

FLT ID: 90205N	FM: PAOC	TO: PANDL
FLT NO: 99-019	BLK IN: 0406	ATA: 0403
ETD: 21Z	BLK OUT: 2104	RTD: 2112
ETE: 7	BLK TIME: 7:02(7.0)	FLT TIME: 16:
SPONSOR ORG: NCEP	PROGRAM: WSR-99	PURPOSE: Research #8

DAO PERSONNEL

AC Maxson ✓	SYS ENG Pradas Bergnes ✓
CP McCann/Finke ✓	DATA SYS Hornbrook ✓
NAV 21	RADAR Smith ✓
FE Ritson	BT/ODW Caputo ✓
RADIO White ✓	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Shapiro, M. ✓	P.I. - OLS	ETL/DOAA
Goldenberg, S. ✓	NABs	HAD/DOAA

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

Fly PAOC-PANDL route across jet core.

Dropped 19 NCEP (1 dud winds), 18 NCEP messages xmt'd.

20 ETL

1 39 / Total

965
340/6
970W
PAOC
30.10
24/170
040/15
060/16
55/11
24/16
1018

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Winter Storms 99 Project No. 425 Flight No. 9 Flight ID: 990205N
 SED Crew: Pradas, Smith, Hornbrook, Carpenter Mission: # 8
 Pre-Flight: 1930 Z Take-Off: 2111 Z Landing: Z

SYSTEM				Pre-Flight Check	In-Flight	Post-Flight	
N A V	IRS #1			DWC			
	IRS #2						
	IRS #3						
	GPS Honeywell #1						
	GPS Honeywell #2						
	GPS Collins					Off? ☒	
	Nose Radar - Collins			DWC		Off? ☒	
		Time	Temp °C	DWC		Time	Temp °C
	Temp #1	2007	-15.1			0409	23.1
T	Temp #2		-17.7				23.6
E	Temp #3		-15.0				23.7
M	Temp #4		-15.2				23.5
P	DP Left		-26.5		Cal. Time:		15.9
	DP Right		-31.6		Cal. Time:		14.0
P	Attack Angle (ADCAOA)			DWC			
R	Slip Angle (BP/DBP)						
E	Differential (PQ1/PQ2)						
S	Absolute (PS1/PS2)						
S	Check Radome Press. Lines ☒			Date: 990122			
S	DOWN PRT-5 ⇒ Open? ☐			N/I		Closed? ☐	
Y	MADS (WINDS/DISCWIN)			DWC		# DATs: 1	
S	MADS Printer ⇒ Paper? ☒			DWC		Printer Power off? ☒	
T	MADS Cal. Date: 990204			QC time: 2030 Z		QC time: 0406	
E	WINDS ⇒ NET BCAST ☒			DWC			
M	HAPS System / Time set? ☒			DWC		# Msg.: 18	# Fail: 0
S	AVAPS System / Time set? ☒			DWC			
	AVAPS Printer ⇒ Paper? ☒			Removed to HAPS			
	Exterior Walk Around ☒			DWC			
	Inspect DropSonde Chute Bolts			DWC			
	Satcom (Flight Phone) ☒			DWC		Off CB? ☒	
	Call COMSAT? ☒ (*292#)						
M	FCU/UPS/CB			CB's Checked? ☒ DWC		UPS off? ☒	
I	AVAPS Sondes			# On Board: 167	# Dropped: 39	# Good: 37	
S	AXB T			# On Board: 0	# Dropped: <u> </u>	# Good: <u> </u>	
C	APN-232			DWC			
	Modem Power On? ☒			DWC			

1	DAT Tape #1	On: 2028	Type: V-60	Off: 0408
2	DAT Tape #2	On:	Type:	Off:

Comments:

