

19890920I1 - DROPS

E.6 Omega Dropwindsonde Scientist (On-board)

The on-board Lead Project Scientist (LPS) on each aircraft is responsible for determining the distribution patterns for sonde 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. The following list contains more general supplementary procedures to be followed. (Check off and initial.)

E.6.1 Preflight

- _____ 1. Determine the status of equipment and report results to the on-board LPS.
- _____ 2. Confirm the mission and pattern selection from the LPS and assure that the proper number and distribution (frequency) of sondes are on board the aircraft.
- _____ 3. Complete the appropriate preflight calibrations and checklists.

E.6.2 In-Flight

- _____ 1. Operate the system as specified in the operator's manual.
- _____ 2. Obtain drop release approval (for each drop) from the OAO/Flight Director or Navigator for each specific time and location of drop.
- _____ 3. Report to the LPS as soon as it is determined that the sonde is or is not transmitting a good signal.
- _____ 4. Report completion of each drop and readiness for the next drop.
- _____ 5. Complete Form E-6.

E.6.3 Postflight

- _____ 1. Complete the summary form for dropwindsondes.
- _____ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.
- _____ 3. Hand-carry all dropwindsonde data tapes and printouts and inform the OAO/Flight Director that you are arranging delivery as follows:
 - a. Outside of Miami - to the HRD operations center (FGOC).
 - b. In Miami - to AOML/HRD (temporarily), either directly or via MGOC, for conversion to 9-track magnetic tapes.

OMEGA-DROPWINDSONDE SCIENTIST LOG

STORM: HUGO

ODW SCIENTISTS FRANKLIN, SHAPIRO
W. LOUGHBY, MARES,
M. BLACK

OPERATOR S. LEYVA, J. BRUNSON

[illegible]

25094-1505092

- _____ 4. Debrief at the appropriate operations center (FGOC or MGOC).
- _____ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

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CASSETTE PROBLEMS
ALL FLIGHT

FORM E-6

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AOML/HRD

OMEGA-DROPWINDSONDE SCIENTIST LOG

FLIGHT: 890920IODW SCIENTISTS FRANKLIN, SHAPIROSTORM: HUGOMARKS, WILLOWHBYM BLACKOPERATOR SALIM, JAY BRUNSON

DROP #	SONDE ID #	TIME GMT	LAT (°)	LONG (°)	WIND (M/S) (WD/WS)	HEIGHT (GA)	TEMP (TA)	DEW PT. (TD)	PRESSURE (PS)	REMARKS
1	00425	1804	24.0	77.4	284/8	5455	-3.4	-17.2	526.4	
2	21422	1834	23.0	74.8	288/10	5438	-2.7	-8.9	527.1	
3	00426	1855	23.1	72.9	272/12	5436	-2.5	-8.4	526.4	
4	21427	1915	24.7	72.4	256/14	5361	-1.9	-1.6	528.8	
5	1472	1931	25.57	72.16	248/32 m/s	5249	0.0	+1.32	528.2	S of eye
6	21426	1951	27.00	72.33	096/42 mph	5201	1.5	1.8	528.3	N of eye
7	1473	1959	26.37	73.00	009/35 mph	5223	-1.8	0.8	528.5	W of eye
8	10874	200544	26.37	72.22	139/0.5	5061	6.0	1.4	527.9	eye
9	21425	2016	26.32	71.48	182/42 m/s	5259	-1.2	0.7	528.9	E of eye
10	1470	2047	24.53	70.10	208/16 m/s	5619	-4.6	-4.1	514.5	
11	21339	211656	23.32	68.50	199/10 mph	6248	-7.9	-19.3	477.0	
12	01468	2137	25.1	67.7	148/10 m/s	6756	-10.7	-20	447	
13	21337	2159	26.51	66.5	143/26 K	6773	-10.3	-15.2	446.9	STREAMEIZ
14	10875	2202	26.9	66.5	143/23 K	6777	-10.9	-15.3	447.2	
15	01471	2228	29.0	66.5	114/23 K	6848	-11.4	-15.2	443.7	
16	21335	2247	30.5	67.5	129/21 K	7808	-16.5	-24.9	390.7	BAD
17	10871	2252	30.9	67.6	128/22 K	7819	-17.0	-25.4	390.0	
18	01469	2307	32.0	68.6	144/02 m/s	7796	-17.1	-23.9	391.9	
19	21338	2321	32.0	70.1	132/12 m/s	7789	-18.1	-19.8	392.0	
20	1467	2341	30.5	70.9	135/38 K	7776	-16.1	-21.7	391.9	

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