

## Dropsonde Scientist

Flight ID 2016092312 Storm KARL Dropsonde Scientist Hui Christophersen

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.

N423RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm KARL

Dropwindsonde Scientists Hui Christopherse

Flight ID 20160923I2

Flight Director Belson / Sears

Mission ID WI2A

AVAPS Operators Han Abeger

Takeoff from St. Croix at 1939 UTC

Recovery at St. Croix at 0215 UTC

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Recovery at St. Croix at 0215 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	Closest hgt (m)	RR SSTR (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	51225	1946	28.1	65.1	1057.3	205/25	10	28.4		IP, IR, BT combo, Rsonde SSTR same	6
2	51060	1959	28.9	65.1	1002.3	210/43	10			mid point inbound of 1st leg	
3	45099	2015	29.9	65.4	992.2	351/26	10		Eye	center drop	8
4	51334	2029	30.8	65.3	1002.4	65/30	10			mid point outbound	11
5	25201	2042	31.5	65.2	1006.8	60/34	10	21.4	IR=28.6 BT=21.1	end point, IR, BT combo	12
6	35075	2118	31.0	67.2	1009.8	25/24	10		IR=29.2 BT=29.1	SW leg initial point	13
7	35155	2200	30.6	66.3	1005.3	360/24	10			mid point inbound	15
8	45183	2228	29.6	64.7	999.2	215/42	10			mid point of outbound, <del>IR, BT</del>	18
9	25132	2240	29.2	63.9	1007.5	190/32	10		BT=28.6 BT=28.1	end point of outbound, IR, BT	19
10	51038	2311	31.2	63.8	1006.7	185/36	10	18	BT=28.1	IP of inbound, 3rd leg, IR, BT	21
11	15107	2324	30.8	64.7	998.7	100/45	10			mid point of inbound	22
12	31009	2346	29.7	65.5	1000.4	295/38	10			mid point of outbound	23
13	45181	0005	29.1	66.7	1009.5	315/21	10		BT=28.3	end point of 3rd leg	26

← last drop

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