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

20110906N1	From: KMCF	To: KMCF
No: 11-082	Blk In: 1941 z	Time On: 1934 z
ETD: 1100 z	Blk Out: 1100 z	Time Off: 1109 z
ETE: 8.30	Blk Time: 8.7 Hrs	Flt Time: 8.4 Hrs
Sponsoring Org: HRD	Program: PFI	Purpose: KATIA Res.

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: DEFEO
Co-Pilot: TOTH / MOYERS	AVAPS: MASCARO / PAUL
Navigator: /	System Eng: GOLDSTEIN
Flight Eng: /	A A:
Flight Director: HENNING MORGAN	A A:
Avionics:	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
DUNION, JASON	HRD / PI	

26 SONDES
26 GOOD and transmitted

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

Storm Name:

Mission ID: NOAA9 WA12A KATIA

Penetration number and time AL122011

Recco Times		Fix #	Fix Time
1009.3	STA PRE	29.81	t/o
1011.0		29.8	land

(See reverse for additional remarks)

N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm: Katia
Dropwindsonde Scientists: Jason Dunion / Morgan
Flight ID: 110906N1
Flight Director: Rich Henning
Page 1 of ___
Mission ID: WA12A
AVAPS Operators: ___
Takeoff from MacDill at 1100 UTC
Recovery at ___ at ___ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	101935281	1248	30.46	69.83	1014.2	060/17	10				
1A	101655131	1303	29.29	68.08	1011.5	045/24	10			5-10% RH 300-550 / 20% 650-850 45-50% RH 650-900mb	01 02
1B	101655084	1309	28.83	67.42	1010.4	040/29	10			Double wind max 550/850mb coincs w/ dry layers	03
2	101655165	1317	28.32	66.59	1004.9	035/47	10			another double wind max (600/850mb) 80kt / 70kt maxes 70% RH at wind max	04
2a	101715136	1330	29.79°	66.15°	1012.1	060/24	10			32% RH @ 800mb, 10% RH @ 600mb	
3	103515349	1339	30.42°	65.79	1015.1	090/23	10			Max Winds 900-500mb 15% RH @ 250mb, 45% mb	05
3a	102145115	1346	29.98°	65.58	1013.0	090/30	10			750mb Wind Max 35kt 10-15% @ 400mb - Wind Max 500mb	06 07
3b	101655137	1355	29.00°	65.34	1009.1	045/33	10			≈40% RH @ 460mb and 900mb Wind Max 250mb, 46kts	
4	101715199	1402	28.29°	65.07	1004.4	090/57	10			Dry 15% RH @ 350mb Deep Moisture, Slight "Dry" layer @ 700-650mb	08
4a	101715178	1416	29.17	63.41	1013.3	115/25	10			Only 65%-70% RH though, 60kt 550-900mb	09
5	101655176	1427	29.85	61.95	1017.6	110/25	10			dry sounding, ~55m/s jet 850mb (collocated dry slot)	10
5a	101655171	1441	28.63	62.93	1013.1	135/36	10			700mb dry slot (65% RH) T/INV at base of slot double wind max 550+900mb	11
6	101655219	1456	27.19	63.99	1006.1	130/48	10			Dry 400mb, 600mb, 800mb all ≈20% RH Wind min @ 250mb of <10kts, Moist layer >400mb	12
6a	101715190	1509	25.82	63.17	1012.0	150/31	10			Relative Dryness @ 950-700mb ≈10%, otherwise moist sounding, Peak Winds 84kt @ 500mb	13
7	102025128	1520	24.56	62.52	1013.6	155/20	10			Dry layer 400-500mb, 10-15% RH. Moist 350mb and up Wind max @ 350mb, 48kts	14
7a	103125317	1533	25.01	64.10	1010.7	145/29	10			Dry Layer 700-350mb, 10-30% RH	15
8	102535066	1546	25.46	65.69	1003.8	200/44	10			Dry Layer 550-400mb, 10% RH Wind Max 42kts @ 200mb, 48kts @ 400mb	16
										Shallow wind maxs 250/450mb (70-80kt) dry slot 650-850mb	17

N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm _____ Dropwindsonde Scientists _____ Page ____ of ____

Flight ID _____ Flight Director _____ Takeoff from _____ at _____ UTC

Mission ID _____ AVAPS Operators _____ Recovery at _____ at _____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
8a	102535218	1552	25.26	66.41	1004.7	230/40	10			Shallow 250-300 jet remains 65kt	18
9	102535084	1617	24.66	69.71	1011.6	305/15	10			dry 550-850mb (20-45% RH) UL dry 300-500mb (down to 5% RH)	19
9a	101935275	1628	25.55	68.81	1008.6	315/24	10			40-60% RH 600-900mb dry slot 350-475mb	20
10	103115511	1638	26.47	67.98	1004.5	320/35	10			Dry @ 250mb, 10% RH; 400mb, 35% RH 650-800mb 65% RH	21
10a	102535224	1649	24.85	69.33	1008.3	330/18	10			Dry Above 250mb & 10% RH	22
11	103115451	1700	27.27	70.63	1011.9	010/21	10			10-15% RH @ 350-500mb 25% @ 800mb. Peak Wind 22kts @ 250 & 900mb	23
11a	101655148	1713	27.70	68.96	1007.8	355/28	10			10-15% RH @ 250mb, 30-40% @ 300-410mb 55% RH @ 750-900mb - Wind Max 400, 600 & 850	24
12	102535154	1721	28.04	67.96	1003.1	360/46	10				25
12a	103125073	1736	29.47	69.09	1011.3	045/21	10			Min Wind @ 200mb Double Max 850, 400mb of 32kts	

