

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

AOCWFI

Flt ID: 020201N	From: PANC	To: PANC
Flt No: 02-024	Blk In: 0307Z	ATA: 0304Z
ETD: 200Z	Blk Out: 1950Z	ATD: 1956Z
ETE: 0330Z	Blk Time: 7:17 7.3	Flt Time: 7:08 7.1
Sponsor Org: NOAA/NWS	Program: WS2002	Purpose: MISSION #4 TRACK2ICC

AOC Personnel

AC: MCCANN, B ✓	Sys Eng: HORN BROOK, C ✓
CP: MAXSON, B / POSTON, R ✓	Data Sys: LIND, D ✓
Nav:	Radar:
FE: KITSON, G	GPS/BT: MCNAMARA, R -
FD: CZY2YK, S ✓	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

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

AOCWF2

Flt ID: 020201N

Time Off: 1956Z

Time On: 0304Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	999.1	29.60	998.4	29.58

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
CD	1	
AXBT		
AXCP		
AXCTD		
Dropsondes	24	23 XMITTED 1 FASTFALL

Video

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

Remarks

020201N

Form 413-50

Form 413-50

[illegible]

N49RF AVAPS DropSonde Log

N49RF Project: WS2002

Flight ID 020201N

Mission: WSWSC Track 21 CC

Flight #: QF04

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☑
1	003 135 022	1	2039	.4	23	CPH		✓
2	014 515 023	1	2056	.4	23	CPH		✓
3	003 248 108	2	2110	0	19	CPH		✓
4	003 135 052	1	2125	.4	23	CPH		✓
5	003 155 011	2	2140	0	35	CPH		✓
6	003 135 311	1	2156	.5	26	CPH		✓
7	003 248 107	2	2210	0	20	CPH		✓
8	003 155 007	1	2224	.4	25	CPH		✓
9	003 115 427	2	2238	.5	31	RJM		✓
10	003 155 004	1	2250	0.2	22	RJM		✓
11	014 515 047	2	2200	0.4	30	RJM	INT. TELEMETRY	✓
12	003 115 422	1	2317	0.5	23	RJM		✓
13	014 515 049	2	2333	0.5	19	RJM		✓
14	003 115 421	3	2349	0.5	20	RJM	NO GPS LOCK ON CH1 ONLY 3 SATS	✓
15	003 135 310	1	0006	0.2	26	RJM		✓
16	003 135 053	2	0023	0.4	45	RJM		✓
17	003 148 124	1	0041	0.5	Late	CPH	Late Winds/Fast Fall	✓
18	003 135 333	3	0043	0	29	CPH		✓
19	013 945 070	1	0059	0.4	25	CPH		✓
20	003 135 050	2	0116	0	33	CPH		✓
21	003 155 013	1	0134	0.8	29	CPH		✓
22	003 115 320	1	0151	0.5	32	CPH		✓
23	003 115 319	1	0211	0.4	18	CPH		✓
24	003 115 423	-1	0228	0.4	45	CPH		
25	003 115 426	3		0.4				
26								
27								
28								
29								
30								
31								
32								
33								

G-IV Dropsonde Transmission Log

Proj. Name: WS2002

Mission ID: 020201N

Launch Time	Transmit Time	Serial #	Surf. Pres.	OB #
203919	2105Z	003135022	994.2	1
205615	2118Z	014515023	995.3	2
211057	2133Z	003248108	1000.5	3
212533	2148Z	003135052	1002.9	4
214008 ^{KW6C} 220549	2220Z	00315501	1005.2	5
215620	2220Z	003135311	1006.6	6
221029 ^{KW6C} 224720	2252Z	003248107	1006.5	7
222445	2252Z	003155007	1004.3	8
223835	2304Z	003115427	1004.0	9
225040	2317Z	003155004	E 1001.3	10
230452	2336Z	014515047	1008.5	11
231757	2345Z	003115422	1013.5	12
233329	0002Z	014515049	1016.1	13 (2)
235000	0014Z	003115421	1014.0	14
000648	0030Z	003135310	1012.7	15
002320	0100Z	003135053	1011.7	16 (2)
004150		003148124	1009.1	17
004355 ^{BACKUP}	0114Z	00313533	1004.9	17
005906	0129Z	013945070	1003.7	18
011601	0142Z	003135050	1003.7	19
013454	0200Z	003155013	1001.8	20
015144	0212Z	003115320	997.6	21
021100	0235Z	003115319	990.2	22
022811	0248Z	003115423	995.0	23

