



NOAA G-IV N49RF
TS Fay
17 September, 2008



Flight ID: 080817N

Sensor or system

Accelerometer
Altitude
Attack Angle
Dew Point Probe
Dynamic Pressure
Geopotential Altitude
INE
Slip Angle
Static Pressure
Temperature Probe
True Air Speed
Constants File
Project Directory

Number or Name

ACINS_PITR
PALT
AKRD1
DPRC
QC2M
GPGALT
VEW_PITR,VNS_PITR
SSRD1
PS2M
AT3
TAS2
49cal071
/proj/706

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1733Z)

1013.9 mb
1013.7 mb

Landing (0153Z)

1013.5 mb
1013.3 mb

Notes:

Missing Data: 213447Z – 213502Z, 213659Z – 214031Z, 220227Z – 220242Z, 220425Z – 220802Z, 003911Z – 003928Z, 004115Z – 004515Z, 011241Z – 011633Z, 014803Z – 014805Z, 014842Z – 015257Z

Data missing because of crashes to the MADS data system. Occasionally spikes occurred in the inertial data at the data gaps.

Noted Turbulence: 184715Z, 190044Z, 195642Z, 201359Z, 221154Z, 223335Z, 231642Z, 000951Z

Turbulence as noted from FD Log. There will be other times where turbulence was felt, but not noted. The above times are given as a reference to indicate what turbulence may look like in the data set.

IRS #2 was chosen because for the majority of the flight IRS #2 followed the GPS's more closely than did IRS #1. However, #2 does get a bit noisier toward the end of the flight at about 0025z. This is seen in the variable GDIF2 which is the difference between the Collins GPS position and IRS #2 position. Similarly, GDIF1 is the difference between the Collins GPS position and IRS #1 position and is used for comparison against GDIF2.

Also, there is a noticeable spike in WI (vertical winds) at 012652Z, which is due to a spike in pitch from IRS #2. At this time we do not have the capability to remove these spikes from the GIV data.

HGM232 produces erroneous spikes of +/- 100m at takeoff and periodically throughout the flight. These spikes affected HGALT (geopotential altitude).

Flight Director:
Phone #:

LTJG Jackie Almeida
(813) 828-3310 ext. 3075



NOAA G-IV N49RF
TS Fay
17 September, 2008



There is no Total Temp #2 sensor installed for this flight.

There is about a 2mb difference between PS1M and PS2M. From test flights comparing aircraft data to dropsonde data PS2M has been closer to representing the actual atmosphere.

There were periods where the dewpoint temperature exceeded the ambient temperature resulting in RH values > 100%. This was likely due to passing through a cloud layer, a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. Corrections were not made to the data.

All other instruments worked optimally during the flight

33 dropsondes launched: 30 good, 4 bad, 29 good drops successfully sent to NCEP and ingested into the 18/00Z model run.

Flight Director:
Phone #:

LTJG Jackie Almeida
(813) 828-3310 ext. 3075

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 080817N	From: KMCF	To: KMCF
FLT #: 08-044	Blk In: 0203 Z 8.7	Lnd Time: 0153 Z 4.3
ETD: 1730 Z	Blk Out: 1722 Z	T/O Time: 1733 Z
ETE: 8 hrs 15 min	Total Blk: 8 hrs 41 min	Total Flt: 8 hrs 20 min
Sponsoring Org: NHC	Program: Hurr 08	Purpose: Surveillance

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: ROGERS
Co-Pilot: ODELL I GLOVER	Avaps:
Navigator: I	System Engineer:
Flight Eng: I	AA: DEFED
Flt Director: FLAHERTY ALMEIDA	AA: MILLER
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew

Name (Last, First)	Activity on Aircraft	Affiliation

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) Storm Name: <u>FAY</u> Mission ID: <u>NOAA 1406A FAY</u> Total TO S. of Cuba till 23Z	48 43 SIE Quad	Recco	
		Times:	Fix #

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 080817A)		T/O Time: 1733 Z		Lnd Time: 0153 Z	
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land	
Pressure	^{PS1C} 1013.7 mb	1013.7	1013.5 mb	^{PS2C} 1013.6	
ATIS - Takeoff	1745 00000kt 105M 30/25 2995				
ATIS - Land	0155 35005kt 105M 27/23 2994				
Data Source	Number	Data Disposition / Date / Quality			
Flight Level Tapes	5	806rf05a-i.ads (9 files)			
Radar Tapes	—				
Cloud Physics Tapes/CD's	—				
Video Tapes/DVD's	—				
Dropsondes	33	Good: 30 Bad: 4 Sent: 29			
AXBT	—				
AXCP	—				
AXCTD	—				
SONOBUOY	—				

Remarks:

N4PRF AOC GPS Dropwindsonde Log

Flight ID: 080817N

Flight Director: LEAHERTY / ALMEIDA

Mission ID: N0449 1406A

Track #: F44 Flt 2(day)

