

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

Storm H. Rita Dropwindsonde Scientists Shirley Murillo Page 1 of 3
 Flight ID 050922I Flight Director Marty Mayeux Takeoff from MacDill AFB at 131238 UTC
 Mission ID 1818A Rita AVAPS Operators Damon Sans Sanci Recovery at MacDill AFB at 222149 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface		BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
						dir/spd (kt)	hgt (m)				
HRD	1	002615518	143854	25.803	88.104	981.8	103/62	13.6	29.0	BT @ IP	12 ✓
rx	2	043615137	144639	25.435	88.540	929.4	51/105	21.7		← eyewall (N); UBLOX sonde; RH heating cycles	14 ✓
NHC	3	011378083	144711	25.408	88.569	—	74/89	—		← Bad T+RH whole sounding; eyewall (N); no heights	18 ✓
NHC	4	002158070	144905	25.256	88.636	913.3	191/4	7.8	28.2	← center BT combo; late winds	21 ✓
NHC	5	012025038	145759	25.201	88.784	—	206/128	98.4		← eyewall (SW); RH heating cycles	22 ✓
rx	6	044535006	145824	25.179	88.811	944.1	275/87	10.1		← eyewall (SW); UBLOX sonde	24 ✓
rx	7	051926067	150422	24.906	89.113	978.3	285/47	18.5		← 2nd ary eyewall (SW); UBLOX sonde	25 ✓
HRD	8	011345126	150943	24.659	89.385	988.4	291/35	19.7	28.4	BT combo; PLDGS; RH heating cycles; no RH below 71mb	26 ✓
HRD	9	011378204	151554	24.366	89.708	994.4	305/43	8.1	29.2	BT combo; RH heating cycles	28 ✓
HRD	10	011378082	152300	24.022	89.888	996.8	281/29	7.2	29.6	BT combo; RH heating cycles	29 ✓
HRD	11	012025041	160104	24.713	87.994	982.9	170/50	8	28.7	BT combo; PLD 5.5s; RH heating cycles	34 ✓
rx	12	044535050	160946	25.174	88.459	906.1	170/72	18		← PLD 10s 2nd ary eyewall?; RH heating cycles; UBLOX sonde	43 ✓
rx	13	044535574	161328	25.355	88.655	933.4	141/113	26		← eyewall (SE) moist; UBLOX sonde	44 ✓
NHC	14	011838035	161354	25.391	88.695	—	—	—		← PLD 10s eyewall (SE) telemetry lost below 700mb; no winds	45 ✓
NHC	15	011245470	161902	25.434	88.819	914.9	182/4	5.1		← RH heating cycles; centered drop clear eye	40 ✓
NHC	16	011378079	162343	25.533	88.938	—	—	—		← RH2 cuts out at 71mb; RH cuts out at 720mb; RH heating cycles; P100mb; RH rising below 8.78mb; only one wind	48 ✓
rx	17	051926203	162435	25.573	88.782	936.1	340/118	10.1		← eyewall (NW) BAD! only one wind; mid-sounding	48 ✓

rx = rainex sondes
 NHC = NHC sondes
 HRD = HRD sondes

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 Mission ID 1818A Rta AVAPS Operators Damon San Souci Recovery at MacDill AFB at 222149 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 #
rx	18	051946051	163040	25.856	89.281	975.6	7/56 10.1	28.9		RH heating cycles BT earlier; UBLOX sonde	50 ✓
HRD	19	010748096	163505	26.079	89.510	985.9	14/54 20.6	28.4		BT combo	51 ✓
HRD	20	011378081	164213	26.426	89.902	993.7	37/56 8.1	28.8		BT combo	52 ✓
HRD	21	012025042	164854	26.613	90.296	997.7	44/41 8.1	29.3		BT combo; DD5s	54 ✓
rx	22	043845187	173909	25.242	89.287	—	—	—		False launch detect - no 2nd ary eyewall (SW) release	—
rx	23	053166112	174125	25.359	89.180	—	—	—		False launch detect - no inner eyewall (SW) release	—
NHC	24	011378080	174514	25.572	89.015	913.6	139/10 4.8			center bowl-like center	61 ✓
NHC	25	012025067	175309	25.698	88.908	—	76/136 46.5			eyewall (inner) (NE) Late winds 67S RH spstly below 863 mb	63 ✓
rx	26	053166167	175612	25.833	88.757	959.4	108/93 9.1			moat region; UBLOX sonde	65 ✓
rx	27	053166065	190721	25.575	89.517	—	358/12 3.5			UBLOX sonde; RH heating cycles outer (2nd ary) eyewall (NW)	71 ✓
rx	28	053116069	190902	25.910	89.431	952.5	353/103 11.1			inner eyewall (NW); UBLOX sonde	72 ✓
NHC	29	012025039	191101	25.825	89.336	925.6	354/128 55.4			RH heating cycles - RH2 sensor outages affecting heating cycles eyewall (NW)	81 ✓
NHC	30	012025036	191320	25.730	89.198	912.9	171/16 7.5			center	80 ✓
NHC	31	012625023	191523	25.644	89.080	926.7	162/134 46.7			RH heating cycles - RH2 sensor outages affecting heating cycles eyewall (SE) dry layer 700 mb	84 ✓
rx	32	053166066	191906	25.491	88.907	959.6	177/78 16.7			moat (SE); UBLOX sonde	85 ✓
rx	33	053116030	192026	25.436	88.842	966.7	174/10 18.6			UBLOX sonde outer eyewall (SE) moist	87 ✓
NHC	34	012625035	204049	25.984	89.318	926.2	171/140 182.5			eyewall (NE); RH heating cycles	92 ✓

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35	012025037	204324	25.832	89.430	911.4	26/2	32.2			← Center Weak telemetry & spotty winds towards EOD	96 ✓
36	012625019	204655	25.819	89.251	926.0	136/13	15.2			← Eyewall (SW) RH heating cycles	97 ✓

NHC
 NHC
 →
 NHC = NHC
 Soudes

2043 25.83
 89.42W