



N49RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm IRENE Dropwindsonde Scientist JASON DUNION Page 1 of 2
Flight ID 050808N Flight Director BARRY DAMIANO Takeoff from BARBADOS at 1450 UTC
Mission ID WX09A IRENE AVAPS Operators Ray Tong / Dale Carpenter Recovery at BARBADOS at 2145 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	DLM wind (kt)	Comments	Processed	SATCOM tries	Ob #
1	002615503	152021	14.502	56.168	1015.3	110/03	4	90°/05	- pictures down the "dry alley" at 1830Z - dust image from ~1900Z - dust on left, none on right 1917Z (200h) ~5% RH 200-600mb moist below		1	01
2	002525261	153042	15.001	55.004	1015.6	205/04	8	55°/05	RH very variable, dry above ~500-800mb		1	02
3	002615510	154442	15.998	53.619	1015.1	335/04	8	30°/07	RH variable 300-600mb (5-80%) moist 700-SFC		1	03
4	002615501	161036	17.835	51.003	1014.7	090/06	7	355°/03	Close to Jordan, but 10-40% RH 200-650mb Late winds 80 S, spotty winds 450-540mb		1	04
5	042815231	164014	19.914	47.912	1015.3	NA	—	245°/04	variable, but moist sounding, very moist no winds below 500mb; RH heating cycles		1	05
6	002615522	170325	21.522	45.408	—	—	—	—	LOST SATELLITES—no winds			X
7	002525245	170520	21.456	45.192	1017.1	100/16	8	160°/13	SAL drop dry 500-900mb 20-30% RH @ ~700mb		1	06
8	002525233	172431	23.030	43.225	1019.0	070/14	8	145°/09	SAL again (west edge) nice temp inv above + below dry 550-850mb (~25% RH @ 700mb)	1111		07
9	043615190	173604	23.017	44.682	1017.4	075/21	7	160°/12	SAL again moist 300-600mb dry 600-900mb (~30% RH)		1	08
10	002615520	174858	23.017	46.338	1017.9	120/16	7	165°/14	SAL again moist above 600mb (700mb) dry 600-900mb driest at ~850mb		1	09
11	002525247	180227	22.957	48.009	1016.1	120/24	4	155°/11	SAL, but losing its punch dry above dry wedge 650-850mb 500mb		1	10
12	044415107	182401	20.999	49.792	1014.4	180/13	4	195°/06	dry 600-850mb (20% at 700mb) dry above 400mb; RH heating cycles		11	11
13	042825013	184533	19.065	51.564	1014.3	280/02	7	355°/04	Nice SAL 600-850mb ~20-25% moist @ 550, dry above; RH heating cycles		1	12
14	034618042	185824	19.758	52.998	1013.7	335/07	7	10°/09	SAL 30-40% RH 650-850 moist at ~600, dry above		1	13
15	002525232	191152	22.527	54.496	1013.8	020/09	5	25°/12	SAL-type sounding ~35% RH at 700mb Late winds 62S		1	14
16	002615514	193004	22.516	55.481	1014.7	NA	—	35°/14	SAL, but variable and < dry as dry as 20% just below 700mb		1	15
17	051926126	195036	24.852	55.171	1015.1	NA	—	NA	SAL dry 600-850mb ~15% at 700mb Fast Fall—no winds		1	16

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