

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

AOCWF-1

Flt ID: 020130N	From: PANC	To: PANC
Flt No: 02-023	Blk In: 0250Z	ATA: 0246Z
ETD: 2030Z	Blk Out: 2020Z	ATD: 2025Z
ETE: 0245Z	Blk Time: 6:30 6.5	Flt Time: 6:21 6.4
Sponsor Org: NOAA/NWS	Program: WS2002	Purpose: MISSION #3 TRACK 24CC

AOC Personnel

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

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

BAL OPTAS 205140Z
CHILL OPTAS 210705Z

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

AOCWF2

Flt ID: 020130N Time Off: 2025-2 Time On: 0246Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	991.1	29.37	995.4	29.47

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
CD	1	
AXBT		
AXCP		
AXCTD		
Dropsondes	19	19 XMITTED

Video

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

Remarks

TIME	HAT	LOA	TK	HD	TA	TD	WD	WS	PA	GA	PS	QC	REMARKS
205206	5937	15428	234	235	-48.3	-	275	15.1	11889	11382	196.1	92.0	LEVEL 39K
212214	5730	16003	259	260	-47.2	-65.8	291	14.0	11904	11436	195.7	96.0	DROP #1
213954	5715	16345	263	263	-48.5	-65.9	275	22.7	11908	11467	195.6	97.5	DROP #2
215930	5700	16745	260	258	-51.0	-67.3	261	25.1	11898	11458	196.0	94.8	DROP #3
221832	5630	17130	256	254	-49.9	-67.3	246	30.9	11897	11452	195.9	95.7	DROP #4
2222													CLIMB
223650	5558	17459	224	223	-49.1	-66.6	229	28.0	12481	12050	178.1	87.1	DROP #5
225102	5430	17600	197	199	-48.6	-66.1	223	26.6	12493	12080	177.7	86.2	DROP #6
230714	5245	17645	195	198	-46.3	-65.1	224	33.4	12493	12110	177.7	87.8	DROP #7
232344	5059	17727	160	166	-44.5	-63.8	236	31.8	12479	12149	178.1	80.1	DROP #8
233632	4945	17800											DROP #9
234908	4830	17430	138	147	-43.4	-62.4	243	41.7	12484	12313	178.0	85.3	DROP #10
000203	4718	17241	96	-	-43.3	-61.9	253	58.4	12475	12407	178.3	83.7	DROP #11 LTURNS
001404	4745	17000											DROP #12
002524	4615	16730	64	58	-46.9	-63.6	264	59.0	12488	12433	177.9	86.7	DROP #13
003654	4901	16500	46	34	-48.1	-64.9	273	57.4	12487	12392	177.9	87.5	DROP #14
005158	5030	16245											DROP #15
010126	5206	16038	39	31	-49.4	-65.4	285	28.5	12496	12283	177.6	87.9	DROP #16
01214	5330	15845	35	26	-48.5	-65.3	294	30.4	12491	12210	177.8	86.3	DROP #17
013745	5515	15645	32	26	-47.6	-65.5	287	20.3	12488	12155	177.8	87.4	DROP #18
015356	5700	15445	29	23	-45.9	-63.6	307	19.0	12485	12095	177.9	87.3	DROP #19

N49RF AVAPS DropSonde Log

N49RF Project: Winter Storms 2002

Flight ID 020130N

Mission: WSWSCTrack24Cw Flight #: 3

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	003 135 099	1	2122	0	26	<i>[Signature]</i>		✓
2	003 135 030	2	2139	0.5	23	<i>[Signature]</i>		✓
3	003 135 340	2	2159	0	17	<i>[Signature]</i>		✓
4	003 135 339	1	2218	0	9	<i>[Signature]</i>		✓
5	014 515 022	1	2236	0.6	29	<i>[Signature]</i>	No Sensor Arm Support	✓
6	003 135 033	2	2251	0	36	<i>[Signature]</i>		✓
7	014 515 024	1	2307	0	24	<i>[Signature]</i>		✓
8	003 135 337	2	2323	0	27	<i>[Signature]</i>		✓
9	014 335 014	1	2336	0.5	36	<i>[Signature]</i>		✓
10	014 515 050	2	2349	0.5	46	<i>[Signature]</i>		✓
11	013 968 113	1	0002	0	16	<i>[Signature]</i>		✓
12	014 515 046	2	0014	0.4	24	<i>[Signature]</i>		✓
13	014 515 021	3	0025	0.5	24	<i>[Signature]</i>		✓
14	014 335 006	1	0036	0.4	23	<i>[Signature]</i>		✓
15	003 115 338	2	0052	0.4	44	RJM		✓
16	014 515 045	1	0107	0.4	12	RJM		✓
17	014 515 028	2	0121	0.2	19	RJM		✓
18	014 335 007	1	0137	0.4	25	RJM		✓
19	014 335 005	2	0154	0.5	15	RJM		✓
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

