U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOC WF1

Flt ID: 020319N	From: PHNL	To: KRNO
Flt No.: 02 – 39	Blk In: 0230Z	ATA: 0225Z
ETD: 2100Z	Blk Out: 2042Z	ATD: 2053Z
ETE:	Blk Time: 5:48 (5.8)	Flt Time: 5:32 (5.5)
Sponsor Org: NCEP	Program: WINTER STORMS	Purpose: FLT # 19 TRANSIT TO MISSION ENROUTE RENO, NV

AOC Personnel

AC: McCANN	Sys Eng: GOLDSTEIN
CP: YATES / FINKE	Data Sys: CARPENTER
Nav:	Radar:
FE: KITSON	GPS/BT: SANS SOUCI
Avionics:	Cld Phys:
FD: DAMIANO	CZYZYK PM

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

34
32
66
38
62.6
01562
17
-8

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOC-WF2

Flt ID: 020319N	Time Off: 20532	Time On: 02252

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	1020.7	30.15	869.6	30.17

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	10	All good; 10 messages sent

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

Flight ID: 020319N

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center — Form

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
212600	2414	15609	39	28	275	46	-58.2	-70.3	12486	12895	—	175.8	89.3	ABV BKN AC
214900	2632	15355	44	33	287	40	-56.4	-70.7	12488	12803	—	175.8	89.2	ABV BKN AC
221900	2920	15050	45	35	304	38	-56.4	-70.3	12486	12688	—	175.8	87.6	ABV BKN SC
222634	3000	15003	46	37	297	32	-58.3	-71.6	12496	12671	—	175.7	89.3	DROP (33)
224450	3140	14803	46	37	284	38	-55.9	-71.3	12496	12579	—	175.8	88.9	DROP (15)
230319	3320	14556	48	40	286	31	-54.5	-70.6	12497	12488	—	175.8	90.0	DROP (33)
232214	3500	14341	49	43	281	25	-49.9	-67.5	12468	12387	—	176.5	88.3	DROP (13)
233400	3601	14218	50	47	264	14	-48.5	-66.3	12468	12361	—	176.5	86.9	BKN CBs
234139	3640	14116	50	50	228	14	-49.0	-65.8	12467	12357	—	176.5	87.2	DROP (24)
000103	3820	13843	51	52	215	21	-49.6	-66.4	12475	12364	—	176.5	89.4	DROP (19)
002047	4000	13600	52	52	219	21	-53.3	-68.2	12471	12387	—	176.5	89.1	DROP (10)
003400	4104	13408	54	55	199	20	-58.3	-70.6	12471	12486	—	176.6	89.2	OVC CIR
004150	4140	13301			205	17	-61.1	-71.1				176.6		DROP (22)
005300	4231	13124	56	55	230	18	-59.8	-73.5	13050	13051	—	159.7	79.9	OVC THN CIR / OVC SC
010417	4320	12943	57	54	253	17	-61.6	-73.7	13052	13051	—	159.6	80.7	DROP (21)
012816	4456	12558	99	100	271	24	-61.0	-73.6	13051	13005	—	159.7	81.0	DROP (23)
020000	4157	12134	149	153	270	27	-62.5	-72.7	13062	13122	—	160.0	94.7	CLR

N49RF AVAPS DropSonde Log

N49RF Project: Winter Storms 2002 Flight ID 020319N

Mission: HNL → Reno Flight #: 19 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☑
1	003 135 315	1	2226	.3	23	DWC		✓
2	003 248 043	1	2244	.4	15	↓		✓
3	003 475 009	1	2303	0	33	↓		✓
4	003 135 312	1	2322	0	13	↓		✓
5	003 338 099	1	2341	.7	24	DSS		✓
6	003 135 314	1	0001	0	19	↓		✓
7	003 135 318	1	0020	0	10	↓		✓
8	003 338 112	1	0041	.6	22	AJG		✓
9	003 248 116	1	0104	.3	21	↓		✓
10	003135313	1	0128	.4	23	↓		
11								
12								
13								
14								
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31								
32								
33								

