NOAA3 WX07A Earl1

Dropsonde Scientist

Flight ID 100828I1 **Storm** TS Earl **Dropsonde Scientist** Leighton

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

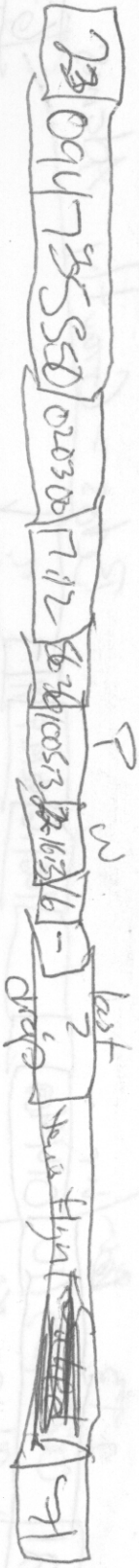
___ 1. Complete Dropwindsonde Scientist Log.

___ 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.



N42RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Bdos = Grantly Adams

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Flight ID 100828I1 Flight Director Ian Sears / Paul Flaherty Takeoff from Bdos at ____ UTC

Mission ID WX07AEarl AVAPS Operators Moscaro / Peek / Naehr Recovery at Bdos at ____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt) m/s	hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	094110167	211030	1550	5417.5	1004.1	287/9.9	1	—	100S	±P	15
2	094120135	211531	1525	5424	1002.8	284/13	5	—	55S	Pt2	16
3	094735472	213220	1629.4	544.7	989.4	317/2	7.3	—	Eye	Center E Pt3	
4	094735496	213830	1655.7	544.8	999.3	88/29.3	2		36N	N eastern, mid pt.	22
5	094735478	215744	1815.7	5112.5	1007.3	71/14.8	5		105N		23
6	094110142	221506	1717.0	5517.5						iffy midpoint downwind No launch detect	
7	094735490	224115	1658.7	5538	1006.7	44/14.9			W Rainband	endpoint start leg 3	26
8	094735499	222930	1630.1	5551.4	1003.8	347/4.5			W midpoint	W mid part leg 3	28
9	094110084	223754	1630.6	5504	1001.1	6/10.8	10				29
10	100155217	2259[illegible]	1625.1	54[illegible]	991.3				Eye		31
11	094735784	2307[illegible]	1631.4	5330.1	1003.7	142/6.7	3			midpoint leg 4	34
12	095335033	232155	1641	5238	1007.5	148/14.8	7			end leg 4	43
13	095335028	233430			1007.2	100/13.3	9				46
14	095335038	235[illegible]			1002.8	111/24	14				49
15	095035055	242000			1003	311/16.7	14				55
16	095335029	002158	1306	5534	1004						57
17	095335061	004235	1522	5426	1005.6	208/11	9				58
18	095035106	010021			1008	171/7.2	12				60
19	094735099	011919			1001.8	172/18	7				63
20	093736234	013120			992.3	288/9.0	19			Center	64

Additional entries (written above header):

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind dir/spd	hgt (m)	BT SST	Eye	Comments	Ob #
21	094735710	014400			1001.6	42/19.9	14		?		67
22	094120080	015800	1461	56.5	1005.9	39/13	20.1				68

Margin notes: 273 km/hr; 989; -06; 1639.9 54 12.4; center →; 990.1; pressure 1001 center 990; cut off early; ← 52; Garbage; 095 335 055; (over)