G-IV Dropsonde Transmission Log

Proj. Name: WS2002

Mission ID: 020130N

[illegible]

020130N

2025-0246

TIME GAP 2045:16 - 2046:02

SPIKE IN ALT-PITR 2046:18 - 2046:20
AOCDA-PITR

SPIKE DUE TO SPOESLIP 0056-0058

AKRD1-2 ROLL + - PITR
API-2 SSOF1-2
DAPI-2 SGLIP
PS2M SSRD1-2
THOC + - PITR
AOCDA + - PITR
ATTACK
BPI-2
DRFTA + - PITR
PALT

TAS2

AT2

AP2

BP2

DAP2

DBP2

DPRC

LAT

CON

VEW

VMS

PS2M

QCRM

ROLL

THDG

PITCH

SPIKE DUE TO AFT DSW SHUTDOWN 2046:18 - 2046:20

ALT-PITR DRFTA-PITR ALL PITRS-562
AOCDA-PITR CHALT-562
AUCTR-PITR GHGSF-562

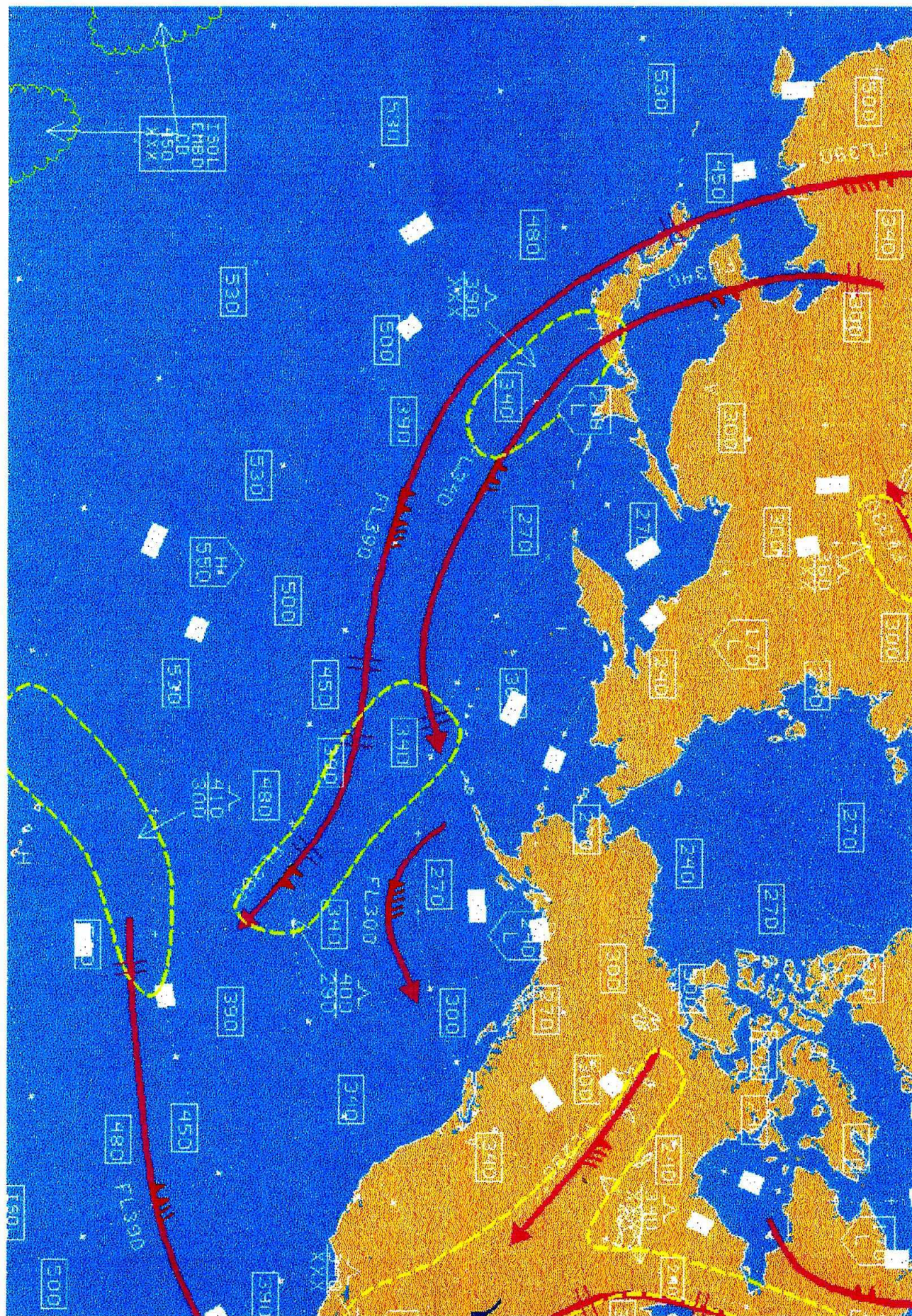
OPAC + DPL SPIKE DUE TO BALANCE 2051:30 - 2056:00

