

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

FLT ID: 080829N	From: KMCF	To: KMCF
FLT #: 08-048	Blk In: 0016 Z	Lnd Time: 0010 Z
ETD: 1730 Z	Blk Out: 1711 Z	T/O Time: 1720 Z
ETE: 7hrs	Total Blk: 7hrs 5min	Total Flt: 6hrs 50min
Sponsoring Org: NHC	Program: HUR08	Purpose: SURVEILLANCE

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: ROGERS
Co-Pilot: LONGENECKER	Avaps:
Navigator: 1	System Engineer:
Flight Eng: 1	AA: CARPENTER
Flt Director: MAYEAUX / ALMEIDA	AA: MILLER
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew

Name (Last, First)	Activity on Aircraft	Affiliation
BREWER, JIM		AOC

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Recco

Times:

Fix #

Fix Time

Storm Name: GUSTAV

Mission ID: NOAA 1107A

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

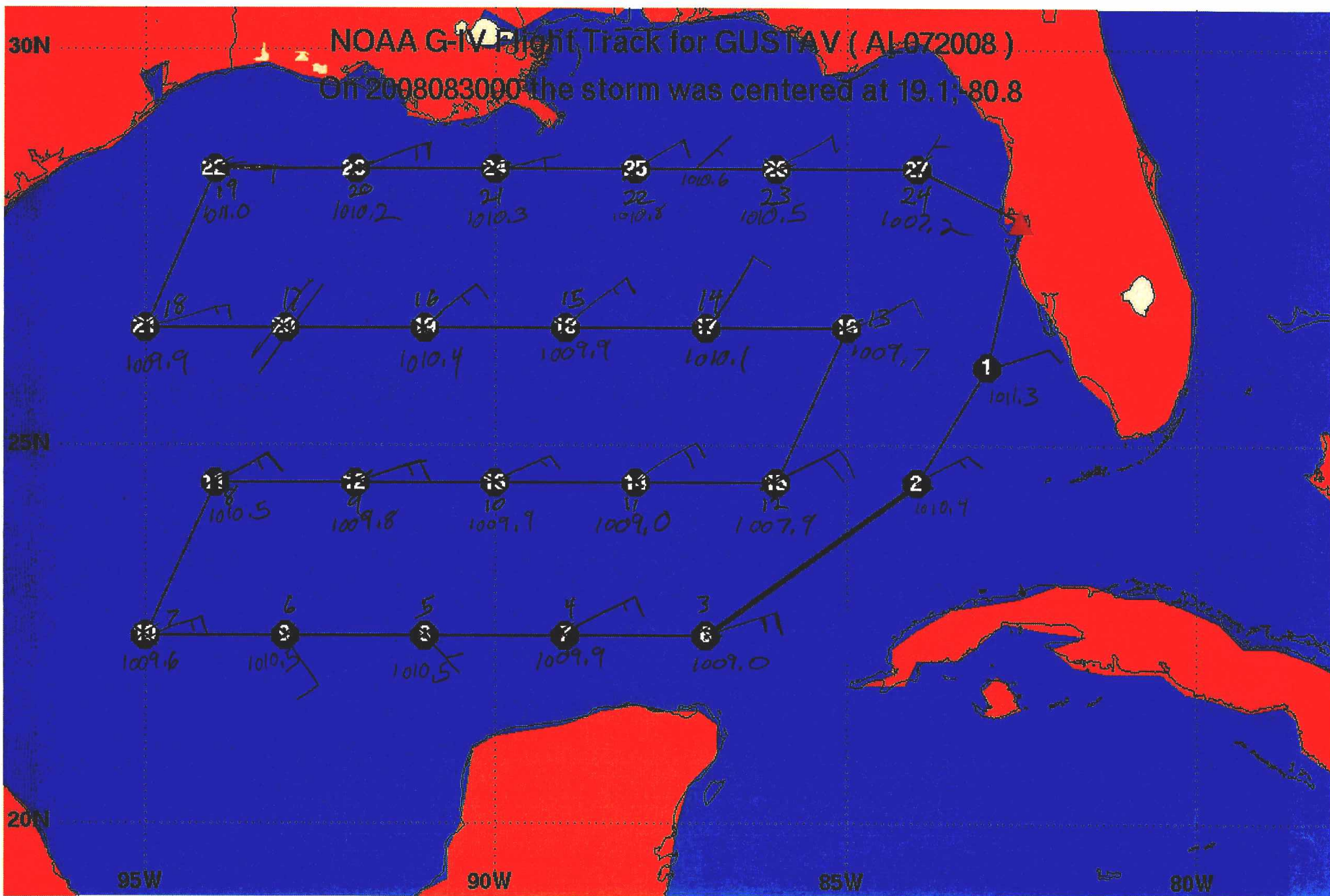
FLT ID: 080829N		T/O Time: 1720 Z		Lnd Time: 0010 Z	
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land	
Pressure					
ATIS - Takeoff	1645 var 04 p65M 31/24 2991				
ATIS - Land	2355 36004 105M 28/24 29.84				
Data Source	Number	Data Disposition / Date / Quality			
Flight Level Tapes	1				
Radar Tapes	—				
Cloud Physics Tapes/CD's	—				
Video Tapes/DVD's	—				
Dropsondes	27	Good: 23 Bad: 4 Sent: 23			
AXBT	—				
AXCP	—				
AXCTD	—				
SONOBUOY	—				

