

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 971222N	FM: KRFI	TO: KRFI
FLT NO: 98-005 (2)	BLK IN: 1454Z	ATA: 1449Z
ETD: 0800Z	BLK OUT: 0754Z	ATD: 0802Z
ETE: 1430Z	BLK TIME: 7.00 7.0	FLT TIME: 6:43 6.8
Sponsor Org: NOAA/NCEP	PROGRAM:	PURPOSE: /

OAO PERSONNEL

AC PLAYER, G	SYS ENG HILL, J ✓
CP McLANN, P ✓ / MAXSON, B. / FINKE, M ✓	DATA SYS GOLDSTEIN, A
NAV	RADAR
FE	DT/ODW
RADIO WHITE, S ✓	CLD PHYS KITSON, G
FD CZ424K, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BOND, N ✓	SCIENTIST	
SHAPIRO, M ✓	P.T.	NRL
FRANKLIN, J ✓	HAPS	HRD

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

EIGER MELTDOWN & BLOCKOUT

OB 22 TOTAL

35 TRIES ON SATCOM

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 F

FLT ID: 771222N

TIME OFF: 0802Z

TIME ON: 1449Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE			1027.5	30.41

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES		
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
ODW		
GPS	26	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

97/222.N

TIME	LAT	LON	TK	HD	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
081820	47 38	124 14	269	285	-56.3	-57.5	319	44.5	10878	10852	227.4		THRU 36K
082500	47 44	125 11	268	283	-70.0	-74.2	308	47.7	12563	12495	175.6		LEVEL 41K
090258	49 10	129 45	303	306	-70.5	-74.2	277	52.1	12571				DROP 1 NO RH T
090810	49 33	130 18			-70.4	-73.8	272	49.3	12573	12468	175.4		DROP 1B
091906	50 20	131 30			-69.7	-73.0	260	47.3	12571	12438	175.4		DROP 2 EAST FA
093450	51 35	133 20	302	301	-63.9	-70.6	249	51.0	12574	12386	175.3		DROP 3
095011	52 45	135 20			-57.1	-69.4	248	43.2	12572	12308	175.4		DROP 4 DIED
095515	53 08	136 04			-54.3	-68.0	245	38.2					DROP 4B
095515	53 08	136 04											DROP 4B
100423	53 50	137 25			-51.5	-66.9	240	33.6	12571	12224	175.4		DROP 5
102115	54 45	140 08	189	197	-46.6	-62.5	217	25.9	12576	12141	175.3		DROP 6
102938													CLIMB
103315	53 30	140 45	193	204	-46.8	-61.4	217	33.9	12082	12710	161.1		DROP 7
103715	53 07	141 00			-47.8	-62.6	217	33.0	13165	12811	158.8		LEVEL 41K
104756	52 05	41 40			-48.9	-64.1	217	27.8	13164	12827	158.9		DROP 8
110042	50 45	42 25	189	199	-48.2	-63.2	222	30.6	13159	12847	159.0		DROP 9
110551	49 10	143 10	187	198	-47.2	-62.0	219	38.9	13155	12872	158.1		DROP 10 NO JUMP EAST FA
112942	47 45	143 45	191	201	-47.0	-62.4	217	39.2	13162	12916	158.9		DROP 11
114650	45 56	144 39			-50.7	-62.9	223	34.3	13159	12953	158.9		DROP 12
115800	44 47	144 45	136	158	-58.4	-65.8	229.1	70.1	10752	10527	235.1		DROP 13
120815	44 00	143 45	134	157	-57.7	-70.1	237	76.1	10754	10589	235.0		DROP 14
122003	42 44	142 28			-54.8	-66.3	231	64.4	10754	10707	235.1		DROP 15
123300	41 30	141 15			-54.4	-57.9	234	58.1	10753	10716	235.1		DROP 16
124856	40 09	139 43	52	52	-52.8	-52.5	234	43.2	10752	10869	235.1		DROP 17
125905	41 01	138 08			-53.4	-55.4	238	42.2	10749	10859	235.2		DROP 18
131016	42 00	136 20			-48.1	-54.6	251	40.3	10134	10233	235.1		DROP 19 DESCEND
132041	42 50	134 35	56	54	-48.6	-54.2	259	41.4					DROP 20 33K
133154	43 40	132 40	55	52	-48.5	-55.3	267	34.8	10132	10226	258.9		DROP 21
134400	44 35	130 39			-49.1	-53.2	278	31.8	10131	10200	258.9		DROP 22
135622	45 20	128 30	58	51	-49.1	-53.7	293	29.7	10130	10195	259.0		DROP 23
140916	46 15	126 25			-49.7	-52.8	301	27.7	10130	10170	258.9		DROP 24

