

ACCUTRACKING (CELL PHONE) DATA									ACCUTRACKING (CELL PHONE) DATA											
DATA REPORTED FROM PHONE, 23FEB2013 Flight									CALCULATIONS, 23FEB2013 Flight											
time, EST	time, UTC	longitude	latitude	altitude	altitude	speed	speed	direction	time into	time	W-E	W-E	N-S	N-S	change in	change in	ascent	wind	wind	wind
(hr:min:sec)	(hr:min:sec)	(degrees)	(degrees)	(feet)	(m)	(mph)	(m/sec)		flight	change	change	speed	change	speed	altitude	altitude	rate	speed	speed	direction
	(derived)				(derived)		(derived)		(min, sec)	(seconds)	(m)	(m/sec)	(m)	(m/sec)	(ft)	(m)	(m/sec)	(m/sec)	(mph)	(angle)
(ASCENT)																				
1:38:06 PM	18:38:06	-73.71062	42.52012	253	77	8	3.6	NW	0m	0s	0	0	0	0	0	0	0	0	0	0
1:39:25 PM	18:39:25	-73.71243	42.52361	1630	497	24	10.7	NW	1m 19s	79s	-23	-0	388	5	1377	420	5.3	5	11	177
1:40:14 PM	18:40:14	-73.71467	42.52955	2712	827	26	11.6	NW	2m 8s	49s	-29	-1	660	13	1082	330	6.7	13	30	177
1:42:13 PM	18:42:13	-73.71303	42.54111	3840	1170	42	18.8	N	4m 7s	119s	24	0	1285	11	1128	344	2.9	11	24	1
1:45:04 PM	18:45:04	-73.68367	42.56753	7911	2411	35	15.6	NE	6m 58s	171s	507	3	2936	17	4071	1241	7.3	17	39	10
1:48:18 PM	18:48:18	-73.65113	42.57858	11240	3426	28	12.5	NE	10m 12s	194s	601	3	1228	6	3329	1015	5.2	7	16	26
1:50:28 PM	18:50:28	-73.61848	42.58985	13592	4143	124	55.4	E	12m 22s	130s	644	5	1252	10	2352	717	5.5	11	24	27
1:52:44 PM	18:52:44	-73.57449	42.60122	15858	4834	68	30.4	NE	14m 38s	136s	922	7	1263	9	2266	691	5.1	11	26	36
1:54:52 PM	18:54:52	-73.52699	42.61615	18308	5580	68	30.4	NE	16m 46s	128s	1073	8	1659	13	2450	747	5.8	15	35	33
1:57:00 PM	18:57:00	-73.47871	42.63306	20726	6317	71	31.7	E	18m 54s	128s	1179	9	1879	15	2418	737	5.8	17	39	32
1:59:08 PM	18:59:08	-73.41309	42.64423	x		100	44.7	E	21m 2s	128s	1682	13	1241	10				16	37	54
2:01:17 PM	19:01:17	-73.32817	42.66141	25610	7806	140	62.6	E	23m 11s	129s	2334	18	1909	15				23	52	51
2:04:07 PM	19:04:07	-73.19543	42.68941	28759	8766	162	72.4	E	26m 1s	170s	4047	24	3111	18	3149	960	5.6	30	67	52
2:06:56 PM	19:06:56	-73.08098	42.72129	x		158	70.6	NE	28m 50s	169s	3877	23	3543	21				31	70	48
2:09:57 PM	19:09:57	-72.88730	42.76707	x		172	76.9	E	31m 51s	181s	7492	41	5087	28				50	112	56
2:12:12 PM	19:12:12	-72.77348	42.78777	38353	11690	138	61.7	E	34m 6s	135s	4647	34	2300	17				38	86	64
2:14:56 PM	19:14:56	-72.64587	42.80250	42056	12819	131	58.6	E	36m 50s	164s	5404	33	1637	10	3703	1129	6.9	34	77	73
2:17:02 PM	19:17:02	-72.55461	42.80345	44653	13610	106	47.4	E	38m 56s	126s	3874	31	106	1	2597	792	6.3	31	69	88
2:19:19 PM	19:19:19	-72.47278	42.80242	47809	14572	0		N	41m 13s	137s	3465	25	-114	-1	3156	962	7.0	25	57	92
2:21:26 PM	19:21:26	-72.41144	42.79926	50459	15380	192	85.8	E	43m 20s	127s	2577	20	-351	-3	2650	808	6.4	20	46	98
<i>No data after 50,459 feet on ascent; data re-acquired at 53,962 feet on descent</i>																				
(DESCENT)																				
3:06:30 PM	20:06:30	-71.79175	42.79519	53962	16448	73	32.6	E	88m 24s	0s	0	0	0	0	0	0	0	0	0	0
3:08:37 PM	20:08:37	-71.72231	42.79333	44293	13501	129	57.7	E	90m 31s	127s	2875	23	-207	-2	-9669	-2947	-23.2	23	51	94
3:10:45 PM	20:10:45	-71.62036	42.80400	36309	11067	174	77.8	E	92m 39s	128s	4333	34	1186	9	-7984	-2434	-19.0	35	79	75
3:12:52 PM	20:12:52	-71.50044	42.82659	29690	9050	165	73.8	E	94m 46s	127s	5374	42	2510	20	-6619	-2017	-15.9	47	104	65
3:15:00 PM	20:15:00	-71.40577	42.84166	23698	7223	111	49.6	E	96m 54s	128s	4387	34	1675	13	-5992	-1826	-14.3	37	82	69
3:17:07 PM	20:17:07	-71.34782	42.85114	18551	5654	64	28.6	NE	99m 1s	127s	2741	22	1053	8	-5147	-1569	-12.4	23	52	69
3:19:14 PM	20:19:14	-71.30514	42.85865	13733	4186	62	27.7	NE	101m 8s	127s	2051	16	835	7	-4818	-1469	-11.6	17	39	68
3:21:21 PM	20:21:21	-71.28105	42.86233	9328	2843	26	11.6	NE	103m 15s	127s	1166	9	409	3	-4405	-1343	-10.6	10	22	71
3:23:27 PM	20:23:27	-71.26560	42.86949	5192	1583	24	10.7	NE	105m 21s	126s	759	6	796	6	-4136	-1261	-10.0	9	20	44
3:25:51 PM	20:25:51	-71.26095	42.87328	0	0	15	6.7	NE	107m 45s	144s	230	2	421	3	-5192	-1583	-11.0	3	7	29