

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

AOCWFI

Flt ID: 020202N	From: PANC	To: PANC
Flt No: 02-025	Blk In: 0242Z	ATA: 0238Z
ETD: 20Z	Blk Out: 1950Z	ATD: 2002Z
ETE: 0245Z	Blk Time: 6.52 6.9	Flt Time: 6.36 6.6
Sponsor Org: NOAA/NWS	Program: WS 2002	Purpose: MISSION #5 TRACK 19CL

AOC Personnel

AC: MCCANN, B ✓	Sys Eng: HORN BROOK, C ✓
CP: MAXSON, B ✓ POSTON, R ✓	Data Sys: LINO, D ✓
Nav:	Radar:
FE: KITSON, E	GPS/BT: MCNAMARA, R ✓
FD: CZYZYK, S ✓	Cld Phys:
Avionics:	Pm: KITSON, E PARRISH, J ✓

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

WINDS LOCKED UP 020453Z - 0207:??

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AOCWF2

Flt ID: 020202N Time Off: 2002Z Time On: 0238Z

	AVC (Take Off)	Wx Station (Take Off)	AVC (Land)	Wx Station (Land)
Pressure	995.8	29.48	993.1	29.42

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	23	22 LIMITED / NO WIND

Video

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

Remarks

020202N

Form 413-50

Form 413-50

[illegible]

G-IV Dropsonde Transmission Log

Proj. Name: WS2002

Mission ID: 020202N TRACK19CL

Launch Time	Transmit Time	Serial #	Surf. Pres.	OB #
210012	2124Z	003475116	994.7	1
211343	2138Z	003115426	E 1001.6	2
212454	2151Z	003515055	989.6	3
213638	2203Z	003475085	987.7	4
21540Z	2224Z	003438048	990.2	5
221133		003515054		no wind
221259	2236Z	003475115	992.5	6
222615	2259Z	003515053	993.4	7
224050	2309Z	003515056	E 992.7	8
225313	2318Z	003338007	993.3	9
230825	2333Z	003475068	998.1	10
232357	2349Z	003438046	1007.3	11
234026	0011Z	003475113	1011.1	12
235758	0022Z/0117Z	003248070	1013.6	13
001235	004630Z	003475111	1010.7	14
002502	0056Z	003475107	1009.4	15
003924	0108Z	003515059	1007.9	16
005615	0126Z	003515078	1004.5	17
011235	0137Z	003475028	1001.3	18
012725	0152Z	003115045	997.5	19
013952	0204Z	003115040	996.4	20
015417	0217Z	003515060	994.4	21
020556		003515058	992.5	22

N49RF AVAPS DropSonde Log

N49RF Project: WS2002 Flight ID 020202 N

Mission: _____ Flight #: RF05 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒
1	003 475 116	1	2100	0	22	CH		/
2	003 115 426	2	2113	.5	36	CH		/
3	003 515 055	1	2124	.4	17	CH		/
4	003 475 005	2	2136	0	16	CH		/
5	003 438 048	1	2154	.4	36	CH		/
6	003 515 054	1	2211	0		CH	No winds - ^{late} Int. winds	/
7	003 475 115	3	2212	0	18	CH		/
8	003 515 053	2	2226	.4	26	CH		/
9	003 515 056	1	2240	0	23	CFH		✓
10	003 388 007	2	2253	0.2	30	RJM		✓
11	003 475 068	1	2308	0.3	35	RJM		✓
12	003 438 046	2	2323	0.3	46	RJM		✓
13	003 475 113	1	2340	0.3	15	RJM		✓
14	003 248 070	2	2358	0.2	37	RJM		✓
15	003 475 111	1	0012	0.2	28	RJM		✓
16	003 475 107	2	0025	0.2	16	RJM		✓
17	003 515 059	1	0039	0	16	CH		✓
18	003 515 078	2	0056	0	23	CH		✓
19	003 475 028	3	0112	0.4	26	CH		✓
20	003 115 045	1	0127	0.4	37	CH		✓
21	003 115 040	2	0139	0.4	29	CH		✓
22	003 515 060	1	0154	0	17	CH		✓
23	003 515 058	2	0205	0	18	CH		✓
24	003 475 105	4		0				
25								
26								
27								
28								
29								
30								
31								
32								
33								

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020202N

2003 - 0238

SOME SMALL OSCILLATIONS IN TEMP SENSORS (0.1-0.2°C)
 ATI AFFECTED BY CHANGE IN ALT (1.3°C)

