

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

AOCWF1

|                              |                             |                             |
|------------------------------|-----------------------------|-----------------------------|
| Flt ID: <b>N050119</b>       | From: <b>PHNL</b>           | To: <b>PHNL</b>             |
| Flt No: <b>05-41</b>         | Blk In: <b>0353Z</b>        | ATA: <b>0342Z</b>           |
| ETD: <b>2000Z</b>            | Blk Out: <b>1942Z</b>       | ATD: <b>1956Z</b>           |
| ETE:                         | Blk Time: <b>8:11 (8.2)</b> | Flt Time: <b>7:46 (7.8)</b> |
| Sponsor Org: <b>NCEP/NWS</b> | Program: <b>WS 2005</b>     | Purpose: <b>TRACK 37</b>    |

## AOC Personnel

|                           |                                     |
|---------------------------|-------------------------------------|
| AC: <b>POSTON</b>         | Sys Eng:                            |
| CP: <b>MCCANN / ODELL</b> | Data Sys: <b>HORN BROOK</b> ✓       |
| Nav:                      | Radar:                              |
| FE:                       | GPS/BT: <b>BROGAN</b>               |
| FD: <b>DAMIANO</b> ✓      | <del>Old Phys:</del> <b>OLNEY</b> ✓ |
| Avionics:                 | <b>PM PARRISH</b> ✓                 |

## Participating Scientists / Visitors / AOC

| Name (Last, First) | Activity on Aircraft | Affiliation |
|--------------------|----------------------|-------------|
|                    |                      |             |
|                    |                      |             |
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|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |

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

TT1 1°C cooler than TT3+TT4  
CRYOC Depointer not working for entire flt

1882 22  
19  
29.97

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AOCWF2

Flt ID: **N050119** Time Off: **1956Z** Time On: **0342Z**

|          | AVC (Take Off) | Wx Station (Take Off) | AVC (Land)    | Wx Station (Land)     |
|----------|----------------|-----------------------|---------------|-----------------------|
| Pressure | <b>1013.6</b>  | <b>29.98 / 1014.8</b> | <b>1011.4</b> | <b>29.91 / 1012.4</b> |

|                     | Number    | Data Disposition / Date / Quality            |
|---------------------|-----------|----------------------------------------------|
| Flt Lvl Tapes       | <b>1</b>  |                                              |
| Radar Tapes         |           |                                              |
| Cloud Physics Tapes |           |                                              |
| Video Tapes         |           |                                              |
| AXBT                |           |                                              |
| AXCP                |           |                                              |
| AXCTD               |           |                                              |
| Dropsondes          | <b>17</b> | <b>16 good; 1 no winds; 16 messages sent</b> |

Video

|          | Forward | Left Side | Right Side | Down | Remarks |
|----------|---------|-----------|------------|------|---------|
| Time On  |         |           |            |      |         |
| Time Off |         |           |            |      |         |
| Rate     |         |           |            |      |         |

Remarks **1947 pass ASOS**

**2056-2114**  
**PS1m, PS2m**  
**QC1m, QC2m**





# NOAA G-IV ERROR SUMMARY

## WINTER STORMS 2005

### MISSION #1



**Flight ID: N050119**

| <u>Sensor or system</u>   | <u>Number or Name</u> |
|---------------------------|-----------------------|
| INE (for wind derivation) | VEW, VNS              |
| Accelerometer             | ACINS                 |
| Temperature Probe         | AT1                   |
| Dew Point Probe           | DPRC                  |
| Static Pressure           | PS1C                  |
| Dynamic Pressure          | QC1C                  |
| Attack Angle              | AKRD2                 |
| Slip Angle                | SSRD1                 |
| Vert. Wind                | PALT                  |
| Constants File            | 49cal041              |
| Project Directory         | /proj/501             |

Local surface observation not current or unavailable.

Notes:

There were no data gaps.

Prior to takeoff the calibration lab coefficients for PS2M and QC2M were updated.

The Aeronomy Lab's Ozone operated optimally for the entire mission.

