

# HRD Dropwindsonde Scientist Log

Flight 970907I  
Storm Erka

Dropsonde Scientist(s) Jim Abernethy, Steve Failer  
AVAPS Operator(s) Jeff Smith, Dale Carpenter

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(Revised 4/97)

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAlt (m)	T (°C)	TD (°C)	WD/WS <sup>ms</sup> (kt)	Comments	Pre ?	Xmt ?
1	964910106	15:12:46	31° 0.2	63° 54.5	531.9	5383	-2.1	-25.1	256/3.1	superadiabatic moar surface	✓	003
2	385400196	15:32:44	29° 35.0	63° 20.0	498.3	5899	-7.2	-21.6	261/2.7		✓	006
3	970150067	15:54:14	28° 0.3	63° 37.6	496.2	5927	-6.6	-20.9	202/9.8	remarkable deep moist retrieval near warm sector, behind outflow surface	✓	008
4	385400190	16:21:09	25° 57.7	64° 0.1	496.5	5927	-6.2	-18.9	166/3.1	no wind data. Heights may be ~10 m too low	✓	011
4A	964910076	16:22:47	25° 50.1	64° 0.1	496.5	5928	-6.3	-20.3	170/3.3	backup sonde to #4. In circulation	✓	014
5	970150266	16:46:43	24° 0.2	64° 0.1	497.7	5895	-5.5	-14.8	76/10.4		✓	016
6	964910174	16:59:30	23° 0.3	63° 52.6	464.4	6410	-6.9	-10.2	66/18.8	in P-static, 0° at 100s	✓	017
7	970150166	17:11:51	22° 0.1	63° 43.0	464.4	6380	-6.0	-10.0	79/23.4		✓	019
8	970150102	17:18:14	21° 30.3	63° 39.2	464.5	6356	-6.1	-8.7	74/20.8	No winds below 750mb, cooler ad. yer at str	✓	020
9	970150264	17:25:30	20° 56.8	63° 32.1	545.7	4979	3.9	1.6	50/22.6	eyewall, 32.6ms <sup>-1</sup> 920mb <sup>880m</sup> 53.5ms <sup>-1</sup> 880mb	✓	022
10	385400274	17:25:51	20° 55.1	63° 31.3	546.3	4966	4.8	1.9	46/23.7	eyewall 40.3ms <sup>-1</sup> 980mb <sup>750m</sup> 54.7ms <sup>-1</sup> 901mb	✓	023
11	964910175	17:26:12	20° 53.8	63° 30.4	546.8	4960	5.5	2.2	34/25.2	✓675mb data drop out, water <sup>635m</sup>	✓	025
12	964910061	17:38:32	20° 17.9	63° 15.7	546.8	4946	7.1	-0.7	273/33.9	20°40' 63°18' center, eyewall <sup>25.5ms<sup>-1</sup></sup> 979mb <sup>174m</sup> 32.3ms <sup>-1</sup> 986.5mb	✓	032
13	970150272	17:38:46	20° 16.5	63° 15.7	547.4	4941	6.9	-0.7	271/32.2	eyewall 29.8ms <sup>-1</sup> 975mb <sup>167m</sup> 47.4ms <sup>-1</sup> 986.6mb	✓	033
14	638130604	17:49:14	19° 30.3	63° 16.3	547.10	5069	0.9	-1.7	266/39.2	rule in T <sub>a</sub> at surface	✓	035
15	970150105	17:58:18	18° 50.0	63° 16.7	546.3	5112	-1.3	-2.2	260/25.5		✓	036
16	976440004	18:09:07	18° 10.4	63° 10.3	493.4	5941	-5.0	-8.6	255/15.9	end of log	✓	039
17	964910187	18:27:31	19° 18.7	61° 55.2	493.5	5922	-4.6	-7.2	214/25.5		✓	037

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18	970150096	18:48:05	20° 38.8	60° 41.4	493.4	5934	-5.2	-8.8	193/18.1	begin unrec'd log	✓	040
19	970150108	18:54:12	20° 37.7	61° 9.8	493.6	5920	-4.8	-7.8	190/22.3	dropsonde broken at 825 mb	✓	041
80	385400138	19:00:37	20° 38.0	61° 39.3	546.6	5092	-0.8	-1.6	187/26.9	bad winds ~ 600-625 mb, T, unrec'd @ sfc	✓	043
21	970150205	19:07:08	20° 40.6	62° 9.8	546.5	5068	-0.1	0.6	201/36.4	105.270 RN, low level delay delayed	✓	045
22	970440014	19:14:50	20° 42.8	66° 44.7	546.4	4974	1.3	1.3°	198/37.4	arraying low-level profiles eye wall, 27 m/s comp in late ~ 750 mb 72.4 m/s 713.4 mb	✓	047
23	971750015	19:15:09	20° 42.9	66° 46.1	545.2	4986	1.7	1.3	196/38.5	" similar profiles sfc 240 m 977.7 mb 72.4 m/s 519 m/s 927.4 mb	✓	052
24	970150268	19:15:32	20° 43.0	66° 47.9	546.7	4958	1.9	1.6	199/39.3	" similar profiles sfc 436 m 38.7 m/s 981 mb 53.6 m/s 926.4 mb	✓	053
25	632231406	19:15:59	20° 43.1	66° 49.8	546.8	4950	2.3	2.0	198/37.6	" H <sub>2</sub> O deep pool 480 m 50.7 m/s 927.4 mb	✓	055
26	970150035	19:27:08	20° 49.2	63° 41.8	547.7	4926	4.8	2.0	358/34.2	eye wall, just inside eye wall 976.2 mb 37.3 m/s	✓	057
27	970150143	19:27:24	20° 49.2	63° 43.1	549.4	4910	5.0	1.8	356/34.1	" moving, came back down	✓	058
27A	385400288	19:28:54	20° 49.2	63° 50.1	546.3	4993	5.3	9.2	356/23.0	backup	✓	060
28	965040283	19:37:57	20° 50.2	64° 31.6	514.0	5557	-2.5	-5.1	346/21.8	out of eye wall, strange T ~ 860 mb	✓	061
29	385400127	19:48:25	20° 39.1	65° 20.4	463.9	6398	-7.1	-10.4	349/20.5	How much overcast? 704 mb unrec'd	✓	062
29A	638131304	19:49:52	20° 37.7	65° 27.1	463.8	6404	-7.5	-12.2	348/20.5	H <sub>2</sub> O deep, backup	✓	064
30	385400055	19:56:58	20° 41.3	66° 0.0	426.0	7083	-12.1	-22.0	349/17.7		✓	066
31	970150263	20:08:58	20° 51.5	67° 0.1	426.9	7093	-12.0	-25.8	346/15.3		✓	067
32	970150088	20:32:25	21° 10.6	69° 0.0	426.2	7103	-11.3	-25.6	309/6.4		✓	068
33	970150003	20:55:18	21° 25.7	71° 0.1	426.1	7107	-12.6	-23.2	265/6.5		✓	070
34	970150130	21:23:13	22° 34.5	73° 3.2	426.2	7106	-11.9	-24.8	277/9.9		✓	071
35	970150106	22:03:49	24° 21.8	76° 0.0	426.2	7106	-12.3	-25.6	4/4.8	unrec'd late	✓	074
35A	971520007	22:05:18	24° 25.7	76° 6.7	426.3	7105	-12.5	-26.2	351/5.2	backup	✓	076

507 m  
54.2 m/s  
929.9 mb

977 mb 37.3 m/s