



NOAA G-IV N49RF
Hurricane Season 2007
Calibration Flight



Flight ID: N070613

Sensor or system

INE (for wind derivation)
Attack Angle
Slip Angle
Accelerometer
Temperature Probe
Dew Point Probe
Altitude (for vertical wind derivation)
Static Pressure
Dynamic Pressure
True Air Speed
Constants File
Project Directory

Number or Name

VEW_PITR,VNS_PITR
AKRD2
SSRD2
ACINS_PITR
AT3
DPRC
RA
PS2C
QC2C
TAS2
49cal062
706

Local Met Data:

KMCF 1255Z 00000KT 10SM SCT030 BKN120 24/23 A2987
KMCF 1555Z 22008G17KT 7SM BKN030CB BKN100 23/19 A2988

Notes:

There were no time/data gaps during this flight

From 141800Z-142500Z, dewpoint sensors were balanced. Therefore, erroneous spikes will be evident in the data as a result of these calibrations.

From 145400Z-150600Z, the dewpoint values from DPRC exceeded the ambient temperature values from AT3 during a climb from 20,000 – 45,000 feet resulting in relative humidity values greater than 100%.

AKRD1 displayed erroneous data from 140700Z-140900Z, 140930Z-141046Z, and 141108Z-141111Z.

TT2 was not installed during this flight.

DBP1 and DBP2 exhibited a 10 mb difference at low altitudes at the beginning of the flight.

SSRD2 had a 28 degree spike from 141057Z-141105Z.

PS1M had different calibration coefficients listed from what was noted on NIMBUS.

Flight Director: Marty Mayeaux

Name (813) 828-3310 ext. 3086

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

Flt ID: 070613N	From: Kmcf	To: Kmcf
Flt. No: 07 - 058	Blk In: 1624 Z	Time On: 1618 Z
ETD: 2000 Z	Blk Out: 1345 Z	Time Off: 1358 Z
ETE: 3+00	Blk Time: 2+39 (2.7) Hrs	Flt Time: 2+20 (2.3) Hrs
Sponsoring Org: AOC	Program: Calibration/Test	Purpose: Test Sondas/System

AOC Flight Crew

Aircraft Commander: Finn, M	Data System: Rogers
Co-Pilot: Odell, W	AVAPS: Rasco
Navigator: /	System Eng: /
Flight Eng: /	A A: /
Flight Director: Mayeaux, Almeida	A A: /
Avionics: Carpenter	Crew Chief: /

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: NA

Mission ID: NOAA 9 WXXA Train

Penetration number and time

Recco Times Fix # Fix Time

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

Flight ID: 070613N		Time Off: 1358 Z		Time On: 1618 Z	
A/C: Takeoff		Wx Station: Takeoff		A/C: Land	
A/C: Land		Wx Station: Land			
Pressure	1011.2 mb	2987	mb	1011.0	mb
2988	mb				
ATIS	Time	Observation			
Takeoff	1255 Z	00000KT 10S m SCT030 SKN2024/23 A2987			
Land	1555 Z	22008G17KT 7sm BKN030CB SKN100 06/250 23/19 A2988			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes	1				
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes	2	Good: 2 Bad: 0			
AXBT					
AXCP					
AXCTD					

Remarks:

Head out at 45,000 feet. Drop over buoy 42003 at 45,000 ft.
 Splash Sonde and do slow descent. 2 minutes
 830m Brief 1000m Takeoff
 42003 is 26°03'59" 85°56'39"W
 Cloud Tops -40°-50° and warming
 1402Z TT 2 NOT Installed
 1402Z 10 mb difference betw. DBP 1 + 2
 1428Z Calibrate DPLC + DPRC
 -1435Z

Flight ID 070613W

Flight Director.

Alencar / Almeida

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Mission ID NOAA9 WYDFA Train Storm

[illegible]

N49RF AVAPS DropSonde Log

Hurricane 07

Mayeaux

Mission: Cal F/H Flight #: 070613N 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	012025023	1	1503	-.6	1:06	DWC	Late winds	A	☒
2	01145104	2	1515	-7.7	22	DWC	OK	A	☒
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\$ Codes A = AOC N = NHC/NWS H = HRD OW = NESDIS