Dropsonde Scientist

Flight ID 20180904HR **Storm** Gordon **Dropsonde Scientist** 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.

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

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Flight ID 20180904H2 Flight Director Jim Sears Takeoff from KLAL at 2210 UTC

Mission ID 0607A Gordon AVAPS Operators Nick Underwood Recovery at KLAL at ____ 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	164445130	2311	28°34'	86°30'	1014	177/26			SE		02
2	163535018	2336	29°43'	87°51'	1000	85/8			Center	Corrected	03
3	163845026	2347	30°9'	87°17'	—	—			NE Vmax	Surface Wind Flagged	06
4	164625211	0029	29°51'	87°52'	1000	145/23			Center		09
5	163935063	0034	30°7'	87°33'	[illegible]	[illegible]				No Surface Wind	10
6		0100	29°54'	88°3'	1001	090/12			Center		14
7	164445094	0103	30°6'	87°31'	1007	045/58			NE MaxWind		17
8	164615065	0118	30°4'	87°48'	1008	125/49			Max Wind		18
9	164615090	0123	30°1'	88°07'	1001	125/22			Center		19
10	164345005	0154	30°7'	88°14'	1000	095/20			Center		22
11	164445098	0219	30°7'	88°4'	998	135/10			Center		24
12	164015070	0355	30°12'	87°7'	1013	125/42			Rain Band	For ~~Rain Band~~ Module	29
13	164015067	0358	30°3'	87°2'	1015	155/34			Rain Band	For ~~Rain Band~~ Module	30
14	164015100	0402	29°53'	88°52'	1015	160/33			Rain Band	For ~~Rain Band~~ Module	31

Corrected

Offshore Intense Convection

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