



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

Storm Ophelia Dropwindsonde Scientists Kaplan, Rajiv Page 1 of 2
 Flight ID 0509104 Flight Director Shepherd Takeoff from MACDILL at 1758 UTC
 Mission ID 1316A ophelia AVAPS Operators Smith, Carpenter Recovery at MACDILL at 2005 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	003135289	183958	31.03	80.06	1014.8	330°/24	8	010/16	(RH heating cycles except as noted) Heaters off; late winds 64 S	✓		1
2	002615305	190502	33.63	77.89	1013.3	30°/33	5	040/32	50% cirrus below dropped early; bad 200 ft. cirrus below to avoid collection, PTH failed below 700 mb - winds continue	✓		2
3	002615306	192644	32.83	74.81	—	—	—	—	100% cirrus below	✓		3
39	002615332	193920	34.3	74.2	1014.8	74°/27	5	170/11	PTH telemetry sporadic and no GPS signal/winds below 900 mb; set heights missing	✓		4
4	003115152	194837	35.01	73.31	—	—	—	200/11	Telemetry dropouts 710-720 mb, 792-805 mb + 810-833 mb	✓		5
5	003115133	200232	35.02	70.89	1018.2	70°/10	5	235/19		✓		5
6	002525274	201604	36.0	69.0	1018	23°/10	8	265/25		✓		5
7	003135194	202907	36.91	67.97	1014.0	16°/12	8	270/31	Late winds 63 S	✓		7
8	003135285	204504	35.02	66.09	1017.5	350°/11	8	270/31		✓		8
9	00263804	210230	33.97	67.96	1017.7	81°/4	7	253/23	Winds missing 37-57s	✓		9
10	002158021	211859	32.00	68.00	1017.0	83°/7	8	225/15		✓	1	10
11	003115510	213515	30.06	67.92	1017.4	207°/7	8	215/19		✓		11
12	003115184	214850	29.93	66.07	1017.8	240°/4	8	225/19		✓		12
13	002615346	220537	28.06	66.08	1018.0	214°/3	8	215/20	Large PTH telemetry + GPS signal/winds dropouts 770-933 mb	✓		13
14	003135217	221938	27.93	67.94	1017.0	155°/3	5	193/23		✓		14
15	002615350	223705	25.99	68.01	1017.4	—	—	195/29	No winds 450-637 mb and below 841 mb	✓		15
16	002615304	226603	24.16	69.02	—	—	—	—	Intermittent winds; last few reports of sonde data may be missing due to early termination by AVAPS operator			



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 Flight ID 050910u Flight Director _____ Takeoff from _____ at _____ UTC
 Mission ID 1316A Ophelia 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)	DLM wind (kt)	Comments	Processed	SATCOM tries	Ob #
16a	002158085	22582	24.37	69.18	1016.1	117°/2 8	182/21	No winds between 920-940 mb	✓		16
17	003115259	23122	26.01	69.99	—	—	—	Wind gaps 290-313 mb + 393-865 mb; Heaters off	✓		17
17a	002638106	23002	26.05	70.06	1017.2	51°/7 5	195/18	No winds 630-690 sec (700-800 mb)	✓		17
18	002648023	232853	28.00	70.00	—	—	—	Bad T/RH above 387 mb	✓		18
18a	002638052	232935	28.09	70.0	1015.2	209°/6 8	185/17	Heaters off	✓		18
19	003115482	234557	30.03	70.00	M	—	205/19	No PTH or winds below 900 mb; Heaters off	✓		19
20	003115151	000205	31.99	70.05	1016.4	143°/22 7	205/15	No PTH or winds 980-1005 mb	✓		20
21	002638117	001831	32.88	71.94	M	—	215/20	No PTH DATA Below ~870 mb - Winds continue below	✓		21
22	010715211	003341	31.05	72.09	1013.1	159°/27 9	200/22		✓		22
23	002825224	014749	30.94	74.01	1008.2	174°/29 8	210/33	Telemetry dropouts 770-798 mb + 824-835 mb	✓		23
24	002615347	010221	26.24	74.64	1008.6	228°/22 41	240/23	Occasional brief telemetry dropouts	✓		24
25	002638112	011542	28.17	76.14	—	—	—	Winds but no PTH telemetry above 820 mb	✓		25
25a	002638105	011710	28.15	76.34	1013.2	259°/16 7	265/17	Weak telemetry + sporadic winds 600-690 mb	✓		25
26	002615555	012846	28.15	77.98	1014.0	310°/11 4	288/13		✓	111	26
								LAST REPORT			

31.8
245.9
23262