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 <u>Erika</u>		Dropwindsonde Scientists_Buca								Page of		
Flight	ID 2015082612	Flight	Director						Tá	akeoff from <u>Barbados</u> at <u>16:55</u>	<u>)</u> utc	
Missio	n ID <u>0305A ERIKA</u>	AVAPS O	perators	·			7		Re	ecovery at <u>Barbados</u> at	_ UTC	
Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind clos to surfac dir/spd (kt)		BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #	
J	172612 - Pil	17:26	15.17	59,31	1010	205/9	8.1			91	1	
2	175054_P.2	17:50	15,98	58.58	1008	35/7	8,0			Center	2	
3	18 1721_ P.3	19717	17.02	57,48	1009	135/27	8.4			p2 - NE	3	
Ч	185008_P,4	18:50	17,08	59,94	1010	070/26	8.7			pt3-NW	4	
5	191426_P,1	19:14	16,21	58,72	1007	010/07	8,2			center	5	
6	193752_P.2	19:37	15,16	67.65	1008	165/15	7,9				4	
7	195917_P.3	19:59	16.64	57, 42	1009	165/26	7.8				7	
8	202102 - P. M	20:21	16,52	58,83	1006	340/03	8,2			center	8	
9	204247- P.1	20:42	16.51	60.39	1009	050/n	7, 4				9	
10	211738_P.3	21:17	15.17	59,93	1008	230/19	8.0				10	
11	214950_P.1	21:49	16.42	59,10	1000	230/8	8,5			center	11	
12	221147-P.2	22:11	17,91	59,10	1009	090/30	8.0				IR	
125	223456_P.3	2 2 :36	16,26	59,08	1000	180/20	8,4			Center	1.3	
		And Constraints										