*2 001 510 745 3342
3218

Oakland Oceanic

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
(NOAA)
Aircraft Operations Center
MacDill Air Force Base,
Florida

Galvin 122.95

Mission Tasking from CARCAH
NOAA9 WCWS WX
Takeoff (Date and Time): 220830Z

WZPN14
NCEP 1-5
CARCAH NO

Aircraft Type Gulfstream IV-SP
Call Sign NOAA 49
Tail Number N49RF
Altitude Block F390-F450
Airspeed ~Mach 0.72-0.76 450 KTAS (Average)

Proposed/Final Drop Points

Drop
Number LAT(N)/LONG(W) Dist. (nm) ETE
Degrees and minutes

ADVISE 5 MIN.
BEFORE EACH DROP

Seattle

0802

48 00/128 00

235

0+33

49 10/129 45

100

0+13 0903 -17

50 20/131 30

100

0+13 0919 -20

51 35/133 20

100

0+13 0935 -23

52 45/135 20

100

0+13 0950 -25

53 50/137 25

100

0+13 1004 -26

55 00/140 00

100

0+13 1021 -30

53 30/140 45

90

0+12 1033 -30

52 05/141 40

90

0+12 1048 -33

50 45/142 25

90

0+12 1101 -34

49 10/143 10

90

0+12 1106 -37

47 45/143 45

90

0+12 1130 -49

46 20/144 30

90

0+12 1146 -53

45 00/145 00

90

0+12 1158 -53

43 50/143 45

90

0+12 1208 -51

42 45/142 30

90

0+12 1220 -51

Vancouver
Drops

+ 12

14

15

16	41 30/141 15	90	0+12 1258 -52
17	40 00/140 00	90	0+12 1249 -56
18	41 00/138 10	100	0+13 1259 -53
19	42 00/136 20	100	0+13 1310 -51
20	42 50/134 35	100	0+13 1321 -49
21	43 40/132 40	100	0+13 1332 -47
22	44 35/130 40	100	0+13 1344 -46
23	45 20/128 30	100	0+13 1356 -45
24	46 15/126 25	100	0+13
	Seattle	200	0+30