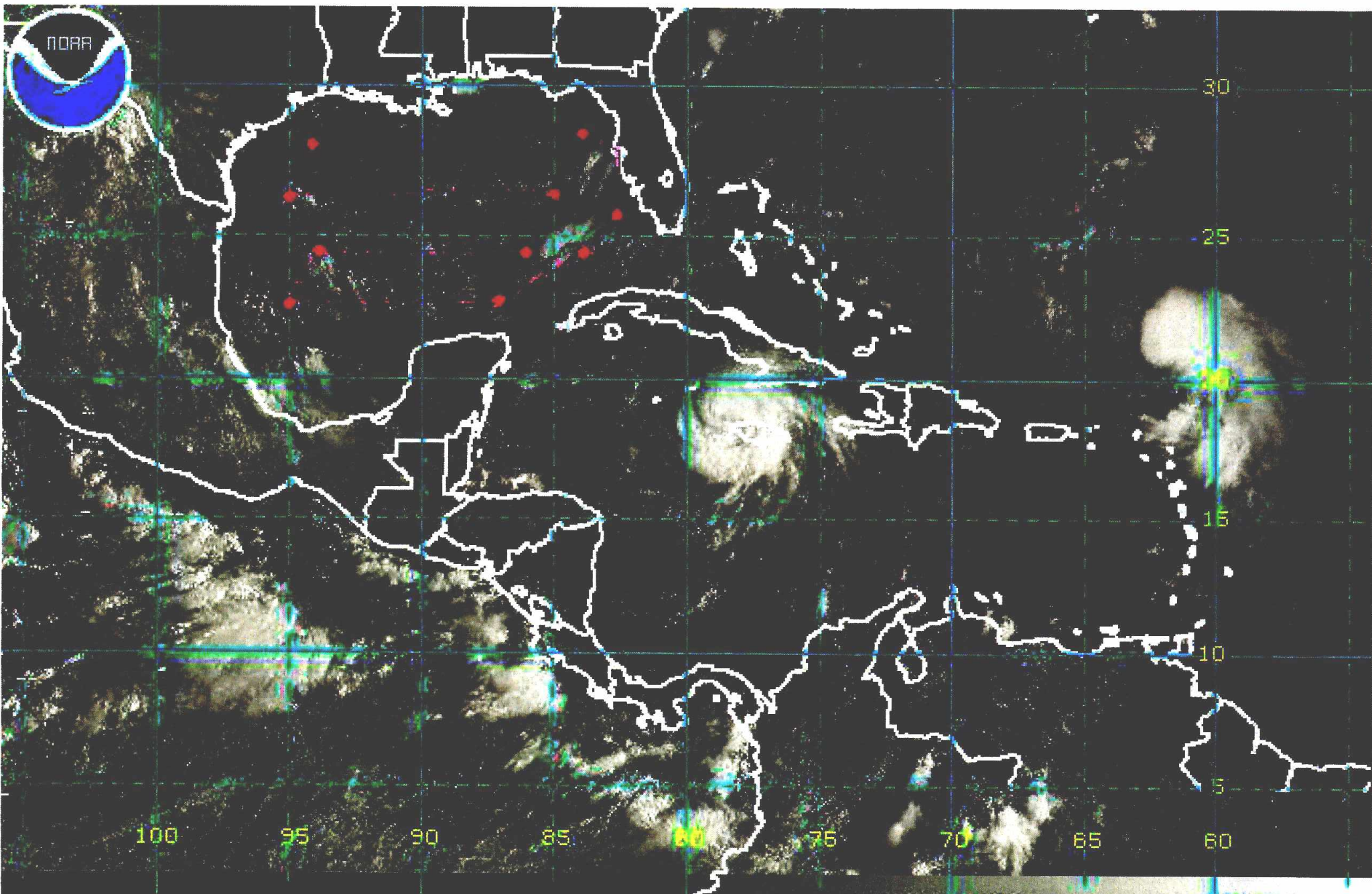
Remarks:

