



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



Storm Helene Dropwindsonde Scientists Jason Dunton / Pete Black Page 1 of 2
 Flight ID 060920N Flight Director Barry Damiano Takeoff from Barbados at 1443 UTC
 Mission ID WXWXA SALEX AVAPS Operators Mark Rogers / Bobby Reek Recovery at Barbados at 2138 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 #
01	013 635 045	1526	-	-	-	-	-	1613Z 24.05N 60W → Dry slot looking NE			X
02	000 715 113	1530	18.6	59.9	1013.6	245/03	10	FASTFALL backed up SAL ~20-35% RH 600-800 T _{inv} 800mb (25C) drier above / only 60-70%			01
03	013 915 083	1541	20.0	60.0	1011.7	NA	NA	SAL 5m T _{inv} 750mb NO winds below ~570mb			02
04	000 715 114	1601	22.5	60.0	1010.0	305/18	10	SAL 32kt jet 600mb (NW) 30% RH 600mb			03
05	013 945 190	1620	25.0	60.0	1007.3	NA	NA	5-20% RH 350-600mb 575mb RH=20% 45kt jet 575mb NNW			04
06	013 978 140	163651	27.0	59.5	NA	NA	NA	SAL wedge - 40-50% RH 650-800mb NE 70kt 800mb (45% RH)			05
07	013 635 046	165256	29.0	55.9	1011.1	050/24	10	~30% RH 650-800mb 44kt jet ~810mb			06
08	013 945 191	171338	29.8	56.0	NA	NA	NA	20-45% RH 500-700mb → 2C T _{inv} 425mb SAL 52kt jet 120deg			07
09	000 715 011	173057	30.4	53.5	1014.6	105/15	10	SAL ~15-50% RH above 800mb 38kt SE jet 375mb			08
10	000 715 041	174755	31.0	51.0	1017.2	NA	NA	super sal 5-20% RH 350-800mb 2°C + T _{inv} 800mb (SAL base)	NO WINDS PACKED		09
11	013 635 180	174952	30.9	50.7	1016.6	130/18	10	super sal same as above			X
12	013 945 189	180125	30.5	49.0	1017.7	NA	NA	super sal 5-15% RH 300-850mb Present corrected msa - 2.460 msl only			10
13	000 715 237	181335	30.0	47.2	1018.6	135/14	10	super sal 5-20% RH 325-825mb 4.5°C T _{inv}			11
14	013 635 279	182047	29.0	46.9	NA	NA	NA	SAL to PTH below ~450mb winds			12
15	013 635 097	182809	28.0	46.7	1018.2	115/15	10	SAL 5-15% RH 300-810mb 34kt jet 700mb (NE) 1.5-2.0°C T _{inv} 810mb			13
16	000 715 020	183531	27.0	46.5	1017.6	110/13	10	14% RH SAL 5-15% 300-825mb ~1°C T _{inv} 825mb			14
17	000 715 378	184251	26.0	46.2	1017.8	120/14	10	SAL ~same RH 20kt jet at ~800mb			15

Drop 17 = L5

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Flight Director Burro Damiano

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