

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

AOCWFI

Flt ID: 020115N	From: KMCF	To: KMCF
Flt No: 02-17	Blk In: 2114Z	ATA: 2106Z
ETD: 18Z	Blk Out: 1819Z	ATD: 1831Z
ETE: 21Z	Blk Time: 2:55 2.9	Flt Time: 2:35 2.4
Sponsor Org: NOAA	Program: WINTER STORMS	Purpose: TEST FLIGHT

AOC Personnel

AC: FINKE, M	Sys Eng: HORN BROOK, L
CP: POSTON, R	Data Sys: CARPENTER, D
Nav:	Radar:
FE: KITSON, G	GPS/BT: SMITH, J
FD: CZYZYK, J / SHEPHERD, T / PARLISH, J	Cld Phys: MCNAMARA, R
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: 020115N	Time Off: 1831Z	Time On: 2106Z			
	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)	
Pressure	1020.2	30.13	1019.6	30.11	
	Number	Data Disposition / Date / Quality			
Flt Lvl Tapes					
Radar Tapes					
Cloud Physics Tapes					
Video Tapes					
AXBT					
AXCP					
AXCTD					
Dropsondes	2				
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks					

N49RF AVAPS DropSonde Log

N49RF Project: TEST FLIGHT Flight ID 020115N

Mission: _____ Flight #: _____ System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒ /B
1	990845167	1-6	1935	0.0	378	RJM/JS		☒
2	003 148 103	2+8	1953	+0.3	278	RJM/JS	CHANNEL 1 GPS CARD SLOW TO ACQUIRE	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

G-IV Test Flight
Winter Storms 2002
January 14, 2002

Temp. Sensor	AT1	AT2	AT3	AT4	ADCSAT	Drop # 1	Drop #2
FL390	-51.2	-52.0	-51.5	-51.3	-50.0	-53.3 1242.9 195.2 -53.1 1237.3 196.2	-52.6 1242.9 195.2 -52.3 1239.3 196.2
FL410	-56.6	-56.9	-55.9	-56.1	-53.5	-57.1 1303.4 172.5 -56.9 1299.4 178.5	-56.6 1299.4
FL430	-59.3	-59.4	-58.1	-58.7	-55.8		
FL450	-62.4	-62.5	-60.9	-62.3	-58.1		

191811 PALT F
40946

		PALT F	GPALT	✓ GPALT	P52m	WD	WS	APAC	APLC
FL410	191811	40946	13034	12994	178.1	271	38.8	-69.9	-66.5
FL450	193511	44661	14222	14176	147.2	262	28.2	-72.7	-69.5
FL430	195240	42818	13630	13587	162.0	270	33.1	-71.6	-67.8
(20 min summary) FL390	201130	39027	12429	12393	196.0	263	32.3	-70.3	-67.7

Further evidence of a significant warm bias
in the aircraft OAT

Plot track

G-IV Test Flight
Winter Storms 2002
January 14, 2002

Parameter	Dropsonde #1	Dropsonde #2	Buoy 42003
Temperature	19.9	20.2	68.7/20.4
Pressure	1020.0/	1019.1/	30.09
Humidity DewPt	89%/17.9/	82%/17.1	61.3/16.3
Wind Direction	046	045	NE
Wind Speed(Kts)	8.8 m/s / 17.1 Kts	9.0 m/s / 17.5	^{Kts} 17.5 6 21.4

LAT	25.87	25.85
LONG	86.00	85.93

NO LAT LONG ON DRIP 1 AE TO ASPEN

020115N

Flight ID:

Page of

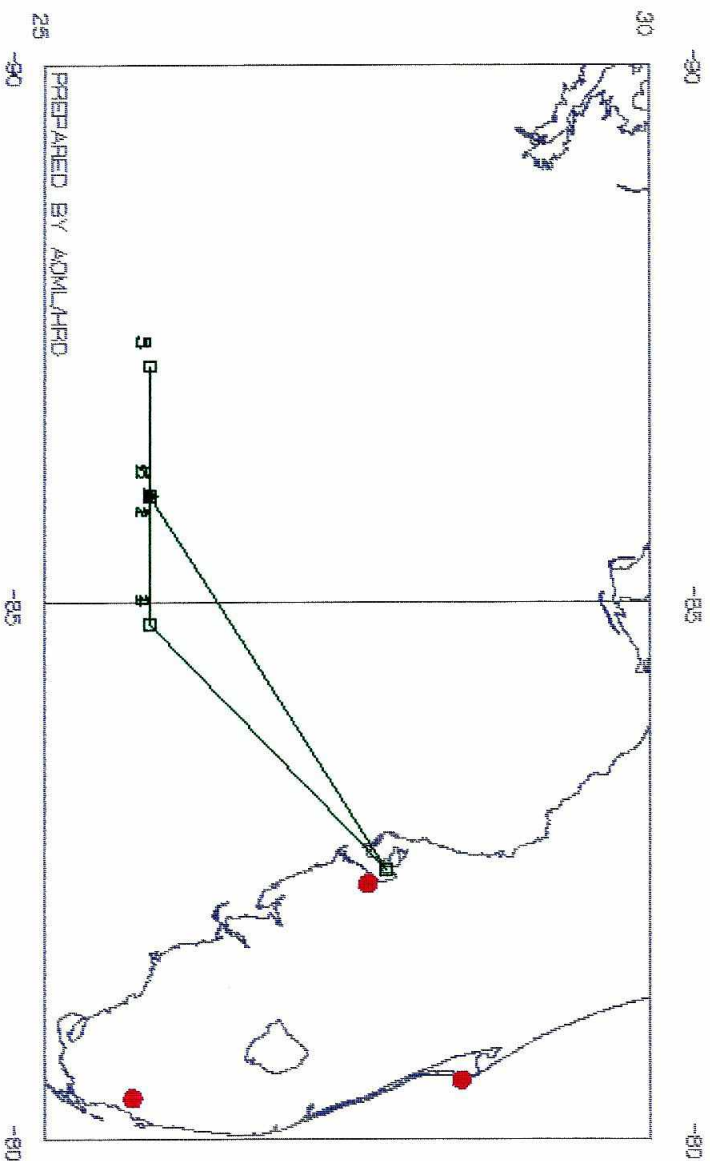
U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