Pg 1 of

Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Pts (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	062249204	161501	29 59	77 58	1014.7	0VC CS		1		
2	061329187	182746	30 00	75 59	1014.8	0VC CS		2		
3	062339048	184038	30 00	74 00	1016.2	0VC CS		3		
4	062259060	185330	29 55	72 03	1015.1	0VC CS		4		
5	061339079	190523	28 30	72 00	1015.2	0VC		5		
6	061449151	191645	27 04	72 04	1015.2	0VC TCU	Fast Fall - NO BWP	7		
7	065036302	193635	27 00	74 30	1015.4	0VC CS		7		
8	062249295	195643	26 56	76 56	—	0VC	Fast Fall - NO BWP	8		
9	061519020	200915	25 30	77 00	1013.1	0VC		8		
10	062049109	202223	23 59	76 56	1012.4	0VC		9		
11	062339120	203630	23 00	75 30	1012.1	0VC		10		
12	061339096	204916	21 58	74 00	1020.0	0VC	Fast Fall	—		
13	062249089	205321	21 28	73 49	1011.9	0VC	Backup 2 Just in case	—		
14	062339078	210159	20 44	73 35	1011.6	0VC CS		12		
15	061529054	211346	19 03	74 02	1010.1	0VC CS	lost data too close to next drop for	13		
16	062259015	212521	19 00	75 31	1009.8	0VC CS		13		
17	061529146	213716	19 00	75 31	1008.6	0VC CS		14		
18	062049171	214934	18 30	78 31	1008.1	0VC CS	grab from 15	15		
19	062249098	220231	18 03	80 08	1007.3	0VC CS	grab from 15	16		
20	061339252	221905	19 00	82 01	1006.1	0VC CS		17		
21	061519059	223647	20 01	84 01	1008.0	0VC CS		18		
22	062249312	225327	21 30	85 30	1009.6	0VC CS		19		
23	062249021	231026	23 01	86 51	1010.9	0VC CS		20		
24	062259017	232139	23 30	85 30	1010.4	0VC CS		21		
25	061529167	233353	24 04	84 02	1010.0	0VC CS		22		
26	061329069	234600	25 26	84 04	1012.2	0VC CS		23		
27	062049221	235754	25 30	85 45	1012.7	0VC CS		24		
28	061519147	001116	25 30	87 30	1012.0	0VC CS		25		
29	062449021	002612	25 34	89 26	1012.1	0VC CS		26		
30	062049043	004815	27 59	89 22	1012.0	0VC CS		27		
31	062339127	010127	28 00	87 29	—	0VC CS		28		

2920
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

640
31

N49RF AVAPS DropSonde Log

Project: Hurr 08 Flight ID: 080817N Flt Dir: Almeida
 Mission: FAY Flight #: Z Status: Sys 1 Sys 2 Launcher S/N:

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD ☒
1	062249204	1	18:15:02	0	5	LM			
2	061329187	2	18:27:47	0	5		lost winds SSO+67Smb		
3	062339048	3	18:40:38	0	6				
4	062259060	4	18:53:31	0	5				
5	061339079	1	19:05:23	0	5				
6	061449151	3	19:16:46	0	5				
7	055036302	4	19:36:36	0	5				
8	062249295	1	19:56:44	0	5		fast fall		
9	061519020	2	20:09:15	0	3				
10	062049109	3	20:22:23	0	4				
11	062339120	1	20:35:31	0	5				
12	062339096	2	20:49:46	0	7				
13	062249089	4	20:53:02	0	5		12 backup		
14	062339078	1	21:01:59	0	5				
15	061529054	3	21:13:46	0	16		lost signal (Sats)		
16	062259015	2	21:25:22	0	5				
17	061529146	4	21:37:11	0	7				
18	062049171	1	21:49:35	0	5		LSO Resol XMIT FALG		
19	062249098	2	22:02:31	0	12				
20	061339252	1	22:19:06	0	9				
21	061519059	3	22:38:40	0	6				
22	062249312	2	22:53:28	0	5				
23	062249021	1	23:10:20	0	5				
24	062259017	3	23:21:40	0	8				
25	061529167	4	23:33:59	0	7				
26	061329069	1	23:45:00	0	7				
27	062049221	2	23:57:54	0	7				
28	061519147	3	00:11:17	0	7				
29	062439021	4	00:26:13	0.4	7				
30	062049043	1	00:48:16	0	5				
31	062339127	4	01:01:27	0	7		fast fall		
32	062049055	2	01:04:19	0	8		31 backup		
33	061329072	3	01:15:23	0	5				

