

HRD GPS Dropwindsonde Scientist Log (Revised 6/1999)

Storm DEBBY
 Flight ID 000822N
 Mission ID 0707A Debby

Flight Director TOM SHEPARD
 Dropwindsonde Scientists KAPLAN/LANDSEA
 AVAPS Operators GOLDSTEIN, HOLBROOK, HILL

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 Takeoff 1709 UTC
 Landing 0139 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	10m wind (kn)	MBL wind (kn)	BT SST (°C)	Location Comment	Comments	Ob #	Processed	SAFETY Failure
1	992515732	175427	14.0	62.0	1012.2	125/15	115/16	140/15			1	✓	
2	994015024	181630	←	BAD	5	0	DE			10% mid cloud No launch detect	2	✗	✗
29	990415280	181710	14.93	64.63	M	M	M	160/15		40% mid level stratus 20% low cloud	2	✓	II
3	994015022	182934	14.25	66.0						no launch detect	3	✗	✗
39	994338034	182018	14.2	66.09	1009.7	160/12	155/12	145/12		10% low cu	3	✓	
4	990935174	184249	13.55	67.52	1009.1	145/14	152/11	130/12		10 low cu	4	✓	III
5	984915329	190016	14.76	67.38	1009.2	075/09	080/10	100/13			5	✓	
6	993818027	191808	16.00	71.27	1009.1	060/22	060/25	090/15		100% cirrus just below AC	6	✓	
7	993925206	193550	17.28	73.17	NO	LAUNCH	detect			Failure	7	✗	✗
79	994024091	193645	17.3	73.2	1010.4	040/06	065/08	100/16		50% thin cirrus	7	✓	
8	994335216	195313	18.54	74.91	1011.6	070/14	040/23	095/13		20% low cu	8	✓	
9	993818021	201147	←	BAD	5	0	DE			Launch detect failure about 35 sec post 219 n-sig 07-45-50	8	✓	
96	994315049	201228	20.58	73.44	1013.9	065/19	065/16	095/14		20% low cu	9	✗	✗
10	994024117	203042	22.48	71.96	1015.3	065/19	065/20	085/11		10% low cu	9	✓	
11	993818015	204723	←	NO	LAUNCH	detect				30% low cu	10	✓	I
114	994325106	204801	27.78	69.69	1016.5						11	✓	
12	993925134	210415	22.97	67.47	NO	LAUNCH	detect				11	✓	II
124	994015038	210457								In cloud	12	✓	I

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 Takeoff 1729 UTC
 Landing 0139 UTC

Deep Layer above

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	10m wind (kn)	MBL wind (kn)	RT SST (°C)	Location Comment	Comments	Ob #	Processed	SATC File
13	993925210	212158	21.86	65.57	NO	LAUNCH		detect					
134	993925184	212240	21.83	65.50	1016	—	—	105/20/4		IN cloud slowfall to 400s / NO winds below 700	13	✓	
14	9947315026	213920	20.78	67.62	1015	105/20	110/25	120/27		IN cloud	14	✓	
15	992615051	215144	19.67	61.77	1015	90/19	90/25	130/19		100% Cirrus below AL	15	✓	
16	993818001	221342	19.00	59.87	1016	95/18	90/18	110/11		100% Cirrus below	16	✓	
17	992515765	223033	17.56	57.98	1016	70/15	75/18	65/11		50% Al to Str below	17	✓	
18	994024115	205059	19.02	56.11	1017	65/13	60/14	35/14		Dark	18	✓	
19	993310149	231007	20.30	58.00	1018	55/10	55/12	45/10		Very Dark (plus we just got the 500 forecast package - still toward 500 ft - watches tomorrow)	19	✓	
20	991515156	233014	21.60	60.00	1018	—	80/16	75/10		slowfall 360s	20	✓	
21	993620546	235018	22.89	62.00	1018	100/17	110/18	105/10		slowfall 400s	21	✓	
22	994024110	001025	24.19	64.07	1020	95/15	95/17	140/9		still Dark...	22	✓	
23	992455337	003004	25.54	65.45	1021	85/14	85/16	60/5		Extremely Dark...	23	✓	
24	993818050	004806	27.79	65.54						No launch defect			
24a	993645024	004846	27.87	65.53	1021	100/18	100/19	25/11		slowfall 500s (Darkissimo)	24	✓	
25	994015042	010632	30.07	65.11	1022	—	25/12	260/17		Noisy vert. vel (but also dark)	25	✓	

LAST REPORT

2322Z, 1006, 6630, 998mb
 21Z 19.1 66.1 65 kt 24/067 22.0 74.5 75
 23/062 14.8 68.9 70 1107 23 76.0 80
 1100 21.0 72.0 75 25/107 25 78.5 90