

Dropsonde Scientist

Flight ID 201809264/Storm Genesis Dropsonde Scientist Jun Zhang

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.

170411.75

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

Storm Genesis Mission Dropwindsonde Scientists Jun Zhang Page 1 of 1

Flight ID 20180926H1 Flight Director Sears Takeoff from Liberia at 16:00 UTC

Mission ID WAWXF AVAPS Operators Man Recovery at LIBERIA, C.R. at 2042 UTC

GENESIS

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	164345125	1623	10.0	-87.0	1011.5	549/6	10				01
2	164345186	1637	10.7	-87.4	1011.2				fast fast no sent		
3	163615053	1639	10.75	-87.94	1011.7	726/7.4	10	27.87			02
4	163835124	1651	11.35	-88.69	1011.4	804/9.7	10	27.85			03
5	163615057	1657	11.65	-88.05	1011.1	98/6.5	10		up wind and data OK		04
6	164545011	1728	12.20	-91.5	1012.7	90/6.9	10				05
7	122225079	1753	11.78	-93.47	1012.2	92/11	10		IR sound		06
8	163025002	1754	11.71	-93.46	1010.2				no 10 m wind no sent		
9	122225067	1804	10.61	-92.91	1009.4	94.7/8	10		IR sound		07
10	122225127	1825	9.56	-92.5	1009.0	804/9.4	10	27.81	IR sound		08
11	122225068	1841	8.45	-91.99	1008.3	180/5	10		IR sound		09
12	122225081	1857	7.3	-91.5	1008.3	232/7.5	10		IR sound		10
13	122225072	1914	6.2	-90.99	1008.3	215/7.9	10		IR sound		11
14	163845017	1930	7.1	-89.99	1008.9	208/7.9	10				12
15	164015152	1948	8.06	-89.0	1008.4	218/3.5	10				13
16	164545053	2005	8.97	-87.96	1008.0	211/3.3	10		fast report check comm		14

210

turn

turn