



NOAA G-IV ERROR SUMMARY
HURRICANE 2007
Dist. in Gulf of Mexico



Flight ID: N070919

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW_PITR, VNS_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT3
Dew Point Probe	DPRC
Static Pressure	PS2M
Dynamic Pressure	QC2M
Attack Angle	AKRD1
Slip Angle	SSRD2
Vert. Wind	PALT
Constants File	49cal071
Project Directory	/proj/706

Local surface observation not current or unavailable.

Takeoff at 1720Z Land at 0118Z

Notes:

There were no data gaps.

The Total Temperature #2 (TT2) probe was not available for this mission.

Dynamic slip pressure #1...DBP1...exhibited erroneous data from 2040Z - 0101Z.

This did not impact any meteorological derivations since it was not selected.

All other instruments worked optimally during the flight.

All 32 tempdrop messages were successfully sent to NHC and made it into the 20/00Z model run.

	Takeoff	Landing
Aircraft Static Pressure	1012.6mb	1009.6mb
Corrected Tower Pressure	1012.4mb	1010.0mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

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

AOCWF1

Flt ID: <i>N0709190</i>	From: <i>KMCF</i>	To: <i>KMCF</i>
Flt No: <i>07-075</i>	Blk In: <i>0126z</i>	ATA: <i>0118z</i>
ETD: <i>1730z</i>	Blk Out: <i>1710z</i>	ATD: <i>1720z</i>
ETE:	Blk Time: <i>8:16 (8.3)</i>	Flt Time: <i>7:58 (8.0)</i>
Sponsor Org: <i>NHC</i>	Program: <i>HURRICANE</i>	Purpose: <i>DISTURBANCE NEAR FLORIDA</i>

AOC Personnel

AC: <i>FINN</i>	Sys Eng:
CP: <i>ODELL / LONGENECKER</i>	Data Sys: <i>ROBERS</i>
Nav:	Radar:
FE:	GPS/BT: <i>RASCO, DEFEO</i>
FD: <i>DAMIANO</i>	Cld Phys:
Avionics:	<i>ASPEN: MAYEAUX / ALMEIDA</i>

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

29.9z 1925 check temps

29.9z 1935z

DBP1

Pyros H2L

NOAA9 ~~DATA~~ SYNOPSIS

011A SURVEILLANCE

24 2984
26

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AOCWF2

Flt ID: N070919 Time Off: 1720Z Time On: 0118Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	<u>1012.6</u>	<u>29.92</u> / <u>1012.4</u>	1009.6 / <u>1009.6</u>	1010.0 / <u>29.84</u> / <u>1010.0</u>

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	<u>1</u>	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<u>32</u>	<u>30 good; 2 quit about halfway down on Ch. 2 (R5)</u> <u>32 messages sent</u>

Video

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

Remarks

N49RF AOC GPS Dropwindsonde Log

Flight ID N070919

Flight Director D. ANDRANO

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Mission ID DLITR

Storm SUPERVULCANIC

3213 2574
7045 7236

2456
7647

3145
7654

4816

NIS/HS

Drop#	Sonde ID#	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failure	Send Time (UTC)
1	060226502	174849	2951	8016		RM clouds				
2	060226378	175845	2927	7906	1008	THK cir/cb				
3	060226497	181805	3055	7757		THK cir/cb				
4	060226460	182912	3010	7601		THK cir/cb				
5	060226274	184323	3158	7554		THK cir/cb				
6	060226476	185555	3155	7403		THK cir/cb				
7	061329283	191256	3000	7902	1014	THK cir/cb				
8	060226508	192410	2950	7560		THK cir/cb				
9	060226498	193527	2806	7602		THK cir/cb				
10	060226503	194531	2856	7703		THK cir/cb				
11	060416048	195606	2816	7815		THK cir/cb				
12	061329209	200726	2700	7800		cur/scrsc				
13	061539303	201905	2542	7818		THK cir/cb				
14	055036163	203020	2440	7908		CLR				
15	061237021	204054	2405	8020	1009	CLR				
16	061329207	210247	2331	8259		CLR/scrsc				
17	060226326	212126	2542	8342		CLR/cb				
18	060226387	213208	2658	8404		CLR/cb				
19	060226482	214551	2655	8555		CLR/cb				
20	061329193	220102	2507	8538		CLR/scrsc				
21		221734	2557	8732		CLR/cb				
22	054556022	2223103	2500	8900		THK cir/cb				
23	061329894	224503	2404	9031		CLR/scrsc				

