## **Dropsonde Scientist**

Flight	ID_	20190905HI Storm DORIAN Mission ID 4705A
Drops	onde	Scientists Britany Dall
AVAF	es o <sub>l</sub>	perators Wick Underwood
patterr illustra proble sole I	ns fo ated o ms, e HRD	ad Project Scientist (LPS) on the P3 is responsible for determining the distribution of 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 ary procedures to be followed. (Check off or initial.)
Preflig	ght	
	1.	Determine the status of the AVAPS and 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-Fli	ght	
	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 fl	ight	
	1.	Complete Dropwindsonde Scientist Log.
	2.	Download all raw and processed AVAPS files to thumbdrive
	3.	Brief the LPS on equipment status and turn in completed forms and thumbdrive.
	4.	Debrief at the base of operations,
	5.	Determine the status of future missions and notify Field Program Director as to where you can be contacted.

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

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Drop	Sonde ID	Time	Lat	Long	Sfc Pressure	Wind clos		SST	EyeEyewall,	Ob
#	Sonde ID	UTC	(°N/S)	(°E/W)	(mb)	Dir/Spd (deg/kt)	Hgt (m)	(C)	Rainband,etc,	#
		091755	31.00	77.48	1007	195/34		-		18
Comments	ID and May	earlight	uver-T	Huninds					*	o Co
2		093057	31,43	28.52	986	175/6	2	_	~	72
Comments	mid, inbo	und S. ov	od						•	
/ 3		09.5549	32.25	80.20	990	345/6	8	-	-	3
Comments	of abound a	nid cruttag	rund 1	1. 9000	1.			-	-	
-4		1019								1
Comments	in bound.		ND	anch	detect	BAD	-	-		
5		102020		80.82	1004	275/32	}	-	7	74V
Comments	ok up Intoorun	dend 1	1. 90			154			•	
16		1049	31.76	79.90	982	315/93	013	-	-	15V
Comments	inbound mi	d sw.		Launch	- V	1		L		4
7		1111	32 45	78.50	989	135/50		-	-	160
Comments	stagged 1	aunch i	winds	1 = 1					-	را
V 8	<b>V V</b>	1117	32.65	78.09	997	140/54		-	-	770
Comments	Magged	laund v	<i>vinds</i>	. set en	d t= 214.			1	1	
19	, y ,	113601	32,87		997	130/42			150	784
Comments	flugged		THINING				-		1	
V 10	John	113934	33.00	100 10	996	130/53		-		794
Comments	flagged	Caunch 7			1 22		1			

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 Storm\_\_\_\_\_\_ Flight ID\_\_\_\_\_\_ Dropsonde Scientist\_\_\_\_\_ AVAPS Operator\_\_\_\_\_ Page#\_\_/\_\_

 Mission ID \_\_\_\_\_\_ (exp. 0213A)

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST	EyeEyewall,	Ob
						Dir/Spd (deg/kt)	Hgt (m)	(C)	Rainband,etc,	#
11		114818	32,86	79.19	988	060/51		-	-	10
Comments	flagged le	aunch i	riads							
12		121834	30.98	79.18	999	235/53		-	-	11-
Comments	seturt = 211.755	to mak	e sure.	end does	not get	in.				
13		122559	30.38	79.18	1004	240/34		_	-	12-
Comments			unch T	Hwinds.	-					
14		125121	31.89	78.88	979	200/82		-	EYEWAL	13V
Comments	mw-paul	good			•				SE	
15		125313	31.98	78,97	964	195/81		-	EYEWAL	14
Comments	mw-paul	lug la	wuch T	+					SE.	
V 14		131430	.32.23	78.73	970	155/79		-	VEYEWALL	15 4
Comments	mw-paul	set end	t=198.0	DS.					E	
17	,	133620	32A1	78.67	974	140/51		-		162
Comments	Hagged PTA	t for th	9.05 -	Jumpin	lat/lon +	winds at	t= (0.0.	1 10,25 5	*	
18		1400	32.79	78.89	978	075/37		-	EYEWALL	17
Comments	mw N o	boo							N	
19		1401	32.71	78.92	974	085/77		-	EXEMALL	180
Comments	mw N Q	or d			,				W	
20		1415	32.00	79.00	975	075/76		-	EYEWALL	7190
Comments	mw N y	iaa 1777	t < 7.	55, WI	nd < 115	spike in la	t near	top	N	

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Storm Mission ID Flight ID (exp. 0213A) Dropsonde Scientist Dropsonde Scientist AVAPS Operator AVAPS Operator

Page#

Drop	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind close		SST	EyeEyewall, Rainband,etc,	Ob #
#						Dir/Spd (deg/kt)	Hgt (m)	(°C)		
16		1433	32,13	79.30	970	245/73		-	EYEWALL	20
Comments	mwsw g	pod							SW	
	- and -									
Comments						,				
							-			
Comments					3*					
		A ==								
Comments										1
Comments					,					7
Comments										1
Comments		-			1					ì
Comments				1	1					1
Comments		7	_	T				T	1	1
Comments										