

**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, Longenaker	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
Roy, E	PT	ESRL

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

Recco Times

Fix #    Fix Time

Storm Name:

Mission ID:

Penetration number and time

DBP2 Dropped out at 0039Z  
 At 0103Z - DBP2 bottomed out at 0mb and responded inversely  
 from DBP1, Mark gave it some voltage at 0112Z and made  
 it worse.

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Flight ID: 060315N		Time Off: 1954 Z		Time On: 0231 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			
Takeoff	1853 Z	13010KT 105m fcn017 24/21 A2992			
Land	0053 Z	15008KT 105m fcn018 sc005 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 sc020 03kn 060 25/21 A2986



# N49RF AVAPS DropSonde Log

Project: WIS 06 Flight ID: 060315 Flt Dir: MARTY  
 Mission: OZONE/NEP 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	+1.6	1	MER		N	<input checked="" type="checkbox"/>
2	053 626 306	1	00:25	+1.6				N	<input checked="" type="checkbox"/>
3	053 636 112	1	00:40	+1.6				N	<input checked="" type="checkbox"/>
4	053 416 223		01:05	0				N	<input checked="" type="checkbox"/>
5									
6									
7									
8									
9									
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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

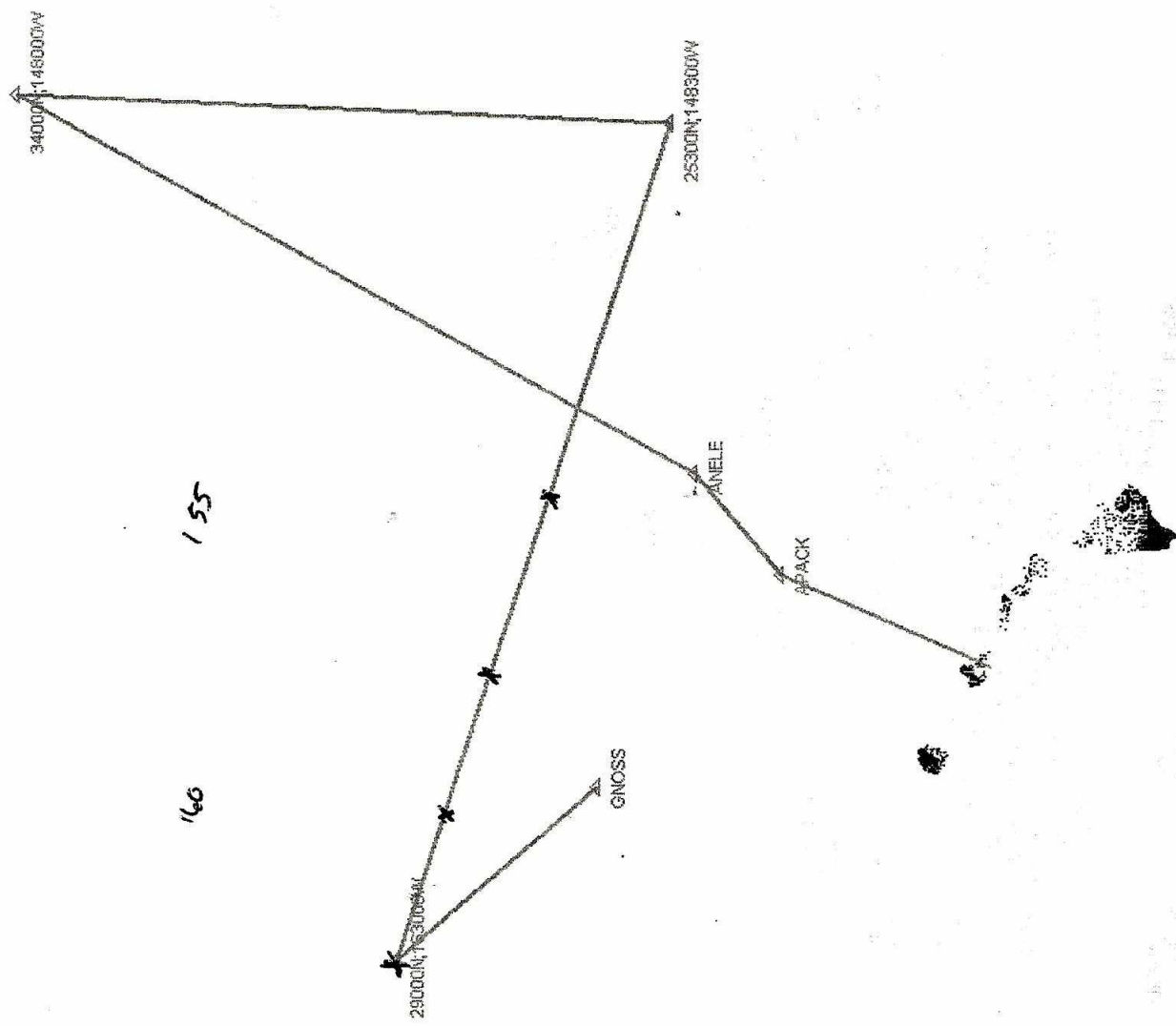
Date: 15 March, 2006  
Takeoff Time: 2000Z