POC for G-IV: Sean White

NOAA/AOC

PO Box 6829

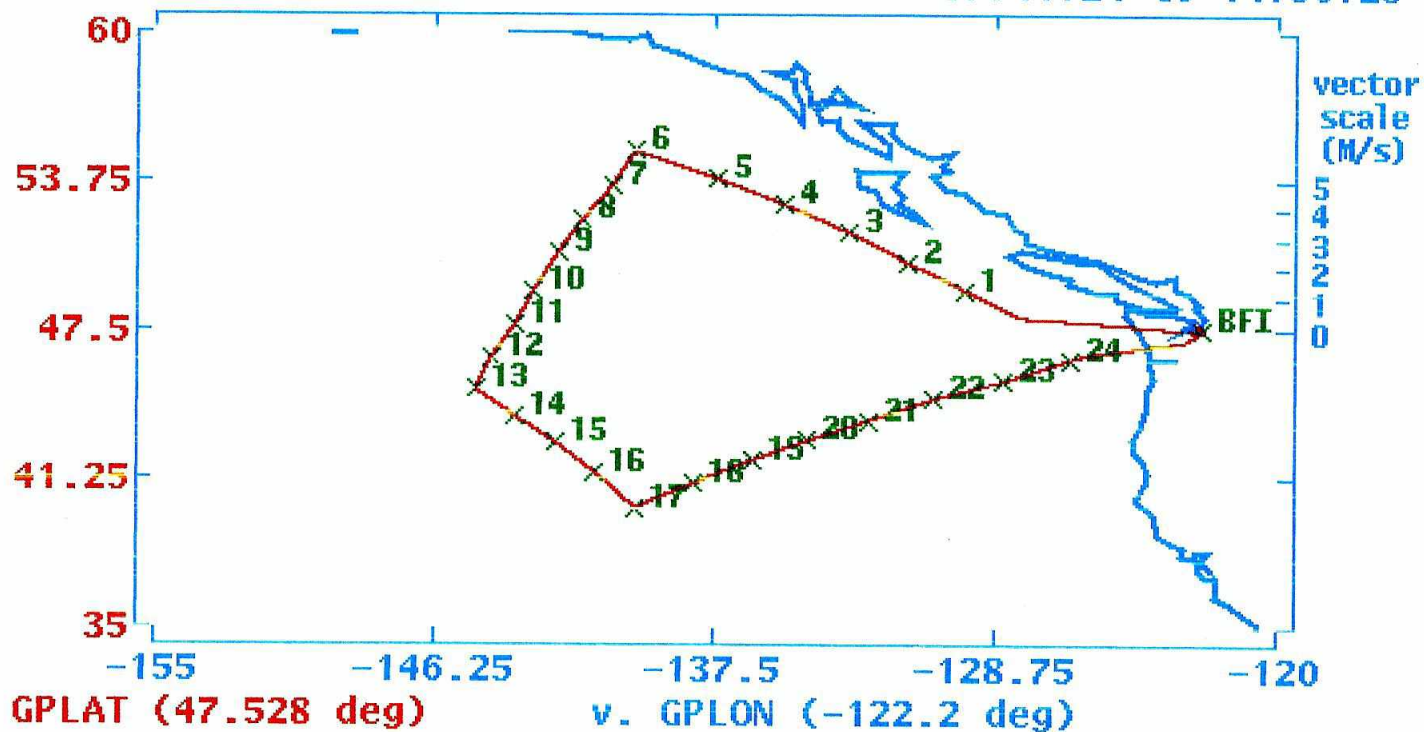
MacDill AFB, FL 33608

Cellular # 813/833-3275

