

1217 1717 07.16 *Small Hurricane*

N49RF HRD GPS Dropwindsonde Scientist Log (Revised 9/2000)

Storm KEITH

Flight Director CZYZYK

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Flight ID 001002N

Dropwindsonde Scientists LANDSEA, GAWACHE, ABERSON

Takeoff 172132 UTC

Mission ID 0915A KEITH

AVAPS Operators PRADAS, SMITH, HILL

Landing _____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	10m wind (kn)	MBL wind (kn)	Location Comment	Comments	Cb #	SatComm Failures	Sent
1	99151549	182300	23.50	78.00	1012.1	150/14	150/14	Deep Layer Wind	Broken clouds below ^{2 layers} near AT level	1	1	✓
2	983020734	184257	21.80	76.00	1011.1	110/08	—		NPFL clear, hazy near AT level	3		✓
2a	984315283	184431	21.80	75.78	1012.1	135/07	140/07		little haze at AT level	2		✓
3	984715106	190754	22.26	73.26	1012.8	120/05	105/04		hazy	4		✓
4	993445254	191901	20.92	73.52	1013.2	120/14	115/12		hazy	5		✓
5	994315028	193021	19.54	74.03	1012.2	160/01	120/02		clear	6		✓
6	993655073	194858	19.25	76.49	1012.1	135/12	135/14		broken clouds below station	7		✓
7	993655008	200736	19.23	78.91	1010.7	170/18	165/22		in light	8		✓
8	991515237	200300	20.96	79.13	1011.4	245/11	235/17		in light cloud	9	1	✓
9	993645131	203808	21.43	80.96	1009.3	165/24	175/25		in light cloud	10	1	✓
10	993655011	205940	19.02	82.03	1008.3	185/27	180/29		?	11		✓
11	992455278	212548	18.12	85.36	1005.7	135/16	135/16		altocum below -1.3 mb baseline corr	12		✓
12	991515170	214623	20.01	89.06	1007.1	155/18	160/18		layered clouds/broken	13		✓
13	994015030	215506	20.86	84.61	1007.3	105/5	120/7		clear	14		✓
14	993655081	220417	21.74	85.25	1007.8	50/7	65/8		?	15		✓
15	993645264	221308	22.44	86.06	1008.0	70/15	70/17		?	16	1	✓
16	993655078	222200	22.40	87.02	1008.6	45/10	65/24		100% Alto status below	17	1	✓

#13 and 15 were added right before takeoff to help monitor a system

In NW Caribbean. Original #3 drop at 22.5N 75W was not done to save flight time.

200,500
700,500

SFC, 850

200, 500, 700, 850

(3)

Storm KEITH Flight Director STAN "BUYA JOMEL" (ZFRZK) Page 2 of 2
 Flight ID 001002N Dropwindsonde Scientists LANDSEA/GAMACHE Takeoff 172732 UTC
 Mission ID 0915A KEITH AVAPS Operators HILL / PRADAS / SMITH Landing UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	10m wind (kn)	MBL wind (kn)	Location Comment	Comments	Obs #	SatComm Failures	Sent
17	993645257	22445	22.00	89.25	—	—	—	no data 700mb	75/11 In thin cirrus, 100% Alt str below	18		✓
18	993655079	230108	21.09	91.47	1007.7	25/13	25/14		40/13 In thin cirrus 10% Str Co below	19		✓
19	993619407	232247	23.50	92.44	—	—	—	Failed at launch	30% Str Co			
19a	993215258	232332	23.58	92.53	1010.0	51/21	50/22		15/9 50% Str Co	20		✓
20	990435484	254525	25.11	93.38	1011.8	75/14	75/14	slow fall 2405	245/9 Clear	21	1	✓
21	993655077	000239	26.43	91.02	1012.0	—	—	no winds 7250mb	285/7 15% Str Co	22		✓
22	993655010	002605	24.58	89.95	1014.0	50/12	50/18		55/2 Partly Dark	23		✓
23	993925131	003854	25.53	87.57	1014.3	75/24	70/24		105/4 Mostly Dark	24	111	✓
24	993946032	005121	26.46	87.91	1013.0	75/20	80/21		210/3 Exceeding Dark - wind gusts	25	1	✓
25	993925193	010615	27.44	85.53	1013.7	55/19	55/18		210/5 Dark like the night - slow fall after 2000	26	1	✓
26	993925151	012528	25.63	84.41	1010.7	85/21	80/23		80/6 Dark, dark, dark	27		✓

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