GPGALT OIPS/SPIKES 2049-2051:30, 2112:30-2113:30, 2125-2126,
2146:30-2147:30, 2207-2208, 2312-2313, 0044:30-0045:30,
0110:30-0111:30, 0114:30-0115:30, 0144:30-0145:30,

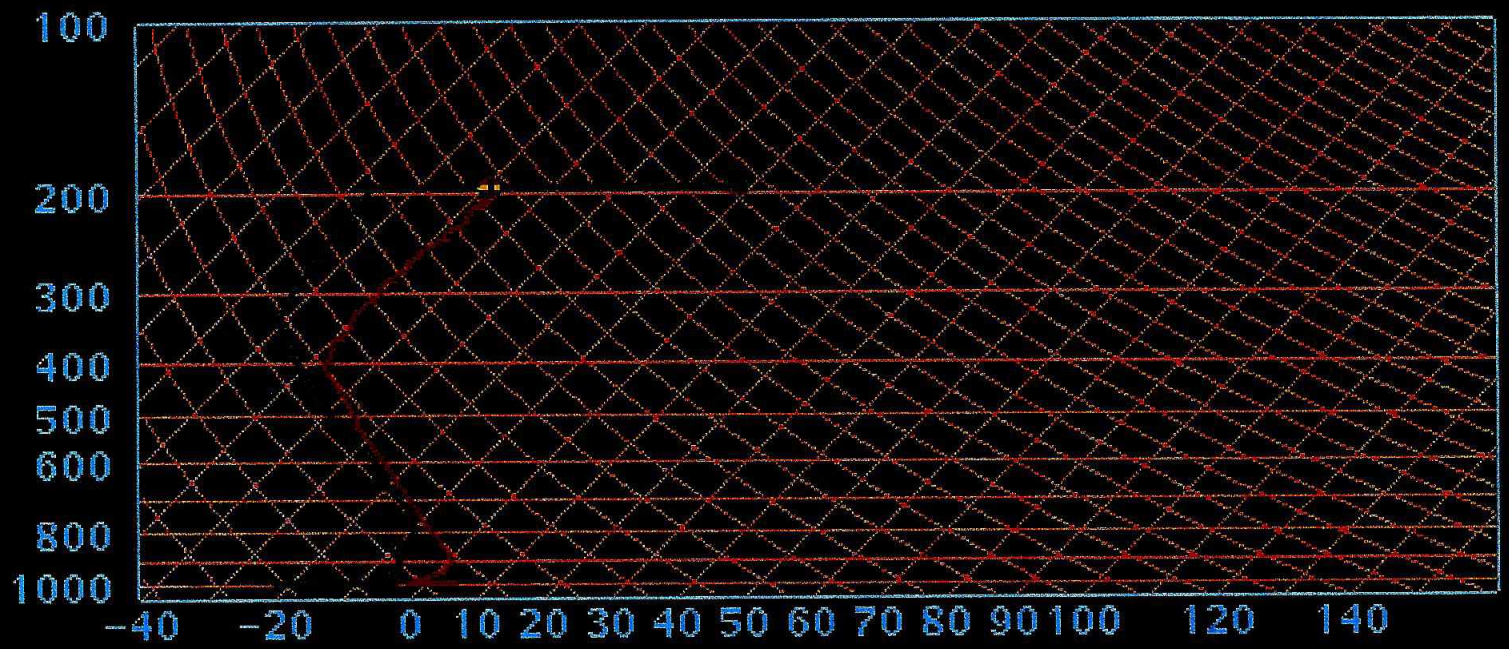
January 30, 2002
WSR Track 24 CC (Counter Clockwise)

