

Storm Rita Dropwindsone Scientists M. Black / M. Bell Page 1 of 3

Flight ID 050922H Flight Director T. Shepard Takeoff from MacPill at 1532 UTC

Mission ID JX18A E17A AVAPS Operators B. Kerr / BILL OLNEY Recovery at MACDILL at 2337 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	Wind closest hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	044415164	171100	25.59	88.47	966	136°/72	6	27.1		(UBOX sonde) Outer eye wall E side ✓	7
2	051926271	172547	25.59	89.15	—	—	—			ELP 9 min, 49 s; no winds above 815 mb; no winds below 825 mb Outer eye wall outside ✓	15
3	042815074	173009	26.58	89.52	971	336°/73	10			Outer eye wall W side ✓	11
4	044535012	180022	25.20	89.03	966	237°/97	17	28.5		Outer eye wall S side ✓	15
5	051926228	180502	25.50	89.03	923	225°/65	58			Eye wall S side ✓	16
6	051926242	180913	25.80	89.03	931	511°/6	16			Eye wall N side ✓	17
7	043625140	181408	26.11	89.03	970	68°/77	16			Outer eye wall N side ✓	18
8	053166012	183229	26.72	89.32	940	312°/79	5			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	20
9	053166105	183241	25.72	89.31	937	324°/89	17			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	24
10	053166084	183541	25.71	89.30	935	311°/88	10			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	22
11	053166157	183808	25.70	89.25	937	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	23
12	053166159	191842	25.79	89.45	943	312°/81	30			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
13	053166018	191900	25.79	89.43	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
13A	053166013	191901	25.79	89.43	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
14	053166168	191927	25.78	89.40	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
15	053166073	191949	25.77	89.38	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
16	053166155	195543	25.88	89.49	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26
18	053166156	195617	25.86	89.46	—	—	—			No PTH 852-960 mb; no winds 854-888 mb; no winds 890-905 mb Outer eye wall S side ✓	26

MACDILL

N423RF HRD GPS Dropwindspeed Scientist Log (Revised 5/2002)

Storm RITA

Dropwindspeed Scientists _____

Page 2 of 3

Flight ID 050922AH

Flight Director _____

Takeoff from _____ at _____ UTC

Mission ID _____

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)	Wind closest hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Obs #
17	053166162	195603	25.87	89.48	—	—	—	—	—	W Eyewall	
19	053166077	195636	25.85	89.45	—	—	—	—	—	W Eyewall, NID	
20	053166099	202407	25.73	89.57	939	302/90	15	—	—	SW Eyewall, RH heating cycles	29
21	053166108	202425	25.74	89.55	—	—	—	—	—	SW Eyewall	
22	053166017	202443	25.75	89.53	—	—	—	—	—	SW Eyewall, RH heating cycles	
23	053166006	202508	25.76	89.51	—	—	—	—	—	SW Eyewall, RH heating cycles	
24	051926243	203444	25.60	89.71	960	287/103	21	—	—	RAINEX SW Outer Eyewall	50
25	051926241	203538	25.57	89.77	—	—	—	—	—	RAINEX SW Outer Eyewall	
28	053166165	210004	25.75	89.08	—	—	—	—	—	RAINEX SW Outer Eyewall	
29	053166143	210008	25.74	89.06	959	158/98	13	—	—	RAINEX SW Outer Eyewall	
30	053166164	210041	25.74	89.05	—	—	—	—	—	SE Outer Eyewall	
30	051926235	205220	25.75	89.47	—	—	—	—	—	RAINEX SW Outer Eyewall	
27	041724016	205225	25.84	89.27	—	—	—	—	—	RAINEX SW Outer Eyewall	
31	051926249	211613	26.28	89.71	—	—	—	—	—	RAINEX SW Outer Eyewall	
32	051926239	211707	26.24	89.69	—	—	—	—	—	RAINEX SW Outer Eyewall	
33	053166008	212001	26.11	89.61	—	—	—	—	—	RAINEX SW Outer Eyewall	
34	053166107	212023	29.09	89.60	937	37/101	5	—	—	NW Eyewall	36

RAINEX
RAINEX
RAINEX

Page 3 of 6

	UTC	at	Takeoff from
01	07:00	08:00	09:00
02	08:00	09:00	10:00
03	09:00	10:00	11:00
04	10:00	11:00	12:00
05	11:00	12:00	13:00
06	12:00	13:00	14:00
07	13:00	14:00	15:00
08	14:00	15:00	16:00
09	15:00	16:00	17:00
10	16:00	17:00	18:00
11	17:00	18:00	19:00
12	18:00	19:00	20:00
13	19:00	20:00	21:00
14	20:00	21:00	22:00
15	21:00	22:00	23:00
16	22:00	23:00	24:00
17	23:00	24:00	01:00
18	00:00	01:00	02:00
19	01:00	02:00	03:00
20	02:00	03:00	04:00
21	03:00	04:00	05:00
22	04:00	05:00	06:00
23	05:00	06:00	07:00
24	06:00	07:00	08:00

Recovery at UTC at

RA heating cycles		
NW 2 years 11, DLD 5s		
RAINEX NW outer cycle 11		RAINEX
RA heating cycles		
RAINEX 2000 5 outer exposure 11		RAINEX