At 2118Z a check of TT1 and TT3 outputs was done by ramping up their respective voltages.

TT1 was 1 degree C cooler than TT3 and TT4 at altitude.

All other instruments worked optimally during the flight.

**Takeoff**

**Landing**

Aircraft Static Pressure

1013.6mb

1011.4mb

Corrected Tower Pressure

1014.8mb

1012.4mb

Flight Director:

A. Barry Damiano

(813) 828-3310 ext. 3073



21640

## N49RF AOC GPS Dropwindsonde Log

Flight ID N650119Flight Director DANZANOPage 1 of 1Mission ID ~~N650119~~ 01WSC Storm TRAC 37

| Drop # | Ground #<br>(SWD ID) | Time<br>(UTC) | Lat<br>(°N) | Lon<br>(°W) | Sfc<br>Prs mb | WX<br>Cond. | Comments       | OB # | SatComm<br>Failures | Sent<br>Time |
|--------|----------------------|---------------|-------------|-------------|---------------|-------------|----------------|------|---------------------|--------------|
| 1      | 001915209            | 210321        | 25.45       | 157.15      | 1013.7        | CB/CLR      | WS 30 / 164450 | 1    | 1                   | 2132         |
| 2      | 001915204            | 212321        | 27.00       | 148.45      | 1014.0        | CB/CLR      | WS 10 / 164414 | 2    | 1                   | 2148         |
| 3      | 001915207            | 214330        | 28.15       | 146.15      | 1013.9        | CB/CLR      | WS 20 / 170851 | 3    | 1                   | 2209         |
| 4      | 042115106            | 220401        | 29.30       | 143.30      | 1013.4        | CB/CLR      | WS 16 / 173352 | 4    | 111                 | 2233         |
| 5      | 001915218            | 222325        | 31.00       | 141.00      | 1013.9        | CB/CLR      | WS 25 / 174438 | 5    | 1                   | 2254         |
| 6      | 042115027            | 224215        | 33.00       | 139.15      | 1013.9        | CB/CLR      | WS 18 / 181031 | 6    | 1                   | 2310         |
| 7      | 041815013            | 230130        | 35.16       | 138.01      | 1013.6        | CB/CLR      | WS 16 / 183448 | 7    | 1                   | 2334         |
| 8      | 032815002            | 230500        | 35.20       | 138.01      | 1013.6        | CB/CLR      | WS 16 / 183448 | 7    | 1                   | 2354         |
| 9      | 032815007            | 232210        | 37.45       | 138.80      | 1006.7        | CB/CLR      | WS 17 / 190238 | 9    | 1                   | 0002         |
| 10     | 033048006            | 234147        | 39.44       | 140.02      | 1007.3        | CB/CLR      | WS 13 / 194909 | 11   | 1                   | 0048         |
| 11     | 031215054            | 000958        | 40.15       | 139.15      | 1006.1        | CB/CLR      | WS 19 / 201202 | 12   | 1                   | 0117         |
| 12     | 042115030            | 002810        | 40.13       | 146.31      | 1002.4        | CB/CLR      | WS 21 / 210126 | 14   | 1                   | 0200         |
| 13     | 042115004            | 005127        | 38.30       | 149.00      | 999.4         | CB/CLR      | WS 24 / 203334 | 13   | 1                   | 0133         |
| 14     | 033048029            | 011242        | 36.30       | 150.45      | 998.8         | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0218         |
| 15     | 041345191            | 015800        | 31.45       | 153.15      | 1003.0        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 16     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 17     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 18     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 19     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 20     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 21     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 22     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 23     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 24     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 25     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 26     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 27     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 28     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 29     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |
| 30     | 042115018            | 022016        | 29.15       | 154.15      | 1005.7        | CB/CLR      | WS 13 / 211913 | 15   | 1                   | 0249         |

64  
240  
640

18

REcompute

Ended 931mt  
end01442  
204425113 RTS 030K  
115 RTS 0  
140 RTS 032K  
147 RTS 036K