

N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

 Storm ISABEL

 Dropwindsonde Scientists Landsea Abernethy

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 Flight ID 0309124

 Flight Director Mayaux, Shepard

 Takeoff from St Croix at 151140 UTC

 Mission ID WX13A ISABEL

 AVAPS Operators MacMillan, Delgado

 Recovery at St Croix at 2303 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	BT 590 (M3L)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
2	022615133	165543	21.51	58.34	954	280°134	47	200° 147	W W	Lake winds US + spotty Pross Bias -4.3mb	58
3	023235194	165606	21.52	58.31	141	275°142	52	240° 147	W W	(Bad Pross should not have used bias)	59
4	022615244	165621	21.52	58.30	943	245°145	198	300° 150	W W	Pross Bias -4.3mb	60
5	023235041	165634							W W	AVAPS frozen after launch detect - no data	
6	023235191								W W	AVAPS freeze, no data	
7	022815016								W W	AVAPS freeze, no data	
8	023235040								W W	AVAPS freeze, no data	
①	023235042	165524	21.51	58.36					W W		
9	022945214	172259	21.67	57.85	941	16151	155		W NE	3s launch detect delay	010
10	022945154	172302	21.66	57.86	944	16164	255		W NE	pbias -4.3mb, 178kt at 884mb	012
11	022815198	172311	21.67	57.84	944	14642	82		W NE	pbias -4.3mb, 178kt at 882mb	011
12	022815072	172320	21.67	57.83	955	15162	327		W NE	pbias -5.4mb	013
13	023235039	172337	21.68	57.81	952	145°148	42	1500° 150	W NE	pbias -3.2	61
14	023235195	172358	21.69	57.78	959	150°149	163	155° 149	W NE	pbias -3.7	62
15	022945256	172421	21.69	57.75	962	150°136	199	155° 141	W NE		63
16	022918015	172440	21.70	57.73	959	140°132	75	145° 139	W NE		64
17	022815005	175136	21.91	57.08	999	14555	10			Step descent, 37mb pbias	014

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 Flight ID 0309124 Flight Director Mayama, Shepard Takeoff from _____ at _____ UTC
 Mission ID WX13A ISABEL AVAPS Operators MacMillan, Delgado Recovery at _____ at _____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface		BT/ST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
						dir/spd (kt)	hgt (m)				
18	022815003	175509	21.78	57.02	1000	16044	10	MBL		2.5s launch detect delays 3Hz data	016
19	023235193	175919	21.62	56.95	1002	16536	10		SEmp	-2.6mb bias	017
20	022928032	184200	22.05	58.36					NW EW 110kt	NO time to process	
21	022815144	184220	22.03	58.37					NW EW 110kt		
22	022945131	184239	22.02	58.37					NW EW 115kt		
23	023235196	184259	22.00	58.36					NW EW 115kt		
24	022815023	184310	21.99	58.36	949	158-55°	305		NW EW 120kt	Late winds 50s - wind spotty	024
25	022928029	184321							NW EW 120kt	No launch detect? Fast fall too?	
26	022815073	184330	21.98	58.36	940	140-45°	165	55°-144	NW EW 120kt	winds late 50s + spotty	024
27	022945215	184340	21.97	58.35	939	145-70°	400		NW EW 125kt	w Sonobuoy, winds late 50s, pressure bias 4.0mb	26
28	023235189	190345	21.55	58.28	937	147-175°	65	140°-156	SE EW 120kt	very spotty winds	28
29	022928036	190354	21.54	58.27	935	156-200°	130	200°-164	SE EW 120kt	very spotty winds pressure bias 3.1mb	32
30	022928037	190404	21.53	58.27	935	150-185°	208	145°-159	SE EW 125kt	winds very late 85s pressure bias -3.1mb	35
31	022918014	190414	21.52	58.27	940	165-200°	382		SE EW 125kt	winds late 70s pressure bias -3.2mb	33
32	023235046	190424	21.51	58.26					SE EW 130kt	NO time to process	
33	022928033	190454	21.49	58.26					SE EW 125kt		
34	022945226	190513	21.47	58.25					SE EW 120kt		

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 Mission ID WX13A ISABEL AVAPS Operators MacMillan, Delgado Recovery at _____ at _____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	BT SST (°C) MBL	Eye, Eyewall, Rainband (direction)	Comments	Ob #
35	022918017	190532	21.46	58.25					SE EW 115h	No time to process	
36	022615043	194546	21.91	58.28	937	110°/180kt	221	115° 169kt	NE EW	3 sonda wedge maneuver Late winds 50s	36
37	022815019	194630	21.96	58.25	944	95°/138kt	10	110° 152kt	NE EW	Late winds ~60.5 Pressure bias -4.8 mb	37
38	023735005	194724	22.00	58.23	956	95°/125	45	110° 141kt	NE EW		38
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39	022945121	200824	21.72	58.30	935	160°/116	105	170° 151kt	E EW	2nd 3 sonda wedge	43
40	023235159	200900	21.72	58.27	947	150°/123	84	165° 144kt	E EW	Bad spot wind last ab	44
41	023235160	200925	21.72	58.24	949	160°/135	267	—	E EW	Pressure bias -3.7 mb	48
42	023235003	202830	21.59	58.41	938	190°/154	94	200° 163kt	SE EW	4th 3 sonda W. Late winds 70s Pressure bias -3.7 mb	50
43	023235155	202902	21.57	58.38	—	—	—	—	SE EW	Late winds -NOPT 75s after 40s not processed	
44	023235156	202934	21.54	58.35	—	—	—	—	SE EW	-3.7 mb Pressure bias -Fast fall not processed	
45	023235154	210526	21.64	58.63	928	230°/54	10	235° 53	in eye	in eye polygon maneuver Late winds 70s Pressure bias -2.6	51
46	022815082	210934	21.77	58.79	925	—	—	340° 71	in eye	-4.7 mb pressure bias Lots winds plugged!	52
47	022815124	211827	21.70	58.88	934	290°/111	190	300° 124	SW OW		53
48	023235098	211906	21.67	58.90	941	280°/125	137	290° 134	SW OW		54
49	022945112	212037	21.62	59.00	959	275°/100	16	290° 119	SW OW	Pressure bias -3.5 mb	55
50	023235161	212220	21.55	59.10	971	290°/104	11	295° 114	SW OW	Pressure bias -3.8 mb	56