\$ Codes A = AOC N = NHC/NWS H = HRD OW = NESDIS _____ = _____ = _____

080817N
1406A FAY

FLIGHT ID/Storm		AVAPS OPERATOR		FLIGHT DIRECTOR			
Drop #	Launch Time	Sonde ID	Sig Wx	Splash Pressure	Transmission Time	Notes	
1	181501	062249204	N/A	1014.7	143744	N/A	
2	182746	061329187	N/A	1014.8	144848	LUST DATA 12-15 sec	FEET
3	184038	062339098	N/A	1016.2	150525	N/A	
4	185330	062249060	OVC Below	1015.7	152314	OK	
5	190523	061339079	OVC Below	1015.2	152738	OK	
6	191645	061149151	N/A	1015.2	153645	FAST FALL BUT CHICKS OUT	OK
7	193635	055036302	N/A	1013.4	155457	OK	
8	195643	062249041				FAST FALL	→
9	200915	061519020	N/A	1013.1	170693	OK	
10	202223	062049109	N/A	1012.4	171211	OK	
11	203530	061732910	N/A	1012.1	171437	OK	
12	205321	062249089	N/A	1011.9	171648	OK	
13	210159	062249088	N/A	1011.6	172328	OK	
14	211346	054					
15	212521	062249015	N/A	1009.8	174911	OK	
16	213711	061529146	CHOP	1009.1	181132	OK	LAT/LON (Core)
17	214934	062049171	N/A	1008.1	185203	OK	
18	220231	062249098	N/A	1007.3	185814	OK	LAT/LON FIXED
19	221905	061339252	N/A	1006.1	190209	OK	
20	223617	061519059	N/A	1008.0	190459	OK	
21	225327	062249312	N/A	1009.6	192030	OK	
22	231026	062249021	N/A	1010.9	194720	OK	
23	232139	062259017	N/A	1010.4	194951	OK	
24	233353	061529167	N/A	1010.0	195146	OK	
25	234500	061329069	N/A	1012.2	202315	OK	
26	235755	062049224	N/A	1012.7	203643	OK	
27	001116	061519147	N/A	1012.0	203955	OK	
28	002612	062439021	N/A	1012.1	210644	OK	
29	004815		N/A	1012.0	212137	OK	
30	010127					FAST FALL	
31	010419		N/A	1013.4	212628	OK	
32	011523		N/A	1014.4	213620	OK	
33							
34							
35							

+1 Sonde NOT LISTED (BACKED UP)

29/31 OBS
33 SONDES

080817n.log	Latitude	Longitude	Press	Temp	DP	WD	WS
17:02:00	27 50.97'N	82 29.59'W	1014.4	-70.1	36.2	204.7	1.4
17:21:46	27 50.97'N	82 29.59'W	1013.9	35.3	23.4	129.5	2.1
17:33:21	27 51.18'N	82 31.07'W	1012.6	29.2	23.2	130.6	3.0
18:15:03	29 59.08'N	77 58.28'W	175.7	-61.1	-63.8	273.0	22.4
18:27:53	29 59.97'N	75 58.65'W	175.7	-60.2	-65.6	273.8	23.5
18:40:40	29 59.98'N	73 59.53'W	174.6	-60.3	-66.4	275.1	18.4
18:47:15	30 00.20'N	72 58.85'W	174.8	-61.4	-66.8	282.7	17.5
18:53:32	29 55.60'N	72 03.41'W	174.8	-61.0	-67.2	282.3	16.3
18:56:32	29 34.40'N	71 59.99'W	172.1	-61.4	-67.3	249.1	23.3
18:58:08	29 22.98'N	72 00.01'W	167.8	-62.8	-67.2	249.2	19.0
19:00:44	29 04.20'N	72 00.01'W	167.4	-62.6	-66.8	255.7	14.4
still in cs							
19:05:24	28 29.71'N	72 00.01'W	167.5	-62.4	-66.0	289.2	13.4
19:16:48	27 04.09'N	72 03.72'W	167.6	-62.3	-68.4	290.6	16.1
no backup							
19:36:38	27 00.00'N	74 30.23'W	167.3	-62.0	-68.8	266.2	22.7
19:56:42	26 56.04'N	76 56.30'W	167.4	-62.1	-66.5	244.7	23.7
turbulence							
- fast fall, no backup ob							
20:00:44	26 28.85'N	77 00.02'W	161.4	-63.1	-66.1	245.8	20.2
20:09:14	25 29.93'N	76 59.98'W	159.7	-63.4	-67.6	221.6	17.3
20:10:57	25 18.06'N	76 59.97'W	159.9	-63.8	-67.8	221.2	14.6
before 2000z							
20:13:59	24 56.71'N	76 59.96'W	159.8	-63.8	-67.4	184.8	9.6
still in cs							
20:22:18	23 59.17'N	76 56.30'W	159.8	-63.8	-67.4	146.5	5.9
20:35:30	22 59.93'N	75 29.94'W	160.0	-63.4	-68.2	299.8	9.2
20:49:17	21 57.63'N	73 59.98'W	160.1	-63.5	-69.7	341.8	8.9
20:53:23	21 28.35'N	73 49.39'W	159.9	-63.3	-69.8	326.1	7.4
20:59:32	20 44.20'N	73 34.71'W	159.9	-63.9	-69.9	16.4	8.8
now							
21:01:59	20 26.27'N	73 31.56'W	159.9	-63.4	-69.9	14.3	5.5
21:13:48	19 02.92'N	74 02.39'W	159.9	-63.5	-69.6	359.1	4.6
no ob.							
21:25:26	18 59.99'N	75 30.76'W	159.9	-62.8	-70.1	264.9	3.3
21:30:10	19 00.09'N	76 06.83'W	159.8	-62.7	-70.1	172.4	1.9
21:30:10	19 00.09'N	76 06.83'W	159.8	-62.7	-70.1	172.4	1.9
21:42:50	18 46.01'N	77 42.38'W	152.3	-64.6	-70.0	105.2	4.9
7mins before last drop.		drop was at 21:37:10					
21:49:35	18 29.57'N	78 31.34'W	152.4	-65.1	-70.7	61.9	2.9
21:50:18	18 27.86'N	78 36.55'W	152.3	-64.7	-70.7	116.5	3.5
to ATC traffic							
21:59:13	18 06.23'N	79 41.60'W	160.0	-63.0	-70.0	72.2	2.0
21:59:13	18 06.23'N	79 41.60'W	160.0	-63.0	-70.0	72.2	2.0
postn: 18deg 03min N 080deg 08min W							
22:11:54	18 35.74'N	81 10.99'W	160.0	-62.2	-70.4	249.8	4.2
turbulence							
22:13:46	18 42.10'N	81 23.78'W	159.9	-63.2	-70.4	205.4	7.6
FL440							
22:19:07	19 00.22'N	82 00.49'W	152.3	-65.4	-70.6	212.5	8.6
22:33:35	19 49.67'N	83 39.13'W	152.2	-64.2	-70.5	215.6	16.8
light cs							
22:36:46	20 00.80'N	84 00.59'W	152.2	-64.4	-70.5	208.3	19.9
22:53:27	21 30.20'N	85 30.18'W	151.9	-63.7	-71.2	242.1	15.5

