

| U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center |                            |                            |  |
|--------------------------------------------------------------------|----------------------------|----------------------------|--|
| FLT ID: 060131N                                                    | From: PHTNL                | To: PANC                   |  |
| Flt No: 06 -                                                       | In: 0222 Z                 | On: 0217 Z                 |  |
| ETD: 20 Z                                                          | Out: 1947                  | Off: 1958                  |  |
| ETE: 6 + 45                                                        | Blk Time: 6 + 35 (6.6 Hrs) | Flt Time: 6 + 19 (6.3 Hrs) |  |
| Sponsoring Org: NCEP                                               | Program: WS 2006           | Purpose: TRK 99            |  |

|                                  |                               |
|----------------------------------|-------------------------------|
| Aircraft Commander: <b>FINKS</b> | Data System: <b>ROGERS</b>    |
| Co-Pilot: <b>HAN / LOGSWICK</b>  | AVAPS: <b>TONG</b>            |
| Navigator: <b>/</b>              | System Engineer: <b>SMITH</b> |
| Flight Eng: <b>M. RIZEL</b>      | AA:                           |
| Flight Director: <b>FLAHERTY</b> | AA:                           |
| Avionics:                        | Crew Chief:                   |

[illegible]

Storm Name:

| Fix # | Fix Time |
|-------|----------|
|-------|----------|

(See reverse for additional remarks)

## U.S. DEPT OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

FLT ID: 06031N TIME OFF: 1158 Z TIME ON: 0217 Z

A/C - Takeoff

WX Station - Takeoff

A/C - Land

WX Station - Land

Pressure

1070.2

1020.3

9760

ATIS - Takeoff

ATIS - Land

Data Source

Number

Data Disposition / Date / Quality

Flight Level Tapes

Radar Tapes

Cloud Physics Tapes /  
Cds

Video Tapes

Dropsondes

Good:

Bad:

Total:

AXBT

AXCP

AXCTD

SONOBUOY

REMARKS:



# NOAA G-IV WINTER STORMS 2006

*Flight 4 – Track 99*

*PHNL – ~~PHNL~~ PANC*

*Flight ID: 0601<sup>31</sup>~~28~~N*

Sensor or system

*Inertial (for wind derivation)*

*Temperature Probe*

*Dew Point Probe*

*Static and Dynamic Pressure*

*Project Directory / Constants File*

Number or Name

*VEW\_PITR/VNS\_PITR*

*AT3*

*DPLC*

*PS2C/QC2C*

*601 / 49cal051*

---

Notes:

There were no time/data glitches during this flight.

AT2 was not installed for these missions. DPLC was chosen as the primary dewpoint sensor because DPRC was greater than the ambient temperature during ascent and descent. It also read 5-10 degrees warmer than DPLC through most of the flight. Because of the ascent data, the data from DPLC appears to be the more accurate of the 2 sensors.

During ascent and descent, dynamic and differential pressures diverged due to location and air flow around the aircraft. All data, specifically pressure and wind data, should be used carefully during these times.

After 1958Z, DAP1 was no longer operational. Raw dynamic attack pressure right (DAP2) was and should be used for derivations.

All other instruments worked properly.

|                               | Takeoff   | Landing  |
|-------------------------------|-----------|----------|
| Aircraft Static Pressure (mb) | 1020.2 mb | 976.0 mb |
| Station Altimeter             | 1020.3 mb | n/a      |

---

Flight Director:  
Phone #:

Contact Paul Flaherty  
(813) 828-3310 ext. 3094

---

## N49RF AOC Flight Director's GPS Dropwindsonde Log

FLIGHT ID 060131N FLIGHT DIRECTOR FLANERY Page 1 of 1

MISSION ID 03WS1 STORM/Track ID Trk 99 Total # of dropsondes \_\_\_\_\_

[illegible]

# N49RF AVAPS DropSonde Log

Project: Winter Storms 06 Flight ID: 060131N Flt Dir: P. 7.

Mission: WS 06 Flight #: R704 Status: Sys 1 ☒ Sys 2 ☒ Launcher S/N:       

