Dropsonde Scientist

Flight ID_____**Storm**_____**Dropsonde Scientist**_____

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.

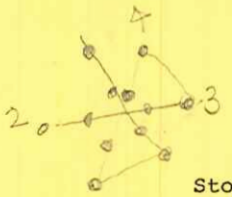
Post flight

_____ 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.



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

Storm LANE Dropwindsonde Scientists BUCCI Page ___ of ___

Flight ID 20180820H2 Flight Director HOLMES Takeoff from HNL at 1425 UTC

Mission ID 0414E AVAPS Operators PAUL Recovery at _____ at _____ 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 #	Temp	Buff
Combo	1	16402521S	163710	14°15°	150° 16'	1010.1	10/24	10.3	27.6		950 - 925 mb dry		X	X
	2	16462523								Eyewall	no launch signal			
Combo	3	16462S009	170749	13.61	-148.53	966.8	35/60	10.6		Max	just inside eyewall no SST		X	X
	4	16462S031	172232	12.93	-147.94	1006.9	185/34	11.6		mid pt	SH		X	X
	5	16462S217	173719	12.24	-147.25	1009.3	175/22	7.6		end pt	SE quad		X	X
	6	16462S014	180253	13.94	-147.01	1009.9	125/26	7.8		end pt	ENE quad		X	X
Combo	7	16462S00S	183228	13.5	-148.92	974.6	290/90	14		RMW	SW quad no SST		X	X
	8	16462S216	185503	13.09	-150.5	1010.5	320/23	10		end pt	WSW quad		X	X
	9	16462S217	192013	11.74	-149.55	1010.5	270/9	10		end pt	SSW quad drier low		X	X
	10	16352506	193412	12.65	-149.3	1006.8	280/31	10		mid pt			X	X
Combo	11	16352S055	195133	13.75	-148.9	975.7	40/90	28		RMW	NNE questionable SST		X	X
Combo	12	16462S216	201532	15.25	-148.6	1009.7	65/28	10	27.5	end pt	with circles SST good		X	X
											partial fast fall removed winds + temp above 836 mb			