80817n.log

MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
9.2	9.2	134.5	45.0	1.4	0.2	0.00	Test
8.8	8.8	134.5	138.9	2.8	0.6	0.01	block out
12.0	11.9	219.1	220.7	77.4	77.2	0.08	t/o
13111.9	13075.9	73.0	74.4	225.8	246.8	1.22	drop 1
13117.8	13081.7	89.0	89.6	229.5	252.9	-0.10	drop 2
13136.6	13100.4	89.2	89.8	228.9	247.2	-0.08	drop 3
13126.3	13090.2	89.0	89.9	228.0	245.0	-0.35	light turbulence
13122.1	13085.9	144.2	139.6	227.8	236.1	0.14	drop 4
13268.2	13231.0	185.6	180.1	227.3	217.7	3.56	climbing to FL420
13420.4	13382.1	184.6	180.1	226.8	219.3	1.44	in cs layer
13447.8	13409.1	183.4	180.0	228.4	224.4	-0.25	light turbulence,
13430.0	13390.8	183.4	180.0	225.5	229.5	0.06	drop 5
13448.3	13407.5	227.7	223.1	225.6	218.9	-0.02	drop 6 - fast fall,
13476.6	13435.7	270.1	270.2	226.5	203.7	-0.25	drop 7
13489.7	13448.6	224.2	222.6	227.6	205.4	-0.50	drop 8 in light
13719.5	13676.7	184.5	179.8	226.5	217.3	4.05	climbing to FL430
13787.7	13743.6	183.0	180.1	228.5	215.1	-0.33	drop 9 - ob 8
13769.4	13725.2	182.6	180.2	223.8	212.5	0.39	spike in dplc just
13785.1	13740.5	180.5	180.3	228.6	218.9	-0.72	in light turbulence.
13781.8	13736.2	146.4	146.8	226.0	220.0	-0.03	drop 10 - ob 9
13782.0	13735.6	126.2	126.1	223.8	232.8	-0.24	drop 11 - ob 10
13778.7	13731.3	148.5	148.6	225.9	234.5	0.28	drop 12 - fast fall
13786.3	13738.5	162.9	162.4	226.2	233.2	0.26	drop 13 - ob 11
13780.3	13731.9	161.1	162.3	224.9	232.1	-0.19	above cloud layer
13778.0	13729.3	189.0	188.6	224.8	230.2	0.10	drop 14 - ob 12
13790.8	13740.9	236.1	234.5	225.5	228.1	-0.43	drop 15 - lost data,
13795.4	13745.5	270.6	270.6	225.5	222.2	-0.56	drop 16 - ob 13
13791.0	13741.1	270.0	270.5	225.6	225.8	-0.52	drop 17 - ob 14
13791.0	13741.1	270.0	270.5	225.6	225.8	-0.52	climbing to FL440
14081.0	14029.3	250.1	250.8	224.6	228.6	-0.56	winds crashed ~
14087.7	14035.6	251.1	250.9	224.5	227.2	0.28	drop 18 - ob 15
14085.2	14033.2	250.5	250.9	224.7	227.1	0.77	descend to FL430 due
13806.6	13755.9	250.2	250.3	226.9	228.9	-0.42	winds crashed again
13806.6	13755.9	250.2	250.3	226.9	228.9	-0.42	drop 19 - ob 16 -
13811.6	13761.3	296.4	297.2	230.7	227.8	-0.10	in and out of light
13807.8	13757.5	295.3	297.1	225.6	225.7	0.90	climbing back to
14096.6	14044.9	295.8	297.7	224.5	223.6	-0.16	drop 20 - ob 17
14091.8	14040.8	293.8	298.0	223.7	220.9	-0.25	light turbulence in
14093.3	14042.5	305.7	310.1	225.7	228.9	0.19	drop 21 - ob 18
14079.3	14029.9	313.9	317.4	225.6	221.1	2.07	drop 22 - ob 19 -

