



1363-1373 1614

N49RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm RITA Dropwindsonde Scientists NEAL DORST Page 1 of 2
 Flight ID 20050921N1 Flight Director PAUL FCAHERTY Takeoff from Mac Dill AFB at 1753 UTC
 Mission ID 1518A RITA AVAPS Operators Jeff Smith/Mark Bongars/Pete Brennan Recovery at MAC DILL AFB at 0140 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd hgt (kt) (m)	DLM wind (kt)	Comments	Processed	SATCOM tries	Ob #
								(RH heating cycles except as noted)			
1	053156035	181140	27.13	84.12	1009.5	104°/27 6.5	115/36	100% obscured; UBLOX sonde	✓	1	01
2	053166070	182413	26.36	85.65	1004.8	67°/37 6.7	95/45	100% obscured; UBLOX sonde; heaters off	✓	1	02
3	012625009	183955	24.64	85.16	995.4	122°/41 7.3	159/60	100% obscured; peak winds > 64 kt	✓	11	03
4	012625012	185603	22.88	85.69	999.2	212°/45 8.6	240/44	" " RH2 cuts out below 270 mb, RH2 heating cycles	✓	1	04
5	012625046	194116	21.39	84.16	1006.7	206°/14 7.5	215/23	10% below; no winds 527 - 565 mb	✓	1	05
6	012625016	193356	19.08	85.04	1007.8	245°/08 7.5	210/9	10% below	✓	11	06
7	012225077	194826	19.92	86.74	—	—	—	No winds	✓	—	—
7A	012225077	194955	20.11	86.77	1006.0	228°/14 8.0	245/15	Heaters off	✓	11	07
8	012625013	200638	21.80	87.21	1003.4	250°/23 7.4	275/26	Heaters off	✓	1	08
9	012225076	202043	N/A	N/A	—	—	—	Some weak PTH telemetry; Heaters off; NO LAUNCH DETECT - 150° winds	✓	—	—
9A	012625011	202158	21.96	89.23	1005.7	288°/19 6.4	325/13	Weak PTH telemetry; 30% low level; 135-905 mb; heaters off	✓	1	09
10	012625051	203403	22.76	90.54	1007.1	306°/21 7.1	015/13	40% low level; heaters off; Accu	✓	1	10
11	012625007	204956	21.02	91.03	1008.2	327°/19 7.2	330/7		✓	1	11
12	012625015	210655	20.12	92.95	1009.3	347°/12 7.5	330/4		✓	1	12
13	051926193	212136	21.89	93.07	—	—	—	NO WINDS	✓	—	—
13A	012225061	212434	21.79	93.43	1009.3	7°/17 4.5	035/7	Intermittent winds above 280 mb; heaters off	✓	1	13
14	053166176	213822	20.97	94.98	1010.6	312°/12 36.2	010/6	UBLOX sonde	✓	1	14
15	053156038	215514	19.10	95.69	1011.1	133°/21 34.2	345/8	UBLOX sonde; heaters off	✓	1	15

802-805



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820 1758

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Flight ID 20050921N Flight Director PAUL FLAHERTY Takeoff from MacDILL AFB at 1753 UTC

Mission ID 1518A RITA AVAPS Operators Jeff Smith / Mark Rogers / Dave Brogen Recovery at 0140 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	DLM wind (kt)	Comments	Processed	SATCOM tries	Ob #
16	053166190	221654	21.24	97.23	1012.6	333°/16	7.6	020/8	UBLOX sonde 70% mid level AS	✓	1	16
17	053116273	223844	23.85	97.45	1012.4	34°/12	6.9	065/15	UBLOX sonde	✓	1	17
18	012025100	225939	23.04	94.99	1010.8	—	—	—	WINDS LOST @ 575 mb	✓	11	18
19	012225062	231717	24.00	92.99	1008.4	10°/25	106	055/17	Some weak telemetry below 870 mb	✓	1	19
20	012025022	233202	24.69	91.29	1006.5	2°/25	7.5	035/21		✓	11	20
21	993215106	234757	26.03	92.93	1010.7	26°/14	7.4	050/20		✓	11	21
22	010715152	000428	27.87	91.98	1010.6	57°/19	7.4	050/20		✓	1	22
23	012225063	002133	26.50	90.56	1007.9	22°/29	8.8	045/20	Better telemetry on than on channel #2	✓	11	23
24	012625014	003535	27.48	89.06	1008.9	55°/27	10.1	060/31	AVAPS channel #6	✓	1	24
25	012625048	004915	27.54	87.23	1007.1	60°/29	29	080/38	Weak low-level PTH telemetry on AVAPS channel #2 better on channel #6	✓	1	25
25A	012625049	005135	27.75	87.01	—	—	—	—	Intermittent winds NOT SENT	—	—	—
26	023128009	010340	28.94	85.96	1011.7	110°/27	7.3	070/19	slow fall [LAST]	✓	11	26

1770 1670 240 340