30N

NOAA G-IV Flight Track for GUSTAV (AL072008)

On 2008083000 the storm was centered at 19.1, -80.8





N49RF AOC GPS Dropwindsonde Log

Flight ID 080829N

Flight Director Almeida/Mayaux

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Mission ID NOAA 1107A

Storm Gustav

Drop#	Channel# SONDE ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	06239065	174434	2430	8400	1010.3	Sct	Wind 141828	1		1801
2	062439016	180028	2430	8400	1010.4	Bkn Bclow	Wind 141828	2		1818
3	06151901	182430	2230	8700	1009.6	Sct Bclow	Wind 144841	3		1848
4	062259021	184528	2230	8900	1009.8	Bkn CB	Wind 150510	4		1905
5	062259022	190024	2230	9100	1010.5	Bkn CB	Wind 151719	5		1919
6	062249002	191611	2230	9300	1010.5	Sct cu	Wind 153354	6		1934
7	060256020	193034	2230	9500	1009.6	Sct	Wind 154456	7		1949
8	061349031	194855	2430	9400	1010.5	Sct	Wind 160725	8		2007
9	06239069	200356	2430	9200	1009.8	Sct	Wind 162322	9		2023
10	062259036	201911	2430	9000	1009.9	Sct	Wind 163645	10		2038
11	062259012	203542	2430	8800	1009.6	Few clds	Wind 165221	11		2052
12	062259022	204857	2430	8600	1007.9	Undercast	Wind 171049	12		2111
13	062339022	210243	2630	8500	1009.7	Clear	Wind 172208	13		2123
14	062839059	211958	2630	8700	1010.1	Few clds	Wind 173809	14		2138
15	062339118	213449	2630	8900	1009.9	Few clds	Wind 175017	15		2154
16	054556414	214932	2630	9100	1010.4	Sct low clds	Wind 181138	16		2211
17	054556414	220704	2630	9300	—	Few low clds	Wind 182308	17	Fast fail	—
17b	054622298	221000	2630	9340	Lost	Signal	Wind 1836	—	—	—
18	062249066	221949	2630	9500	1009.9	Few	Wind 185044	18		2259
19	062339112	223733	2830	9400	1011.0	Few	Wind 185933	19		2315
20	062049028	225205	2830	9200	Fast fail	Undercast	Wind 19	Fast fail	—	—
20b	061229107	225516	2830	9180	1010.2	Undercast	Wind 191449	19		2315
21	061329076	230432	2830	9000	1010.3	Undercast	Wind 192410	20		2324

1012 MB

Right Propeller ~250' high at Takeoff

Almeida / mayeavn

Flight Director.