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	<del>27 17N</del>	155 00W
Drop 2	N	157 40W
Drop 3	N	160 20W
Turn - Drop 4	29 00N	163 00W
PHNL	21 19N	157 55W



030

021

021



Flight ID 060315N

Flight Director *Mayeaux*

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Mission ID NOAA 9 WXWXD T(a) Storm

[illegible]



<b>PRIORITY</b> ←EFF→		<b>ADDRESSEE(S)</b>	
<b>FILING TIME</b>		<b>ORIGINATOR</b>	
<b>SPECIFIC IDENTIFICATION OF ADDRESSEE(S) AND/OR ORIGINATOR</b>			
<b>3. MESSAGE TYPE</b> ←(FPL	<b>7. AIRCRAFT IDENTIFICATION</b> N O A A 4 9		<b>8. FLIGHT RULES</b> I
<b>9. NUMBER</b> —	<b>TYPE OF AIRCRAFT</b> G L F 4	<b>WAKE TURBULENCE CAT.</b> /M	<b>TYPE OF FLIGHT</b> X
<b>13. DEPARTURE AERODROME</b> P H N L		<b>10. EQUIPMENT</b> SHIRUW/S	
<b>15. CRUISING SPEED</b> M 0 7 7		<b>LEVEL</b> F 4 1 0	<b>TIME</b> 1 8 00
<b>ROUTE</b> → 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			
<b>GROSS</b>			
<b>16. DESTINATION AERODROME</b> — P H N L	<b>TOTAL EET HR/MIN</b> 0 7 25	<b>ALTN AERODROME</b> →	<b>2ND ALTN AERODROME</b> →
<b>18. OTHER INFORMATION</b>			
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			
r			
<b>NOT FOR TRANSMISSION</b>			
<b>19. SUPPLEMENTARY INFORMATION</b>			
<b>ENDURANCE</b> FUEL /09+20	<b>PERSONS ON BOARD</b> → POB / → RDO /	<b>EMERGENCY AND SURVIVAL EQUIPMENT</b> 121.5 → 243 → 500 → 8364	
<b>TYPE OF EQUIPMENT</b>		<b>LIFE JACKETS</b>	<b>RADIO FREQUENCY</b>
POLAR → DESERT → MARITIME → JUNGLE → GLOBAL → JACKETS → LIGHT → FLUORESCENT →			
<b>DINGHIES</b>	<b>COLOR Yellow</b>	<b>NUMBER 2</b>	<b>TOTAL CAPACITY 20</b>
<b>DINGHIES → COVER Yellow /</b>		<b>OTHER EQUIPMENT</b>	
<b>Emergency Phone Number (813) 828-4361 (MacDill Command Post)</b> Pilot cell phone (813)368-9727		<b>AIRCRAFT SERIAL NUMBERS AND TYPE OF AIRCRAFT IN FLIGHT</b>	
<b>CREW LIST</b>	<b>ATTACHED X</b>	<b>LOCATED AT: NOAA AOC</b>	<b>S/N1246 N49RF</b>
<b>PASSENGER</b>	<b>ATTACHED X</b>	<b>LOCATED AT: Air Service Hawaii</b>	<b>GLF4</b>
<b>MANIFEST</b>		<b>AIRCRAFT HOME STATION OR ORGANIZATION</b>	
<b>NAME OF PILOT IN COMMAND</b> Finn, Michele		<b>SIGNATURE OF APPROVING AUTHORITY</b> RMCF NOAA/AOC	

DD Form 1801, MAY 87 (COMPUTER GENERATED)

D INTERNATIONAL FLIGHT PLAN

DO



34 N 148 W - T

26-24-05 N

160 W

25 30 N 148 30 W T

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

29 N 163 W T Y D

MRY-MCF 2049  
4+39

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MRY-ICT-MCF 2121  
4+49

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HNL-MRY 2088 4+49

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PHNL-KMCF 4070 9+14

Via  
PXR 4083 9+16

ELP 4073 9+15

EFD 4070 9+14