

Dropsonde Scientist

Flight ID 11082611 Storm Irone 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.

1008 C time
 020 12 not in
 3407 7749 10
 3418 7638 Center

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

Storm Irene Dropwindsonde Scientists Sellwood / marks Page 1 of
 Flight ID 1108271 Flight Director Damiano Takeoff from MacDill at 803 UTC
 Mission ID 3209A AVAPS Operators San Saverio / Hayslett Recovery at MacDill at 1516 UTC

Drop #	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 #
1	102125104	953	3411	7783	—	03/81	—		MID W	X
2	102115265	959	—	—	—	—	—		EW/W NLD	X
3	101955268	1003	3414	7703	961.6	35/49	8.0	EW/W	EW/W	17
4	102115264	1008	3431	7661	951.0	158/8	7.3	EYE	EYE	18
5	102125018	—	—	—	—	—	—		EW/E NLD	X
6	101655199	1016	3432	7600	962.8	132/49	10.1	EW/E	EW/E	20
7	102125035	1022	3431	7550	973.8	153/62	4.7		MID	22
8	102125033	1037	3431	7437	989.2	153/58	5.8		END LEG 1	24
9	102125098	1044	—	—	—	—	—		along dwl NLD	X
10	102115274	1054	—	—	—	—	—		along dwl (Duck?) X NLD	X
11	102125040	1104	3638	7550	995.4	88/41	6.7		END DWL	28
12	101715156	1113	3622	7537	983.3	94/47	7.0		Duck FE	30
13	101655236	1114	3601	7538	996.9	81/33	5.2			32
14	103525071	1113	—	—	—	—	—		LEG 2 NLD	X
15	103525164	1126	3554	7542	984.9	98/54	5.5		LEG 2	34
16	103525073	1132	3524	7543	980.9	117/60	7.1		RB FE	35
17	103525093	1139	3500	7590	970.3	114/60	6.5		EW/N FE	37

① sonde stopped transmitting didn't exit
 * vertic

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 1452

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

Storm Irene Dropwindsonde Scientists _____ Page 2 of 2

Flight ID 11082711 Flight Director _____ Takeoff from _____ at _____ UTC

Mission ID 3209A AVAPS Operators _____ 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 #
18	102535092	1144	3485	7627	957.4	104/54	7.5			EW / N	41
19	102525175	1149	3462	7659	951.1	230/60	6.5			E / E	39
20	102535097	1202	3378	7658	973.3	255/50	6.7			MID / E	42
21	102525177	1254	3539	7537	—	120/70	2.0			Coast RA	51
22	102535103	1324	3460	7681	959.2	273/58	6.6			Coast RA	54
23	102535110	1329	3445	7711	970.2	284/47	7.6			Coast	55
24	101715176	1325	3425	7754	979.1	291/50	7.6			Coast RIS	58

(21) stopped transmitting at 200m