| Drop # | Sonde Serial Number | Chn. # | Time (Zulu) | Press. offset | Winds time | Operator Initials | Comments /Status/ Failure Reason | \$ | GOOD <input checked="" type="checkbox"/> |
|--------|---------------------|--------|-------------|---------------|------------|-------------------|----------------------------------|----|------------------------------------------|
| 1      | 051 926 032         | 1      | 2155        | 0             | 20         | RT                |                                  |    | ✓                                        |
| 2      | 012 225 021         | 2      | 2213        | 0             | 30         |                   |                                  |    | ✓                                        |
| 3      | 012 015 086         | 3      | 2229        | 0             | 20         |                   |                                  |    | ✓                                        |
| 4      | 053 716 423         | 4      | 2246        | 0             | 70         |                   |                                  |    | ✓                                        |
| * 5    | 033 415 270         | 5      | 2301        | 0             | 23         | JS                | R5 / SYS LOCK                    |    | ✓                                        |
| 6      | 044 535 057         | 1      | 2318        | 0             | 28         | RT                | COLD BOOT PROGRAM                |    | ✓                                        |
| 7      | 054 556 218         | 2      | 2334        | 0             | —          |                   |                                  |    | ✓                                        |
| 8      | 053 166 315         | 3      | 2352        | 0             | —          |                   |                                  |    | ✓                                        |
| 9      | 054 626 307         | 4/5    | 0012        | 0             | —          |                   | * see below                      |    | ✓                                        |
| 10     | 054 556 510         | 1/6    | 0029        | 0             | —          | JS                | R5 / SYS LOCK                    |    | ✓                                        |
| 11     | 053 716 336         | 1      | 0050        | +1.5          | 32         | RT                |                                  |    | ✓                                        |
| 12     | 012 015 090         | 2      | 0108        | 0             | 08         |                   | Backup values Locked             |    | ✓                                        |
| 13     | 051 926 023         | 1      | 0128        | 0             | 28         |                   | Cold Boot Everything             |    | ✓                                        |
| 14     | 053 716 144         | 2      | 0143        | +1.5          | —          |                   |                                  |    | ✓                                        |
| 15     |                     |        |             |               |            |                   |                                  |    |                                          |
| 16     |                     |        |             |               |            |                   |                                  |    |                                          |
| 17     |                     |        |             |               |            |                   |                                  |    |                                          |
| 18     |                     |        |             |               |            |                   |                                  |    |                                          |
| 19     |                     |        |             |               |            |                   |                                  |    |                                          |
| 20     |                     |        |             |               |            |                   |                                  |    |                                          |
| 21     |                     |        |             |               |            |                   | Sys #01                          |    |                                          |
| 22     |                     |        |             |               |            |                   | chan 109                         |    |                                          |
| 23     |                     |        |             |               |            |                   |                                  |    |                                          |
| 24     |                     |        |             |               |            |                   |                                  |    |                                          |
| 25     |                     |        |             |               |            |                   |                                  |    |                                          |
| 26     |                     |        |             |               |            |                   |                                  |    |                                          |
| 27     |                     |        |             |               |            |                   |                                  |    |                                          |
| 28     |                     |        |             |               |            |                   |                                  |    |                                          |
| 29     |                     |        |             |               |            |                   |                                  |    |                                          |
| 30     |                     |        |             |               |            |                   |                                  |    |                                          |
| 31     |                     |        |             |               |            |                   |                                  |    |                                          |
| 32     |                     |        |             |               |            |                   |                                  |    |                                          |
| 33     |                     |        |             |               |            |                   |                                  |    |                                          |

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

\* chan 5 display/data acq failed @ 350mb - ch #6 continued normally  
chan 6 MWG has failed

# Winter Storm Reconnaissance Program (WSRP)

Track PHNL-PANC Transit

16 Drops

Date: 2006-01 31  
Takeoff Time: 2000Z  
Approximate Flight Time 6 Hr 30 Min

MISSION ID: NOAA9 3WSC TRACKP99

Departure Point: Honolulu

Arrival Point: Anchorage

|            |         |        |                    |         |     |                        |
|------------|---------|--------|--------------------|---------|-----|------------------------|
| PHNL       |         | 21 20N | 157 56W            |         |     | 150 57                 |
| ZIGIE      |         | 24 19N | 157 17W            |         |     | 149 26                 |
| 99T01      | Drop 1  | 34 00N | <del>151 12W</del> |         |     | 147 49                 |
| 99D02      | Drop 2  | 36 00N | <del>149 11W</del> | (1-2)   | 142 |                        |
| 99D03      | Drop 3  | 38 00N | 147 10W            | (2-3)   | 143 | 146 06                 |
| 99T04      | Drop 4  | 40 00N | 145 08W            | (3-4)   | 145 | 144 15                 |
| 99D05      | Drop 5  | 42 00N | 143 06W            | (4-5)   | 146 | 142 15                 |
| 99D06      | Drop 6  | 44 00N | 141 05W            | (5-6)   | 149 | 140 04                 |
| 99T07      | Drop 7  | 46 00N | 139 03W            | (6-7)   | 152 | 137 40                 |
| 99T08      | Drop 8  | 48 00N | 137 02W            | (7-8)   | 155 |                        |
| 99T09 - CP | Drop 9  | 50 00N | 135 00W            | (8-9)   | 159 |                        |
| 99T10      | Drop 10 | 52 00N | 137 34W            | (9-10)  | 143 |                        |
| 99D11      | Drop 11 | 54 00N | 140 07W            | (10-11) | 145 |                        |
| 99D12      | Drop 12 | 56 00N | 142 41W            | (11-12) | 148 |                        |
| 99T13      | Drop 13 | 58 00N | 145 14W            | (12-13) | 151 |                        |
| 99T14      | Drop 14 | 60 00N | 147 48W            | (13-14) | 155 | Drop early due to land |
| PANC       |         | 61 17N | 150 00W            |         |     |                        |