TIME GAP 0204:53 - 0206:40

LT-PITN SPIKE AFTER TIME GAP 0206:40: 0208:00

OCDA
 AOCDN - PITR
 OCTK - PITR
 ALL SG2 PARM'S
 ME PITR
 ALL PITR'S

AT2
 TAS2
 BP2
 DAP2
 DPRC
 LAT-PITR
 LON
 VEW
 VNS-PITR
 VSPD
 PS2M
 GC2M
 THOG
 ROLL
 PITCH

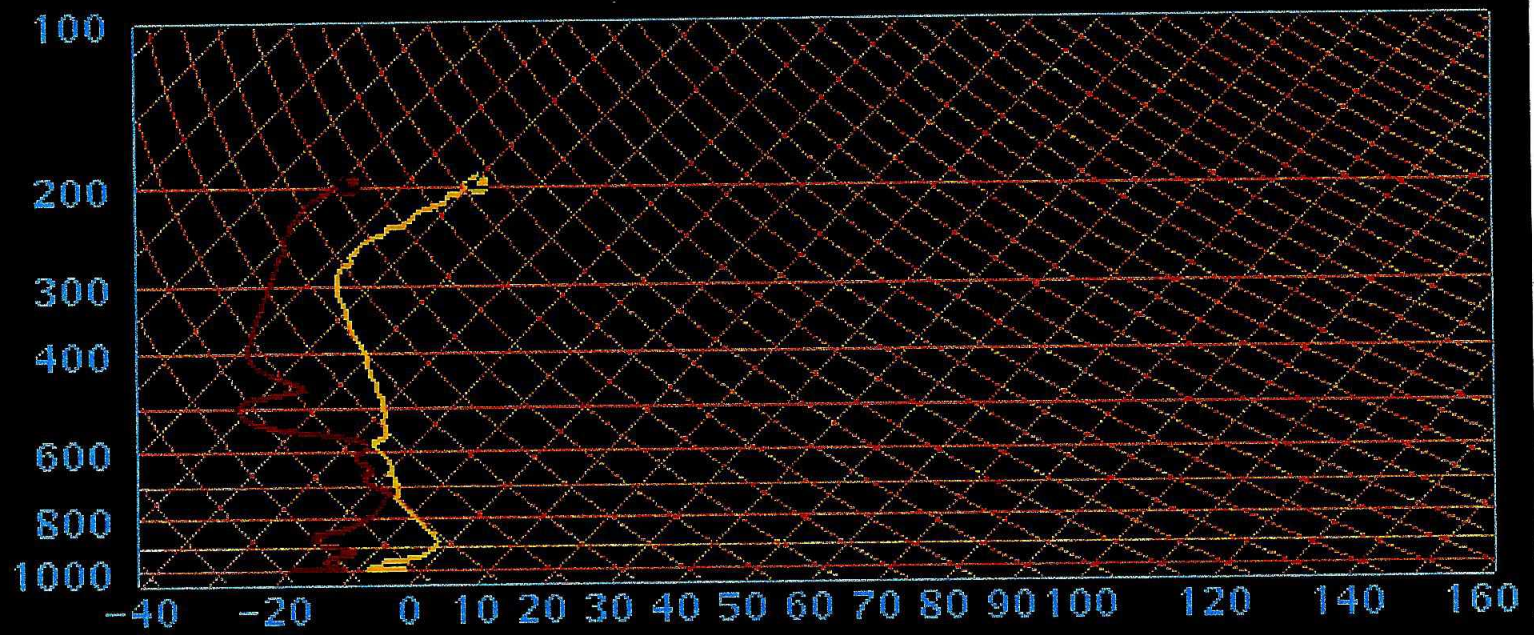
GP6ALT SPIKES/DIPS 2019:30-2020:30, 2030-2030:30,
 2112-2113, 2134-2134:30, 2155-2156:30, 2208-2212:30,
 2312-2314, 2337:30-2338:30, 2352-2352:30, 0000:00-0001:30,
 0021-0022, 0029:30-0030:30,

AT SPIKE AT BEG. OF TIME GAP 0204:50 - 0204:54

February 2, 2002
WSR Track 19 CC (Counter Clockwise)

