3.2	
184316	28.51.66	-83. 1.86	14.8	-2.1	356.2	357.9	2669.0	751.2	1020.5	122.0	7.2	2.0	.9	climbing to 10k
184424	28.56.40	-83. 2.10	12.1	-17.8	359.8	3.3	3277.0	700.1	1021.5	122.2	9.7	2.4	3.0	at 10k
184810	28.59.16	-83. 6.72	12.3	-17.8	177.6	173.6	3265.0	700.5	1020.5	112.0	9.3	2.1	2.4	starting 10k comparison
185024	28.49.98	-83. 6.42	12.2	-18.2	179.0	175.5	3267.0	700.5	1020.8	121.3	9.0	1.8	0.0	end comparison
185601	28.27.84	-83. 6.24	20.6	8.6	179.4	175.6	1686.0	843.6	1021.5	99.5	7.6	1.7	1.7	5000' leg
185818	28.19.02	-83. 6.12	20.6	8.3	179.5	175.9	1636.0	846.6	1019.5	101.2	9.3	1.8	2.6	sfc pressures looking better
185907	28.16.02	-83. 6.06	20.6	8.5	179.9	175.8	1644.0	847.4	1021.3	100.5	9.8	2.0	2.4	end 5000' leg
190134	28. 7.14	-83. 6.12	27.7	21.5	179.0	176.1	487.0	964.4	1018.4	86.0	3.8	1.4	2.3	start 1500' leg
190205	28. 5.22	-83. 6.00	28.0	20.8	176.1	173.9	455.0	967.8	1018.3	89.1	3.3	1.3	1.8	SST 31.4
190416	27.57.24	-83. 5.28	28.6	20.2	176.3	172.2	458.0	968.1	1018.8	89.8	7.1	1.2	2.3	end 1500' leg
190613	27.50.16	-83. 4.68	30.8	22.9	177.1	174.3	176.0	998.2	1017.9	100.0	5.8	1.6	5.9	550' start leg
190641	27.48.54	-83. 4.56	30.8	22.7	175.3	172.4	168.0	999.0	1017.8	107.7	4.5	1.5	5.9	sst's 31.3
190850	27.40.86	-83. 3.30	30.7	22.9	170.2	167.4	170.0	998.8	1017.8	89.8	5.2	1.9	1.7	popping breaker on RA to check SFMR interference

190932	27.38.34	-83. 2.70	30.9	22.7	166.6	163.2	0.0	998.8	998.8	87.9	6.1	1.6	3.6	now for RA
191037	27.34.56	-83. 1.44	30.9	21.4	162.1	158.9	170.0	998.7	1017.8	83.1	5.6	1.6	4.6	RA back
on...ending 500' leg														
191324	27.34.98	-82.51.66	28.0	21.0	64.2	65.8	545.0	958.3	1018.4	104.5	6.8	1.2	1.9	hdg into macdill
192520	27.51.18	-82.30.84	34.4	21.1	56.6	56.6	0.0	1015.8	1015.8	86.6	6.9	.5	1.9	taxi
192607	27.51.36	-82.30.66	34.5	21.8	29.2	29.2	0.0	1015.8	1015.8	88.5	3.9	.7	1.9	

