

Flight ID 180903H1 Storm Gordon Dropsonde Scientist Christopherson/Hazelton

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.

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.

Mission ended early

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

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Flight ID 18096341 Flight Director Ian Sears Takeoff from LAL at 2026 UTC

Mission ID 0207A Gordon AVAPS Operators Nick Underwood Recovery at LAL at 0000 UTC

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		2052	27°58'	83°59'	1016	252/19					01
2		2105	26°58'	84°00'	1014	70/20					02
3		2116	25°58'	84°00'	1012	45/17					03
4		2121	25°29'	84°00'	1012	55/11					04
5		2129	25°30'	83°14'	1013	—				2118 shown on DFile	05
6		2135	25°30'	82°38'	1010	165/11					06
7		2142	25°26'	81°55'	1013	160/28					07
8		2155	25.07	81.79	1013	—				Flagged surface wind	08
9		2206	25°47'	82°16'	1013	160/19					09
10		2219	26°31'	82°59'	1005	174/25			center		10
11		2231	27°10'	83°32'	1013	88/29					11
12		2240	27°16'	83°48'	1014	68/25					12

Issue at ~782 mb