N49RF Winter Storms 99 / AVAPS DropSonde Log

N49RF Project: Winter Storms 99

Flight ID: 990205N

Mission: 8

Flight #: 9

System Status: Ch #8 inop

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒
1	983 620 711	5	2205	.5	48	ph/owc		✓
2	983 720 845	6	2222	.6	36			✓
3	983 620 503	5	2240	.5	16			✓
4	983 440 042	6	2258	.8	50			✓
m 5	983 620 717	7	2306	.4	30			✓
m 6	983 620 570	5	2311	.8	18			✓
7	983 410 022	6	2317	.6	26			✓
m 8	983 720 838	1	2321	0	29			✓
m 9	983 720 844	2	2324	.4	25			✓
m 10	983 310 099	7	2330	0	86			✓
11	983 620 676	5	2336	0	58			✓
m 12	983 720 808	6	2341	0	90			✓
m 13	983 620 535	1	2345	0	47			✓
m 14	983 620 532	7	2352	0	41			✓
15	983 620 501	2	2356	0	22			✓
m 16	983 720 807	5	0003	.6	24			✓
m 17	983 620 616	6	0008	0	21			✓
m 18	983 720 834	1	0012	.4	29			✓
19	983 620 629	7	0017	.4	22			✓
m 20	983 310 097	2	0021	0	29			✓
m 21	983 620 719	5	0024	0	24			✓
m 22	983 620 670	6	0028	0	26			✓
23	983 620 716	3	0031	0	33			✓
m 24	983 620 650	1	0035	0	28			✓
m 25	983 410 093	7	0038	.5	25			✓
m 26	983 310 093	2	0042	.5	34			✓
27	983 620 671	5	0046	.5	21			✓
m 28	983 310 043	6	0053	0	21			✓
29	983 720 820	1	0101	.6	31			✓
m 30	983 720 781	7	0109	.5	21			✓
31	983 410 021	5	0117	0	45			✓
m 32	983 410 002	6	0124	.4	84		Late winds / Fading winds	✓
33	983 720 786	1	0132	.7	23			✓

39 Dropped
2 Bad

Drop #	Sonde Serial Number	Chn #	Time (Z)	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD ☒
34	983 410 142	7	0149	.5			no winds / ^{only} Sat 1 / Fast Fall	
35	983 620 713	5	0151	.7	25			
36	983 620 536	6	0205	0	24			
37	983 840 544	7	0221	.8	26			
38	983 440 050	1	0237	.4	26			
39	983 410 110	5	0253	.5	23			
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06/16/98

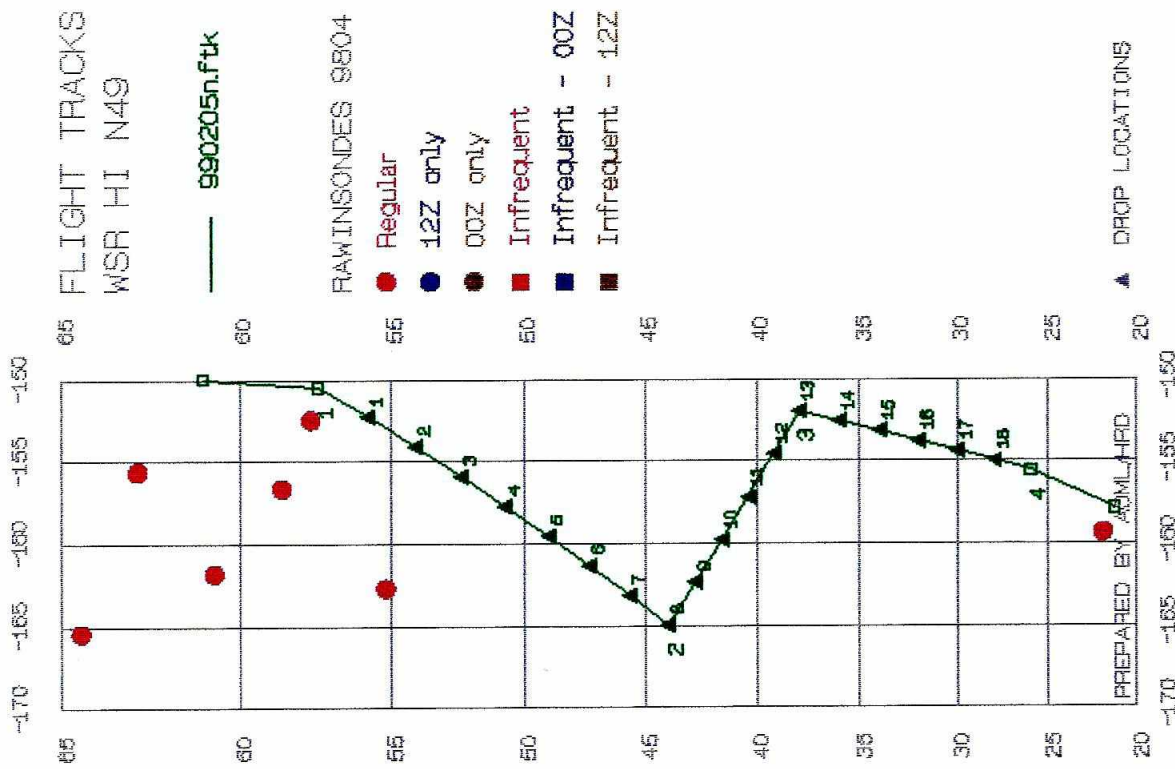
AVAPS PRE-FLIGHT CHECK:

