

# N49RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

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 Flight ID 030913N Flight Director Jack Parrish Takeoff from MacDill at 1730 UTC  
 Mission ID 0513A - Isabel AVAPS Operators Dale Carpenter Recovery at St. Croix at 0133 UTC

| Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | Wind closest to surface dir/spd hgt (kt) (m) | DLM wind (kt) | Comments                                                                       | SATCOM tries | Ob # |
|--------|------------|------------|----------|----------|-----------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|--------------|------|
| 1      | 011245436  | 181430     | 30.004   | 77.944   | 1016.5                | 115/03 8                                     | 16            | 20% low Cu ~15% RH at 700mb (condensation) (air)                               |              | 1    |
| 2      | 0121925149 | 183122     | 31.172   | 75.967   | 1017.6                | 135/4 5                                      | 14            | 10% low Cu dry at 700mb + superadiab: 973-1017.6                               |              | 2    |
| 3      | 022625135  | 184856     | 29.679   | 74.246   | 1017.5                | 120/13 4                                     | 13            | 20% low to mid Cu very dry ~450mb                                              |              | 3    |
| 4      | 024125103  | 190729     | 28.113   | 72.496   | 1016.5                | 60/12 7                                      | 3             | 5% low Cu moist up to 500mb                                                    |              | 4    |
| 4a     | 023555079  | 191642     | 27.335   | 71.618   | 1016.1                | 65/15 8                                      | 4             | 5% low Cu dry slot at ~650mb                                                   |              | 5    |
| 5      | 024125104  | 192604     | 26.543   | 70.742   | 1015.3                | 45/14 7                                      | 6             | 10% low Cu RH jumpy 800-500mb (as low as 30%)                                  |              | 6    |
| 5a     | 023555051  | 193525     | 25.777   | 69.868   | 1014.8                | 45/18 4                                      | 8             | 10% low Cu ~20% RH at 600mb (dry 500-850)                                      |              | 7    |
| 6      | 024125072  | 194508     | 25.041   | 68.921   | 1013.5                | 45/18 4                                      | 9             | 20% low Cu 300-850mb (10-30% RH)                                               |              | 8    |
| 6a     | 023555078  | 195429     | 25.386   | 67.670   | 1012.9                | 50/21 8                                      | 14            | 10% low Cu / thin cirrus below 500-900mb → 20-30%                              |              | 9    |
| 7      | 023535419  | 200413     | 25.755   | 66.356   | 1011.9                | 35/24 7                                      | 18            | 10% low Cu                                                                     |              | 10   |
| 8      | 023535401  | 202708     | 26.959   | 63.498   | 1013.2                | 55/21 9                                      | 23            | clear 20% RH at 700                                                            |              | 11   |
| 9      | 024125108  | 204740     | 28.728   | 61.469   | 1016.5                | 70/17 4                                      | 14            | Clear ~10% RH above 800mb<br>Poss press bias: -2.1 mb                          |              | 12   |
| 10     | 023535230  | 211614     | 28.676   | 57.495   | 1017.9                | 80/8 4                                       | 9             | 10% low Cu ~10% RH 700-900mb                                                   |              | 13   |
| 11     | 024125107  | 213419     | 26.533   | 56.604   | 1015.9                | 110/6 8                                      | 7             | 20% low Cu                                                                     |              | 14   |
| 12     | 024125069  | 214922     | 26.116   | 58.555   | 1015.9                | 115/17 5                                     | 15            | 50% low Cu 20-30% RH 900-600mb                                                 |              | 15   |
| 13     | 023555072  | 220519     | 25.684   | 60.551   | N/A                   | N/A 9                                        | 30            | dark Poss press bias -2.1 mb did not reach SFC<br>very dry - looks good though |              | 16   |
| 14     | 023555075  | 222714     | 23.260   | 59.536   | 1011.6                | 130/31 5                                     | 29            | dark                                                                           |              | 17   |

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|           |         |                 |              |              |         |    |      |     |
|-----------|---------|-----------------|--------------|--------------|---------|----|------|-----|
| Flight ID | 030913n | Flight Director | Jack Parrish | Takeoff from | MacDill | at | 1730 | UTC |
|-----------|---------|-----------------|--------------|--------------|---------|----|------|-----|

| Mission ID | AVAPS Operators | Recovery at    | at        | UTC  |
|------------|-----------------|----------------|-----------|------|
| 0513A      | Isabel          | Dale Carpenter | St. Croix | 0133 |

[illegible]