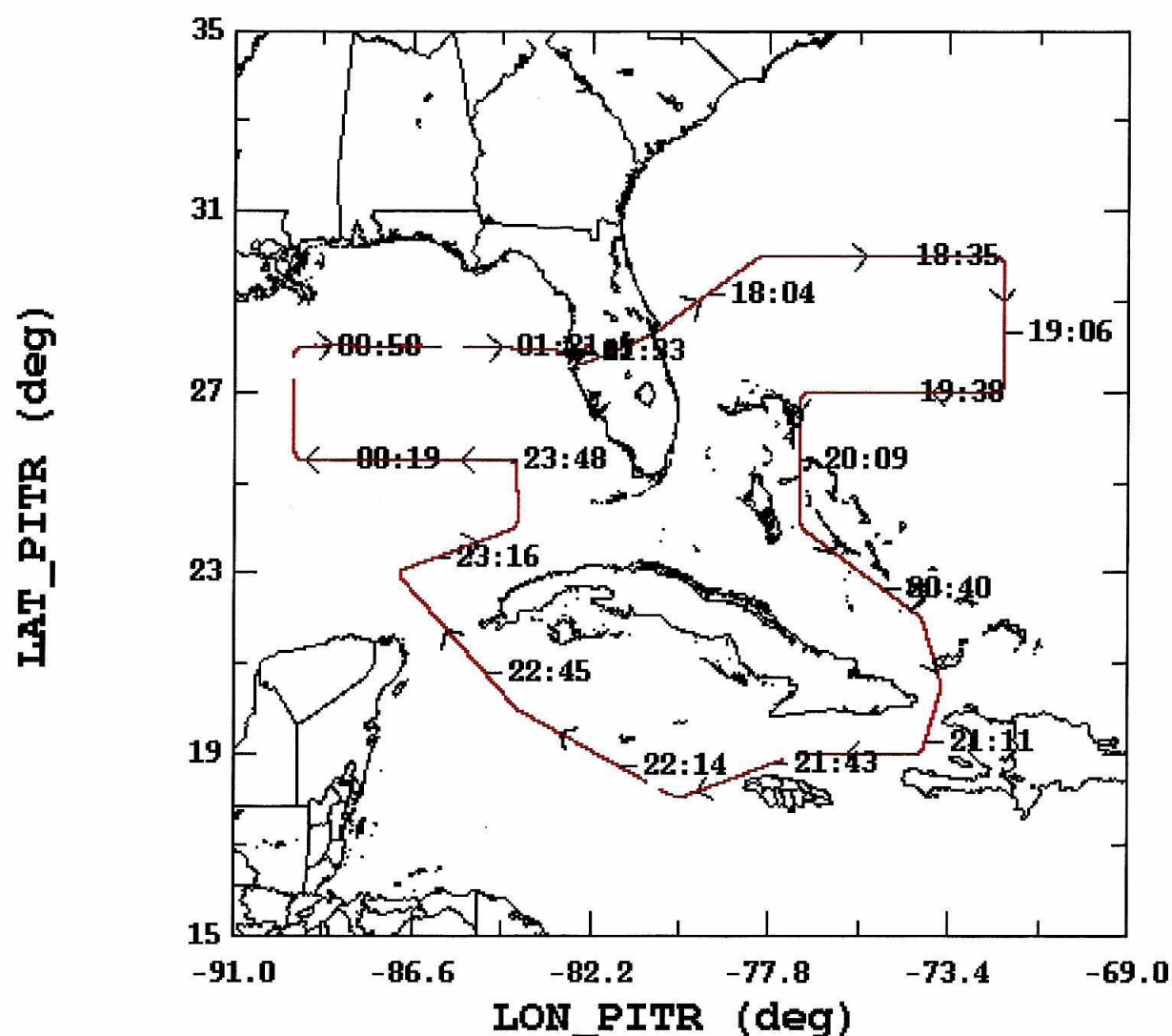
23:10:29	23 01.32'N
23:16:42	23 18.23'N
turbulence	
23:21:42	23 30.12'N
23:33:57	24 04.36'N
23:45:01	25 26.38'N
23:57:56	25 29.94'N
00:09:51	25 30.02'N
light turbulence	
00:11:19	25 29.97'N
00:26:14	25 33.88'N
00:33:17	26 20.52'N
crashed again	
00:48:12	27 59.02'N
delayed b/c of program	
01:01:30	28 00.00'N
01:04:20	28 00.13'N
backup	
01:10:14	28 00.16'N
01:10:14	28 00.16'N
postn: 28deg N 85 deg	
01:48:21	28 00.51'N
01:48:43	28 00.02'N
01:48:43	28 00.02'N
01:57:34	27 50.75'N

