

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

Flt ID: 060315N	From: PANC	To: PANC
Flt. No: 06 -053	Blk In: 0235 z	Time On: 0231 z
ETD: 2000 z	Blk Out: 1940 z	Time Off: 1954 z
ETE: 6 + 30	Blk Time: 6 + 55 (6.9) Hrs	Flt Time: 6 + 37 (6.6) Hrs
Sponsoring Org: ESRL	Program: Ozone	Purpose: Flight 3

AOC Flight Crew

Aircraft Commander:	Finn	Data System:	Rogers
Co-Pilot:	Odell	AVAPS:	Olney
Navigator:	/	System Eng:	
Flight Eng:	/	A A:	
Flight Director:	Mayeaux	A A:	
Avionics:		Crew Chief:	

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Ray, E	PT	ESRL

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

Storm Name:

Mission ID:

Penetration number and time

co Times, Fix Times)	Recco Times	Fix #	Fix Time
0BP2 Dropped out at 0039Z, 0112Z 0BP2 At 0103Z - 0BP2 bottomed out at 0mb and responded inversely from 0BP1, Maric gave it some voltage at 0112Z and made it worse.	0039Z, 0112Z 0BP2		

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Flight ID: 060315N	Time Off: 1954	Z	Time On: 0231	Z
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1012.0 mb	2986 mb	1011.1 mb	2986 mb
ATIS	Time	Observation		
Lakeoff	1853 Z	13010KT 105m Frw017 24/21 A2992		
Land	0053 Z	15008KT 105m Frw018 sch015 26/22 A2986		
	Number	Data Disposition / Date / Quality		
Flight Level Tapes	1			
Radar Tapes				
Cloud Physics Tapes / CDs				
Video Tapes				
Dropsondes	4	Good: 4	Bad: 0	
AXBT				
AXCP				
AXCTD				

Remarks:

0153Z- 15010KT 105m Sch020 ~~03km~~ 060 25/21 A2986

N49RF AVAPS DropSonde Log

Project: WS 06 Flight ID: 060315 Flt Dir: MARTYMission: OZONE/ICEL Flight #: RF25 Status: Sys 1 Sys 2 Launcher S/N: 002

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD <input checked="" type="checkbox"/>
1	053 626 252	1	00:02	+.6	1	MER		N	✓
2	053 626 306	1	00:25	+.6				N	✓
3	053 636 112	1	00:40	+.6				N	✓
4	053 416 223		01:05	0				N	✓
5									
6									
7									
8									
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33									

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



NOAA G-IV N49RF
Ozone Air Chemistry 2006
RESEARCH FLIGHT 3



Flight ID: N060315

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW_PITR,VNS_PITR
Attack Angle	AKRD2
Slip Angle	SSRD1
Accelerometer	ACINS_PITR
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.

From 011221Z-011225Z, attack angle (AKRD1) had a 9 degree spike and attack differential pressure (AP1) spiked. These spikes are possibly the result of running voltage through the sensors to try to trouble shoot dynamic slip pressure (DBP2).

From 003738Z through the end of the flight, dynamic slip pressure (DBP2) was reporting erroneous data.

From 005000Z through the end of the flight, SSDF2 and SSRD2 began reporting erroneous data.

From approximately 2017Z-2030Z, the relative humidity values were greater than 100%.

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

Winter Storm Reconnaissance Program (WSRP)

Track **4 Drops**

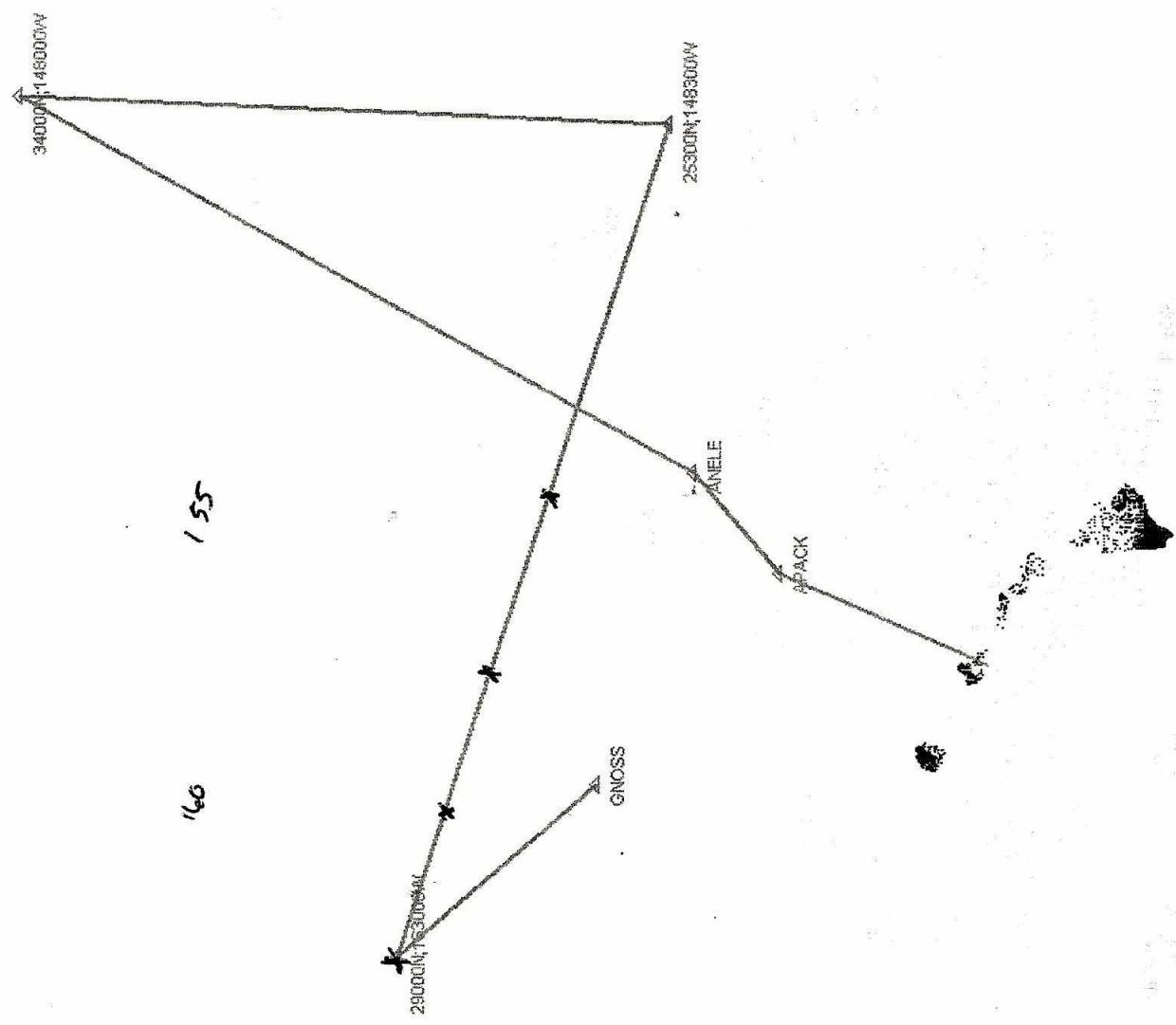
Date: 15 March, 2006
Takeoff Time: 2000Z