NOTE
WIND
BACKUP

PAGE
FALL

020201M

1956 - 2657

AKRD1 2027-2033 DIFF/JUMPS
12 2201-2207
0217-0221

API + AP2 }
DAP1 + DAP2

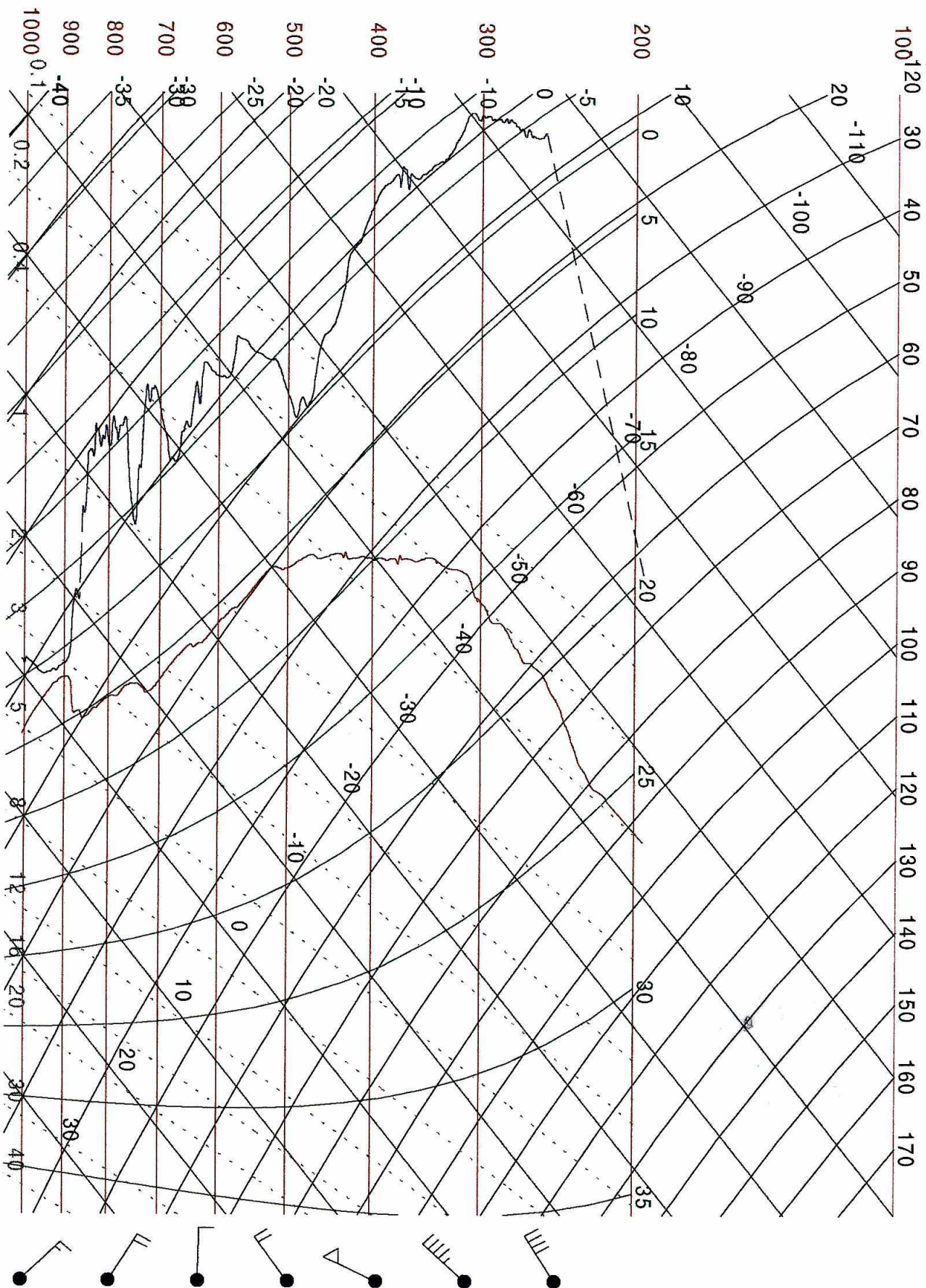
6PGMT DIPS/SPIKES 2021:30-2022:30, 2031-2032,
2109:30-2110:30, 2119-2120, 2201:30-2202:30,
2241-2242, 2315:30-2316, 2319:30-2320:30,
2349-2350, 0123-0124, 0137-0138, 0201-0202, 0
0251:30-0252:30

