

## Dropsonde Scientist

Flight ID 20170904H1

Mission ID \_\_\_\_\_

Dropsonde Scientists Sellwood \_\_\_\_\_

AVAPS Operators \_\_\_\_\_

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 are often 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.

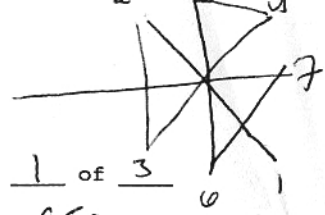
### In-Flight

- \_\_\_\_\_ 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. Download all raw and processed AVAPS files to thumbdrive
- \_\_\_\_\_ 2. Brief the LPS on equipment status and turn in completed forms and thumbdrive.
- \_\_\_\_\_ 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 IRMA Dropwindsonde Scientists Sellwood Page 1 of 3  
 Flight ID 0211A IRMA Flight Director Holmes Takeoff from BGT at 050 UTC  
 Mission ID 20170904H1 AVAPS Operators Richards Recovery at \_\_\_\_\_ at \_\_\_\_\_ 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      | <del>0800M-1</del> | 840        | 1569            | 5035     | 1005.6                | 190/16 20                               | X           | X                                  | IP (SE → NW) | 02   |
| 2      | 090150.2           | 901        | 1669            | 5197     | 968                   | 162/35 10                               | X           | EWSE                               | EWSE Combo   | 03   |
| 3      | 090407.3           | 904        | 1677            | 5210     | 951                   | 152/4 10                                | X           |                                    | Center       | 04   |
| 4      | 090651.4           | 907        | 1693            | 5225     | 965                   | <del>144/14</del> 10                    | X           |                                    | EW NW Combo  | 05   |
| 5      | 092858.1           | 928        | 1802            | 5339     | 1005                  | 36/17 10                                | X           |                                    | END PASS 1   | 06   |
| 6      | 100225.1           | 1002       | <del>1559</del> | 5352     | 1006                  | 30/14 10                                | X           |                                    | Start Pass 2 | 9    |
| 7      | 102507.2           | 1025       | 967             | 5244     | 1668                  | 25/4 10                                 | 27          | EW SW                              | Combo        | 10   |
| 8      | 102703.3           | 1027       | 948             | 5236     | 1678                  | 81/5 10                                 | X           |                                    | Center       | 11   |
| 9      | —                  | 1029       | —               | —        | —                     | —                                       | X           | ENNE                               | Combo        | X    |
| 10     | 105334.1           | 1053       | 1803            | 5110     | 1008                  | 96/20 10                                |             |                                    | End Pass 2   | 14   |
| 11     | 111457.2           | 1114       | 1863            | 5260     | 997                   | 71/10 10                                | X           |                                    | Start Leg 3  | 15   |
| 12     | 114226.3           | 1142       | 1677            | 5260     | 947                   | 109/18 10                               | X           |                                    | Center       | 16   |
| 13     | 120841.4           | 1208       | 1502            | 5257     | 1057                  | 85/15 10                                | X           |                                    | End Pass 3   | 19   |
| 14     | 131331.2           | 1312       | 1677            | 5297     | 946                   | 84/10 10                                | X           |                                    | Center       | 21   |
| 15     | 133904.3           | 1339       | 1677            | 5483     | 1007                  | 316/15 10                               | X           |                                    | End Pass 4   | 24   |

*[Handwritten initials]*  
 Best BT  
 Fast Fall  
 Best BT  
 NLO FT