

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

AOCWF1

Flt ID: 010224D	From: PHDL	To: PHDL
Flt No.: 01-02	Blk In: 0456	ATA: 0053
ETD: 22Z	Blk Out: 2142	ATD: 2155
ETE: 7.5	Blk Time: 7:14(7.2)	Flt Time: 6:58(7.0)
Sponsor Org: ETL/FSL	Program: SCAT-CAT	Purpose: Midway FLS

AOC Personnel

AC: McCann ✓	Sys Eng: Smith
CP: Finke/Yates ✓	Data Sys: Hornbroke
Nav:	Radar:
FE:	GPS/BT:
Avionics:	Cld Phys:
FD: Parrish ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Eschoping, M. ✓	PI	ETL
Goldenberg, S. ✓	ILAPs	ILAD
Cook, M. ✓	Visitor	CBS. DEOS
Whittaker, S. ✓	↓	↓
Reiz, G. ✓		

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

30.00 Fly to area over Midway, survey drop line, then stacks.
 24.5/18 Dropped 18 SCATCAT sondes, 4 occp. Flew steps back at 33K, 31K,
 014.6 35K, no turb.
 109/6 Flew stack N/S on East edge of box, found light, OCCD MOD
 57/3 Turb between 32,100 FT & 34,000 FT. Very thin layer.
 24/19 Dropped 3 sondes on return!
 1013.6

Flight ID:

010224N SCAT FLIGHT 5

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt. (→)	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
2142	21 19	157 55					25	17				1015	0.2	BIR
2156	21 16	157 54	204	203	151	4.6	16	10.9	1098	1067		887	80.0	↑
220030	2117.8	158 15.9	284	285	223	9.6	4	-23	3909	3727		625	160	↑
221330	21 45	159 43	288	281	237	33	-35	-40	9611	9235		294	126	↑
2228	22 11	161 13	287	281	257	48	-57	-63	12983	12555		175.9	88.9	-41K
225115	22 53	163 41	286	280	254	46	-56	-64	12958	12550		176	89	
230031	23 09	164 40	285	279	255	45	-55	-65	12937	12546		176	89	Drop 1 OCG ✓
232647	23 53	167 32	284	277	248	44	-56.7	-65.1	12919	12548		176	89	Drop 2 OCG ✓
234932	24 29	170 00	284	280	262	42	-53.7	-63	12879	12548		176	87	Drop 3 OCG ✓
000727	24 55	172 00	283	279	263	41	-52.9	-63.2	12860	12547				Drop 4 OCG ✓
0025	25 21	174 01	307	305	283	32	-53.7	-63.5	12888					Drop 5 SCAT ✓
0030	25 41	174 29	309	307	296	31.4	-52.9	-63.4	12881	12544		176	90	Drop 6 SCAT ✓
003505	26 03	174 58	308	307	305	38	-54	-63	12836	12539		176	88	Drop 7 SCAT ✓
0040	26 22	175 25	310	308	310	37	-53.5	-63.7	12841	12541		176	88	Drop 8 SCAT ✓
0045	26 42	175 53	308	308	312	39	-53.7	-63.5	12833	12542		176	90	Drop 9 SCAT ✓
0050	27 00	176 19	307	308	313	42	-55.7	-63.9	12821	12536		176	90	Drop 10 ✓
0055	27 20	176 47	307	309	315	51	-55.6	-64.3	12790	12538		176	87	Drop 11
0100	27 37	177 11	308	309	315	53	-56.5	-64.9	12801	12542		176	89	Drop 12
0105	27 54	177 37	308	311	321	59	-58	-65	12807	12540		176	88	Drop 13
1110	28 12	178 02	308	311	320	60	-57	-66	12801	12542		176	88	Drop 14
0115	28 28	178 26	307	311	321	62	-58	-66	12802	12542		176	88	Drop 15
0120	28 45	178 52	336	335	324	64	-58	-66	10013	9816		271	125	Drop 16
0126	28 35	178 15												-32K
013140	28 02	177 30												↓ to 31K
013245	27 57	177 23	129	123	335	52	-41.7	-35.6	9702	9507		284	131	-31K
013655	27 33	176 51												↑ 32
014330	26 55	176 01	131	124	346	58	-40.4	-57.3	10039	9810		272	130	
0159	25 28	174 05	8	359	335	40	-41	-54	10343	10113		260	121	-33K A → C
0210	26 37	174 04												
0214	26 18	174 14	167	167	347	48	-45	-58	10985	10731		236	112	-35K C → A
0218	25 39	174 05												
0225	26 02	173 47	↑	Onset	32.2K	42	-57							
0231	26 31	173 58	~	~	329	47	-47	-58	11279	11036		225	106	Turn 5
33500 - Onset			32,100 - Onset			From ↑								
34000 - ↓ Onset			32,500 - Out			32,600 - Onset ↑								
0245 ↑ to 41K & home														
031658	24 42	170 42	103	103	284	27.9	-53.1	-61.9	12884	12535		176.5	96.5	Drop 17 CAT ✓
033940	23 56	167 15	103	107	254	28.7	-56.9	-62.99	12910	12534		176.5	95.7	Drop 18 CAT ✓
040407	23 02	163 29	105	110	250.5	40.	-56.9	-64.3	12962	12531		176.6	96	Drop 19 CAT ✓