23:10:29	23 01.32'N	86 51.29'W	144.9	-64.7	-71.9	317.2	9.6
23:16:42	23 18.23'N	86 05.67'W	145.1	-64.3	-71.8	40.8	8.3
turbulence							
23:21:42	23 30.12'N	85 29.69'W	145.1	-64.2	-72.1	23.3	9.0
23:33:57	24 04.36'N	84 01.61'W	145.1	-66.2	-72.3	192.4	6.0
23:45:01	25 26.38'N	84 04.14'W	145.1	-66.3	-72.7	223.0	12.1
23:57:56	25 29.94'N	85 45.41'W	145.0	-67.6	-72.7	188.2	7.9
00:09:51	25 30.02'N	87 18.72'W	145.2	-67.5	-72.8	230.6	4.1
light turbulence							
00:11:19	25 29.97'N	87 30.35'W	145.2	-66.7	-72.9	226.7	3.8
00:26:14	25 33.88'N	89 26.08'W	145.1	-66.3	-73.0	323.3	10.9
00:33:17	26 20.52'N	89 29.99'W	145.3	-67.4	-73.1	323.9	23.9
crashed again							
00:48:12	27 59.02'N	89 21.67'W	145.1	-66.5	-73.2	328.9	22.9
delayed b/c of program crash							
01:01:30	28 00.00'N	87 29.12'W	145.2	-67.1	-72.9	332.6	13.1
01:04:20	28 00.13'N	87 05.19'W	145.2	-66.9	-73.1	325.8	14.1
backup							
01:10:14	28 00.16'N	86 14.46'W	145.3	-64.7	-73.1	316.2	11.4
01:10:14	28 00.16'N	86 14.46'W	145.3	-64.7	-73.1	316.2	11.4
postn: 28deg N 85 deg 28 min w							
01:48:21	28 00.51'N	82 19.34'W	954.6	26.1	19.1	244.4	1.3
01:48:43	28 00.02'N	82 20.55'W	954.5	26.2	18.7	225.0	1.5
01:48:43	28 00.02'N	82 20.55'W	954.5	26.2	18.7	225.0	1.5
01:57:34	27 50.75'N	82 30.94'W	1012.3	27.5	22.4	304.1	3.1

