AXBT

~~Dropsonde~~ Scientist

Flight ID _____ **Mission ID** _____

Dropsonde Scientists _____ _____

AVAPS Operators _____

_____

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 are often 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.

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

Storm DORA Dropwindsonde Scientists Paul Leighton Page 1 of 1

Flight ID 110724I1 Flight Director Ian Sears Takeoff from San Diego at 1659 40 UTC

Mission ID 0304E DORA AVAPS Operators Bill Olney/ [illegible] Richards Recovery at San Diego at 24 32 40 UTC

Drop #	Sonde ID # Ch	Time (UTC)	Lat (°N)	Lon (°W)	~~Surface Pressure (mb)~~ TEMP	~~Wind closest to surface dir/spd~~ (kt)	~~hgt~~ (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments MLD (M)	Ob #
~~1~~		~~1626~~	~~22.9~~	~~113.6~~	~~23~~	~~=~~		~~23~~			
1	12	19[illegible]	2258	115.41	22					±P	
2	12	1926	23.21	115.01	Mistemp Bill says 22 from SST [illegible] leg 1						
3	12	1950	24.52	113.99	21.6					mid point leg 2	
4	12	2004	2529	11358	20.8					End leg 2	
5	12	2029	2534	11552	20.2					start Pass 2 leg 3	
6	12	2041	2464	11507	20.5					midpoint leg 3	
7	12	2104	2341	11426	21					mid point leg 4	
8	12	2121	2251	11364	23					End point leg 4	
9	12	2147	2414	11283	21.1					Start Pass 3 leg 5	
10	12	2200	2414	11373	21.1					midpoint leg 5	
11	12	2225	2360	115.23	22.1					mid point leg 6	
12	12	2246	2409	11652	21.1					End Point	