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Storm Gustav

[illegible]

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080829N

Flight Director: ALMEIDA / MAYEAUX

Mission ID: NOAA 1107A

Track #: GUSTAV

Pg 1 of

13265

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Prs (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	1	062339065	174439	26 00	83 00	1011.3	OVC CS Cu Tcu				
2	2	062439016	180028	24 30	84 00	1010.4	OVC CS Tcu Cu				
1	3	06151906	182930	22 31	87 01	1009.0	OVC CS Cu Tcu				
2	4	062259021	184528	22 32	89 05	1009.9					
1	5	062259013	190024	22 33	91 01	1010.5	OVC CS Cu				
2	6	062249002	191611	22 33	91 30	1010.5	OVC CS Cu Tcu				
1	7	060256020	193034	22 35	94 54	1009.6	OVC CS Cu				
2	8	061329031	194855	24 28	93 57	1010.5	OVC CS Cu				
1	9	062339079	200356	24 32	92 00	1009.8	OVC CS Tcu Cu				
2	10	062259036	201911	24 33	89 58	1009.9	BKN CS Cu				
1	11	062259014	203346	24 32	88 02	1009.0	BKN Cu Tcu Haze				
26	12	062259022	204857	24 33	86 01	1007.9	OVC CS AS Cu Grab L5				
1	13	062339012	210543	26 27	85 07	1009.7	OVC CS Cu				
2	14	062839059	211958	26 33	87 02	1010.1					
1	15	062539118	213449	26 35	89 02	1009.9	BKN Cu Haze				
2	16	054556414	214952	26 35	91 01	1010.4	OVC CS Cu	16			
1	17	054556412	220704	26 33	93 18	FAST FALL	delayed 2 mins for traffic				
2	18	05462698	221000	26 32	93 39	—	OVC CS Cu	lost signal @ 237kt			
5	19	062249068	221949	26 35	94 54	1009.9	OVC CS Cu	L5			
1	20	062339112	223733	28 28	93 57	1011.0	OVC CS Cu				
2	21	062049028	225208	28 34	91 57	—	OVC CS	FAST FALL			
1	22	061229107	225516	28 34	91 31	1010.2	OVC CS Cu				
2	23	061329076	230633	28 35	89 58	1010.3	OVC CS Cu				
1	24	062839001	232120	28 35	87 58	1010.8	OVC CS Cu Tcu Winds Port @ 200kts				
2	25	054646018	232910	28 34	86 53	1010.6	BKN Cu HAZE				
4	26	062439064	233731	28 33	85 46	1010.5	BKN Cu HAZE				
1	27	062839013	234910	28 30	84 08	1007.2	OVC AS HAZE				
						?					

