

# N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm TD07 Dropwindsonde Scientist's Krystal Valde Page 1 of 2  
 Flight ID 050724I1 Flight Director Martin Hageaux Takeoff from MACDILL AFB at 002427 UTC  
 Mission ID WX07A cyclone AVAPS Operators onley / san souer Recovery at MACDILL AFB at 092600 UTC

| Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | Wind closest to surface dir/spd hgt (m) | BT SST (°C) | Eye, Eyewall, Rainband (direction) | Comments                                                                                         | Ob # |
|--------|------------|------------|----------|----------|-----------------------|-----------------------------------------|-------------|------------------------------------|--------------------------------------------------------------------------------------------------|------|
| 1      | 002615497  | 025832     | 21°58.6  | 93°23.1  | 1013.2                | — —                                     |             |                                    | no sfc winds; RH heating cycles                                                                  | 23   |
| 2      | 002638025  | 030820     | 21°29.7  | 94°2.2   | 1012.7                | 102°/13.7 5                             |             |                                    | RH heating cycles; dry humidity bias applied                                                     | 24   |
| 3      | 002615562  | 031859     | 20°58.2  | 94°43.5  | 1011.4                | 101°/5.8 8                              |             |                                    | DLD 5 s; RH heating cycles                                                                       | 25   |
| 4      | 002525228  | 032350     | 20°44.0  | 95°01.2  | 1011.6                | — —                                     | 28          |                                    | no winds                                                                                         | 28   |
| 5      | 002525225  | 033147     | 20°21.0  | 95°30.2  | 1011.5                | 4°/5.0 8                                |             |                                    | RH heating cycles; 13kt winds based on SFMR                                                      | 31   |
| 6      | 002615542  | 033647     | 20°6.5   | 95°48.7  | 1011.9                | — —                                     |             |                                    | late winds (92s); no sfc winds; DLD 14 s                                                         | 33   |
| 7      | 002638024  | 035347     | 18°59.0  | 94°37.3  | 1011.2                | 314°/11.1 7                             |             |                                    | RH heating cycles; saturated below 800 mb                                                        | 37   |
| 8      | 002525258  | 041106     | 18°31.6  | 93°59.6  | — —                   | — —                                     |             |                                    | altitude incorrect - 999.99 ← telemetry problems; did not process/transmit no winds below 920 mb |      |
| 9      | 002525266  | 043047     | 20°0.9   | 93°59.6  | 1011.4                | 113°/15.1 5                             |             |                                    |                                                                                                  | 41   |
| 10     | 002615582  | 044454     | 21°02.8  | 94°13.3  | 1011.9                | 118°/7.8 8                              |             |                                    | 18-22 kts winds - SFMR; RH heating rainband (36-40 dBZ); cycles                                  | 44   |
| 11     | 002615571  | 045458     | 21°47.4  | 94°26.8  | 1012.5                | 100°/11.7 7                             |             |                                    | winds came in @ 57s → delay due to plane                                                         | 46   |
| 12     | 002525259  | 050939     | 21°16.0  | 95°18.8  | 1012.5                | 86°/3.6 5                               |             |                                    | DLD 6.5 s                                                                                        | 57   |
| 13     | 002615577  | 052347     | 20°47.6  | 94°47.5  | 1011.4                | 329°/3 5                                |             |                                    |                                                                                                  | 52   |
| 14     | 002615563  | 053540     | 20°52.2  | 95°30.3  | 1012.0                | 67°/2.4 7                               |             |                                    |                                                                                                  | 53   |
| 15     | 001115212  | 054740     | 21°14.9  | 95°37.6  | 1011.9                | 69°/0.2 7                               |             |                                    | late winds (120s); kept winds doubtful; late launch detect                                       | 54   |
| 16     | 032418002  | 055811     | 21°35.6  | 95°22.2  | 1012.1                | 102°/1.7 7                              |             |                                    | loss                                                                                             | 57   |
| 17     | 002638091  | 060903     | 21°05.7  | 95°01.3  | 1011.4                | 38°/4.5 7                               | 29          |                                    |                                                                                                  | 60   |

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