N49RF Winter 01 / AVAPS DropSonde Log

N49RF Project: WINTER Storms 2001

Flight ID: 010224N

Mission: SCAT CAT

Flight #: 13

System Status: ✓ JAS

[illegible]

NOAA/AOC/SED N49RE Flight Performance log

Project Name: WS2001 Project No. 101 Flight No. RF13 Flight ID: 010224N
 SED Crew: Hornbrook, Smith Mission: SCAT CAT
 Pre-Flight: 2050 Z Take-Off: 2154 Z Landing: 0452 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1		<i>ch</i>	<i>ch</i>		
	IRS #2		<i>ch</i>	<i>ch</i>		
	GPS Honeywell #1		<i>ch</i>	<i>ch</i>		
	GPS Honeywell #2		<i>ch</i>	<i>ch</i>		
	GPS Collins		<i>ch</i>	<i>ch</i>	Off? ☒	
	Nose Radar - Collins		① <i>ch</i>	<i>ch</i>	Off? ☒	
T E M P	Time	Temp °C			Time	Temp °C
	Temp #1	2056	28.3	<i>ch</i>	0453	28.5
	Temp #2		31.5	<i>ch</i>		25.3
	Temp #3		28.1	<i>ch</i>		27.2
	Temp #4		34.2	<i>ch</i>		29.9
	DP Left		19.0		Cal. Time: 2239	18.3
	DP Right		20.0	<i>ch</i>	Cal. Time: 2229	18.7
P R E S S	Attack Angle (ADCAOA)		<i>ch</i>	<i>ch</i>		
	Slip Angle (BPx/DxPx)		<i>ch</i>	<i>ch</i>		
	Differential (QC1/QC2)		<i>ch</i>	<i>ch</i>		
	Absolute (PS1/PS2)		<i>ch</i>	<i>ch</i>		
	Check Radome Press. Lines ☒		Date: 2/10/01			
S Y S T E M	Down Port → Open? ☒		<i>ch</i>		Closed? ☒	
	MADS (WINDS/DISCWIN)		<i>ch</i>		# DATs: 1	
	MADS Printer1 ON→Paper? ☒		<i>ch</i>		Printer Power off? ☒	
	MADS Printer2 ON→Paper? ☒		<i>ch</i>		Printer Power off? ☒	
	HAPS System / Time set? ☒		JAS		# Msgs: 14 # Fail: 4	
M I S C	AVAPS System		JAS			
	MADS Cal Date: 1/10/01		QC Time: 2059	Cal? ☐ Initial:	QC Time: 0454	
	Exterior Walk Around ☒		<i>ch</i>			
	Inspect DropSonde Chute Bolts		<i>ch</i>			
M I S C	Satcom (Flight Phone) ☒		<i>ch</i>		Off CB? ☐	
	Call COMSAT? ☒ (*292#)		JAS			
	FCU/UPS/CB		CB's Checked? ☒	<i>ch</i>	UPS off? ☐	
	AVAPS Sondes		# On Board: 44	# Dropped: 19	# Good: 18	
	APN-232 Altimeter		<i>ch</i>			
A D D I T I O N A L	Modem Power On? ☒		<i>ch</i>			
	Additional Instrumentation:		Inlet Cap Removed? ☒	After Takeoff	Computer OFF? ☒	
	AL Ozone Data System		L1 400Hz CB ON? ☒	Pump ON? ☒ 2154	L1 60Hz IP CB OFF? ☒	
	and Inlet Probe		Probe Temp >= 40C? ☒	Before Landing	L1 400Hz CB OFF? ☒	
			After Engine Start	Pump OFF? ☒	Inlet Cap In place? ☒	
			L1 60 Hz IP CB ON? ☒	Data xfer to zip disk? ☒		
			Computer ON? ☒			
1	DAT Tape #1		On: 2138	Type: 60	Off: 0456	
Comments:						

Please Note Any Discrepancies

[illegible]