

M4213RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm KATIA Dropwindsonde Scientists Morgan/Dunson Page 1 of 2

Flight ID 20110907N1 Flight Director HENNING/MORGAN Takeoff from MacDill at 0705 UTC

Mission ID N00AA9WB12A AVAPS Operators Mike Mascaro / Steven Paul Recovery at MacDill at 0300 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd hgt (kt) (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	103515362	1323	32.22°	72.50°	1015.0	100/16 10	-	-	Dry Layer 250-300mb 210%RH, 450mb 22%RH	01
1a	102525173	1246	31.94°	70.91°	1012.7	000/20 10	-	-	Small Inversion @ 450mb, 600mb Pretty Dry throughout Wind Max 300-350mb	02
1b	102535241	1254	31.19°	69.99	1010.3	065/20 10	-	-	Subsidence Inv @ 300-350mb, RH 5% Dry @ 500-550mb, RH 25-30% Wind/Spd 200-300mb	03
2	102615176	1301	30.77°	69.26°	1006.5	065/46 10	-	-	Subs. Inv. @ 400mb, RH 33% Dry Layer @ 800mb, RH 65%	04
2a	102615313	1312	32.11°	69.47°	1013.0	085/26 10	-	-	Dry Layer @ 300mb, 5%RH Subs. Inv. @ 350mb and 550mb	05
3	104055249	1322	33.27°	68.49°	1016.6	100/27 10	-	-	Subs. Inv. @ 325mb, 5%RH Subs. Inv. @ 300mb, 32kt; 650mb 28kt	06
3a	103115493	1329	32.48°	68.26°	1014.8	090/28 10	-	-	Subs. Inv. @ 325mb, RH 5% Wind Max @ 200mb, 200mb, 600mb	07
3b	103455603	1336	31.49°	68.04°	1012.0	095/35 10	-	-	Subs. Inv. @ 225mb, 400mb, 550mb Double Wind Max @ 850mb, 550mb	08
4	103615030	1344	30.15°	67.77°	1008.3	100/48 10	-	-	Subs. Inv. @ 800-850mb, 45%RH	09
4a	103125117	1359	31.69°	65.94°	-	-	-	-	Quit after 400mb	10
4b	103615098	1407	32.20°	65.08°	1018.4	110/24 10	-	-	No PTU until 650mb	11
4c	102535221	1407	32.25°	64.91°	1016.9	115/26 10	-	-	Fast Fall to 300mb, then OK	12
5	102535101	1414	31.84°	64.89°	1017.9	120/23 10	-	-	Moist Inv. @ 350mb, Dry underneath Wind Max 375mb, 950mb 15-25%RH	13
5a	103645064	1424	30.90°	65.76°	1015.4	115/30 10	-	-	Dry Layer 435-525mb, 25%RH	14
6	102515001	1437	29.59°	66.67°	1008.9	135/46 10	-	-	Wind Max @ 250mb 52kts, 500mb 76kts, 600mb 84kts	15
6a	102615161	1446	26.68°	66.11°	1013.2	160/33 10	-	-	Strong Convective Updrafts?? Funny dz/dt signature at 500mb	16
6b	101425134	1454	27.63°	65.57°	1014.0	145/28 10	-	-	Moist Inv. @ 450mb Wind Max: 350mb 42kts, 500mb 52kts, 650mb 50kts	17

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Storm Katia Dropwindsonde Scientists _____ Page _____ of _____
 Flight ID 110907N1 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 hgt (kt) (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
7	103115450	1501	27.05°	65.20°	1015.3	145/25/10	—	—	Moist Inv. @ 400mb Dry level @ 550mb RH 25-30% Wind Max @ 350mb	18
7a	1038415066	1513	27.161°	66.60°	1010.9	165/30/10	—	—	Dry 950mb-800mb Moist Inv @ 600mb sfc FNN Dry level @ 250mb	19
7b	103755140	1516	27.76°	66.94	1009.0	165/41/10	—	—	Dry Layer 200mb-300mb	20
7c	1041055122	1519	27.91°	67.34°	1006.6	160/53/10	—	—	Dry Above 300mb, Moist lower RH ~ 10% RH	21
8	104055102	1522	28.07°	67.74°	1003.2	175/50/10	—	—	Subs Inv. just under 300mb and 250mb	22
8a	103815060	1516	27.50°	70.76	1006.1	265/36/10	—	—		23
8b	103815054	1550	27.40°	71.27	1008.1	280/26/10	—	—	dry layers 600+900 mb 45 kt jet 600mb sfc RH 78% see RH 78%	24
8c	104055096	1554	27.19°	71.80	1009.5	320/25/10	—	—		25
9	103115464	1557	27.13°	72.18	1010.3	290/28/10	—	—	end of circ cloud hls (sw point)	26
9a	103815123	1611	28.04°	70.83	1004.3	300/36/10	—	—	70% RH at sfc (back behind arc cloud)	27
10	103755099	1623	28.93°	69.66	996.0	265/53/10	—	—	Dry Layer 300-400mb, RH ~ 40% Moist Elsewhere	28
10a	104055112	1633	29.31°	71.04°	1001.1	335/36/10	—	—	Dry sfc to 900mb, 300-400mb RH 5% @ 300mb	29
11	1041055093	1644	29.69°	72.30°	1005.4	310/26/10	—	—	Subs Inv @ 550mb, 300mb Pretty dry throughout	30
11a	104055082	1655	30.10°	70.64°	1001.4	015/38/10	—	—	Dry sfc to 900mb, moist 900mb to 700mb, and dry above, sfc RH=75%	31
12	1041055060	1705	30.49°	69.65	995.6	050/63/10	—	—	Deep Moist sounding Peak Wind @ 96 kts @ 850mb	32
12a	104055073	1715	31.26°	70.66°	1007.0	050/55/10	—	—	Dry Layer 360mb, 700mb, sfc. RH 72% @ sfc Wind Max 72 kts @ 700	33
13	1038415036	1725	31.95°	71.73	1011.3	045/23/10	—	—	Subs Inv. 800-900mb, Dry above	34
13a	1038415064	1529	28.37°	68.54°	991.4	190/57/10	—	—	Peak Wind 96 kts @ 900mb	35

Arc Cloud