

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

Flt ID: 060304N	From: PANC	To: PANC
Flt. No: 06-048	Blk In: 0249 Z	Time On: 0246 Z
ETD: 2000 Z	Blk Out: 1941 Z	Time Off: 1949 Z
ETE: 7+00	Blk Time: 7+08 (7.1) Hrs	Flt Time: 6+57 (7.0) Hrs
Sponsoring Org: NCEP	Program: Winter storms	Purpose: Flight 20

AOC Flight Crew

Aircraft Commander: Finn	Data System: Rogers
Co-Pilot: Odell, Longenecker	AVAPS: Brogan
Navigator: /	System Eng: /
Flight Eng: /	A A: /
Flight Director: Maycaux	A A: /
Avionics: /	Crew Chief: /

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times	Fix #	Fix Time
	Storm Name: _____		
	Mission ID: NOAA 24WSC Track 21		
	Penetration number and time _____		

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Flight ID: 060304N		Time Off: 1949 Z		Time On: 0246 Z	
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
Pressure	1006.4 mb	2984 mb	1001.5 mb	2976 mb	
ATIS	Time	Observation			
Takeoff	1853 Z	06006kt 55m -Br fww002 Bkn024 mo1/m07 A2984			
Land	0153 Z	00000kt 105m Sct035 Bkn070 Bkn090 mo2/m04 A2976			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

Remarks:
 Dynamic Pressure dropped off at 1952Z & returned.
 DARI dropped at 2025Z

N49RF AVAPS DropSonde Log

Project: WATER STORM 506 Flight ID: 060304N Flt Dir: MARTY

Mission: TRK 21 Flight #: RF20 Status: Sys 1 ✓ Sys 2 ✓ Launcher S/N: 02

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD ☒
1	053 416 019	1	2032	0	42	002			✓
2	053 716 124	1	2051	0.5	36				✓
3	053 716 195	1	2110	0.4	33				✓
4	053 716 386	1	2127	0.5	27				✓
5	053 716 371	3	2145	0	27		LAST "D" SONDE		✓
6	053 156 010	1	2205	0	3		REV "F"		✓
7	053 156 006	3	2222	0.5	2				✓
8	053 156 011	1	2238	0	1				✓
9	053 166 301	3	2254	0.5	1				✓
10	053 166 229	1	2312	0.5	2				✓
11	053 166 291	3	2328	0.5	2				✓
12	053 170 024	1	2345	0	2				✓
13	053 170 020	3	0001	0	2				✓
14	053 170 022	1	0021	0	1				✓
15	053 170 046	1	0043	0	3				✓
16	053 156 008	1	0106	0	1				✓
17	053 170 015	1	0128	0.5	3				✓
18	053 156 050	1	0152	0	1				✓
19	053 166 237	1	0215	0.5	2				✓
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									

\$ Codes A = AOC N = NHC/NWS H = HRD OW = NESDIS



NOAA G-IV N49RF
Winter Storms 2006
RESEARCH FLIGHT 20 TRACK 21



Flight ID: N060304

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW,VNS
Attack Angle	AKRD2
Slip Angle	SSRD2
Accelerometer	ACINS
Temperature Probe	AT4
Dew Point Probe	DPLC
Altitude (for vertical wind derivation)	RA
Static Pressure	PS2C
Dynamic Pressure	QC2C
True Air Speed	TAS1
Constants File	49cal051
Project Directory	601

Notes:

There were no time/data gaps during this flight.

Throughout the entire flight, DAP1 was measuring pressure values up to 20mb lower than DAP2. Therefore, since it is one of the inputs for the attack angle parameter, AKRD2 will be used for derived parameters.

Upon climb and descent, dynamic sideslip pressures (DBP1 and DBP2) separated by 10 to 15 mb. Due to the absence of a third sensor for comparison, no judgement can be made on which sensor is performing more accurately

Temperature Sensor two was erroneous throughout the entire flight.

The right dewpoint sensor was ~10 degrees too warm throughout the flight.

Otherwise, there were no problems with the flight.

