

*James,
make sure Gary & Derek (Utahville)
get copies of these logs.*

HRD Dropwindsonde Scientist Log (Revised 7/98)

Storm Bonnie
Flight ID 980826H
Mission ID W422A BONNIE

Drosonde Scientist(s) ABERSON, WROE
AVAPS Operator(s) McHILLAN

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Takeoff Something Good! UTC
Landing _____ UTC

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAlt (m)	SST (°C)	MBL	SFC	Comments	Pro ?	Xnd ?
								TD (°C)	WD/WS (kt)			
1	980010040	12 20 34	33 52.1	76 34.1	rebound		28.5 SST=28.4	56	44			11
2	980010012	12 23 05	34 1.4	76 46.5	"			58	45			12
3	981820100	12 25 4	34 2.5	77 0.0	"			57	-	pbias, data bunch detect	X	X
4	981820096	12 25 09	34 2.0	77 5.0	"			57	48	pressure bias	X	X
5	981750074	12 32 12	34 3.0	77 44.8	"		SST=27.9	68	57			13
6	981810093	12 31 37	33 55.8	77 56.6	"			64	36			15
7	982010100	12 37 07	33 47.3	78 7.6	"			74	54	pressure bias	X	X
8	981820068	12 35 55	33 35.7	76 19.9	"			75	-	pressure bias	X	X
9	981810048	12 42 29	33 24.2	78 26.5	"			-	-	fast fall	X	X
10	981740054	12 45 30	33 11.1	78 38.9	eyeball NW			-	-	no launch detection	X	X
11	982010046	12 50 06	32 57.1	78 31.2	" "		28.0 SST=27.7	83	-			17
12	982010130	12 52 44	32 55.6	78 19.8	" "			65	54	pressure bias	X	X
13	9814910017	12 54 48	32 53.7	78 7.7	" "			39	31	pressure bias	X	X
14	981750073	12 57 32	32 48.7	77 55.2	" "			24	13			
15	982130185	12 58 51	32 46.4	77 49.0	eye		SST=29.0	-	-	pressure bias	X	X
16	982010132	13 02 00	32 44.8	77 32.2	" E			58	42	pressure bias	X	X
17	981740064	13 04 56	32 44.7	77 17.0	eyeball E			68	48	pressure bias	X	X
18	981820045	13 08 10	32 49.8	77 0.8	" "			-	-	no launch detection	X	X

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 Mission ID WX02A BONNIE

Dropsonde Scientist(s) ADESON, WROE
 AVAPS Operator(s) McMILLAN

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 Takeoff _____ UTC
 Landing _____ UTC

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAlt (m)	SST (°C)	TD (°C)	WD/WS (kt)	Comments	Pro ?	Xml ?
19	974530091	13 10 20	32 44.7	76 49.8	" "		28.1 SST=28.1	85	—	pressure bias	X	X
20	974510092	13 14 30	32 42.1	76 33.5	rainband			79	—	pressure bias	X	X
21	982430180	13 17 52	32 30.7	76 32.9	"			81	62			25
22	981750085	13 20 58	32 21.6	76 35.8	"			—	—	no launch detect	X	X
23	982430010	13 23 42	32 11.3	76 39.1	"			—	—	data stopped ~750-mb, pressure bias	X	X
24	98240134	13 27 16	32 3.3	76 39.1	"		25.1 SST=25.1	72	46			27
25	982430186	13 30 37	31 56.7	76 49.0	"			—	—	no boundary layer winds		28
26	981820063	13 38 31	31 51.2	76 2.0	"			—	—	no data below 850 mb except winds		29
27	982430187	13 38 00	31 46.4	76 14.0	"			—	—	pressure bias no data below 820 mb	X	35
28	982430182	13 41 31	31 40.2	77 38.0	"			65	50	20 sec of data missing		36
29	982430028	13 45 58	31 31.4	77 39.4	"		27.5 SST=27.5	—	—	pressure bias no data below 800 mb	X	X
30	982430011	14 27 41	33 19.9	79 8.1	West side run		27.7	—	—	late launch detect	X	X
31	982430008	14 31 23	32 55.4	79 2.5	"			—	—	no launch detect	X	X
32	982430177	14 35 29	32 33.6	78 53.1	"		SST=X/1	60	52			38
33	982430181	14 39 41	32 11.1	78 42.5	"			67	53			39
34	974710061	14 43 38	32 9.7	78 20.0	"			76	66	pressure bias late launch detect	X	X
35	974440045	14 46 55	32 7.5	77 57.7	"			82	73	Neurwidi below ~925 mb		40
36	974530092	14 50 30	32 15.6	77 46.8	Eye wall South		28.8 SST=28.8	—	—	lost winds below ~		41

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 AVAPS Operator(s) Mc MILLAN

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 Takeoff UTC
 Landing UTC

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	Gall (m)	SST (°C)	MBL	SFC	Comments	Pro ?	Xnd ?
								TD (°C)	WDWS (kt)			
37	974730023	14 54 58	32 55.4	77 46.8	"			50	←	pressure bias	X	X
38	974740032	14 58 02	32 53.5	77 49.2	"			44	←	gaps in winds; pressure ^{offset}	X	X
39	982010107	15 02 02	33 5.6	77 54.7	EYE			-	-	no data below 720 mb	X	X
40	974530041	15 05 41	33 21.4	77 56.2	eyewall North			-	-	no data below 920 mb pressure bias	X	X
41	974940043	15 09 55	33 39.1	77 55.5	"			-	-	no data below 680 mb	X	X
42	974530048	15 14 43	33 55.2	77 46.1	"			-	-	no data	X	X
43	974940040	15 20 12	33 14.2	77 33.1	"			-	-	no data below 720 mb	X	X
44	974730126	15 26 44	34 14.9	77 8.1	rainband NE			-	-	no data	X	X
45	974740137	15 33 08	34 5.4	76 43.4	"		SST=X	-	-	no data	X	X
46	974450033	15 38 04	33 55.5	76 31.3	"			-	-	pressure bias	X	X
47	974940057	15 44 18	33 37.8	76 25.3	"			-	-	no data	X	X
48	974510004	16 01 48	34 11.0	76 45.0	rainband			60	42	next to eyewall	∴	56
49	974730041	16 19 40	33 55.0	77 27.7	eye		SST=27.1	79	-	pressure bias	X	X
50	974730062	16 25 15	33 39.1	77 39.3	eye, molecular		SST=27.4	-	-	pressure bias	X	X
51	974740049	16 40 36	32 38.2	78 8.6	SE eyewall		SST=28.3	-	-	no winds below 925 mb	X	X
52	974730123	16 52 17	31 58.7	78 17.4	SSW eyewall		SST=28.7	54	50	pressure bias		63
53	974940035	17 07 49	32 19.9	77 5.6	outside SE eyewall		SST=26.7	66	53			65
54	974740059	17 16 44	32 51.1	77 32.2	eyewall SE		SST=X	101	77	strong convection		66
55	974730012	17 59 13	32 48.6	78 16.5	eyewall South			80	67			74

AVAPS
 ← report
 several data problems

late launch detect may be due to too tightly wrapped leader. When loosened, they worked.