



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

Storm Earl Dropwindsonde Scientists Aberron Page 1 of
 Flight ID 100130N Flight Director Hanning/Parrish Takeoff from BGI at 1718 UTC
 Mission ID WX07A EARL6 AVAPS Operators Miller/Doggo Recovery at BGI at 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	092439010	175606	17.1	60.0	1010.2	155/20	10	outer SE	<10% RH 20-25000ft, in SAL slot w/TPW connection		181451	01
2	092929123	181050	17.3	61.8	1007.8	155/22	10	400km	near Barbuda 35% RH at 700mb		182808	02
3	092329023	182257	17.3	63.3	1004.3	210/34	10	inner SSE	95% RH at 16000, then drop - <70% below 10000		184025	03
4	091849022	183610	15.9	64.1	1006.6	225/23	10	400km	40% RH at 17500, 25% RH at 10000, then starts to fall		185416	04
5	092329022	184254	15.2	64.5	1007.0	235/17	10	outer S	15% RH 17500-20000, 75% at 15000, 25% at 10000		185955	05
6	092329021	185118	16.0	65.0	1006.2	245/24	10	400km	12% RH 2000-22500, 78% 15000-17500, 20% at 700		190842	06
7	092329013	190436	17.4	65.7	1004.4	275/29	10	inner SSW	near convective band		192256	07
8	092429147	191732	17.2	67.3	1007.1	320/31	20	300km	<20% RH above 20000, 96% below		193548	08
9	092819020	193107	17.3	68.9	1006.0	340/15	10	outer S40	when cloudy again 25% at 10000 in clear, <50% 17500 up, <5% 20000, alternating below		195107	09
10	092329093	194157	18.2	68.0	1006.5	340/28	10	400km	very dry above 17500, moist below		200011	10
11	092429151	195019	18.9	67.3	1006.1	345/23	12	300km	moist throughout		201100	11
12	091929046	195748						inner W	fast fall			
13	092439002	195929	19.7	66.8	1004.1	005/29	10	replace	~50% at 7500 between 1, <10% 25000-34000, very moist below		201752	12
14	092819125	200409	20.2	67.1	1006.5	010/23	10	300km	<20% above 450mb, 50% at 900mb		202139	13
15	092819071	201225	21.1	67.7	1008.3	025/18	10	400km	~15% at 26000, alternating moist dry below		203227	14
16	092429177	202842	22.8	68.9	1010.9	040/11	10	outer NW	clear again very dry to 25000ft, top in outflow		204646	15
17	092819161	204419	21.8	67.4	1008.9	035/20	10	400km	in cloud again, moist except 18000ft		210521	16



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Mission ID _____ AVAPS Operators _____ Recovery at _____ at _____ UTC

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18	092429149	204949	21.4	66.8	1007.7	055/30	10	300km	dry above 22500, high humidity 7500		210829	17
19	092429072	210201	20.8	65.5	1001.3	040/35	10	inner 110	>70% all the way down		211936	18
20	091849033	211224	22.0	65.1	1009.6	080/32	10	300km	back on an new moist, but 55% at 2500ft		212943	19
21	091849137	212057	23.1	64.8	1010.9	100/21	10	400km	moist		213931	20
22	092819162 ^{ks}	212808	23.9	64.5	1012.7	085/22	10	outer 11	<50% 700-450 mb		214959	21
23	092329125	213704	23.0	64.2	1011.9	115/20	10	400km	<50% 13000		215505	22
24	092429049 ^{ks}	214632	22.0	63.9	1009.1	075/26	10	300km	moist again <50% around 900 mb		220910	23
25	092819080 ^{ks}	215741	20.8	63.5	1006.7	115/19	10	inner NE	moist		221824	24
26	092819166	220448	21.3	62.7	1007.2	095/32	10	300km	20% 17000-19000 got rid of good + near stc. so moister		222754	25
27	092819051	221150	21.8	61.9	1012.1	110/28	10	400km	moist		224519	26
28	092819165	222659	22.7	60.4	1013.3	110/18	10	outer NE	90% 28000, very dry to the west		222058 224928	27
29	092429121	224519	20.7	61.4	1011.4	120/27	10	400km	moist, 40% at 20000, 55% 7500-10000		230338	28
30	092819164	225651	19.5	62.0	1008.3	135/25	10	inner E	alternating dry moist to 20000		231454	29
31	092429071	230812	18.4	61.1	1008.5	135/20	10	400km	<10% to 26000 ft, moisture at just above surface		232544	30
32	092429148	230828	17.1	59.9	1010.8	125/12	10	outer SE	dry below 30000-19000, then 100% moist		234238	31

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