

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

AOCWFI

Flt ID: N030729	From: KMCF	To: KMCF
Flt No: 03-64	Blk In: 1729Z	ATA: 1720Z
ETD: 14:00	Blk Out: 1343Z	ATD: 1351Z
ETE: 3:00	Blk Time: 3:47 (3.8)	Flt Time: 3:29 (3.5) (3.5)
Sponsor Org: AOC	Program: Training/Test Dropsondes	Purpose: Training

AOC Personnel

AC: McCann, R	Sys Eng: Smith, J
CP: Poston, R / Fing, M.	Data Sys: Hinbrook, C
Nav:	Radar:
FE: Kitson, G	GPS/BT:
FD: Mayeaux, M	Cld Phys:
Avionics: Brogan, D	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Tong, K	Training	AOC

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

Balanced Dewpointer Starting 15:44:07 - Back in Normal Mode 15:53:07

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AOCWF2

Flt ID:

N030729

Time Off:

1343

Time On:

1720

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

—

3002

~~1015.9~~
~~30.06 (1015)~~

30.06 (1015)

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

Flight ID: 030729N

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Form 413-50

[illegible]

N49RF AVAPS DropSonde Log

N49RF Project: _____

Flight ID

030729N

Mission: _____

Flight #: _____

System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	37,000						5 TEST	☒
2	43,000						3 TEST	☒
3	45,000						5 TEST	☒
4								
5	031325080	1/5		0	<20	JS/DB	Rev E RH heat 25 45 0 140	☒
6	021925173	2-4,68		-0.5	—	JS	RH heat 25 45 0 140	B
7								
8								
9							NO LAUNCH DETECT	
10								
11	031325079	1/5		0	21	JS/DB	Rev E RH heat	☒
12	022615279	2-4,68		-0.6	<16	JS/DB	Rev B RH heat	☒
13								
14								
15								
16								
17								
18								
19								
20	- RH1 heat on CH5-8 goofy							
21	- mws PI did not reset between drops							
22	- CH3 & CH7 weak return Rcvr							
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

WITH GROUND PWR CHECKED GOOD
 WITH APV PWR DIDNT FIRE
 WITH ENGINE PWR CHECKED GOOD

Drop #	Sonde Serial Number	Chn #	Time (ZULU)	Press. offset	Winds time	Operator Initials	Comments/ Drop Status /Reason for Failure	GOOD ☒
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

07/21/01

AVAPS HINTS

- N43's **RED PHONE** appears to interfere with AVAPS telemetry, don't allow its use while sondes are in the air
- ASDL transmits on 401.8MHz, and will trash AVAPS telemetry +/- 1 MHz from that point
- Rawinsondes transmit at 403.0. Caribbean taxi drivers and bandit radio stations transmit wherever they want.
- The sonde GPS Oscillator needs at least 2 minutes to warm-up and stabilize. If you drop early, the winds data (if any) will be initially not accurate and probably late.
- Below 10,000', open the P3 launch chute cover holes at least 2/3 of the way. From 10,000' to 18,000', open about 1/2 way, above 18,000' open 1/3 of the way.
- Dropping a backup sonde prior to selecting **BEGIN COLLECTING DATA** is the single most frequent operator error.
- 60 seconds is the cut-off time for Good vs. Late winds. If no satellites are locked on by 60 seconds, or no winds data by 80 seconds, drop the backup.
- Frequency block assignments: **Air Force - Block A** **N42RF - Block B** **N43RF - Block C** **N49RF - Block D**
- P3 Drops only.... Shorten the ribbon to about 20" - 25"
- When sonde telemetry fails prematurely, wait until the normal drop time has elapsed to terminate data collection.
- If Pre-launch sonde telemetry is dependent upon hand position while holding the sonde in order to **NOT** generate CRC errors, the sonde transmitter is bad and it should not be dropped.



NOAA GIV Dropsonde Test Flight



Flight ID: N030729

Sensor or system

INE (for wind derivation)
Temperature Probe
Dew Point Probe
Static Pressure
Dynamic Pressure

Number or Name

VEW_PITR, VNS_PITR
AT2
DPRC
PS2C
QC2C

Notes:

There were several time/data gaps: 145101Z-145900Z, 150701Z- 151500Z, 152301Z-152500Z, 153301Z-153800Z.

All other instruments worked optimally during the flight. However, a dewpoint spike occurred between 154407Z and 153307Z when the sensors were being balanced.

	Takeoff	Landing
Aircraft Static Pressure	N/A	1015.9mb
Corrected Tower Pressure	1014.9mb	1016.1mb
Flight Director:	Marty Mayeaux	(813) 828-3310 ext. 3086