

WMO - SALEX

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

Storm HELENEDropwindsonde Scientists Tason Dunion / Peter BlackPage 1 of 2Flight ID 060915NFlight Director BARRY DAMIANOTakeoff from BARBADOS at 1500 UTCMission ID WXWXA SALEXAVAPS Operators Mark Rogers ; Bobby PeekRecovery at BARBADOS at 2148 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 PHOTOS	1459Z	landing	Processed	SATCOM tries	Ob #
01	000715384 (1)	151552	14.1	57.5	1014.8	080/24 10	missing?	SAL ~10-30% RH 600-850mb ~35kt 775mb 700 = ~30% 2001Z					01
02	000 715 266 (1)	1538	15.3	55.0	1015.6	060/17 10	075/26	SAL ~5-20% RH 200-700 ~40kt 725mb ~30-40% 700-850					02
03	020 215 306 (1)	155932	16.5	52.5	1014.8	050/19 10	065/24	SAL ~10% 200-700mb ~40kt 725mb 30-40% 700-850mb ~2-3°C T inv. 975mb					03
04	993 215 066 (3)	162023	17.6	50.0	1014.5	NA NA	065/22	SAL ~same RH lost winds at 500mb					04
05	000 715 096 (1)	164006	18.5	47.5	1013.4	085/25 10	missing?	SAL ~same RH ~46kt @ 800mb					05
06	030 815 138	170621	21.0	45.0	1013.3	060/28 10	070/24	SAL ~same RH only MIC Temp inv. jet gone					06
07	000 715 395	172030	21.0	43.0	1013.4	055/28 10	085/22	SAL edge: 2-20% 200-525mb 65-90% 400-525mb					07
08	020 215 300 (4)	172740	21.0	42.0	NA	NA NA	120/14	5% RH 500mb, moist below					08
09	000345655	173446	21.0	41.0	1013.7	675/27 10	105/18	moist 200mb → 5% RH; 975mb jet may not be					09
10	034538035	174149	21.0	40.0	1014.2	070/19 10	135/16	moist 300-600; 600-750 dry 975mb jet					10
11	000 715 192	174845	20.9	39.1	1013.8	NA NA	140/15	moist di slots 600-700/500-450					11
12	023 418 013	1756	20.0	39.0	1012.4	095/21 10	135/21	moist w/ small dry slot 600-850mb					12
13	013 945 060	1804	19.0	39.0	1011.4	100/23 10	140/26	moist thru 36-40 kt jet ~700-775mb					13
14	034 135 054	1812	18.0	39.0	1011.4	100/19 10	150/30	slightly dryer as low as ~10% RH 375-525mb 46 kt jet 600mb					14
15	000 715 059	182106	17.0	39.0	1011.1	140/14 10	165/29	dry 300-650mb, moist below 56kt jet 500mb					15
16	030 725 043	182914	16.0	39.0	1010.4	NA NA	180/32	variable RH 300-850 (as low as 5% RH) steep up to 46kt 350-850mb					16
17	034 325 137	184520	14.0	39.0	1009.6	200/19 10	210/27						17

Dropwindsonde Scientists Tason Pimmon / Pete Black

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Flight Director Barry Damiano

Takeoff from Barbados at 1500 UTC

AVAPS Operators Mark Rogers, Bobby Peck

Recovery at Barbados at 2148 UTC

[illegible]