Form 413-50

TIME	LAT	LONG	TK	HD	TA	TD	WD	WS	PA	GA	PS	SP OR	REMARKS
1846-	26 45	82 25											26K LT TURB
185030	2635	8255	248	248	-35.8	-54.4	258	30.3	9476	9847			31K AA
190800	2553	8449	271	270	-55.5	-68.7	276	37.5	12486	13004	177.9		PT 1
191800	2553	8557	270	269	-56.6	-69.9	270	39.2	12997	12482	178.0		BUOY
192345	2553	8637	270	269	-57.4	-66.8	277	38.6					CLIMB to 45K
193516	2553	8555	262	90	-62.4	-72.7	262	28.2	14171	13612	147.2		DROP #1
194130	2554	8458											PT #1 DESCEND
195318	2553	8609	270	269	-59.4	-67.8	272	33.2	13587	13051	161.9		DROP #2
200035													PT #2 TURN + DESCEND
200830	2553	8605											BUOY

-57.0

0331



PREPARED BY ADM/LHFD

FLIGHT TRACKS WS2002

— testflight

- RAWINSONDES 9804
- Regular
 - 12Z only
 - 00Z only
 - Infrequent
 - Infrequent - 00Z
 - Infrequent - 12Z
 - ▲ DROP LOCATIONS

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: WSTF Project No. 201 Flight No. TF1 Flight ID: 02015N
 SED Crew: McNamar, Horvath, Smith, Carr Mission: Test Flight
 Pre-Flight: 1800 Z Take-Off: 1831 Z Landing: 2105 Z

SYSTEM		Pre-Flight Check		In-Flight		Post-Flight Check	
N A V	IRS #1						
	IRS #2						
	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	1723	18.63	DWC			
	Temp #2	↓	18.515	↓			
	Temp #3	1724	18.673	↓			
	Temp #4	↓	18.261	↓			
	DP Left	↓	12.967	↓	Cal. Time:		
	DP Right	↓	13.203	↓	Cal. Time:		
	CRYO			N/U			
P R E S S	Attack Angle (ADCAOA)			DWC			
	Angle of Attack (APx, DAPx)			↓			
	Sideslip (BPx, DBPx)			↓			
	Static Pressure (PS1M, PS2M)			↓			
	Dynamic Pressure (QCxM)			↓			
S	Radome Press. Lines			Checked? ☒ Date: 7-12-01			
S Y S T E M S	SATCOM (Flight Phone) ☒			DWC		Off CB? ☐	
	Call COMSAT? ☐ (*292#)			CB's Checked? ☒ DW			
	Iridium Phone			ON? ☒ DW		OFF? ☐	
	FCU/UPS/CB			DWC		UPS off? ☐	
	MADS (WINDS/DISCWIN)			DWC		# DATs:	
	Printer 1 (lp1)			Power? ☒ Paper? ☒ DW		Printer Power off? ☐	
	MADS Cal. Date: 7/6/01			QC time: 1801	Chel with Rich	QC time:	
	HAPS System			Time set? ☒ CH		# Msg.: # Fail:	
S	AVAPS System			JS			
	Exterior Walk Around ☒			DWC			
	Inspect Drop Sonde Chute Bolts			DWC			
M I S C	Down Port Door			Open? ☒	pull plug	Closed? ☐	
	AVAPS Sondes			# On Board: 5	# Dropped: 2	# Good:	
	Sci. Power Monitor			CH			
	APN-232 Altimeter			CH			
	Modem			Power On? ☒ DW			
	Additional Instrumentation:			L1 60Hz IP CB OFF? ☐	After Engine Start	L1 60Hz IP CB OFF? ☐	
	AL Ozone Data System			L1 400Hz CB ON? ☒	L1 60 Hz IP CB ON? ☐	L1 400Hz CB OFF? ☐	
				Computer ON? ☒	Search	Computer OFF? ☐	
	Crew Responsibilities Assigned			CH			

1	DAT Tape #1	On: 1821	Type: 60	Off: 2114
	Comments:			
	Must be on for light			
	Hand Set			

Iridium - goes blank
 GPS - Chan 1 only 3 sets

Channel - 3 25 no gas

NO GPS on AUVAS - Prop. mag -
NO print winds Display