Flight Director: Martin Mayeaux (813) 828-3310 ext. 3086

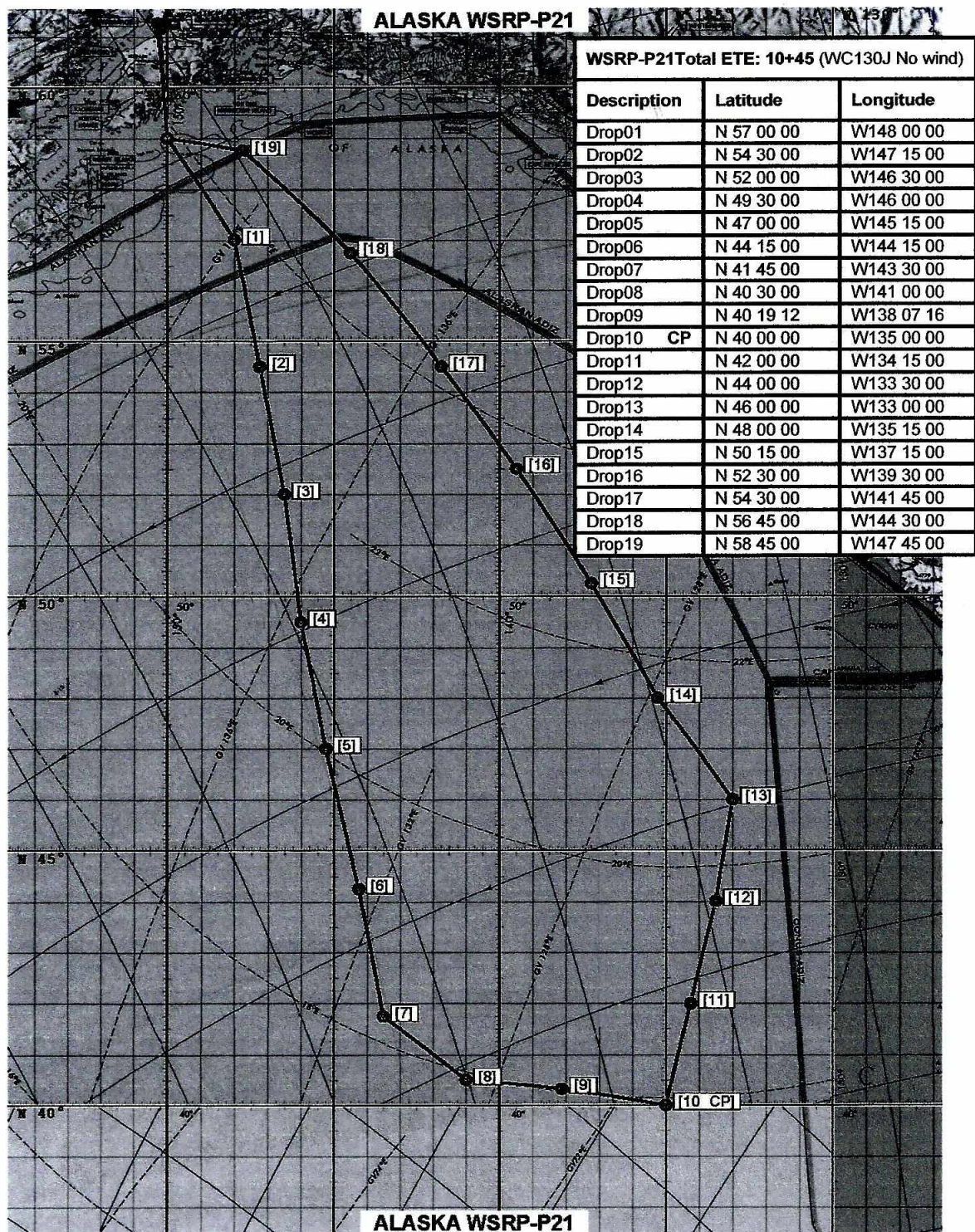


Figure G-21. Alaskan Flight Track WSRP-P21.

Winter Storm Reconnaissance Program (WSRP)

Track 21 19 Drops

Date: 04 March, 2006

Takeoff Time: 2000Z

MISSION ID: **NOAA9 24WSC TRACK21**

Departure Point: Anchorage

Arrival Point: Anchorage

PANC	61 10N	150 00W	
ENA	60 37N	151 12W	(Kenai VOR)
HOM	59 42.6N	151 27.4W	(Homer VOR)
Turn - Drop 1	57 00N	148 00W	
Drop 2	54 30N	147 15W	
Drop 3	52 00N	146 30W	
Turn - Drop 4	49 30N	146 00W	
Drop 5	47 00N	145 15W	
Drop 6	44 15N	144 15W	
Turn - Drop 7	41 45N	143 30W	
Turn - Drop 8	40 30N	141 00W	
Drop 9	40 19 12N	138 07 16W	
Turn - Drop 10- CP	40 00N	135 00W	
Drop 11	42 00N	134 15W	
Drop 12	44 00N	133 30W	
Turn - Drop 13	46 00N	133 00W	
Drop 14	48 00N	135 15W	
Drop 15	50 15N	137 15W	
Turn - Drop 16	52 30N	139 30W	
Drop 17	54 30N	141 45W	
Drop 18	56 45N	144 30W	
Turn - Drop 19	58 45N	147 45W	
SOBGE	60 48.6N	148 17.2W	(SOBGE Intersection)
PANC	61 10N	150 00W	

N49RF AOC GPS Dropwindsonde Log

Flight ID 060304N

Flight Director Moye GDX

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Mission ID N49RF 24WSC TFE21
Storm

Drop #	Altitude # (Swath ID)	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
2	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
3	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
4	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
5	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
6	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
7	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
8	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
9	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
10	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
11	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
12	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
13	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
14	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
15	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
16	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
17	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614
18	05311621	205139	5431	14715	1015.2	Wind 36 Cl 1	161205	2	0	1614