

NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

Flight ID 1115A Storm LISA Dropsonde Scientist Sellwood

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.

x 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.]

x 3. Copy all raw and processed dropsonde files to portable drive for archival

x 4. Debrief at the base of operations.

x 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

Storm LISA Flight ID 1115A Dropsonde Scientist Sellwood AVAPS Operator Brian

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Drop	Sonde ID	Time	Lat	Lon	Sfc Pressure	Lowest Wind	Lowest Wind	SST	Eye, Eyewall,	Ob
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#		UTC	(°N/S)	(°E/W)	(mb)	Dir/Spd (deg/kt)	Hgt (m)	(°C)	Rainband, etc.	#
1	210710329	2305	18.05	-82.52	1012	120-23	10		IP NE	1
<b>Comments: End at 285.75;</b>										
2	211450306	2318	17.35	-83.19	1009	105-30	10		MID NE	2
<b>Comments: End at 288.25; rather dry %65</b>										
3	210230915	2328	16.92	-83.82	1005	105-37	10		RMW NE	3
<b>Comments: End at 267.50; 62kts at 960mb</b>										
4	210240368	2332	16.7	-84.03	997	215-23	12		CENTER	4
<b>Comments: End at 279.25</b>										
5	210910486	2333	16.65	-84.06	1000	230-38	10		RMW SW	5
<b>Comments: End at 261.50</b>										
6	211440426	2341	16.16	-84.35	1008	265-25	10		EP/MID SW	7
<b>Comments: Short leg due to land</b>										
7	210240908	0002	15.29	-83.30	1010	290-12	10		EP/IP SE	8
<b>Comments: Point adjusted southward to pass through center; set end 298.50 Aspen did not catch post-splash; interesting wind shift (land interaction maybe)</b>										
8	210710264	0015	14.96	-83.79	1011	240-23	12		MID SE	9
<b>Comments: End 296.75</b>										
9	213620230	0026	16.73	-84.11	997	145-57	10		RMW SE	10
<b>Comments: Open/no eyewall no manual QC</b>										
10	210430447	0029	16.95	-84.22	1005	060-44	10		RMW NW	11
<b>Comments: no manual QC</b>										
11	210650510	0041	17.77	-84.62	1010	065-27	10		MID NW	12
<b>Comments: End at 284.25</b>										
12	210810065	0048	18.21	-84.93	1011	035-12	10		EP NW	13
<b>Comments: End at 281.75; pretty dry</b>										

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
13	211440430	0112	16.91	-86.19	1012	030-10	10		IP W	14
<b>Comments: No manual QC</b>										
14	211450501	0123	16.88	-85.44	1011	005-12	10		MID W	15
<b>Comments: End at 299.25</b>										
15	213740179	0137	16.89	-84.54	1003	010-44	10		RMW W	17
<b>1Comments: There was a partial eyewall on the W side the first pass which is less solid now</b>										
16	210420675	0141	16.88	-84.27	1004	110-50	10		RMW E	16
<b>-Comments: missed the center - probably further south - late RMW</b>										
17	210420781	0151	16.88	-83.63	1011	130-25	10		MID E	18
<b>Comments: End at 271.50</b>										
18	210240914	0158	16.88	-83.12	1012	140-19	10		EP E	19
<b>Comments: No manual QC</b>										
<b>Comments:</b>										
<b>Comments:</b>										
<b>Comments:</b>										
<b>Comments:</b>										
<b>Comments:</b>										



