

Dropsonde Scientist

Flight ID 100916H1 Storm H. Karl Dropsonde Scientist S. Murillo

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

- SM 1. Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.
- SM 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- SM 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.
- SM 4. Complete the appropriate preflight set-up and checklists.

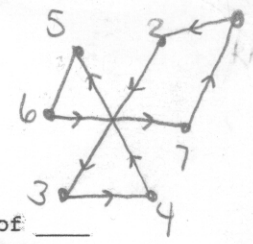
In-Flight

- SM 1. Operate the system as specified in the operator's manual.
- SM 2. Ensure the AOC flight director is aware of upcoming drops.
- SM 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.
- SM 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight

- SM 1. Complete Dropwindsonde Scientist Log.
- SM 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.]
- SM 4. Debrief at the base of operations.
- SM 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

WX13A Karl7



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

Storm TS Karl Dropwindsonde Scientists S. Murillo Page 1 of
 Flight ID 100916H1 Flight Director Jan Sears / Paul Flaherty Takeoff from MacDill AFB at 153626 UTC
 Mission ID WX13A Karl7 AVAPS Operators Steve Paul / Joe Greene Recovery at MacDill AFB at 234130 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	094735504	181755	21.241	92.574	1007.8	87/19	6			CIP	24
2	094735322	182925	20.513	92.962	1004.2	94/35	6			midpoint	27
3	094120023	183925	19.867	93.221	985.3	45/56	5			eyewall NE (late wind down)	30
4	095035150	184429	19.660	93.324	978.3	130/8	7			eye	32
5	094735732	184509	19.490	93.409	989.7	250/45	3			eyewall SW	34
6	094645097	185023	19.172	93.601	1001.4	266/33	6			midpoint	36
7	100145078	190413	18.751	93.904	1005.3	258/23	7			turn point pt3	38
8	100145116	191715	18.887	92.919	1003.7	232/39	7			turn point pt4	40
9	100145113	192359	19.812	93.192	998.9	208/37	7			midpoint	42
10	100145231	192847	19.619	93.384	980.7	181/33	8			eyewall SE	43
11	094735726	193325	19.879	93.590	984.5	325/70	9			around eyewall NW	46
12	094735756	194218	20.429	93.934	1003.5	29/33	6			midpoint	47
13	100145253	195502	21.148	94.460	1006.7	41/21	7			turn point pt5	49
14	094735496	201742	19.747	95.467	1005.7	318/19	10			turn point pt6	52
X 15	095035160	203041	19.781	94.4	1002.2	381/23	6			midpoint, funny humidity	
X 16	095735252	203944	19.745	93.82						eyewall, splash bad !!	
17	094735434	204212	19.78	93.63	975.1	90/2	5			center	57
18	094735280	204555	19.783	93.360	988.9	125/56	10			eyewall E	60
19	100145247	205510	19.764	92.702	1002.9	164/29	6			midpoint	62
20	094735005	210632	19.783	91.842	1005.8	144/16	6			endpoint (FP)	64

not transmitting
not transmitting