TAS2
AP2
AT2
BP2
DAP2
DBP2
DPRC
LAT
LON-PITR
VEW-PITR
VNS-PITR
VSPD-PITR
PTCH-PITR
PS2M
ROLL-PITR
TT2

February 1, 2002
WSR Track 21 CC (Counter Clockwise)

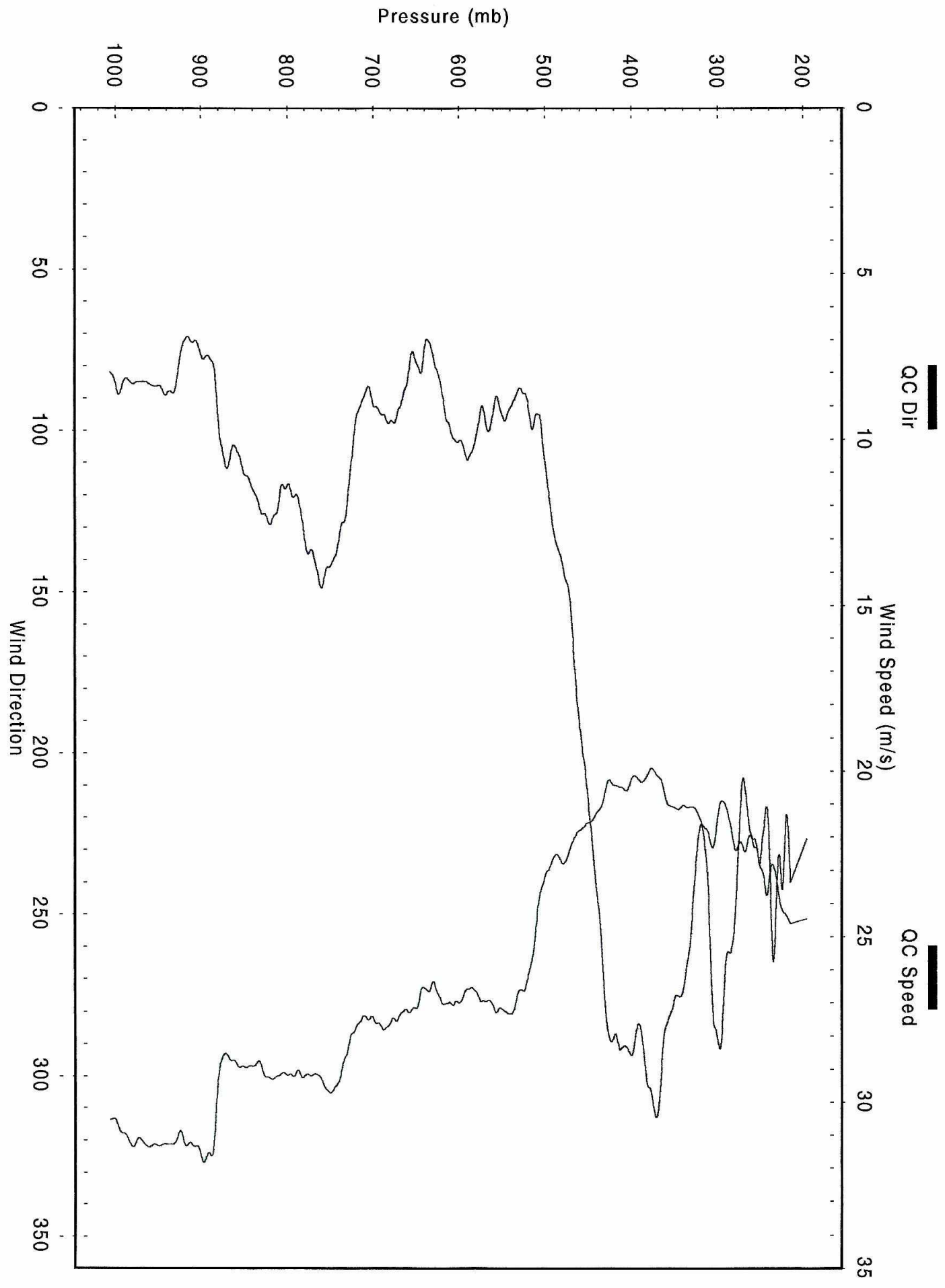
PANC	61 10.5N	149 59.8W	
46001 Drop 1	57 00N	148 00W 992	Turn Point, First Drop
Drop 2	55 00N	147 30W 997	
Drop 3	53 15N	147 00W 999	
Drop 4	51 30N	146 30W 1001	
Drop 5	49 45N	146 00W 1004	
Drop 6	47 45N	145 30W 1006	
Drop 7	46 00N	145 00W 1008	
Drop 8	44 15N	144 15W 1008	
Drop 9	42 30N	143 45W 1008	
Drop 10	41 00N	143 00W 1008	Turn Point
Drop 11	40 30N	140 15W 1009	
46006 Drop 12	40 15N	137 45W 1013	
Drop 13	40 00N	135 00W 1016	Turn Point
Drop 14	42 00N	134 15W 1014	
Drop 15	44 00N	133 30W 1014	
46005 Drop 16	46 00N	133 00W 1014	Turn Point
Drop 17	47 45N	135 00W 1016	
Drop 18	49 30N	136 45W 1008	
46004 Drop 19	51 15N	138 30W 1009	
46184 Drop 20	53 15N	140 30W 1001	
Drop 21	55 00N	142 30W 996	
Drop 22	57 00N	145 00W 995	Turn Point
Drop 23	58 15N	148 15W 994	Turn Point, Last Drop
PANC	61 10.5N	149 59.8W	