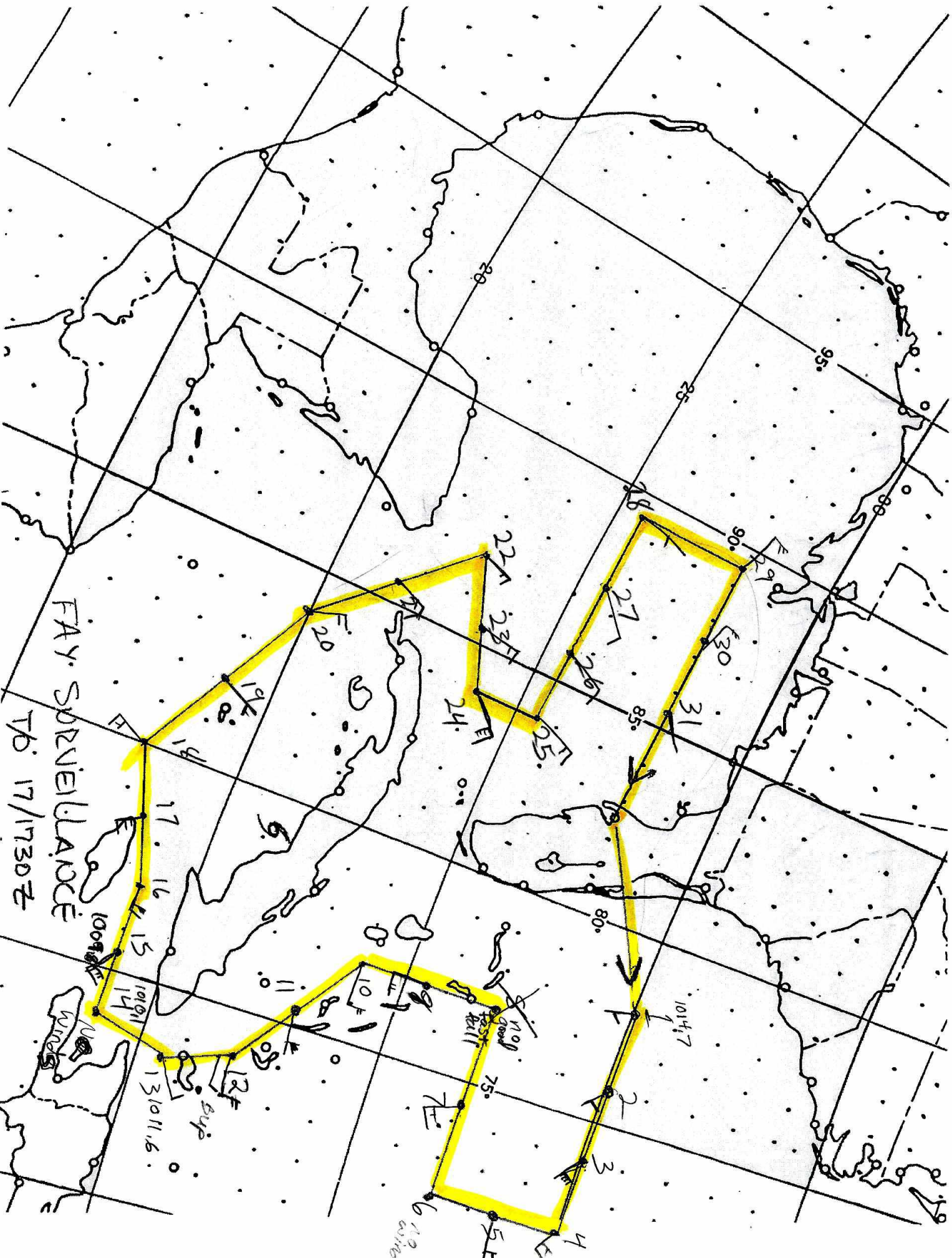
14355.1	14305.4	33.4	34.5	225.2	222.9	-0.72	drop 23 - ob 20
14357.7	14308.3	69.7	70.6	227.7	220.5	0.59	some light
14347.2	14298.1	69.1	70.7	223.4	217.1	0.44	drop 24 - ob 21
14349.2	14300.6	25.5	25.6	223.7	229.5	-0.17	drop 25 - ob 22
14352.1	14304.8	310.8	314.4	227.9	227.9	0.36	drop 26 - ob 23
14358.2	14311.0	268.9	270.7	225.1	223.9	-0.38	drop 27 - ob 24
14350.5	14303.4	270.4	270.8	222.3	219.0	0.14	in and out of some
14348.8	14301.6	271.0	271.2	224.7	221.9	0.02	drop 28 - ob 25
14358.5	14311.3	317.0	315.9	225.9	215.1	0.67	drop 29 - ob 26
14353.1	14306.8	356.5	0.0	223.8	204.1	0.46	winds program
14334.8	14290.3	61.7	66.7	225.1	227.0	0.28	drop 30 - ob 27 -
14334.8	14290.4	87.8	90.7	224.1	230.0	0.02	drop 31 - fast fall
14333.0	14288.6	87.7	90.5	224.3	232.0	-0.33	drop 32 - ob 28 -
14341.0	14296.5	88.5	90.5	226.7	234.5	-0.30	winds crashed
14341.0	14296.5	88.5	90.5	226.7	234.5	-0.30	drop 33 - ob 29 -
516.0	515.5	246.3	246.3	97.9	96.6	-0.12	winds program crash?
516.7	516.2	246.4	246.3	98.0	96.5	-0.19	test
516.7	516.2	246.4	246.3	98.0	96.5	-0.19	land 0153z
8.5	8.5	88.4	89.3	9.2	11.5	0.00	block in 0203