N49RF AOC GPS Dropwindsonde Log

Flight ID 070919N Flight Director Paviano / Mayeaux / Almeida Page 2 of 2
 Mission ID N0009 Storm 01TIA Storm Surveillance

Drop #	Station # (SND) ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
24	061519126	231321	26.00	93.30	1013.2	SCA	191957	24	0	1920
25	061519126	231321	26.00	93.30	1013.2	SCA	193636	25	0	1936
26	061519125	234013	26.00	90.30	1012.7	BLN	201600	27	0	2016
27	061519125	234013	26.00	90.30	1012.7	BLN	202002	28	0	2020
28	061449178	000634	28.00	90.00	1014.5	BLN	202720	29	0	2027
30	060226273	004037	29.00	86.00	1014.0	darL	204903	30	0	2050
31	060226273	004037	29.00	86.00	1014.0	darL	205933	31	0	2059
32	060226273	004037	29.00	86.00	1014.0	darL	205933	31	0	2059

Last Ob

Sent 2x
210044

N49RF AVAPS DropSonde Log

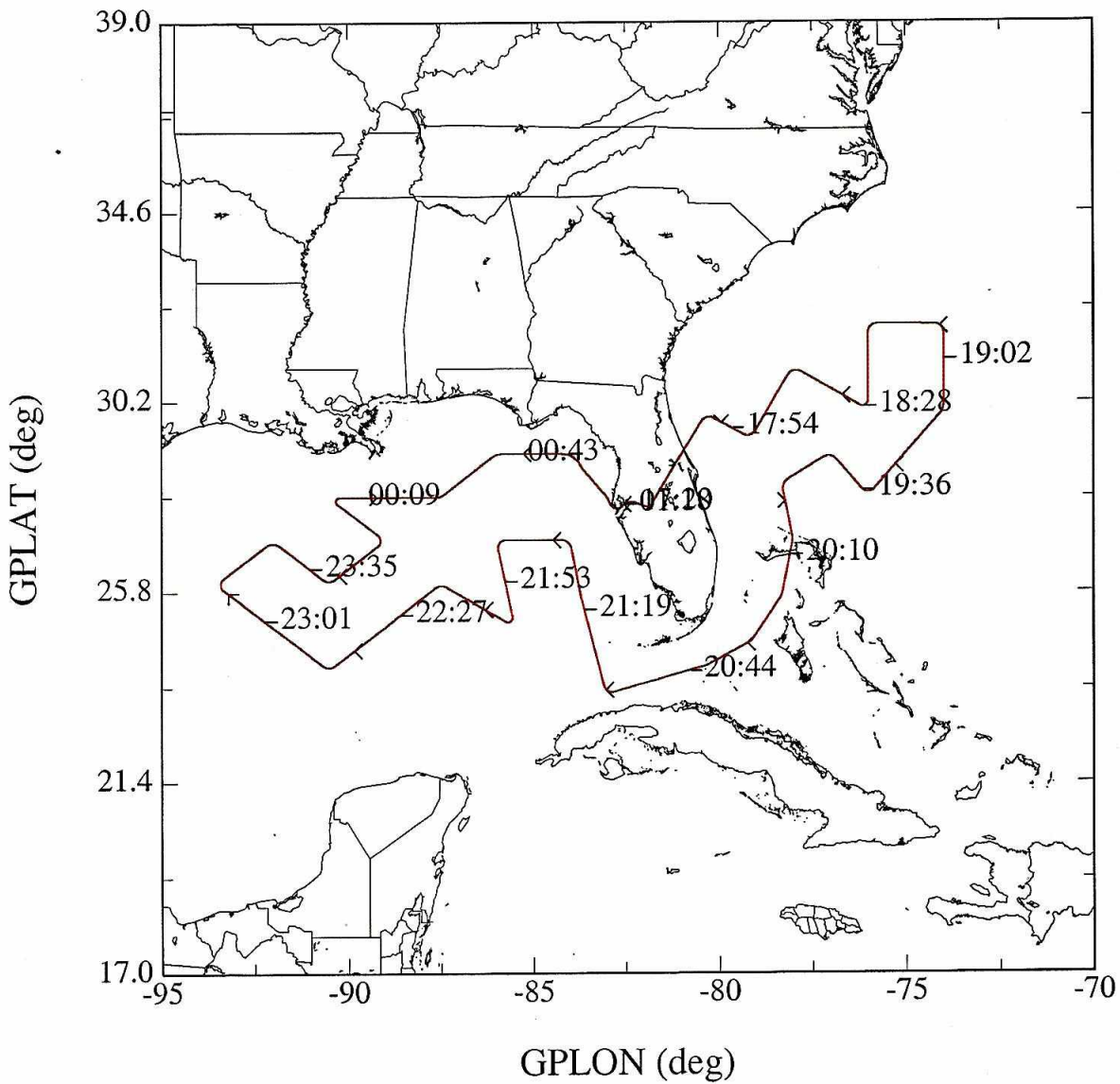
Project: HULL 01007 Flight ID: 070910 DAMIANO
 Mission: TD-10 Flight #: 1 Status: Sys 1 Sys 2 Launcher S/N: 02