D20020201_215620.1 003135311 Drop # 6 WINTER STORMS 2002, 020201n G-IVSP, N49RF

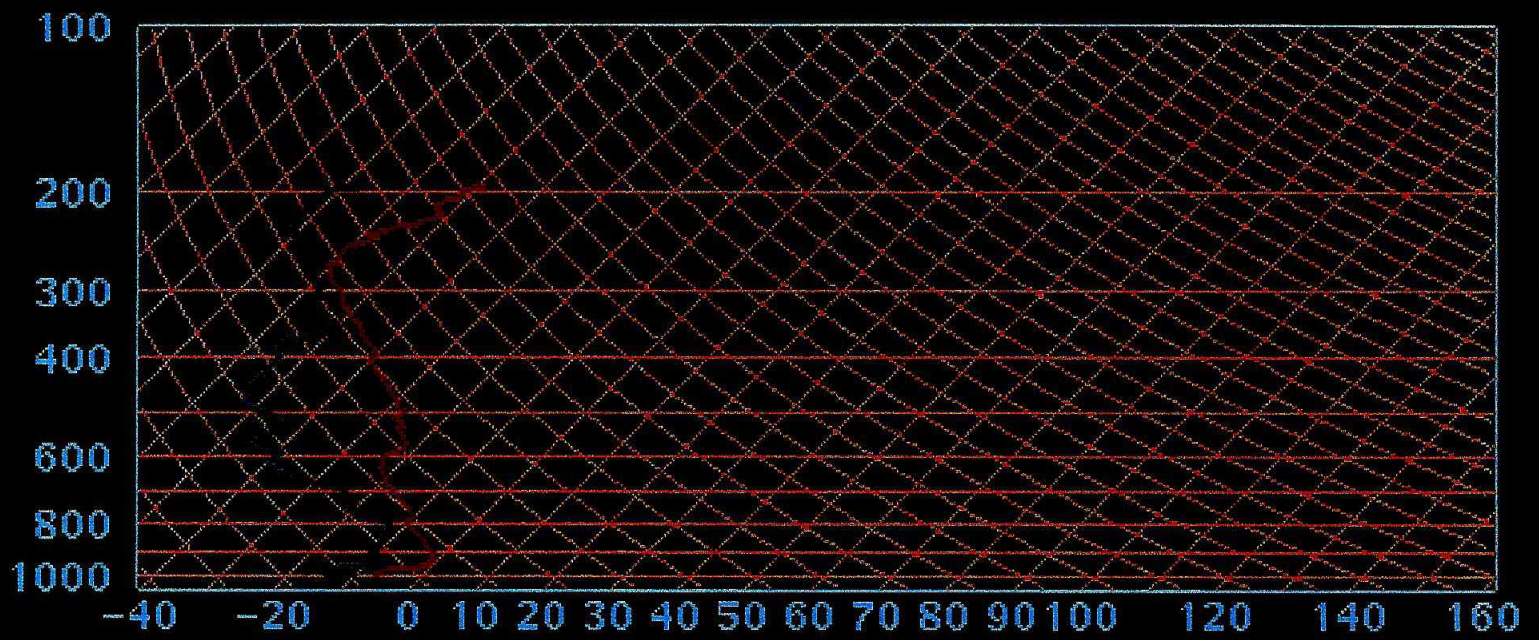


Wind Speed and Wind Direction versus Pressure