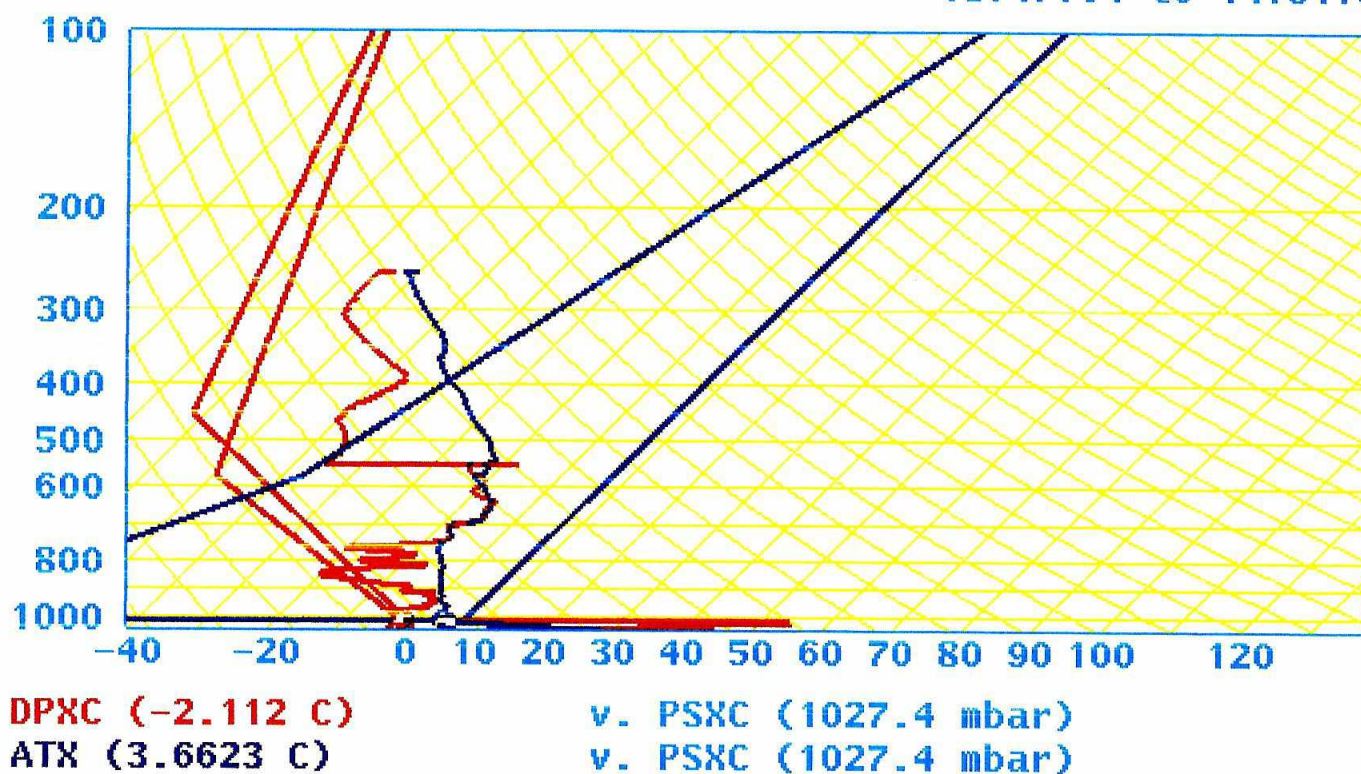
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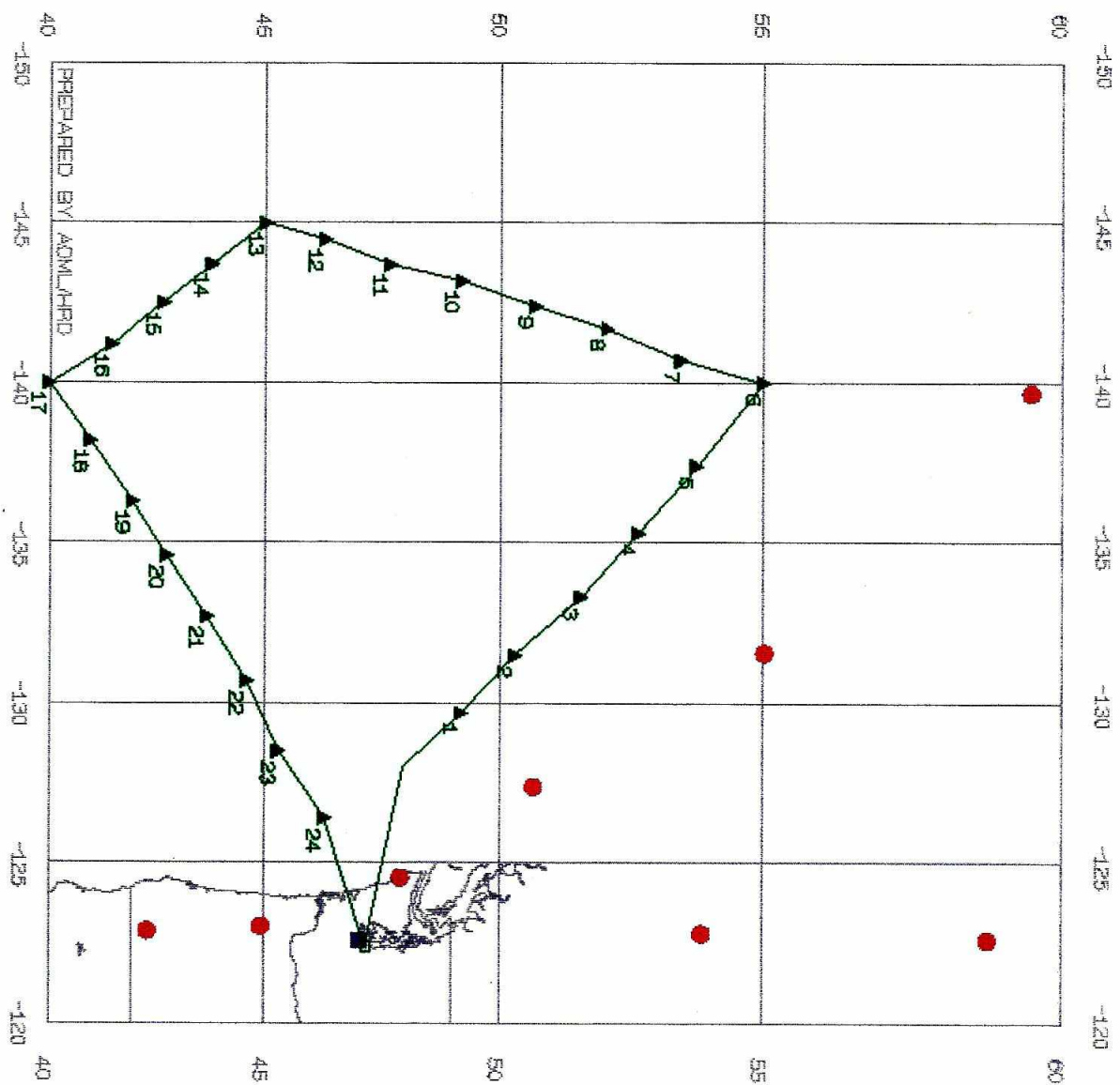
Seattle # 206/248-1000 Holiday Inn