PANC	61 10.5N	149 59.8W
MARLO	57 27.8N	150 31.9W
Drop 1	55 00N	151 00W 995 Turn Point, First Drop
Drop 2	53 30N	151 45W 997
Drop 3	52 15N	152 15W 997
Drop 4	51 00N	153 00W 997 Turn Point ^
Drop 5	49 00N	153 30W 998 990
Drop 6	47 00N	154 00W 999 Turn Point 991
Drop 7	45 15N	153 45W 1002 993
Drop 8	43 30N	153 30W 1005 996
Drop 9	42 00N	153 00W 1008 Turn Point 996 ?
Drop 10	41 00N	150 00W 1014 998
Drop 11	40 00N	147 00W 1017 Turn Point ¹⁰⁰⁵
Drop 12	41 30N	144 30W 1019 1007
Drop 13	43 00N	142 00W 1015 ¹⁰¹⁰ Turn Point
Drop 14	44 45N	142 15W 1012 1008
Drop 15	46 15N	142 30W 1011 1006
Drop 16	48 00N	143 00W 1009 ¹⁰⁰⁴ Turn Point
Drop 17	50 00N	144 00W 1006 1001
Drop 18	52 00N	145 00W 1004 ⁹⁹⁹ Turn Point
Drop 19	53 45N	146 15W 1002 997
Drop 20	55 15N	147 15W 997 ⁹⁹⁶ Turn Point
Drop 21	57 00N	148 30W 995 993
Drop 22	58 15N	150 00W 995 ⁹⁹⁰ Turn Point, Last Drop
PANC	61 10.5N	149 59.8W

19:45:13 to 20:28:17



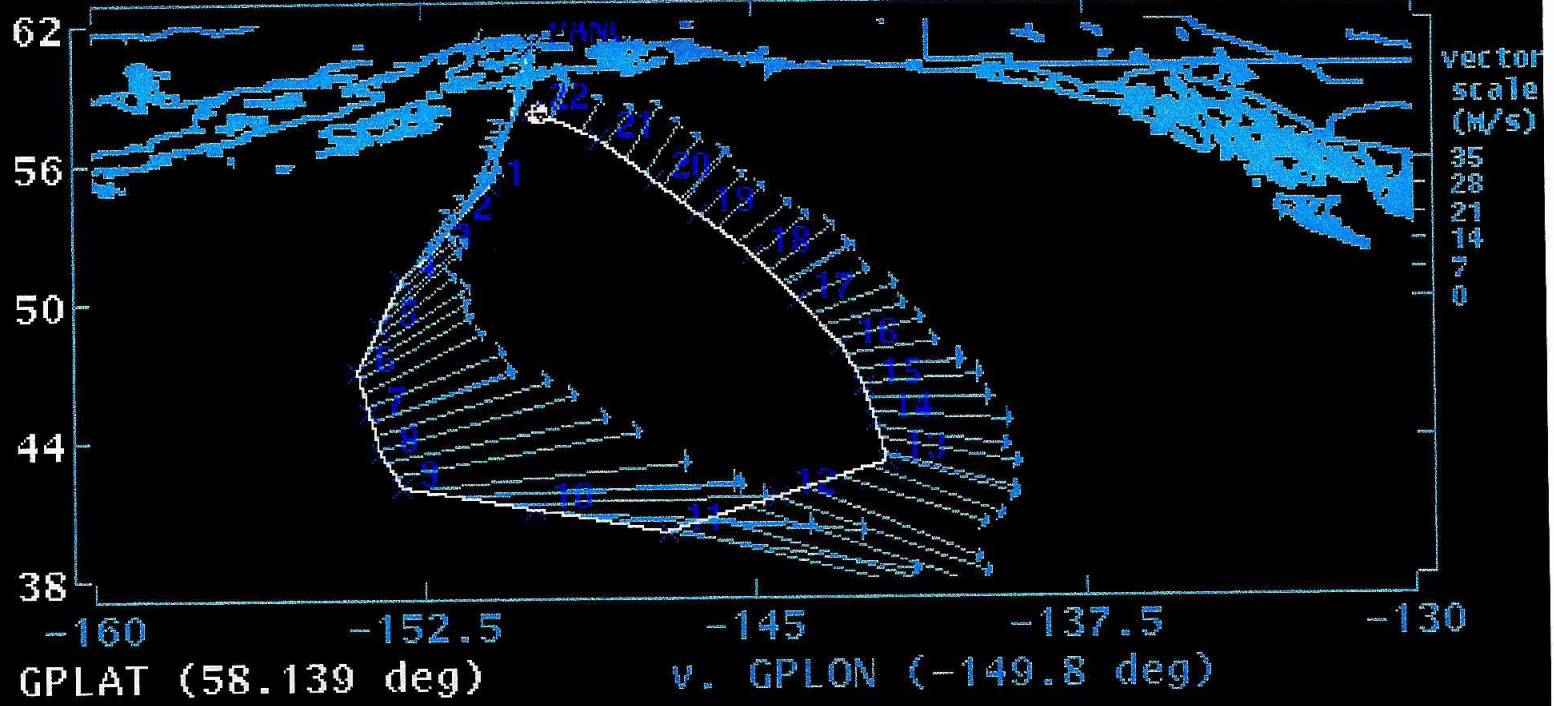
DPXC (-67.73 C)

v. PSXC (195.85 mbar)

