Pictures
① after 20: ~1820Z → dust out rt. side on N to S run (x2)
② after 22: ~1830Z → towers above Hit level
③ at 23 ~2044Z dust

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

Storm SALEX | Dropwindsonde Scientists JASON DUNION | Page 1 of 2

Flight ID 050927N | Flight Director Paul Flaherty | Takeoff from Barbados at 1450 UTC

Mission ID WXWXA TRAIN | AVAPS Operators Dale Carpenter / Dave Brogan | Recovery at BARBADOS at 2200 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	0007150 68	151555	13.985	57.997	—	—	—	—	No winds NO satellites RH heating cycles backed up			X
2	0007150 78	151717	14.005	57.821	1014.5	100/13	8	085/08	SAL already + 5-10% ~ 600mb T inv just above 700mb; weak telemetry 800-845 mb		1	01
3	0007450 20	152214	14.020	57.174	1014.1	110/14	7	075/06	dry 500-850, but variable		1	02
4	0007150 81	152717	14.04	56.52	1014.1	100/10	8	075/05	0-40% RH 450-700mb + inv ~850mb + ~550mb		1	03
5	0113451 06	154700	14.075	53.988	—	—	—	—	No winds RH heating cycles NO Satellites - backed up			X
6	0007150 82	154817	14.076	53.821	1014.1	065/07	8	020/04	0-35% RH 200-400mb sm T inv 750 mb		1	04
7	0007450 61	160921	14.087	50.988	—	—	—	—	No winds NO Satellites Backed up			X
8	0007150 98	161055	14.087	50.772	1013.0	—	—	235/11	~5% RH 200-450mb T inv 800mb ~5-45% RH 500-800mb + 425mb no winds below 780mb		1	05
9	0007150 71	161639	14.083	49.994	1013.0	—	—	215/18	~5% RH 200-450mb no winds below 780 mb dry slots below (20-30%), but moister		1	06
10	0007150 69	163206	14.062	47.995	—	—	—	—	NO winds, backed up RH heating cycles			X
11	0026380 89	163328	14.059	47.820	1011.9	325/04	7	195/12	moist sounding - Jordan-like up to 400mb (~5% RH 200-400) RH heating cycles		1	07
12	0007450 89	165615	14.001	44.996	—	—	—	—	NO winds backed UP intermittent telemetry - lost below ~800mb ALL these DZ Ch 1			X
13	0007150 80	165743	14.004	44.823	1010.8	170/09	5	160/07	Pretty moist sounding dry above 400mb RH heating cycles		1	08
14	0007450 74	172047	14.043	41.996	1011.8	090/12	4	095/09	moist 450-sfc, dry above		1HT	09
15	0007451 12	173038	14.050	40.804	1011.9	110/11	7	085/12	very moist drop thru		1	10
16	0007450 69	174035	14.051	39.617	—	—	—	—	No winds; spotty telemetry 510-615 mb NO SATS - backed up			X
17	0007150 58	174153	14.050	39.455	1012.3	110/15	4	085/15	moist; RH heating cycles		1	11

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

Storm SALEX | Dropwindsonde Scientists JASON DUNION | Page 2 of 2

Flight ID 050927N | Flight Director Paul Flaherty | Takeoff from Barbados at 1450 UTC

Mission ID WKUXA TRAN | AVAPS Operators Dale Carpenter / DAVE BROGAN | Recovery at Barbados at 2200 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 #
18	000 745 115	175040	14.05	38.42	1012.2	090/16	8	075/16	10-45% RH 200-800mb / Tinv 800, 650, 450mb SAL edge; noisy GPS signal		1	12
19	000 715 046	180020	14.036	37.264	1012.0	080/13	7	075/17	0-5% RH 200-600mb good temp inv; RH heating moister below -SAL- @ 650, smaller @ 550+350mb		1111 1111	13
20	003 115 161	181003	14.02	36.12	1012.4	065/15	8	080/18	took 2 pics just 5 d drop 1820Z rt side SAL drop RH heating cycles		1	14
21	000 715 038	181915	13.939	35.061	—	—	—	—	lost data below ~275 mb RH heating cycles			X
22	012 615 148	182710	13.01	35.00	1011.9	055/15	8	075/21	SAL; no winds 183-218mb		1111	15
23	012 258 002	183454	12.06	35.06	1012.1	300/03	8	070/20	very dry 200-600mb moist below Tinv ~600mb SAL; RH heating cycles		1111	16
24	012 615 154	184214	12.06	36.01	—	—	—	—	int winds; late winds 69S			X
25	001 115 017	185801	12.163	38.005	1012.4	160/01	7	070/16	dry 200-600mb moist below; RH Weak telemetry + no winds 843-875 mb; heating cycles		111	17
26	011 355 001	191413	12.254	40.012	1011.4	180/03	7	065/15	moist; RH heating cycles		1111 11	18
27	012 245 181	193000	12.35	42.00	—	—	—	—	RH heating cycles			X
28	012 225 205	200907	12.460	46.999	NA	NA	—	180/05	no heights; RH heating cycles; dry 500-800mb 300-500mb wedge; telemetry dropouts below 918 mb			19
29	012 225 066	203357	12.496	49.996	1011.5	345/01	7	225/08	dry strong Tinv @ 400 above 400; late winds 63.5 S; RH heating cycles			20
30	012 525 008	204225	12.561	50.996	1011.3	035/06	5	235/05	moist below 400; dry above		1	21
31	011345 105	205050	12.503	51.997	1011.7	025/06	5	250/03	dry above 400mb, moist below RH heating cycles		1	22
32	012 615 146	205912	12.501	52.997	—	—	—	—	" int winds " late winds 218S backed up			X
33	000745033	210056	12.520	53.201	1012.5	055/08	7	245/01	dry wedge " good winds " 750mb		1	23