N49RF AOC GPS Dropwindsonde Log

Flight ID 020319N Flight Director DAMIANO Page 2 of 2

Mission ID WSWSC Storm TRANSIT

Drop#	~~Channel#~~ SONDE ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	003135315	222634	3000	15003	1020.4	BKN-SCT SC	224602	1	—	2352
2	003248043	224450	3140	14803	1016.7	BKN AC	230319	2	—	2308
3	003475809	230319	3320	14556	1012.7	BKN CC/AC	232122	3	—	2326
4	003135312	232214	3500	14341	1009.0	BKN CC/AC	234247	4	—	2348
5	003338099	234139	3640	14116	1005.4	BKN CB	000032	5	—	0005
6	003135314	000103	3820	13843	1006.6	BKN-OVC CIR	002030	6	—	0025
7	003135318	002047	4000	13600	1009.2	OVC CIR	003504	7	—	0040
8	003338112	004150	4140	13301	1016.1	OVC CIR	005705	8	—	0102
9	003248116	010417	4320	12943	1019.3	OVC CIR	011940	9	—	0124
10	003135313	012816	4456	12558	1021.9	OVC SC/THN CIR	014558	10	—	0151

NO 100 KTS

4456 12558

[redacted]

March 19, 2002

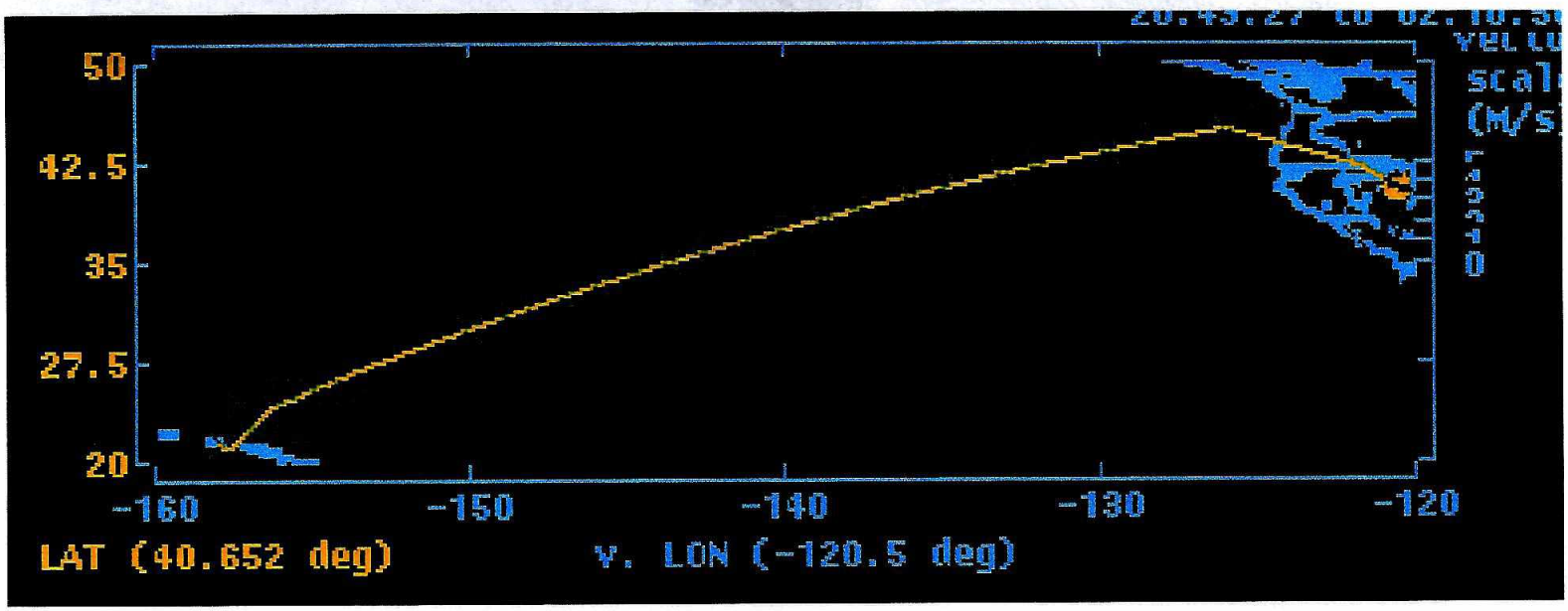
NOAA49 Winter Storms Reconnaissance Modified Track 36 CC (Counter Clockwise)

