

Dropsonde Scientist

Flight ID 20191018 I 1 Storm ALIC/NESTOR Mission ID 0516 A

Dropsonde Scientists ZAWISLAK

AVAPS Operators PATEL / WARMICKE

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 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
- 3. 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 Field Program Director as to where you can be contacted.

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm AUC/NESTOR
Mission ID 0516A

Flight ID 20191019 I 1
(exp. 0213A)

Dropsonde Scientist ZAWISWAK
Dropsonde Scientist

AVAPS Operator PATEL
AVAPS Operator

Page# 1 of 2

MINI

| Drop # | Sonde ID | Time UTC | Lat (°N/S) | Long (°E/W) | Sfc Pressure (mb) | Wind closest to | | SST (°C) | Eye/Eyewall, Rainband, etc. | Obs # |
|-----------------------------------------------------------------------------------------------------------------|----------------------|-------------------|------------------|------------------|-------------------|-------------------|---------|----------|-----------------------------|-------|
| | | | | | | Dir/Spd (deg/kt) | Hgt (m) | | | |
| 1 | 192620610 | 004158 | 29.17 | 85.62 | 1004.7 | 090/44 | 10 | | IP | 01 |
| Comments IP ON 060° TO NE → INBOUND TO CIR 1, NEAR PRECIP Good Drop | | | | | | | | | | |
| 2 | 192540694 | 005510 | 28.74 | 86.47 | 1002.5 | 104/32 | 10 | | MP | 02 |
| Comments MIDPOINT ON INBOUND 060° → BETTER WX Good Drop | | | | | | | | | | |
| 3 | 152325011 | 005536 | 28.73 | 86.50 | 1003.6 | 98/16 | 12 | | MP | — |
| Comments MIDPOINT ON INBOUND 060° → MINI SONDE -- Good Drop | | | | | | | | | | |
| 4 | 192620597 | 010820 | 28.19 | 87.37 | 1000.0 | 101/76 | 10 | | CENTER | 03 |
| Comments "CENTER" #1 → WEIR HIGH, SW BAND ON AF FIX → CALLED IT A CIR → PRECIP GON HIG TO AFTER REMOVE SQUAD | | | | | | | | | | |
| 5 | 192810330 | 012106 | 27.65 | 88.30 | 1000.3 | 359/12 | 10 | | MP | 04 |
| Comments MIDPOINT OUTBOUND 240° ON 1 st PASS. Good WX Good Drop | | | | | | | | | | |
| 6 | 192540693 | 013123 | 27.22 | 89.04 | 1002.0 | 339/24 | 10 | | EP | 05 |
| Comments ENDPOINT ON 240° ON 1 st PASS. CLEAR BELOW Good Drop | | | | | | | | | | |
| 7 | 192620604 | 015737 | 26.86 | 87.03 | 1000.3 | 219/28 | 10 | | IP | 06 |
| Comments IF FOR NEXT INBOUND ON 180° AZI TO NORTH, PRECIP CLEAR, MAYBE STRONG CURV Good Drop | | | | | | | | | | |
| 8 | 192620604 | 015737 | 26.86 | 87.03 | 1000.3 | 219/28 | | | | |
| Comments | | | | | | | | | | |
| 8 | 192540923 | 020845 | 27.70 | 87.03 | 999.4 | 191/14 | 10 | | MP | 07 |
| Comments Good DROP. ACTUAL 999! AND IT WAS A MIDPOINT INBOUND ON 180° → (NO CTR ON THIS PASS) | | | | | | | | | | |
| 9 | 192620482 | 023321 | 29.52 | 86.97 | 1003.5 | 72/34 | 10 | | | 08 |
| Comments MIDPOINT OUTBOUND ON 360° - JUST OUTSIDE OF STRONG BAND. Good Drop | | | | | | | | | | |