post

17

17

18

19

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20b

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22

22b

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24

N49RF AVAPS DropSonde Log

Project: Hurr '08 Flight ID: 080829 Flt Dir: Almeida
 Mission: GUSTAV 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 ☒
1	062 339 065	1	1744	0	4	DWC	OK	N	☒
2	062 439 016	2	1800		3				☒
3	061 519 016	1	1829		1				☒
4	062 259 021	2	1845		2				☒
5	062 259 013	1	1900	↓	7				☒
6	062 249 002	2	1916	.6	1				☒
7	060 256 020	1	1930	0	4				☒
8	061 329 031	2	1948		1				☒
9	062 339 079	1	2003		2				☒
10	062 259 036	2	2019		3				☒
11	062 259 014	1	2033		3		↓		☒
12	062 259 022	2	2048		2		Lost signal on RS-good on LS		☒
13	062 339 012	1	2105		2		OK		☒
14	062 839 059	2	2119		2		↓		☒
15	062 339 118	1	2134		1				☒
16	054 556 414	2	2149		4		↓		☒
17	054 556 412	1	2207		3		Fast fall		☒
18	054 626 298	2	2210		26		Blw for drop #17 - lost signal		☒
19	062 249 068	1	2219		4		dropped from LS (#re)		☒
20	062 339 112	1	2237		4		Drop 19		☒
21	062 049 028	2	2252		3		Drop #20 = fast fall		☒
22	061 229 107	1	2255		1:19		h/u for drop 20 - late winds		☒
23	061 329 076	2	2307		3		Drop #21		☒
24	062 839 001	1	2321		2		lost winds @ 300 mb		☒
25	054 646 018	2	2329		54		h/u for drop 22		☒
26	062 439 064	4	2337		1		OK		☒
27	062 839 013	1	2349	↓	5	↓	↓	↓	☒
28									
29									
30									
31									
32									
33									

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

080829n.log	Latitude	Longitude	Press	Temp	DP	WD	WS
17:05:26	27 50.95'N	82 29.61'W	1012.2	34.3	63.7	154.7	1.0
17:10:56	27 50.95'N	82 29.61'W	1012.1	36.8	63.8	159.2	0.9
17:20:04	27 50.70'N	82 31.53'W	1011.0	30.9	61.3	0.3	1.8
17:22:02	27 52.93'N	82 24.97'W	953.4	26.4	57.5	61.0	2.1
too high.							
17:23:34	27 52.24'N	82 19.14'W	884.1	21.2	56.1	91.0	6.4
17:24:04	27 50.27'N	82 18.17'W	855.4	19.5	55.6	81.7	5.6
17:27:27	27 41.00'N	82 27.78'W	649.3	5.6	47.9	203.6	3.6
17:44:40	25 59.83'N	83 00.54'W	220.2	-48.1	-48.2	194.0	18.6
17:45:31	25 54.84'N	83 03.42'W	209.6	-50.7	-49.6	193.9	20.5
18:00:28	24 30.14'N	84 00.48'W	175.4	-58.0	-61.3	178.2	24.8
18:18:27	23 16.44'N	85 51.58'W	175.4	-57.5	-63.0	183.9	12.8