D20020201_215620.1 003135311 Drop # 6 WINTER STORMS 2002, 020201n G-IVSP, N49RF (Aspen V2.2.1, 01 Feb 2002 22:16 UTC)



19:53:58 to 20:25:17



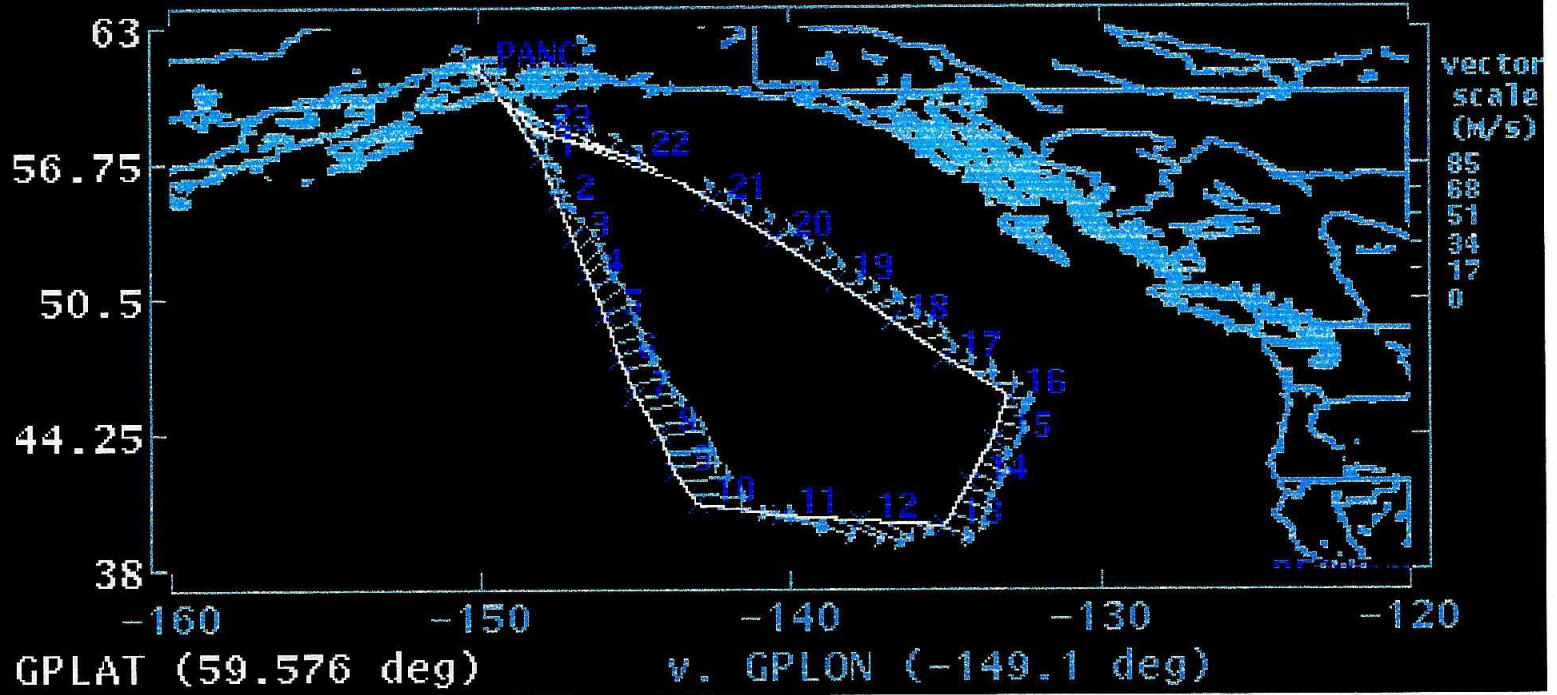
PSXC (195.83 mbar)