Hurricane_2008, Flight #rf05

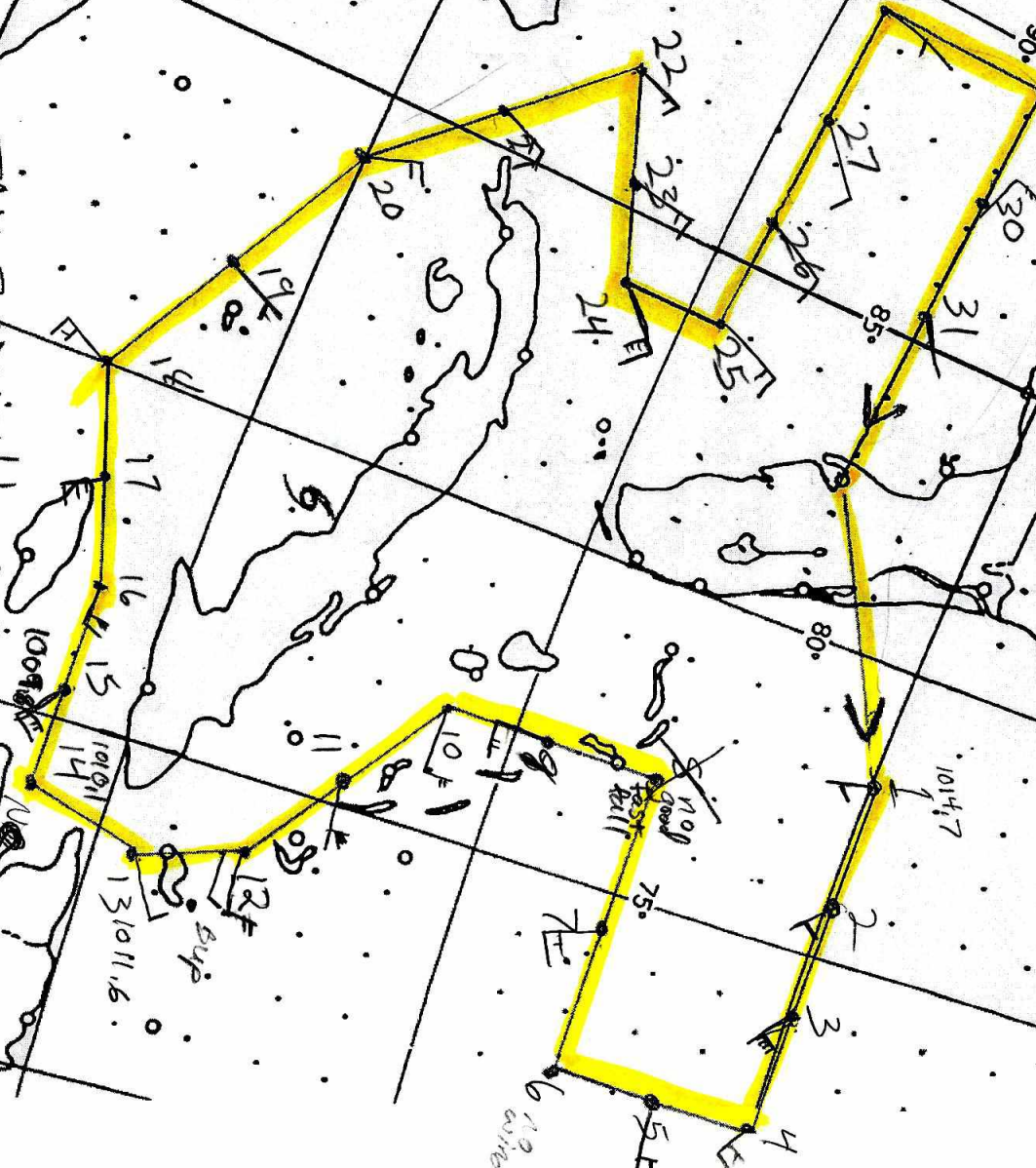
08/17/2008, 17:33:00-25:53:00



	mean	sigma	min	max
LAT_PITR (deg), 1 s/sec	24.90	3.69	18.04	30.01
LON_PITR (deg), 1 s/sec	-80.24	5.36	-89.51	-72.00



FAY SPURVELLAICE
TD 17/1730Z



- 1) 30 N ✓
78 W
- 2) 30 N ✓
76 W
- 3) 30 N ✓
74 W
- 4) 30 N ✓
72 W
- 5) 28 30 N ✓
72 W
- 6) 27 N ✓
72 W
- 7) 27 N ✓
74 30 W
- 8) 27 N ✓
77 W
- 9) 25 30 N ✓
77 W
- 10) 24 N ✓
77 W
- 11) 23 N ✓
75 30 W
- 12) 22 N ✓
74 W
- 13) 20 30 N ✓
73 30 W
- 14) 19 N ✓
74 W
- 15) 19 N ✓
75 30 W
- 16) 19 N ✓
77 W
- 17) 18 30 N ✓
78 30 W
- 18) 18 N ✓
80 W
- 19) 19 N ✓
82 W
- 20) 20 N ✓
84 W
- 21) 21.30 N ✓
85 30
- 22) 23 N ✓
87 W
- 23) 23 30 N ✓
85 30 W
- 24) 24 N ✓
84 W
- 25) 25 30 N ✓
84 W
- 26) 25 30 N ✓
85 45 W
- 27) 25 30 N ✓
87 30 W
- 28) 25 30 N ✓
89 30 W
- 29) 28 N ✓
89 30 W
- 30) 28 N ✓
87 30 W
- 31) 28 N ✓
85 30 W