## **Dropsonde Scientist**

Flight ID	090818I7 Mission ID WX03ABILL
Dropsond	e Scientists Sellwood
AVAPS O	perators Smith
illustrated problems, sole HRD	ead Project Scientist (LPS) on the P3 is responsible for determining the distribution or dropwindsonde releases. Predetermined desired data collection patterns are on the flight patterns. However, these patterns are often altered because of clearance etc. Operational procedures are contained in the operator's manual. On the G-IV the person is designated the LPS. The following list contains more general tary 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.
<u></u>	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)

rop	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd hgt (kt) (m)		BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
<b>.</b>	072719045	0843	16.17	56.83	1003.9	na				no winds have	not X
2	083259137	0855	14.80	56.31	1001.2	298/33	7,5			good	12
3	073019111	0908	17,44	55,63	989,0	298/50	5,4			Soul	= 14
4	091849272	0916	17.81	55,18	957.9	281/45	9.6	S.	EWSW	raccul conv warmene	nall 16
5	084439048	099	17.92	55.07	953.1	230/08	40		Eye	Cool	17
6	084419164	0924	18,23	54.74	964.4	090/116	9.9		EW NE	evenall sold on his	de 23
7	091459006	0947	19,24	54,00	1003,1	109/50	5.0			and of valor ler	25
8	072649043	1017	19,12	5453	8.0001	034/35	Sil		EWN	Strt Que 3	27
9	084919213	1636	18,22	55.57	Ma	352/109	Na	* *	EW NW	Scattered Strong Wells	5 30
10	084919252	1046	17.79	55.68	973.9	203/87	8.5		EWSE	no deep conv	33
lī	091849086	1106	17,13	5411	1060.3	170/47	7.6			Fairly Nu chore 900.	mb 34
17	084419071	1120	18.28	54.00	999.2	124/49	7.0	1.5	E 77 An Albert Nach	Stort rado les	38
13	091519012	1135	18127	55,05	Na	129/15	109.4		EWE	Sood	46
14	084919247	1141	18.22	55,45	95211	211/12	45		Eye	good (missel ene	() 53
15	083959196	1146	18,22	5584	971.5	323/85	9.9		EWW	good	46
16	083259044	1209	18.11	57.32	1002.5	332/33	89	lo.	and the second	Sier	48
17	084419020	1238	11,74	55,55	1001.4	218/39	8,5			soudstrt leit	1 53

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Flight ID 090819 I Flight Director Danie and Mission ID WX03 AVAPS Operators Smith Recovery at and Mission ID wx Avaps Operators Smith Recovery at Mission ID wx Avaps Operators Smith Recovery Avaps Operators Smith	UTC Ob	
	Ob	
		C
Drop   Sonde   Time   Lat   Lon   Surface   Wind closest   BT   Eye,   Comments	#	
18 84491032 1258 1819 53629124 1991661011 EWS OR PIN WALLOW	7156	
19 849 19161 1368 18:85 55:83 965.1 34/11 25.0 EWN salice extended s	tc. 58	
20 084919062 1330 2006 5598 0034 9156 249 Pend de 4/ 4000	al	