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N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

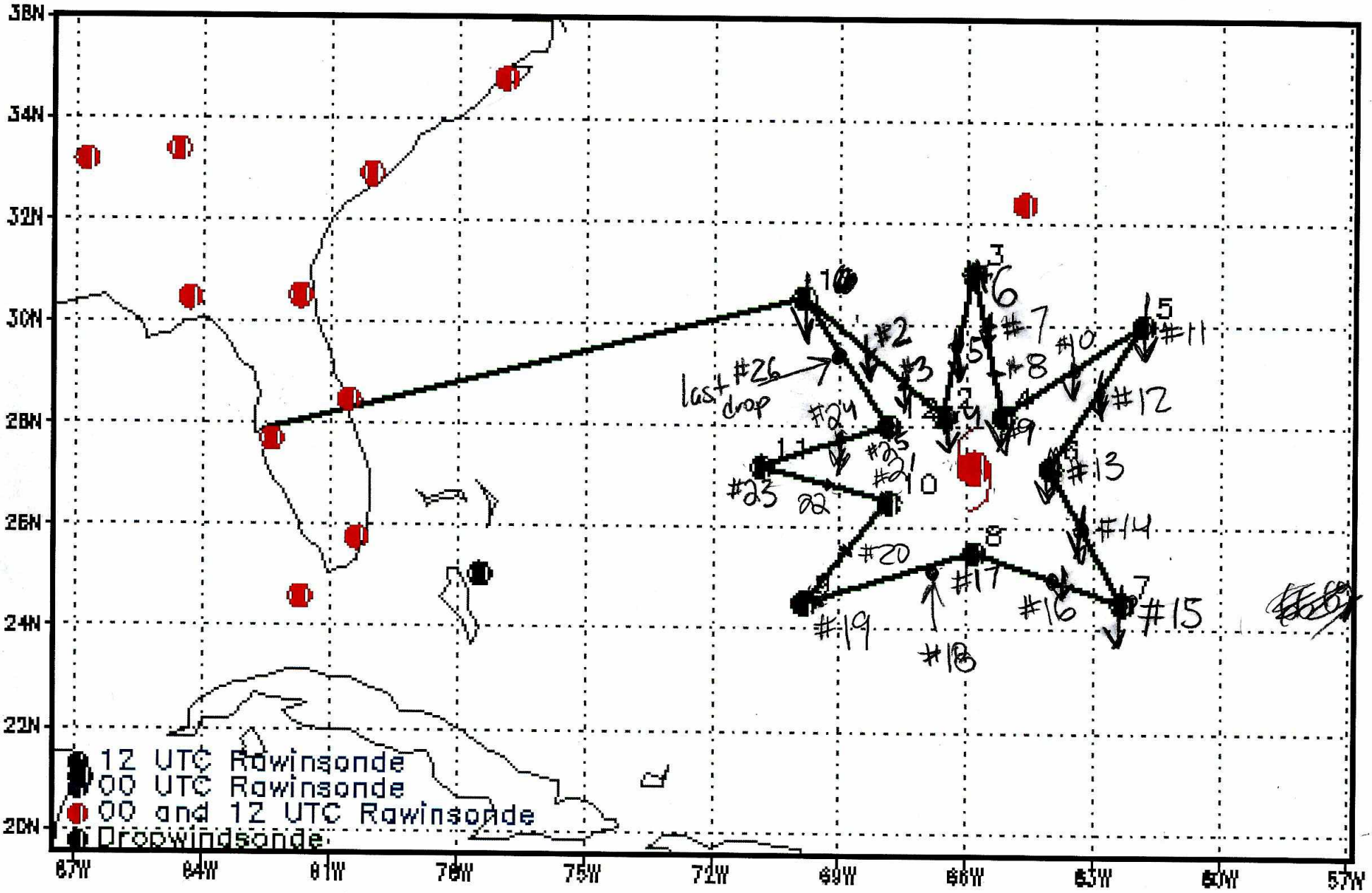
Project : Hurricane 2011
Take Off : 1109

Mission: HURRICANE KATIA
Landing: _____

Flight ID: 20110906N1
Flt Dir : HENNING / MOYER

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge $$ To	Comments	Good ?
1	101935281	1	.5	1248		MAN	HRD		✓
2	101655131	2	Ø	1303	N/A				✓
3	101655084	3	Ø	1309					✓
4	101655165	4	Ø	1317					✓
5	101715136	1	Ø	1330					✓
6	103515349	2	0	1339					✓
7	102145115	3	.8	1346					✓
8	101655137	4	.7	1355					✓
9	101715168	1	.7	1402					✓
10	101715178	2	.8	1416					✓
11	101655176	3	.7	1427					✓
12	101655171	4	.7	1441					✓
13	101655219	1	.6	1456					✓
14	101715190	2	1.1	1509					✓
15	102025128	3	Ø	1520					✓
16	103125317	4	0	1533					✓
17	102535066	1	0	1546					✓
18	102535218	3	.5	1552					✓
19	102535084	2	.7	1617					✓
20	101935275	4	.9	1628					✓
21	103115511	1	0	1638					✓
22	102535224	2	.7	1649					✓
23	103115451	3	0	1700					✓
24	101655148	4	.6	1713					✓
25	102535154	1	.7	1721					✓
26	103125073	2	.5	1739					✓
27									
28									
29									
30									
31									
32									
33									
34									

Charge to NWS/HFIP per Jim McFadden



GrADS: COLA/IGES

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