MISSION ID: **NOAA9 29WSC TRACK99**

Departure Point: Honolulu

Arrival Point: Honolulu

PHNL 21 19N 157 55W
Turn (No Drop) 34 00N 148 00W
Turn (No Drop) 25 30N 148 30W
Drop 1 ~~27 17N~~ 155 00W
Drop 2 N 157 40W
Drop 3 N 160 20W
Turn - Drop 4 29 00N 163 00W
PHNL 21 19N 157 55W



N49RF AOC GPS Dropwindsonde Log

Flight ID 060315N

Flight Director Mayeaux

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Mission ID NOAA 9 Hurricane Isaac

Drop#	Instrument#	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
2	053626306	002532	2755	15740	1012.2	WS C1	194506	2	0	1946
4	053416223	010536	2452	16250	1010.6	WS C1	203652	4	0	1947

PRIORITY ←FF →	ADDRESSEE(S)		
FILING TIME			
SPECIFIC IDENTIFICATION OF ADDRESSEE(S) AND/OR ORIGINATOR			
3. MESSAGE TYPE ←(FPL	7. AIRCRAFT IDENTIFICATION N O A A 4 9		
9. NUMBER —	TYPE OF AIRCRAFT G L F 4		
8. FLIGHT RULES			
TYPE OF FLIGHT I X			
9. NUMBER			
10. EQUIPMENT SHIRUW /S			
13. DEPARTURE AERODROME P H N L			
TIME 1 8 00			
15. CRUISING SPEED M 0 7 7			
LEVEL F 4 1 0	ROUTE → APACK ANELE 34 00N 148 00W		
30 00N 147 35W 24 00N 147 00W 25 39N 150 00W 28 10N 155 00W 31 00N 161 30W			
GNOSS			
16. DESTINATION AERODROME P H N L			
TOTAL EET HR/MIN 0 7 25	ALTN AERODROME →	2ND ALTN AERODROME →	
18. OTHER INFORMATION EET / HAWAIIAN ADIZ (OUTBOUND) 0040 HAWAIIAN ADIZ (INBOUND) 0623			
REM / AIR CHEMISTRY RESEARCH FLIGHT			
REM/ RVSM, RNP-10 and MNPS certified			
SEL/JQGS REG/N49RF			
F			
NOT FOR TRANSMISSION			
19. ENDURANCE		SUPPLEMENTARY INFORMATION	
FUEL /09+20		EMERGENCY AND SURVIVAL EQUIPMENT	
→ POB /		→ RDO /	
TYPE OF EQUIPMENT		121.5 → 243 → 500 → 8364 LIFE JACKETS	
POLAR → DESERT → MARITIME → JUNGLE → GLOBAL → JACKETS → LIGHT → FLUORESCENT →		RADIO FREQUENCY	
DINGHIES COLOR Yellow NUMBER 2 TOTAL CAPACITY 20		OTHER EQUIPMENT	
DINGHIES → COVER Yellow / → RMK /		AIRCRAFT SERIAL NUMBERS AND TYPE OF AIRCRAFT IN FLIGHT	
Emergency Phone Number (813) 828-4361 (MacDill Command Post) Pilot cell phone (813)368-9727		S/N1246 N49RF GLF4	
CREW LIST ATTACHED X LOCATED AT: NOAA AOC		AIRCRAFT HOME STATION OR ORGANIZATION KMC NOAA AOC	
PASSENGER MANIFEST ATTACHED X LOCATED AT: Air Service Hawaii			
NAME OF PILOT IN COMMAND Finn, Michele		SIGNATURE OF APPROVING AUTHORITY	
DD Form 1801, MAY 87 (COMPUTER GENERATED)			

D INTERNATIONAL FLIGHT PLAN

DO

34 N 148W-T

26-24-05 N

160 W

25 30 N 148 30W-T

27 17.0 155 W
27 54.8 157 40W
28 29.1 160 20W

29 N 143 W T4D

MRY-MCF 2049
4+39

MRY-ICR-MCF 2121
4+49

HNL-MRY 2088 4+49

P HNL-KMCF 4070 9+14

Via
PXR 4083 9+16

ELP 4073 9+15

EFD 4070 9+14