PHNL	21 19.0N	157 55.6W		
ZIGIE	24 18.8N	157 17.1W		
	~~25 30N~~	~~155 00W~~	Turn 1	[redacted]
~~Drop 1~~	~~30 00N~~	~~150 03W~~	First Drop	1019
~~Drop 2~~	~~31 40N~~	~~148 03W~~	1015	
~~Drop 3~~	~~33 20N~~	~~145 56W~~	1012	
~~Drop 4~~	~~35 00N~~	~~143 41W~~	1008	
~~Drop 5~~	~~36 40N~~	~~141 16W~~	1006	
	~~37 20N~~	~~140 00W~~	Turn 2	
~~Drop 6~~	~~38 20N~~	~~138 43W~~	1006	
~~Drop 7~~	~~40 00N~~	~~136 00W~~	1008	
~~Drop 8~~	~~41 40N~~	~~133 01W~~	1014	
~~Drop 9~~	~~43 20N~~	~~129 43W~~	1020	
Drop 10	45 00N	126 00W	Turn 3, Last Drop	1021

KRNO

39 30

119 46


50
42.5
35
27.5
20
-160
-150
-140
-130
-120
LAT (40.652 deg)
v. LON (-120.5 deg)

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: NS2002 **Project No.** 201 **Flight No.** RF19 **Flight ID:** 020319N

SED Crew: ASG, CARPENTER, SANDSOWCI **Mission:** PHNL-KRNO

Pre-Flight: 1950 Z **Take-Off:** 2053 Z **Landing:** 0225 Z

	SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
NAV	IRS #1			ASG			
	IRS #2			↓			
	GPS Honeywell #1						
	GPS Honeywell #2						
	GPS Collins					Off? ☑	
	Nose Radar - Collins			ASG		Off? ☑	
TEMP/DP		Time	Temp °C			Time	Temp °C
	Temp #1	2021	22.4	ASG		0228	14.6
	Temp #2	↓	22.8	↓		↓	16.3
	Temp #3		22.6				15.8
	Temp #4		22.6				16.8
	DP Left		11.6		Cal. Time:		-7.8
	DP Right		11.9		Cal. Time:		-9.9
	CRYO			NI		NF	
PRESS	Attack Angle (ADCAOA)			ASG		DSS	
	Angle of Attack (APx, DAPx)			↓		↓	
	Sideslip (BPx, DBPx)						
	Static Pressure (PS1M, PS2M)						
	Dynamic Pressure (QCxM)						
	Radome Press. Lines			Checked? ☑ Date: 1/25/02			
SYSTEMS	SATCOM (Flight Phone) ☑			DWC		Off CB? ☑	
	Call COMSAT? ☑ (*292#)			CB's Checked? ☑ DWC			
	Iridium Phone			ON? ☑ DWC		OFF? ☑	
	FCU/UPS/CB			ASG		UPS off? ☐	
	MADS (WINDS/DISCWIN)			ASG		# DATs: 1	
	Printer 1 (lp1)			Power? ☑ Paper? ☑		Printer Power off? ☐	
	MADS Cal. Date:			QC time: 2037		QC time: 0226	
	HAPS System			Time set? ☐ NU		# Msg.: # Fail:	
	AVAPS System			DWC			
	Exterior Walk Around ☑			DWC			
	Inspect Drop Sonde Chute Bolts			DWC			
MISC	Down Port Door (Ozone Inst.)			Cover OFF? ☑ DWC		Cover ON? ☑ DWC	
	AVAPS Sondes			# On Board: 24	# Dropped: 10	# Good: 10	
	Sci. Power Monitor			ASG			
	APN-232 Altimeter			ASG			
	Modem			Power On? ☑ DWC			
	Additional Instrumentation: AL Ozone Data System			L1 60Hz IP CB ON? ☑	**After Take Off**	L1 60Hz IP CB OFF? ☑	
				L1 400Hz CB ON? ☑	L1 Pump Switch ON? ☑	L1 400Hz CB OFF? ☑	
				Computer ON? ☑		Computer OFF? ☑	
	Crew Responsibilities Assigned			✓			

1	DAT Tape #1	On: 2037	Type: VERB 60M	Off: 0231
	Comments:			

1/17/2002 JCPB/cfh