18:29:28	22 31.02'N	87 01.01'W	175.5	-58.2	-63.5	235.2	7.2
18:38:41	22 31.54'N	88 12.42'W	174.4	-58.5	-64.3	288.5	7.7
18:45:29	22 32.29'N	89 05.17'W	167.3	-60.5	-65.2	312.3	7.8
18:49:09	22 32.59'N	89 33.66'W	167.0	-61.7	-65.6	337.7	7.6
19:00:27	22 32.85'N	91 01.35'W	167.3	-62.2	-66.3	334.6	16.4
19:04:11	22 32.91'N	91 30.28'W	167.4	-61.3	-65.3	340.8	15.5
went through some cloud tops.							
19:05:30	22 32.87'N	91 40.45'W	167.4	-61.9	-66.3	344.7	19.5
layers now.							
19:16:10	22 32.18'N	93 02.96'W	167.6	-61.7	-67.0	354.7	15.7
19:20:07	22 31.75'N	93 33.73'W	167.6	-61.3	-66.6	340.1	9.7
19:30:35	22 35.02'N	94 54.10'W	167.4	-60.9	-66.9	355.4	13.2
19:35:36	23 07.01'N	94 41.73'W	167.5	-60.9	-67.1	1.2	15.2
turb.							
19:48:56	24 28.07'N	93 57.03'W	167.6	-61.9	-67.6	357.3	20.7
19:49:40	24 29.90'N	93 51.77'W	164.5	-62.7	-67.6	358.8	21.2
20:03:56	24 32.37'N	91 59.19'W	159.7	-64.1	-68.9	355.0	23.3
20:06:05	24 32.58'N	91 42.15'W	159.7	-64.0	-69.0	358.2	23.9
cs layer							
20:19:11	24 33.14'N	89 58.26'W	159.6	-62.6	-68.5	1.8	12.8
20:33:45	24 32.36'N	88 01.89'W	159.7	-61.1	-67.8	37.0	8.0
20:48:57	24 33.17'N	86 01.34'W	159.7	-60.3	-67.4	154.8	7.3
20:59:19	25 43.24'N	85 23.66'W	157.5	-61.8	-67.5	164.8	8.9
21:05:35	26 27.05'N	85 07.02'W	152.2	-60.8	-67.7	208.6	13.4
21:19:58	26 33.41'N	87 02.28'W	152.1	-59.9	-67.8	226.1	6.4
21:34:51	26 35.01'N	89 02.45'W	152.1	-61.4	-67.8	284.7	6.3
scattered, not fast fall							
21:49:53	26 34.98'N	91 01.48'W	152.1	-63.1	-68.7	306.2	5.9
22:07:12	26 32.94'N	93 18.26'W	152.1	-65.4	-69.2	304.3	10.8
for aircraft traffic - fast fall							
22:10:00	26 32.41'N	93 39.87'W	152.0	-65.4	-69.4	302.8	10.7
signal							
22:18:07	26 30.59'N	94 42.60'W	152.1	-66.5	-70.0	315.2	11.8
light turb							
22:19:48	26 34.75'N	94 53.79'W	152.1	-65.7	-70.1	301.9	16.4
22:20:25	26 38.85'N	94 54.95'W	150.7	-65.8	-70.1	304.7	16.0
22:30:15	27 42.48'N	94 24.06'W	144.9	-66.1	-70.6	310.5	19.4
layer							
22:37:33	28 27.91'N	93 57.37'W	144.7	-64.2	-70.4	323.7	18.5
22:52:06	28 33.57'N	91 57.35'W	144.7	-63.8	-70.1	346.5	11.3
22:55:17	28 34.09'N	91 30.83'W	144.9	-62.5	-70.0	348.3	13.0
23:06:34	28 35.26'N	89 58.75'W	144.9	-63.0	-69.5	28.3	11.9

