IFEX 20050716H1

Dropsonde Scientist

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. 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

- 2/1. 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.
- 24 3. Hand-carry all dropwindsonde data tapes or CDs as follows:
 - a. Outside of Miami-to the LPS or PI.
 - b. In Miami-to AOML/HRD.

[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

- 4. Debrief at the MGOC or the hotel during a deployment.
- 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_ | FEX-TCSP | Dropwin | dsonde S | cientis+ | Shir | -ley | Mu | rillo |) | Page of | 2 | |
|--|-----------|---------------|---------------|-------------|-------------|-----------------------------|---|-----|-------------------|---|---|---------|------|
| 1 | Flight | ID20050716H1 | Flight | Director | Paul | Flahe | ty | · | | Te | akeoff from MROC at 1830 | 24000 | C |
| Mission IDWXWXE SUSPECT Operators Sean McMillan Recovery at MROC at 084618 UTC | | | | | | | | | | С | | | |
| | Drop # | Sonde ID # | Time (UTC) | Lat (°N) | Lon (°W) | Surface Pressure (mb) | Wind clos to surfac dir/spd (kt) | | BT SST (°C) | Eye, Eyewall, Rainband (direction) | Comments | Ob # | |
| 1 | 1. | 042815237 | 193212 | 8.906 | 88.026 | 1009,9 | 2290/ | 7 | 27.9 | | combo BT Edrop, | 03 | 6 |
| 1 | - 2 | 043615104 | 194758 | 10.167 | 88.027 | 1009.3 | 287/10 | 7 | 28.5 | | combo BT# drop, press bias - 2,4mb | 04 | 16 |
| V | 13 | 042815058 | 195802 | 10.742 | 88.560 | 1009,2 | 236% | 7: | | | Pullanting cycles of | 06 | 10 |
| V | 4 | 043615107 | 201246 | 11.490 | 89.354 | 7 - 10 | 91%24 | NIA | 28.4 | | bad telementy Cop - did not reach surface | 07 | 20 |
| V | 5 | 042815233 | 203001 | 11.479 | 90.669 | 1008.5 | 122% | 7 | - | | Combo BT &drop, pressibilis 2,3mb | 09 | 6 |
| V | 6 | 042815229 | 204251 | 10.762 | 91.307 | 1009.0 | 2700/14 | 7 | | | press, bigg-2 24mb | 10 | 15 |
| V | 7 | 043615103 | 205643 | 10.167 | 92,026 | 1009.0 | 2510/12 | 7 | 27,8 | 44.5 | Combo GTEdras press bigs - 2.4mb | 12 | 10 |
| L | 18 | 042816047 | 211241 | 9.454 | 92.948 | | | | | | press bias 2 to mb stidnt mare it to | 179 | into |
| \ | 19 | 042815253 | 2128 16 | 8.832 | 91,959 | 1009.5 | 218/10 | 7 | 27.6 | 111111111111111111111111111111111111111 | combo BT todrop press bias - 2.4mb | 15 | 10 |
| V | 10 | 042815077 | 214032 | 8.185 | 91.316 | 1008.2 | 2340 | 7 | | | press bras - 2.6 mb | 17 | 10 |
| V | (1) | 042815232 | 215426 | 7,508 | 90.593 | 1009.2 | 276/8 | 7 | 27.3 | | combo BT=drap, press bias 2,2mb | 18 | 10 |
| V | 12 | 041718044 | 22/125 | 7.559 | 89.345 | 1008.6 | 242 | 7 | | | compo & cdrop, BT didn't work! | 19 | 10 |
| V | 13 | 042825044 | 222410 | 8,257 | 98.700 | 1008,4 | 283/9 | 7 | | | press bras -3.0mb | 21 | 10 |
| V | 14 | 042815221 | 223558 | 8.906 | 89.322 | 1008,8 | | | | | no winds! | 22 | |
| V | 115 | 042815020 | 225146 | 10.169 | 89.334 | 1008.5 | 257/1 | 7 | | | press bies = 2.5mb | | 10 |
| | V | | | | | | 11 | 1 | _ | | | - | - |

RH heating cycles press bigs - 2.7 mb

231012 11.542 89.322 1008,0

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

| | Storm TCSP-IFEX Dropwindsonde Scientists Shirley MurilD Page | | | | | | | | | | Page 2 of | 2 | |
|--|--|--|---------------------|------------------------|-------------|---|--|--------|-------------------|---|--|--|--|
| Flight ID20050716H1Flight DirectorPaul Flaherty Takeoff from MROC at 183 | | | | | | | | | | | akeoff from MROC at/83025 | 3024 UTC | |
| Mission IDWXWXE Suspect Operators Sean McMillan Recovery at MROC at 004618 | | | | | | | | | | | g utc | | |
| | Drop # | Sonde ID # | Time (UTC) | Lat (°N) decimal | Ion (°W) | Surface Pressure (mb) | Wind clo to surfa dir/spd -(kt) | ce | BT SST (°C) | Eye, Eyewall, Rainband (direction) | Comments | Ob # | |
| V | 18 | 042825043 | 235407 | 11.839 | 86.987 | 1008.6 | 154% | 8 | | | cress bias 7215 mb | 30 | |
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| | 10.18 | | 100 | 1 1 1 2 E | | | | | | | | | |
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| | | | | A Display | 11/19/11 | | North Man | 1/9/15 | Height (| | | A.T. | |
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