v. PSXC (195.83 mbar)

ATX (-48.05 C)

v. PSXC (195.83 mbar)

19:11:15 to 02:39:28



NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: WINTER STORMS 2002 Project No. 201 Flight No. RFOY Flight ID: 020201NSED Crew: HORNBROOK LIND McNAMARA

Mission: _____

Pre-Flight: 1830

Z

Take-Off: 1956Z Landing: 0309

Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1		DL			
	IRS #2		DL			
	GPS Honeywell #1		DL			
	GPS Honeywell #2		DL			
	GPS Collins		RJM		Off? ☒	
	Nose Radar - Collins				Off? ☒	
T E M P / D P		Time	Temp °C		Time	Temp °C
	Temp #1	1901	-5.8	RJM		
	Temp #2		-5.6	↑		
	Temp #3		-6.0			
	Temp #4		-5.5			
	DP Left		-15.9		Cal. Time:	
	DP Right	✓	-23.8	↓	Cal. Time:	
	CRYO	N/I	N/I	RJM		
P R E S S	Attack Angle (ADCAOA)		RJM			
	Angle of Attack (APx, DAPx)		RJM			
	Sideslip (BPx, DBPx)		RJM			
	Static Pressure (PS1M, PS2M)		RJM			
	Dynamic Pressure (QCxM)		RJM			
S	Radome Press. Lines		Checked? ☒ Date: 1/25/02			
S Y S T E M	SATCOM (Flight Phone) ☒		CH		Off CB? ☒	
	Call COMSAT? ☐ (*292#)		CB's Checked? ☒ CH			
	Iridium Phone		ON? ☒ CH		OFF? ☒	
	FCU/UPS/CB		RJM		UPS off? ☒	
	MADS (WINDS/DISCWIN)		RJM		# DATs: 1	
	Printer 1 (lp1)		Power? ☒ Paper? ☒ CH		Printer Power off? ☒	
	MADS Cal. Date:		QC time: 1941 Z		QC time: 0307 Z	
	HAPS System		Time set? ☐ N/4		# Msg.: # Fail:	
	AVAPS System		CH			
	Exterior Walk Around ☒		CH			
	Inspect Drop Sonde Chute Bolts		CH			
M I S C	Down Port Door (Ozone Inst.)		Cover OFF? ☒ CH		Cover ON? ☒	
	AVAPS Sondes		# On Board: 65	# Dropped: 24	# Good: 23	
	Sci. Power Monitor		RJM			
	APN-232 Altimeter		RJM			
	Modem		Power On? ☒ CH			
	Additional Instrumentation:		L1 60Hz IP CB ON? ☒	After Take Off	L1 60Hz IP CB OFF? ☒	
	AL Ozone Data System		L1 400Hz CB ON? ☒	L1 Pump Switch ON? ☒	L1 400Hz CB OFF? ☒	
			Computer ON? ☒		Computer OFF? ☒	
	Crew Responsibilities Assigned		RJM			

1	DAT Tape #1	On: 1940 Z	Type: 60 m	Off: 0309 Z
	Comments:			