

## Dropsonde Scientist

Flight ID 20180708HI Storm TCHARIS Dropsonde Scientist ANNANE

The lead project scientist (LPS) on the P3 is responsible for determining the distribution patterns for dropwindsonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns often are required to be altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. On the G-IV the sole HRD person is designated the LPS. The following list contains more general supplementary procedures to be followed. (Check off or initial.)

### Preflight

1. Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.
2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.
4. Complete the appropriate preflight set-up and checklists. RD94

### In-Flight

1. Operate the system as specified in the operator's manual.
2. Ensure the AOC flight director is aware of upcoming drops.
3. Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal. Recommend if a backup dropsonde should be launched in case of failure.
4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

### Post flight

1. Complete Dropwindsonde Scientist Log.
2. Brief the LPS on equipment status and turn in completed forms, dropwindsonde data tapes, DVDs, or CDs.  
[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
4. Debrief at the base of operations.
5. Determine the status of future missions and notify MGOC as to where you can be contacted.

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

Storm CHRIS Dropwindsonde Scientists ANNANE Page 1 of 1  
 Flight ID 20180708H1 Flight Director MIKE HOLMES Takeoff from LAKELAND at 9:31 UTC  
 Mission ID 2003ACHRIS AVAPS Operators HART BERGER Recovery at \_\_\_\_\_ at \_\_\_\_\_ UTC

55 41, 9321

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| Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | Wind closest to surface dir/spd (kt) | hgt (m) | BT SST (°C) | Eye, Eyewall, Rainband (direction) | Comments                  | Ob # |
|--------|------------|------------|----------|----------|-----------------------|--------------------------------------|---------|-------------|------------------------------------|---------------------------|------|
| 1      | 164015159  | 10:12      | 33.10    | 77.59    |                       |                                      |         |             |                                    | Bad RA JIP                |      |
| 2      | 163845059  | 10:44      | 33.28    | 75.10    |                       |                                      |         |             |                                    | center drop (Bad RA)      |      |
| 3      | 162715209  | 11:11      | 33.29    | 73.33    |                       |                                      |         |             |                                    | End of E-W leg            |      |
| 4      | 162715185  | 11:59      | 34.58    | 75.10    |                       |                                      |         |             |                                    | start of N-S leg          |      |
| 5      | 162655180  | 12:57      | 31.63    | 75.14    |                       |                                      |         |             |                                    | End of N-S leg            |      |
| 6      | 163845176  | 13:39      | 31.66    | 74.42    |                       |                                      |         |             |                                    |                           | 11   |
| 7      | 162735016  | 13:49      | 32.21    | 73.39    | 1020.3                | 16/140                               | 10      |             | N/A                                | ice issue                 | 12   |
| 8      | 162715066  | 14:38      | 33.99    | 74.07    | 1017.9                | 11/114                               | 10      |             | N/A                                |                           | 13   |
| 9      | 163845037  | 14:45      | 34.04    | 75.08    | 1016.1                | 10/112                               | 10      |             | N/A                                | we had to go to ice issue | 14   |
| 10     | 162715001  | 14:56      | 33.66    | 76.10    | 1017.6                | 402/148                              | 10      |             | N/A                                | Altitude 6488 back up     | 15   |
| 11     | 162735019  | 15:06      | 32.94    | 76.47    | 1017.3                | 34/110                               | 10      |             | N/A                                | West side / cirrus        | 16   |
| 12     | 160215122  | 15:16      | 32.01    | 76.09    | 1016.7                | 302.4/141                            | 10      |             | N/A                                | S W " / cirrus            | 17   |
| 13     | 163025071  | 15:25      | 31.73    | 75.32    | 1015.9                | 247.4/139                            | 10      |             | N/A                                | SSW                       | 18   |
|        |            |            |          |          |                       |                                      |         |             |                                    |                           |      |
|        |            |            |          |          |                       |                                      |         |             |                                    |                           |      |
|        |            |            |          |          |                       |                                      |         |             |                                    |                           |      |
|        |            |            |          |          |                       |                                      |         |             |                                    |                           |      |

Holmes processed them  
Aspen working almost station

Aspen in the works  
Pick up w/ 7  
and dust catching up.