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD <input checked="" type="checkbox"/>
1	060226502	1	1748	0	15	CR			/
2	060226378	2	1758	0	6				/
3	060226497	1	1813	0	4				/
4	060226460	2	1829	0	5				/
5	060226274	1	1843	0	35				/
6	060226476	2	1855	0	5				/
7	060226477								
8	061329233	1	1912	0.5	4				/
9	060226508	2	1924	0.3	4				/
10	060226498	1	1935	0	5				/
11	060226503	2	1945	0	4				/
12	060416048	3	1956	0	4				/
13	061329209	1	2007	0	6				/
14	061339303	2	2019	0.2	4				/
15	055036163	1	2030	0	4				/
16	061239021	2	2040	0.4	5				/
17	061329207	1	2102	0	3				/
18	060226324	1	2121	0.3	4		LOST DATA @ 570MB		/
19	060226385	2	2132	0	5				/
20	060226492	3	2145	0	7				/
21	061329193	1	2201	0	6				/
22	061339261	6	2217	0	4		ON LS (RS FAILED)		/
23	054556022	1	2231	0	6				/
24	061319094	2	2245	0.3	56				/
25	060416041	1	2259	0	6				/
26	061519126	2	2313	0.5	4				/
27	060226477	1	2328	0	5				/
28	061519125	3	2340	0.3	4				/
29	060226444	4	2353	0	4				/
30	061449178	1	0006	0	30				/
31	060226504	3	0026	0	38				/
32	060226273	1	0040	0	5				/
33	060226275	3	0055	0	7				/

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

Hurricane 2007 Dist. in Gulf of Mexico

09/19/2007, 17:20:00-25:18:00



	mean	sigma	min	max
— GPLAT (deg), 1 s/sec	27.42	2.21	23.48	32.00
— GPLON (deg), 1 s/sec	-83.14	5.62	-93.38	-74.00

NOAA G-IV Flight Track for TDNINE? (AL092007)
On 2007092000 the storm was centered at 27;-81