'Std-Flight-Track' (winds@eider) Proi. 410 Flt 12/22/97 14:50
07:41:24 to 14:50:29



'Std-Skew-T' (winds@eider) Proi. 410 Flt 12/22/97 14:51:54
13:47:04 to 14:51:54





FLIGHT TRACKS

971222n.fbk

- RAWINSONDES 9605
- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

NOAA/AOC/SED Flight Performance log - N49RF

N49RF Project: Hurricane 97 Project No 410 Flight No. 10 Flight ID: 971222

SED Crew: Goffkein, Hill, White, Czyzyk Mission: Winter Storms

Pre-Flight: 2350 Z Take-Off: 0025 Z Landing: 0610 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight	
N A V	IRS #1	<u>91+</u>	✓			
	IRS #2	<u>91+</u>	✓			
	IRS #3	<u>91+</u>	✓			
	GPS Honeywell #1	<u>91+</u>	✓			
	GPS Honeywell #2	<u>91+</u>	✓			
	GPS Collins	<u>91+</u>	✓			
	Nose Radar Collins	<u>91+</u>	✓		Off? ☐	
		Time	Temp °C		Time	Temp °C
T E M P	Temp #1	<u>2350</u>	<u>23.0</u>	✓		
	Temp #2	<u>2350</u>	<u>23.0</u>	✓		
	Temp #3	<u>2350</u>	<u>23.1</u>	✓		
	Temp #4	<u>2350</u>	<u>23.4</u>	✓		
	DP Left	<u>↓</u>	<u>14.0</u>	✓	Cal. Time:	
	DP Right	<u>↓</u>	<u>19.0</u>	✓	Cal. Time:	
P	Attack Angle (ADCAOA)	<u>91+</u>	✓			
R	Slip Angle (BP/DBP)	<u>91+</u>	✓			
E	Differential (PQ1/PQ2)	<u>91+</u>	✓			
S	Absolute (PS1/PS2)	<u>91+</u>	✓			
S	Check Radome Press. Lines ☐					
S	DOWN PRT-5 ⇌ Open? ☒		✓		Closed? ☒	
Y	MADS (WINDS/DISCWIN)	<u>91+</u>	✓		# DATs:	
S	MADS Printer ⇌ Paper? ☒		✓		Printer Pwr off? ☒	
T	MADS Cal. Date: <u>12/21/97</u>	QC time:			QC time: <u>0611</u>	
E	WINDS ⇌ NET BCAST ☒					
M	HAPS System / Time set? ☒				# Msg.: / # Attempts: /	
S	AVAPS System / Time set? ☒					
	AVAPS Printer ⇌ Paper? ☒					
	Exterior Walk Around					
	Inspect DropSonde Chute Bolts					
	Satcom (Flight Phone)	<u>91+</u>			Off CB? ☒	
	Call COMSAT? ☐ (*292#)					
M	FCU/UPS/CB		CB's Checked? ☒		UPS off? ☒	
I	AVAPS Sondes		# On Board: <u>60</u>	# Dropped: <u>1</u>	# Good:	
S	AXBT		# On Board: <u>0</u>	# Dropped:	# Good:	
C	APN-232	✓	<u>91+</u>			
	Modem Power On? ☒					