ATX (-48.86 C)

v. PSXC (195.85 mbar)

20:07:12 to 02:04:53



NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: WS 2002 Project No. 201 Flight No. rf05 Flight ID: 020202N
 SED Crew: Adm. Hornbrook, Adm. Luo, Adm. McNamara Mission: WS R. Truck 19CC
 Pre-Flight: 1845 Z Take-Off: 2002 Z Landing: 0238 Z

SYSTEM		Pre-Flight Check		In-Flight	Post-Flight Check		
N A V	IRS #1		<u>✓</u>				
	IRS #2		<u>✓</u>				
	GPS Honeywell #1		<u>✓</u>				
	GPS Honeywell #2		<u>✓</u>				
	GPS Collins		<u>✓</u>		Off? ☒		
	Nose Radar - Collins		<u>✓</u>		Off? ☒		
T E M P / D P		Time	Temp °C			Time	Temp °C
	Temp #1	<u>1900</u>	<u>-3.9</u>	<u>✓</u>			
	Temp #2		<u>-5.8</u>	<u>✓</u>			
	Temp #3		<u>-5.6</u>	<u>✓</u>			
	Temp #4		<u>-6.9</u>	<u>✓</u>			
	DP Left		<u>-35.29</u>	<u>✓</u>	Cal. Time: <u>—</u>		
	DP Right		<u>-23.13</u>	<u>✓</u>	Cal. Time: <u>—</u>		
	CRYO	<u>NI</u>	<u>NI</u>	<u>NI</u>			
P R E S S	Attack Angle (ADCAOA)		<u>✓</u>				
	Angle of Attack (APx, DAPx)		<u>✓</u>				
	Sideslip (BPx, DBPx)		<u>✓</u>				
	Static Pressure (PS1M, PS2M)		<u>✓</u>				
	Dynamic Pressure (QCxM)		<u>✓</u>				
	Radome Press. Lines	Checked? ☒	Date: <u>1/25/02</u>				
S Y S T E M S	SATCOM (Flight Phone) ☒		<u>✓</u> RM		Off CB? ☒		
	Call COMSAT? ☒ (*292#)		CB's Checked? ☒ RM				
	Iridium Phone		ON? ☒ RM		OFF? ☒		
	FCU/UPS/CB		<u>✓</u> RM		UPS off? ☐		
	MADS (WINDS/DISCWIN)		<u>✓</u>		# DATs: <u>1</u>		
	Printer 1 (lp1)	Power? ☒	Paper? ☒ <u>✓</u>		Printer Power off? ☒		
	MADS Cal. Date:	QC time: <u>1943 Z</u>		QC time: <u>0239 Z</u>			
	HAPS System	Time set? ☐ <u>NU</u>		# Msg.: <u>—</u>	# Fail: <u>—</u>		
	AVAPS System	<u>✓</u> KM					
	Exterior Walk Around ☒		<u>✓</u> CH				
	Inspect Drop Sonde Chute Bolts		<u>✓</u> RM				
M I S C	Down Port Door (Ozone Inst.)	Cover OFF? ☒ <u>CH</u>		Cover ON? ☒			
	AVAPS Sondes	# On Board: <u>59</u>	# Dropped: <u>23</u>	# Good: <u>22</u>			
	Sci. Power Monitor	<u>✓</u> <u>✓</u>					
	APN-232 Altimeter	<u>✓</u> <u>✓</u>					
	Modem	Power On? ☒ <u>✓</u>					
	Additional Instrumentation:	L1 60Hz IP CB ON? ☒ <u>✓</u>	After Take Off	L1 60Hz IP CB OFF? ☒ <u>✓</u>			
	AL Ozone Data System	L1 400Hz CB ON? ☒ <u>✓</u>	L1 Pump Switch ON? ☒ <u>✓</u>	L1 400Hz CB OFF? ☒ <u>✓</u>			
		Computer ON? ☒ <u>✓</u>		Computer OFF? ☒ <u>✓</u>			
	Crew Responsibilities Assigned						

1	DAT Tape #1	On: <u>1942 Z</u>	Type: <u>Sony 60P</u>	Off: <u>0242 Z</u>
	Comments:			

Please Note Any Discrepancies

[illegible]