- (1) Apply power to computer, VAPS fan and VAPS chassis
- (2) Verify no **ER** status lights on the four MWG cards
- (3) Set the computer time to GPS time
- (4) Start AVAPS and run the hardware checks via the **Utility** function
- (5) Start **Soundings** and set the **Project Name** and **Flight ID** (6) Perform a prelaunch check using all four channels simultaneously reading one sonde, look for reasonable data and no CRC error status lights, winds data is not expected. All AVAPS chassis status lights should be green.

NORMAL LAUNCH NOTES:

- ☐ When selecting a sonde frequency, select a frequency other than the default (if there is a default), and away from other sondes in use.
- ☐ Do not pull the Power Enable Pin during pre-launch setup until after the Umbilical is attached.
- ☐ If pre-launch is complete, and more than 5 minutes remain prior to launch, replace the power Enable pin until 5 minutes prior to launch.
- ☐ Don't put the sonde in the launch tube until you have removed the ribbon retaining tape.
- ☐ Don't put the sonde in the tube until you have selected **Begin Data Collection**, and verified good data (good winds data is not expected).

The Power Enable Pin must be removed for at least two minutes prior to launch to allow for the Sonde GPS Oscillator to warm up.



~~PAC~~ 61 10.391 149 58.139
PNOL 21 19 15755

NOAA G-IV **POC: Sean White - 813.833.3275**

CALL SIGN **NOAA49**
TAIL NUMBER **N49RF**
ALTITUDE **FL410-450**
AIRSPEED **Mach 0.77 (450KTAS)**

DEPARTURE
DATE 05 FEB 99
TIME 2100Z

NCEP DROP LOCATIONS indicated by a drop number.

#	LAT(N)/LONG(W) (degrees and minutes)	DIST(NM)	ETE	ETA Date/Zulu Time
	Anchorage (PANC)	---	---	05/2100 Takeoff time
	MARLO (57 28/150 32)	223	0+35	05/2135
1	55 49/152 19	117	0+16	05/2151
2	54 08/154 08	118	0+17	05/2208
3	52 26/155 56	120	0+16	05/2224
4	50 45/157 45	122	0+17	05/2241
	7 additional dropsondes			
5	49 04/159 34	122	0+16	05/2257
	7 additional dropsondes			
6	47 23/161 23	124	0+17	05/2314
	7 additional dropsondes			
7	45 41/163 11	126	0+17	05/2331
	7 additional dropsondes			
8	44 00/165 00	127	0+18	05/2349
	7 additional dropsondes			
9	42 48/162 24	134	0+18	06/0007
	7 additional dropsondes			
10	41 36/159 48	136	0+18	06/0025
	7 additional dropsondes			
11	40 24/157 12	138	0+19	06/0044
	7 additional dropsondes			
12	39 12/154 36	139	0+19	06/0103
	7 additional dropsondes			
13	38 00/152 00	142	0+19	06/0122
	7 additional dropsondes			
14	36 00/152 36	123	0+17	06/0139
15	34 00/153 12	124	0+17	06/0156
16	32 00/153 48	124	0+17	06/0213
17	30 00/154 24	124	0+17	06/0230
18	28 00/155 00	124	0+16	06/0246
	ZURIC (26 02/155 35)	124	0+16	06/0302
	Honolulu (PHNL)	310	0+43	06/0345
	Cumulative	2941	6+45	