1	DAT Tape #1	On: <u>00:06</u>	Off: <u>0615</u>
2	DAT Tape #2	On:	Off:
Comments:			

NOAA/AOC/SED Flight Performance log - N49RF

N49RF Project: Hurricane 97 Project No 410 Flight No. 11 Flight ID: 971222
 SED Crew: Hill, Goldstein, White, Cayzyk Mission: Winter Storm
 Pre-Flight: 07:30 Z Take-Off: 0800 Z Landing: 1449 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight	
N A V	IRS #1		✓			
	IRS #2		✓			
	IRS #3		✓			
	GPS Honeywell #1		✓			
	GPS Honeywell #2		✓			
	GPS Collins		✓			
Nose Radar Collins					Off? ☐	
	Time	Temp °C			Time	Temp °C
T E M	Temp #1	0730	2.2	✓		
	Temp #2		1.9	✓		
	Temp #3		1.8	✓		
	Temp #4		2.0	✓		
P	DP Left		-13.4	① ✓	Cal. Time:	
	DP Right		-9.8	✓	Cal. Time:	
P	Attack Angle (ADCAOA)		✓			
R	Slip Angle (BP/DBP)		✓			
E	Differential (PQ1/PQ2)		✓			
S	Absolute (PS1/PS2)		✓			
S	Check Radome Press. Lines ☐					
S	DOWN PRT-5 ⇌ Open? ☒		✓		Closed? ☐	
Y	MADS (WINDS/DISCWIN)		✓		# DATs:	
S	MADS Printer ⇌ Paper? ☒		✓		Printer Pwr off? ☐	
T	MADS Cal. Date: 12/21		QC time:		QC time: 1450	
E	WINDS ⇌ NET BCAST ☒		✓			
M	HAPS System / Time set? ☒		✓		# Msg.: 22 # Attempts: 35	
S	AVAPS System / Time set? ☒		✓			
	AVAPS Printer ⇌ Paper? ☒		✓			
	Exterior Walk Around		✓ ASG			
	Inspect DropSonde Chute Bolts		✓ ASG			
	Satcom (Flight Phone)		✓		Off CB? ☐	
	Call COMSAT? ☐ (*292#)					
M	FCU/UPS/CB		CB's Checked? ☒		UPS off? ☐	
I	AVAPS Sondes		# On Board: 59	# Dropped: 26	# Good: 21	
S	AXBT		# On Board: 0	# Dropped:	# Good:	
C	APN-232		✓			
	Modem Power On? ☒					

1	DAT Tape #1		On: 0755	Off: 1451
2	DAT Tape #2		On:	Off:

Comments: ① SWITCHED TO ALUM WATER SEPARATOR ON PREFLIGHT
 eiger; lost ethernet prior to take-off; connected eiger to K2's
 ethernet hub

Please Note Any Discrepancies

[illegible]

N49RF Hurricane 97 AVAPS DropSonde Log

N49RF Project: Hurricane 97 (410)

Flight ID: 971222N

Mission: WINTER STORMS

Flight #: 10/11

System Status: OK

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD ☒
1	964910 080	01:13	1	-0.4	60.	all	NO A/C DATA	✓
2								
3	964910098	09:02	1	-0.3	37	all	NO T, RH	
4	627133203	09:08	2	-0.6	93	all		✓
5	385400234	09:19	1	-0.1	-	all	FAST FALL; LOST SIGNAL	
6	624233303	09:34	1	-1.4	39	all		✓
7	385400122	09:50	2	+0.1	25	all	DIED @ 2/20 SEC	
8	973320010	09:55	1	+0.6	45	all	REV B	✓
9	638132206	10:04	2	+0.2	18	all		✓
10	964910105	10:21	1	Ø	19	all		✓
11	971750034	10:33	2	Ø	23	all		✓
12	625432801	10:47	1	-1.4	32	all		✓
13	638130505	11:00	2	+0.3	27	all		✓
14	972340090	11:15	1	+0.7	-	all	NO WINDS; FAST FALL	
15	385400185	11:29	2	-0.2	22	all		✓
16	964910083	11:46	1	-0.3	28	all	INTERMITTENT SLOW FALL	✓
17	973250024	11:57	2	+0.1	40	all	REV B	✓
18	964910047	12:08	1	-0.2	21	all		✓
19	638131505	12:20	2	Ø	32	all		✓
20	964910135	12:32	1	-0.5	59	all		✓
21	964910015	12:48	2	-1.8	24	all		✓
22	385400201	12:59	1	+0.1	30	all		✓
23	965120264	13:10	3	-0.3	42	all		✓
24	632333203	13:20	1	-0.6	22	all	NO PRES	
25	964910075	13:31	2	Ø	76	all		✓
26	625331402	13:43	1	-0.6	23	all		✓
27	632232105	13:56	2	-0.4	40	all		✓
28	964910041	14:09	1	-0.2	36	all		✓
29								
30								
31								
32								
33								