80829n.1log

MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
8.3	8.3	134.5	349.7	0.4	0.6	0.00	test
6.5	6.5	134.6	350.4	0.4	0.6	0.00	block out
10.6	10.6	38.9	39.6	78.0	76.5	0.23	t/o
509.1	508.7	78.1	78.5	108.6	106.5	-0.23	dpr keeps reading
1156.4	1155.2	148.0	149.8	128.2	124.5	7.40	at cloud bases level
1434.6	1433.0	157.4	159.5	137.7	135.7	15.68	in cloud turb
3753.6	3748.1	261.1	263.5	177.4	175.3	7.00	in cloud turb
11697.6	11664.4	200.4	200.5	224.4	205.7	5.41	drop 1
12014.1	11979.3	210.1	211.6	223.8	204.0	4.92	dpr is back
13133.2	13091.6	219.8	223.7	229.8	211.7	0.29	drop 2
13134.7	13092.0	231.5	234.0	229.9	221.4	0.27	light turb
13134.9	13091.5	254.3	254.3	228.2	221.4	0.32	drop 3
13137.0	13093.6	272.0	271.4	229.0	221.5	0.16	up to FL420
13423.0	13378.2	272.4	271.0	228.1	222.2	-0.23	drop 4
13432.5	13387.6	272.5	270.7	228.2	225.1	-0.62	light turb
13444.0	13399.0	276.2	271.4	228.0	220.0	0.34	drop 5
13446.7	13401.6	273.7	269.9	229.5	223.9	-0.05	spike in dewpoints
13442.5	13397.5	274.7	269.8	225.8	219.8	0.13	in betw. cloud
13457.0	13412.0	273.4	269.2	225.6	223.8	0.41	drop 6
13461.1	13416.0	271.3	268.9	225.6	222.3	0.34	in cs layer
13474.5	13429.4	336.7	334.3	227.8	215.4	-0.26	drop 7
13467.4	13422.8	23.5	24.8	226.4	212.4	-0.40	at cloud tops, light
13460.3	13416.9	57.3	61.3	226.4	216.5	-0.25	drop 8
13567.4	13523.5	73.4	78.1	226.1	221.2	2.74	climb to FL430
13729.8	13685.1	83.4	89.3	224.7	225.3	0.66	drop 9
13726.0	13681.3	83.6	89.3	225.8	225.0	0.42	light turb very thin
13716.4	13671.8	86.9	89.9	226.4	225.6	0.18	drop 10
13716.3	13671.7	88.9	90.3	227.0	222.1	-0.08	drop 11
13715.1	13670.5	56.2	55.0	227.9	229.1	0.05	drop 12
13796.5	13752.6	26.0	24.4	227.1	233.8	3.39	climb to FL440
13998.6	13954.3	318.9	323.0	226.6	231.7	0.02	drop 13
14001.5	13957.3	270.2	271.2	228.1	223.5	-0.18	drop 14
14000.3	13956.2	271.0	270.5	225.1	218.8	-0.01	drop 15 - winds
14007.3	13963.1	270.7	269.7	226.0	221.2	0.48	drop 16
14036.2	13991.8	270.3	268.6	224.8	215.9	0.26	drop 17 - delayed
14037.5	13993.1	270.0	268.4	223.6	214.7	-0.15	drop 18 - lost
14040.2	13995.8	270.2	267.8	222.8	214.6	0.17	above cs layer,
14039.1	13994.8	330.5	331.5	226.8	212.4	0.10	drop 19 - ob 17
14091.1	14046.5	359.2	1.3	225.2	215.9	2.67	climbing to FL450
14334.3	14289.6	20.2	24.7	223.9	218.0	0.60	light turb. thin cs
14338.6	14294.7	55.5	59.4	225.7	226.8	-0.05	drop 20 - ob 18
14318.8	14275.1	86.3	89.0	224.8	227.0	-0.89	drop 21 - fast fall
14313.7	14270.0	85.9	89.0	226.2	228.3	-0.13	drop 22 - ob 19
14313.5	14269.8	86.8	89.4	224.1	218.1	0.92	drop 23 - ob 20

23:21:20	28 35.24'N	87 58.30'W	144.8	-61.7	-69.4	17.2	7.7 ⁰
at ~31 kft							
23:29:11	28 34.51'N	86 53.85'W	144.8	-61.2	-69.2	82.7	6.0
23:37:31	28 33.19'N	85 45.64'W	144.8	-61.6	-69.1	106.3	3.2
23:49:10	28 30.32'N	84 08.40'W	145.0	-62.0	-69.4	225.0	8.7
00:09:48	27 50.42'N	82 31.79'W	1008.7	28.8	23.7	321.5	5.0
00:16:27	27 50.94'N	82 29.55'W	1009.1	30.7	21.6	329.2	2.2

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14305.4	14261.8	88.2	89.9	225.3	222.9	0.07	drop 24 - lost winds	
14303.1	14259.5	90.4	90.4	225.5	219.6	-0.08	drop 25 - ob 21	
14316.7	14272.9	91.6	91.2	227.8	224.8	0.03	drop 26 - ob 22	
14327.8	14283.9	94.2	92.5	226.1	232.0	0.04	drop 27 - ob 23	
13.3	13.3	38.6	42.4	68.1	67.1	-0.33	land	
10.9	10.9	316.2	153.5	0.4	1.8	-0.01	block in	