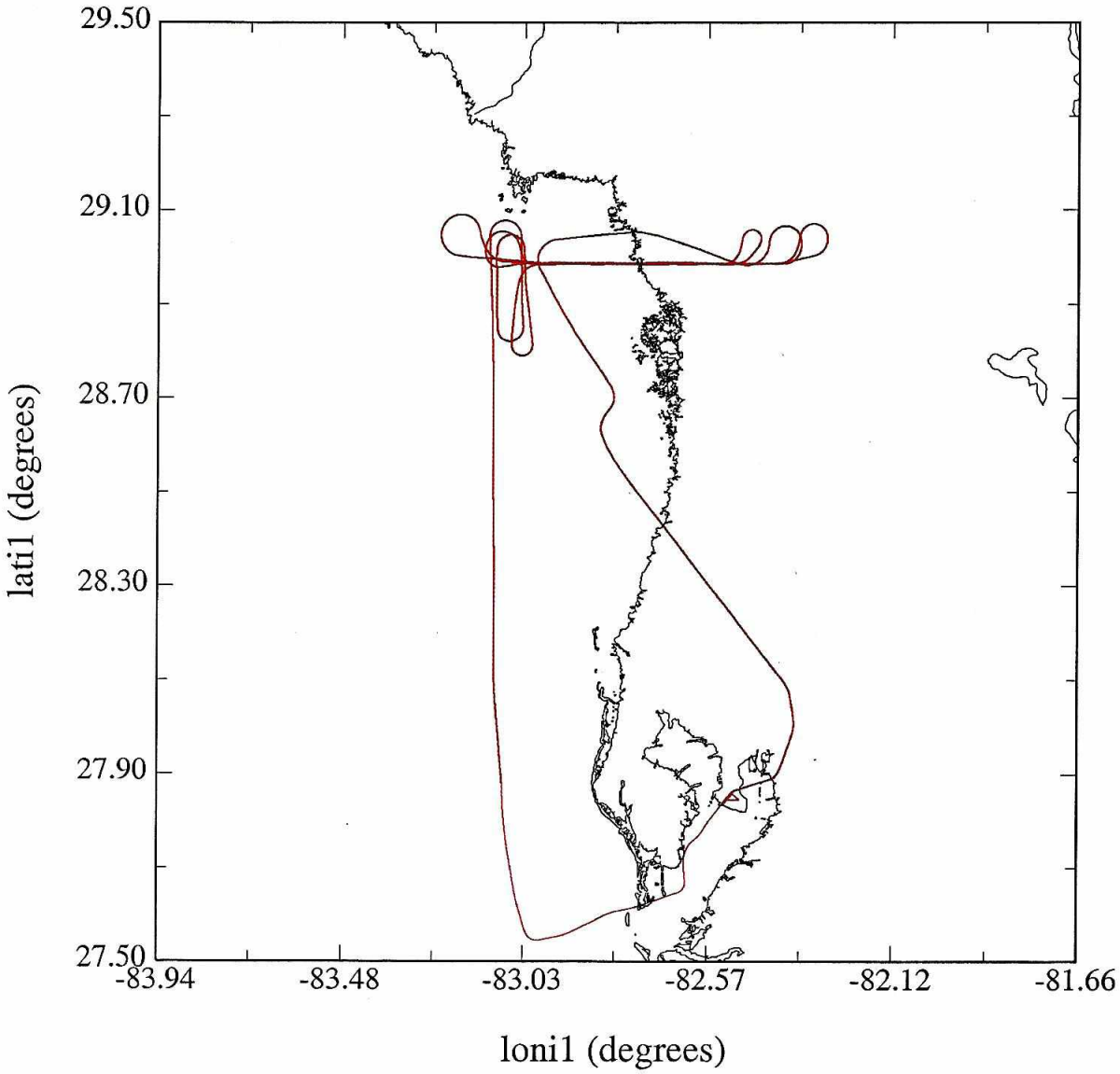
NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 070820 I



1. CHOY — PILOT
2. GIRMONTE — COPILOT
3. FLOYD — FLIGHT ENGINEER
4. _____ — STATION 1
5. FLAHERTY — FLIGHT DIRECTOR
6. _____ — NAVIGATOR
7. _____ — STATION C3X
8. _____ — STATION C3X
9. _____ — STATION 2
10. ALMEIDA — STATION 3
11. _____ — STATION 3
12. LYNCH — STATION 4
13. _____ — PROJECT SEAT
14. _____ — PROJECT SEAT
15. SMITH — STATION 5
16. _____ — STATION 7
17. _____ — STATION 7
18. SANS SOUCI — STATION 8
19. _____ — DINETTE
20. _____ — GALLEY
21. _____ — GALLEY

08/20/2007 UTC, 16:42:21-19:32:40



	mean	sigma	min	max
lati1 (degrees), 1 s/sec	28.49	0.54	27.55	29.09
loni1 (degrees), 1 s/sec	-82.76	0.26	-83.24	-82.28