PANC	61 10.5N	149 59.8W	
AKN	58 43.5N	156 45.1W	
Drop 1	57 30N	160 00W 1007	Turn Point, First Drop
Drop 2	57 15N	163 45W 1010	
Drop 3	57 00N	167 45W 1009	Turn Point
Drop 4	56 30N	171 30W 1004	
Drop 5	56 00N	175 00W 997	Turn Point
Drop 6	54 30N	176 00W 990	
Drop 7	52 45N	176 45W 984	
Drop 8	51 00N	177 30W 983	Turn Point 002
Drop 9	49 45N	176 00W 985	
Drop 10	48 30N	174 30W 989	
Drop 11	47 15N	172 45W 912	Turn Point
Drop 12	47 45N	170 00W 996	
Drop 13	48 15N	167 30W 1001	
Drop 14	49 00N	165 00W 1006	Turn Point
Drop 15	50 30N	162 45W 1009	
Drop 16	52 00N	160 45W 1010	
Drop 17	53 30N	158 45W 1008	
Drop 18	55 15N	156 45W 1004	
Drop 19	57 00N	154 45W 1000	Last Drop
HOM	59 42.6N	151 27.4W	
PANC	61 10.5N	149 59.8W	

No A19 WSWSC TRACK 24 CC
19 Drops



20:16:46 to 20:53:02



PSXC (196.10 mbar)

v. PSXC (196.10 mbar)

ATX (-48.52 C)

v. PSXC (196.10 mbar)

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: WS 2002 Project No. 201 Flight No. RF03 Flight ID: 020130NSED Crew: Hornbrook, Lino, Mac Mission: _____Pre-Flight: 1900 Z Take-Off: 2025 Z Landing: 0246 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1		<u>OK</u>			
	IRS #2		<u>OK</u>			
	GPS Honeywell #1					
	GPS Honeywell #2					
	GPS Collins			Off? ☒		
	Nose Radar - Collins			Off? ☒		
T E M P / D P		Time	Temp °C		Time	Temp °C
	Temp #1	<u>1931</u>	<u>4.7</u>	<u>OK</u>		
	Temp #2	<u>↓</u>	<u>0.9</u>			
	Temp #3	<u>↓</u>	<u>2.7</u>			
	Temp #4	<u>↓</u>	<u>1.2</u>			
	DP Left	<u>↓</u>	<u>-33.0</u>		Cal. Time: <u>2051</u>	
	DP Right	<u>↓</u>	<u>-27.0</u>	<u>OK</u>	Cal. Time: <u>2051</u>	
	CRYO	<u>N/A</u>	<u>N/L</u>	<u>N/L</u>		
P R E S S	Attack Angle (ADCAOA)		<u>OK</u>			
	Angle of Attack (APx, DAPx)		<u>OK</u>			
	Sideslip (BPx, DBPx)		<u>OK</u>			
	Static Pressure (PS1M, PS2M)		<u>OK</u>			
	Dynamic Pressure (QCxM)		<u>OK</u>			
S	Radome Press. Lines		Checked? ☒ Date: <u>1/25/02</u>			
S Y S T E M	SATCOM (Flight Phone) ☒		<u>OK</u>		Off CB? ☒	
	Call COMSAT? ☐ (*292#)		CB's Checked? ☒			
	Iridium Phone		ON? ☒		OFF? ☒	
	FCU/UPS/CB		<u>OK</u>		UPS off? ☒	
	MADS (WINDS/DISCWIN)		<u>OK</u>		# DATs: <u>1</u>	
	Printer 1 (lp1)		Power? ☒ Paper? ☒		Printer Power off? ☒	
	MADS Cal. Date:		QC time: <u>2011</u>		QC time: <u>0248</u>	
	HAPS System		Time set? ☐ <u>N/A</u>		#Msg.: _____ #Fail: <u>USED I.R.O.</u>	
S	AVAPS System		<u>D/L</u>			
	Exterior Walk Around ☒		<u>OK</u>			
	Inspect Drop Sonde Chute Bolts		<u>OK</u>			
M I S C	Down Port Door (Ozone Inst.)		Cover OFF? ☒		Cover ON? ☒	
	AVAPS Sondes		# On Board: <u>45</u>	# Dropped: <u>19</u>	# Good: <u>19</u>	
	Sci. Power Monitor		<u>OK</u>			
	APN-232 Altimeter		<u>OK</u>			
	Modem		Power On? ☒			
	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		<u>OK</u>			

1	DAT Tape #1	On: <u>2011</u>	Type: <u>60m</u>	Off: <u>0252</u>
	Comments:			

Please Note Any Discrepancies

[illegible]