



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

Storm SALEX Dropwindsonde Scientists JASON DUNN Page 1 of 2
 Flight ID 050928N Flight Director PAUL FLAHERTY Takeoff from BARBADOS at 1445 UTC
 Mission ID WXWXA TRAIN AVAPS Operators JOHN HILL / DAVE BROGAN Recovery at BARBADOS at 2045 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	000745075	153131	12.768	54.010	1012.9	055/07	8	200/03	Slightly dryer than Jordan SAC to the N; RH heating cycles		1	01
2	003135272	155507	12.547	50.948	1012.0	030/04	8	130/02	dry 200-550mb; RH heating cycles moist below, except 350g dry slot @ 900mb		1	02
3	000745026	162020	12.291	48.004	1010.5	310/07	7	055/06	edge of some dry air to the south. RH heating cycles - where the hell is it from? 5-40% 500-750		1	03
4	012225065	164602	12.011	45.002	1009.1	065/17	5	070/13	very dry 200-500mb; RH heating cycles moist below - RH heating cycles		1	04
5	012225094	165516	12.412	43.995	—	—	—	—	RH heating cycles NO SATELLITES - BACKED UP No telemetry 609-975mb; spotty winds			X
6	012225206	165646	12.477	43.837	—	—	—	—	NO SATS / FAST FALL - BACKED UP NO WINDS			X
7	000715077	165905	12.578	43.587	—	—	—	—	AVAPS Freeze - no PTH below 550mb no winds - backed up			X
8	011378085	170629	12.903	42.783	—	—	—	—	No PTH telemetry until 389 mb; no winds NWS; backed up sonde observations terminated by AVAPS operator at 457mb			X
9	000745024	170906	13.02	42.5	1010.3	89°/13	14	090/14	SAL drop 0-5% RH 200-650 Temp inv 650+500 moist below		1	05 SAL
10	012615147	172250	13.609	41.003	1011.4	63°/15	14	095/16	0-5% RH 200-600 moist 650 dry wedge below 650 SAL drop		1	06 SAL
11	000745122	173157	14.034	40.043	1011.2	065/14	8	095/16	Spotty RH 200-550mb RH heating cycles dry wedge 650-850 ~ 400+650mb		1	07 SAL
12	012225200	174006	15.002	40.000	1011.2	065/14	7	090/14	weak Tinv 850, 650, 500mb; warm Hmi moist 675 5% RH 200-650 25-35% 700-800 RH heating cycles		1	08 SAL
13	012025110	174836	15.987	40.127	1012.2	080/16	8	090/12	RH heating cycles 5% RH 200-700 / dry slot 700-800 Tinv 800, 650, 500 Tinv 850/700		1	09 SAL
14	000715087	175533	16.029	41.019	1012.2	81°/18	16	100/12	Tinv 800, 650, 500 (2-3C @ 700) RH = same as above; noisy GPS signal on channel 5		1	10 SAL
15	012225184	180317	16.054	42.021	1011.9	085/21	8	105/13	Tinv 800, 700, 500 (700=2C) RH = same as above		11	11 SAL
16	011378218	181109	16.075	43.028	1011.4	075/19	7	105/13	Tinversions are smaller now; noisy GPS signal 5% RH 200-500, still dry below, but variable		1	12 SAL
17	012225091	181853	16.090	44.000	1009.9	080/21	7	115/14	Tin even smaller dry 200-400, dry below, but variable		1	13 SAL



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