

990915N1-Drops

note: Drops #1 & 2 locations adjusted due to Air Traffic Control

HRD GPS Dropwindsonde Scientist Log (Revised 6/1999)

Storm GERT Flight Director Parrish Page 1 of 2
 Flight ID 990915N Dropwindsonde Scientists Goldenberg, Kaplan Takeoff 1729 UTC
 Mission ID 0109A GERT AVAPS Operators Al Goldstein, Jeff Smith, Chris Hornbrook Landing 0145 UTC

| Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | 10m wind (kn) | MBL wind (kn) | BT SST (°C) | Location Comment | Comments | Ob # |
|--------|------------|------------|----------|----------|-----------------------|---------------|---------------|-------------|------------------|--------------------------------------|------|
| 01 | 990415314 | 175955 | 20.8 | 64.3 | 1012.9 | 08013 | 08004 | | | In cloud | ✓ 01 |
| 02 | 990845189 | 181908 | 21.73 | 62.00 | 1013.8 | 08011 | 08514 | | | clear (hazy) | ✓ 02 |
| 03 | 990415218 | 184136 | 23.17 | 59.33 | 1014.8 | 05517 | 06018 | | | 5% | ✓ 03 |
| 04 | 992455332 | 190008 | 24.96 | 57.50 | 1016.2 | — | 07017 | | | 5% suspicious at end | ✓ 04 |
| 05 | 990415220 | 191712 | 25.00 | 55.16 | 1016.2 | 07021 | 07023 | | | 5% winds not at start | ✓ 05 |
| 06 | 990415217 | 193411 | 25.00 | 52.82 | 1016.5 | 07049 | 07522 | | | 5% | ✓ 06 |
| 07 | 990415287 | 195040 | 24.88 | 50.61 | 1015.9 | 08522 | 08526 | | | 30% low Cu (used 25500 and 1.4 cent) | ✓ 07 |
| 08 | 992455314 | 201902 | 22.05 | 52.51 | 1012.0 | 06024 | 06028 | | W of S | in CDO - 100% RH adj. | ✓ 08 |
| 09 | 983840539 | 203221 | 22.00 | 54.24 | 1012.5 | 05524 | 06029 | | | 30% | ✓ 09 |
| 10 | 983720859 | 204613 | 21.97 | 55.99 | 1013.2 | 04524 | 05527 | | | 20% | ✓ 10 |
| 11 | 983840534 | 210356 | 20.50 | 57.50 | 1012.5 | 05019 | 05523 | | | 10% | ✓ 11 |
| 12 | 983620562 | 212127 | 19.00 | 58.95 | 1012.1 | 03518 | 04021 | | | 10% one side / 80% to left (RT) | ✓ 12 |
| 13 | 990415067 | 213941 | 17.06 | 58.40 | 1010.6 | 03519 | 04020 | | | 10% no winds at top | ✓ 13 |
| 14 | 990415305 | 215400 | 17.51 | 56.75 | 1009.8 | | 02018 | | | 10% | ✓ 14 |
| 15 | 990415288 | 220858 | 17.96 | 54.97 | 1008.9 | | 01025 | | W of S | 5% * MAY have went w/b the | ✓ 15 |
| 16 | 984325371 | 222851 | 16.6 | 53.0 | 1004.7 | | 31535 | | CPA SW of S | | ✓ 16 |
| 17 | 983840541 | 224703 | 15.6 | 51.0 | 1003.5 | 25028 | 25036 | | | RH2 used * | ✓ 17 |
| 18 | 983620639 | 230320 | 16.74 | 49.39 | 1001.3 | 17042 | 18050 | | CPA SE of S | 100mi ESE RH2 used | ✓ 18 |

5/26

5/26

* Make this spec & sign

40

1711 is splash
 * Jeff said had no RH2 sensor - RH2 did this one showup - but look at this one carefully

+49% adj 60480

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Storm GERT

Flight Director Parrish

Page 2 of 2

Flight ID 990915N

Dropwindsonde Scientists Goldenberg, Kaplan

Takeoff 1729 UTC

Mission ID 0109A GERT

AVAPS Operators A. Goldstein, J. Smith, C. Hornbrook

Landing 0145 UTC

| Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | 10m wind (kn) | MBL wind (kn) | BT SST (°C) | Location Comment | Comments | Ob # |
|--------|------------|------------|----------|----------|-----------------------|---------------|---------------|-------------|------------------|---|------|
| 19 | 990415313 | 231755 | 17.78 | 47.93 | 1007.5 | 12533 | 13044 | | EFS | RH 2 note RH Axi | ✓ 19 |
| 20 | 983620739 | 232824 | 16.75 | 47.25 | 1009.5 | | | | | Winds normally 0-240+ No BL winds RH Axi | ✓ 20 |
| 21 | 983440022 | 233946 | 15.51 | 46.57 | 1011.4 | 16517 | 16526 | | | RH Axi | ✓ 21 |
| 22 | 983840524 | 235429 | 14.33 | 47.89 | X | X | X | | | NO winds | X |
| 22A | 983440009 | 235549 | 14.19 | 47.98 | 1010.6 | 19019 | 18023 | | | 5 sec discarded (1.5) threshold used! | ✓ 22 |
| 23 | 990415289 | 000827 | 13.03 | 49.02 | 1010.2 | 21019 | 20024 | | | | ✓ 23 |
| 24 | 983440047 | 002918 | 13.02 | 51.61 | 1009.6 | 23017 | 23518 | | | discarded 565-600 missing layer of winds | ✓ 24 |
| 25 | 983440027 | 004945 | 13.03 | 54.25 | 1010.5 | 29508 | 30008 | | | | ✓ 25 |
| 26 | 983620723 | 010947 | 13.05 | 56.86 | 1010.7 | 03069 | 03009 | | LAST Report | good winds | ✓ 26 |
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lots of wind problems

Good winds again
Bad W

25 min
9:40

→
 note to James
 Jeff says
 BUA in HAPS code *

 ← * (.8 (time) swapped to (.7)
 by AVAPS (Jeff's.)
 & retransmitted *

SPK